

No. _____

In the
Supreme Court of the United States

DOUGLAS R.M. NAZARIAN, ET AL.,

Petitioners,

v.

PPL ENERGYPLUS, L.L.C., ET AL.,

Respondents.

**On Petition for a Writ of Certiorari to the
United States Court of Appeals for the
Fourth Circuit**

PETITION FOR A WRIT OF CERTIORARI

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QUESTIONS PRESENTED

The Federal Power Act (FPA) splits authority among states, utilities, and the Federal Energy Regulatory Commission (FERC). States regulate generation facilities and retail utility power purchases, but may not set wholesale rates. Wholesale energy sellers set their own rates. FERC has exclusive jurisdiction to review them and determine their legality.

In much of the country, independent system operators run multi-state transmission systems and wholesale energy markets. PJM Interconnection LLC (PJM), an operator whose region includes Maryland, procures by auction the generation capacity it expects the region to need for a one-year period beginning three years later. Looking beyond that horizon and concerned that facility retirements could degrade reliability, Maryland decided it needed new generation. It solicited offers, and required retail utilities to accept the winning bid. The resulting contracts obligate the bidder to build a plant and make it available to PJM for twenty years, while the retail utilities pay (or receive) the difference between the contract and PJM auction prices. The Fourth Circuit held Maryland's actions field and conflict preempted—contrary to the FPA's structure and decisions of this Court, the D.C. Circuit, and FERC.

The questions presented are:

1. When a seller offers to build generation and sell wholesale power on a fixed-rate contract basis, does the FPA field-preempt a state order directing retail utilities to enter into the contract?
2. Does FERC's acceptance of an annual regional capacity auction preempt states from requiring retail utilities to contract at fixed rates with sellers who are willing to commit to sell into the auction on a long-term basis?

PARTIES TO THE PROCEEDING

Petitioners (defendants in the district court and appellants in the court of appeals) are Douglas R.M. Nazarian, Harold Williams, Lawrence Brenner, Kelly Speakes-Backman, and W. Kevin Hughes, who were sued in their official capacities as the Chairman and Commissioners of the Maryland Public Service Commission. Rule 29.6 does not apply. Petitioner Nazarian was Chairman when the relevant orders were issued, but is no longer a member of the Commission. Petitioner Hughes is now Chairman.

CPV Maryland, LLC is filing a separate petition for a writ of certiorari. CPV was a defendant in the district court and an appellant before the court of appeals.

Respondents (plaintiffs in the district court and appellees in the court of appeals) are: PPL EnergyPlus, LLC; PPL Brunner Island, LLC; PPL Holtwood, LLC; PPL Martins Creek, LLC; PPL Montour, LLC; PPL Susquehanna, LLC; Lower Mount Bethel Energy, LLC; PPL New Jersey Solar, LLC; PPL New Jersey Biogas, LLC; PPL Renewable Energy, LLC; PSEG Power LLC; and Essential Power, LLC.

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INTRODUCTION

Electricity is the “life blood of modern society,” App. 29a, so regulating utilities to ensure that citizens have electricity when and where they need it is among a state’s most important police powers. *See Ark. Elec. Coop. Corp. v. Ark. Pub. Serv. Comm’n*, 461 U.S. 375, 377 (1983). States must monitor and, if needed, modify the generation-resource mix serving their citizens. An adequate and diverse resource portfolio supplies power across a wide range of conditions and reduces the risk that an event that affects only some resources could imperil reliability. States that fail to meet these responsibilities run unacceptable risks that the lights will go out—along with medical equipment, traffic lights, water purification plants, and virtually everything necessary to a modern economy and the well-being of a state’s citizens. The Federal Power Act (FPA), 16 U.S.C. §§ 791a–825r, preserved the states’ ability to manage their power supplies, but the Fourth Circuit’s opinion cripples that ability.

Maryland needed new natural-gas-fired generation, solicited proposals, and ordered its retail utilities to contract with the winner. CPV Maryland, LLC agreed to build a power plant and make its capacity and output available to the wholesale electricity market for twenty years. In exchange, CPV would receive fixed contract rates and stable revenues that it could not obtain without a contract. The Fourth Circuit struck down Maryland’s action and invalidated the contracts on grounds that (1) the state “set” rates for CPV’s sales and (2) the rates differed from those set through an annual auction that procures year-by-year capacity to fulfill needs forecast by PJM Interconnection LLC (PJM).

Those holdings are contrary to a half century of this Court’s teaching on FPA ratemaking, as well as D.C. Circuit precedent and Federal Energy Regulatory Commission (FERC) orders. The field-preemption holding—that states impermissibly “set[]” wholesale rates by directing retail utilities to contract with the winners of competitive power-supply solicitations, App. 19a—fails to recognize that sellers like CPV set their own rates and can do so by contract, subject to FERC review. *United Gas Pipe Line Co. v. Mobile Gas Serv. Corp.*, 350 U.S. 332, 341 (1956) (*Mobile*); *Morgan Stanley Capital Grp. Inc. v. Pub. Util. Dist. No. 1*, 554 U.S. 527, 531 (2008) (*Morgan Stanley*); *NRG Power Mktg., LLC v. Me. Pub. Utils. Comm’n*, 558 U.S. 165, 171 (2010) (*NRG*). The advent of independent system operators did not deprive sellers of rate-setting power. *Atl. City Elec. Co. v. FERC*, 295 F.3d 1 (D.C. Cir. 2002) (*Atlantic City*), *mandate enforced*, 329 F.3d 856 (D.C. Cir. 2003). CPV responded to Maryland’s procurement by offering the rate at which it would contract to build a new plant and sell its output to PJM on a long-term basis. Maryland’s directive to accept the offer neither set CPV’s rate nor intruded on FERC’s review authority.

The conflict-preemption holding likewise flouts this Court’s precedent on the relationship between short-term markets and long-term contracts, *Morgan Stanley*, as well as FERC’s orders. When FERC accepted PJM’s capacity-auction tariff, it held expressly that states could support new generation through long-term bilateral agreements. And later, with full knowledge of Maryland’s procurement, FERC specifically disclaimed any conflict between the state’s actions and the wholesale market. FERC held instead that resources like CPV’s are needed and economic if—as the CPV resource was—they are selected in the auction after bid-

ding based on their costs *excluding* contract revenues. Indeed, no state-federal conflict was possible here, as FERC was gatekeeper of PJM’s auction and CPV could bid only as FERC allowed. Thus, the decision’s finding that Maryland’s actions could “distort” PJM auction price signals is an improper collateral attack on FERC’s orders. *City of Tacoma v. Taxpayers of Tacoma*, 357 U.S. 320, 336 (1958).

These matters are exceptionally important. The decision below imperils dozens of state laws under which private parties are investing billions in needed generation plants, from clean-coal facilities in Illinois to offshore wind in Massachusetts. The Third Circuit already followed its sister Circuit’s lead in striking down a law to support new gas-fired generation in New Jersey, *PPL EnergyPlus, LLC v. Solomon*, 766 F.3d 241 (3d Cir. 2014) (*Solomon*),¹ and several other challenges based on the Fourth Circuit’s decision are pending elsewhere.

Going forward, the attacks leveled by this decision and its progeny will sow uncertainty, stifle investment in needed facilities, and open a dangerous generation-planning vacuum. Volatile short-run electricity prices rarely suffice to induce investment in expensive, long-lived assets, and, even if they could do so, they would not direct it to the right facilities. By design, the wholesale markets focus only on preserving short-run reliability at least cost, and are blind to long-run reliability, fuel diversity, environmental concerns, and similar matters. Meanwhile, FERC lacks authority to require utilities to build or buy what the market fails

¹ We understand that separate petitions for certiorari will seek review of *Solomon*, which raises the same field-preemption question as this case but did not reach the conflict-preemption question.

to elicit. States must provide that backstop. But the decision undercuts their ability to do so.

OPINIONS BELOW

The Fourth Circuit’s opinion (App. 1a–28a) is reported at 753 F.3d 467. The district court’s decision (App. 62a–196a) is reported at 974 F.Supp. 2d 790.

JURISDICTION

The court of appeals entered judgment on June 2, 2014. Petitioners Nazarian *et al.* (acting collectively as the Maryland Public Service Commission) filed a timely petition for rehearing and rehearing en banc on June 16, 2014. The court of appeals denied rehearing on June 30, 2014. App. 197a–201a. On September 15, 2014, the Chief Justice extended until November 27, 2014 the time for filing petitions for a writ of certiorari to review the Fourth Circuit’s judgment. App. 214a–216a. This Petition is therefore timely. This Court has jurisdiction under 28 U.S.C. § 1254(1).

CONSTITUTIONAL AND STATUTORY PROVISIONS

Article VI, Clause 2, of the United States Constitution is reproduced at App. 207a. FPA section 201, 16 U.S.C. § 824, is reproduced in pertinent part at App. 208a–210a. FPA section 205, 16 U.S.C. § 824d, is reproduced in pertinent part at App. 211a–213a.

STATEMENT

PJM is a “regional transmission organization” that operates the electricity transmission system and administers wholesale energy markets in a region that spans the District of Columbia and parts of 13 states,

including Maryland.² PJM’s responsibilities include ensuring short-term electric-system reliability, and to that end it holds an annual auction to secure the quantity of electric generation capacity that it expects the region to need during a one-year period beginning three years later.³ PJM’s auction procedures, established in a FERC-filed tariff, *see* App. 81a, set the amount of the capacity to be procured in each subregion of PJM, select the least-cost resources, and pay a uniform “clearing” price within each subregion for each megawatt of selected capacity. App. 11a, 98a-102a. The price is set by the most costly (or “marginal”) resource needed to meet the subregional requirement. *Id.*

Annual clearing prices fluctuate greatly. App. 98a.⁴ And while new resources can lock in for three years the price set by the first PJM auction in which they are selected, App. 11a-12a, this system has not induced the development of major new generation facilities in Maryland or other eastern PJM states. App. 37a, 53a.

The absence of new generation concerned Maryland, and became critical as the fate of its existing power supplies became less certain. PJM itself identified 2,320 megawatts of Maryland’s generation facilities as being at “high risk” of retirement. App. 34a-35a.

² App. 10a, 82a-83a; *cf. Morgan Stanley*, 554 U.S. at 536 (describing regional transmission organizations).

³ “Capacity” is “not electricity itself but the ability to produce it when necessary.” *Conn. Dep’t of Pub. Util. Control v. FERC*, 569 F.3d 477, 479 (D.C. Cir. 2009). “It amounts to a kind of call option that electricity transmitters purchase from parties—generally, generators—who can ... produce ... when required.” *Id.*

⁴ *See also* The Brattle Group, *Second Performance Assessment of PJM’s Reliability Pricing Model* 11-15 (Aug. 26, 2011), available at <http://goo.gl/OIdwX>.

The Maryland Public Service Commission investigated the state's need for new generation and, in parallel, directed retail utilities to solicit offers from developers willing to build facilities. App. 30a-34a. The commission ultimately concluded that Maryland needed 650-700 megawatts of new natural-gas-fired generation capacity by 2015,⁵ and selected CPV's offer as providing the best price for Maryland ratepayers. App. 56a-57a.

The commission directed the state's retail utilities to enter into contracts based on CPV's offer. App. 60a. The contracts required CPV to build the plant and bid its output into the PJM capacity auction and energy markets for twenty years.⁶ In turn they obligated the retail utilities (and, ultimately, their ratepayers) to pay CPV a fixed price, offset by whatever CPV earned from PJM. If the contract's capacity price exceeded a given year's auction clearing price, ratepayers would pay CPV the difference; alternatively, if the PJM auction price rose above the contract price, ratepayers would receive the excess. But Maryland was unwilling to pay CPV for capacity if its resource failed to clear the auc-

⁵ Maryland's conclusion reflected "major" concerns with the "always uncertain and now even more uncertain future of [the] existing coal-fired generation" in Maryland and neighboring states, App. 49a-51a, and a finding that additions of wind and solar generation would require "other dispatchable generation with flexibility to start quickly, a characteristic that our existing coal and nuclear fleet does not have." App. 52a (footnote omitted). Neither the district court nor the Fourth Circuit questioned Maryland's conclusions.

⁶ Although the contracts require CPV to offer both capacity and energy, the ensuing litigation focused on CPV's capacity sales and their relationship to PJM's auction. This petition focuses on those matters. Where a resource clears PJM's capacity auction as CPV did here, it must then offer energy into PJM's energy markets.

tion. The reason is straightforward: if ratepayers had to pay CPV for capacity that did not clear, then, under the PJM tariff, ratepayers would pay twice for capacity to meet the same reliability need—once to CPV under the contract and again for replacement resources procured by PJM’s auction. To avoid potential double charges, the contracts obligated the retail utilities to pay the contract price only for CPV capacity that cleared PJM’s auction.

The contracts, known in the industry as “contracts for differences,” were otherwise identical in purpose and effect to bilateral power purchases. If the retail utilities had purchased the power from CPV bilaterally, then *they* (instead of CPV) would have bid the capacity into the PJM auction—to get “credit” for the capacity and avoid paying twice—and would have passed through to ratepayers the contract cost and any auction revenues earned by the resource. Under that arrangement, CPV still would have received the contract price, and ratepayers still would have covered the difference between the resource’s contract cost and auction revenues. The contracts for differences accomplished in one step what otherwise would have taken two, while allocating to CPV the risk of its resource not clearing the auction.

The retail utilities appealed the commission’s directive that they enter into the contract.⁷ But a Maryland state court upheld the commission’s order, finding that it was “directly related to ensuring reliable service and protecting the public safety” and fit well within the

⁷ *In re Calpine Corp.*, No. 24-C-12-002853 (Balt. Cty. Cir. Ct. Oct. 4, 2013), available at <http://www.courts.state.md.us/business/tech/pdfs/mdbt2013-9.pdf>, appeal pending but stayed sub nom. *Md. Office of People’s Counsel v. Md. Pub. Serv. Comm’n*, No. 1738, Sept. Term 2013 (Md. Ct. Spec. App. docketed Nov. 6, 2013).

commission’s “broad supervisory and regulatory powers” to ensure that retail electric service is “safe, adequate, just, reasonable, economical, and efficient.” *In re Calpine*, slip op. at 16-17 (quotation omitted).

Reacting to both the Maryland contract and a larger state-sponsored generation procurement in New Jersey, some existing generators complained to FERC that sellers with such contracts would bid their resources into PJM’s capacity auction at artificially low (state-subsidized) prices, thereby distorting the auction. FERC responded by ensuring that could not happen. It modified the PJM auction rules to require offers for contract-backed resources to be set by PJM (subject to FERC review) based on the projects’ actual costs—excluding contract revenues.⁸

CPV’s resource was bid into and cleared the PJM auction in accordance with these modified rules. PJM reviewed CPV’s bid and replaced it with PJM’s own assessment of the resource’s “competitive, cost-based” net cost of entry, based “solely on revenues from PJM-administered markets as required by [the] PJM Tariff.” App. 125a (quotations omitted). The PJM-calculated bid for CPV’s resource was more than forty percent less than the auction clearing price. App. 125a-126a. FERC held that such resources are “economic,” “competitive,” and “[do] not artificially suppress market prices,”⁹ and concluded that its bidding rules “reconcile[d]” any “tension” between state generation-development programs and the wholesale market’s needs.¹⁰

⁸ *PJM Interconnection, L.L.C.*, 135 FERC ¶ 61,022, P 122, *on reh’g*, 137 FERC ¶ 61,145 (2011), *petition for review denied sub nom. N.J. Bd. of Pub. Utils. v. FERC*, 744 F.3d 74 (3d Cir. 2014).

⁹ 135 FERC ¶ 61,022, PP 175, 177.

¹⁰ 137 FERC ¶ 61,145, P 4.

Dissatisfied with FERC’s rulings, PPL EnergyPlus and other incumbent generators (Respondents here) sued in federal district court under 28 U.S.C. § 1331, alleging that Maryland had violated the Supremacy Clause and Commerce Clause. App. 65a. The district court held Maryland’s orders field preempted, did not rule on conflict preemption, and rejected the Commerce Clause challenge. App. 14a-15a, 194a. Maryland appealed the preemption rulings, and the court of appeals had jurisdiction under 28 U.S.C. § 1291.

The court of appeals affirmed the field-preemption holding, reasoning that, by ordering the retail utilities to accept CPV’s offer and sign the contracts, Maryland impermissibly “set[]” a wholesale rate. App. 19a. Unlike the district court, the appellate court also held Maryland’s actions conflict preempted, on grounds that they “distort[ed]” the capacity auction (App. 25a) and gave CPV a longer period of price stability than it could otherwise obtain through the PJM auction (App. 25a-26a). Requests for rehearing and rehearing en banc were denied. App. 201a.

FERC did not participate in either the district court or appellate litigation. FERC subsequently ruled that the decisions rendered the contracts void *ab initio*, and precluded FERC from passing on their justness and reasonableness. *CPV Shore, LLC*, 148 FERC ¶ 61,096, PP 30, 32 (2014).

REASONS FOR GRANTING THE PETITION

The matters at issue here are exceptionally important. Electricity is central to daily life. Providing it reliably—and choosing the facilities that produce it—are essential to protecting health and welfare.

The Court should grant certiorari because the decision below distorts the FPA’s rate-setting machinery,

and conflicts irreconcilably with multiple decisions of this Court and the D.C. Circuit. The field-preemption ruling conflates FERC's ability to review wholesale rates with a seller's ability to set them, constricting both roles while simultaneously impeding the states' ability to oversee power-supply planning and procurement. And the decision's reasoning—that states impermissibly set rates by directing retail utilities to contract with willing power sellers—threatens dozens of state laws and orders promoting needed electric generation facilities. The conflict-preemption ruling similarly strikes at one of the FPA's central premises—the role of long-term contracts in supporting investment in new facilities—and ignores this Court's teaching that “diminishment of [that] role” was “one of the seeds” of the energy crisis that roiled the western states. *Morgan Stanley*, 554 U.S. at 539.

The result is a decision that bulldozes state police powers, imperils existing state laws promoting generation development, and chills further efforts to support new resources. And by impeding the states, the decision creates a dangerous generation-planning vacuum that neither FERC nor the wholesale markets can fill.

I. The decision contorts the FPA's rate machinery, contrary to precedent, and thereby harms the states, public utilities, and FERC.

The decision turns the FPA's rate-setting framework on its head, in conflict with precedent of this Court and the D.C. Circuit. And it thereby harms not only the states but, also, wholesale energy sellers and FERC.

A. The decision conflicts with decades of FPA rate-setting precedent.

“Dual sovereignty” is a “defining feature” not only of our Nation’s “constitutional blueprint,” *Fed. Mar. Comm’n v. S.C. State Ports Auth.*, 535 U.S. 743, 751 (2002), but also the FPA. The statute gives FERC exclusive authority to review and potentially to modify rates for wholesale sales of electric energy in interstate commerce. *New England Power Co. v. New Hampshire*, 455 U.S. 331, 340 (1982). But the statute simultaneously preserves state authority over local matters like retail electric rates, generation facilities, “integrated resource planning and utility buy-side” decisions and “utility generation and resource portfolios,” *New York v. FERC*, 535 U.S. 1, 24 (2002) (quoting FERC Order No. 888).¹¹

State and federal FPA responsibilities interact with each other and with the rate-setting role of electric energy sellers. Under the FPA, neither states nor FERC set wholesale rates in the first instance. Utilities that sell electric energy at wholesale set their own rates subject to FERC review, *Mobile*, 350 U.S. at 341, and may do so by entering into contracts. *Morgan Stanley*,

¹¹ Promoting Wholesale Competition Through Open Access Non-Discriminatory Transmission Services by Public Utilities; Recovery of Stranded Costs by Public Utilities and Transmitting Utilities, Order No. 888, 61 Fed. Reg. 21,539 (May 10, 1996), FERC Stats. & Regs. ¶ 31,036 (1996), *clarified*, 76 FERC ¶ 61,009 (1996), *modified*, Order No. 888-A, 62 Fed. Reg. 12,274 (Mar. 14, 1997), FERC Stats. & Regs. ¶ 31,048 (1997), *order on reh’g*, Order No. 888-B, 62 Fed. Reg. 64,688 (Dec. 9, 1997), 81 FERC ¶ 61,248 (1997), *order on reh’g*, Order No. 888-C, 82 FERC ¶ 61,046 (1998), *aff’d in part and remanded in part sub nom. Transmission Access Policy Study Grp. v. FERC*, 225 F.3d 667 (D.C. Cir. 2000), *aff’d sub nom. New York v. FERC*, 535 U.S. 1 (2002).

554 U.S. at 531 (“[T]he FPA ... permits utilities to set rates ... through bilateral contracts”). As this Court explained, the FPA left electric energy sellers’ rate-setting powers “unaffected,” *Mobile*, 350 U.S. at 343, but required them to notify FERC so that the agency could “examine[]” the rates and modify them if needed, *NRG*, 558 U.S. at 171. The agency’s authority to protect the public interest is “paramount,” *Mobile*, 350 U.S. at 344, but its role remains “essentially passive and reactive.” *Atlantic City*, 295 F.3d at 10 (quoting *City of Winnfield, La. v. FERC*, 744 F.2d 871, 876 (D.C. Cir. 1984) (Scalia, J.)).

And the FPA does not merely tolerate contracts. It is “premised” on them. *Permian Basin Area Rate Cases*, 390 U.S. 747, 822 (1968). The “stability of supply arrangements” is a “dominant concern” under the Act, *NRG*, 558 U.S. at 175 (quotation omitted), and contracts play an “essential role” as a “key factor fostering stability in the electricity market, to the long-run benefit of consumers,” *id.* at 174 (citation omitted). That remains true even if “rates for a subset of the public might be high by historical standards” under a particular contract at a given point in time. *Morgan Stanley*, 554 U.S. at 551. The decision below, like the Ninth Circuit decision reversed in *Morgan Stanley*, “give[s] short shrift to the important role of contracts in the FPA ... , and ... threaten[s] to inject more volatility into the electricity market by undermining a key source of stability.” *Id.*

The FPA establishes a system of interlocking authority under which sellers decide the rates and terms on which they are willing to sell, states may require retail utilities to contract with willing sellers to develop needed supplies, and FERC may review the resulting transactions. As FERC itself has held, states may

“dictate” the specific “generation resources from which utilities may procure electric energy.” *Cal. Pub. Utils. Comm’n*, 134 FERC ¶ 61,044, P 30 & n.62 (2011). And though states may not impose prices on unwilling sellers, they may choose *among* offers made by willing sellers and require retail utilities to enter contracts, subject to FERC review. *Cal. Pub. Utils. Comm’n*, 132 FERC ¶ 61,047, P 69, *clarified*, 133 FERC ¶ 61,059 (2010), *reh’g denied*, 134 FERC ¶ 61,044 (2011).

FERC’s rate-filing regulations expressly disclaim any limitation on state authority to establish “[c]ompetitive procedures for the acquisition of electric energy, including demand-side management, purchased at wholesale” and “[n]on-discriminatory fees for the distribution of such electric energy to retail consumers for purposes established in accordance with State law.” 18 C.F.R. § 35.27. That state-supervised solicitations may result in wholesale sales contracts raises no preemption concerns because a willing seller must choose to sell and FERC may review and modify the agreements. State decisions producing contracts *subject to* FERC’s authority cannot be *preempted by* that authority.

The decision below conflicts with all of this precedent. It holds that Maryland usurped FERC’s wholesale rate-setting role—which the FPA assigns to wholesale energy sellers, and not FERC. Maryland set no rate: CPV set the rate here by bidding on Maryland’s solicitation and entering into the contracts based on that bid. The decision likewise holds that Maryland interfered with FERC’s regulation of wholesale markets—but FERC held otherwise. This Court and FERC have both held that long-term contracts and short-term markets can coexist. And, but for the decision below,

FERC could have reviewed the CPV contracts and if necessary modified them to prevent any conflict.

The decision below, not Maryland's procurement, upsets the FPA's orderly interlocking of authority. Knowingly or not, the decision strips states of the power to control their generation portfolios. If directing retail utilities to accept CPV's offer was field-preempted because that action "set" a rate, then almost any state order requiring retail utilities to contract with the winner of a state-run power-supply solicitation would be preempted. FERC's field is not limited to sales in PJM's auction, but encompasses all wholesale energy sales except narrow excluded categories. *See, e.g.*, FPA § 201(f), 16 U.S.C. § 824(f). And so, under the decision, developers willing to build new facilities on the basis of long-term contracts no longer can do so if their counterparties act on state orders. This constrains wholesale power supplies and jeopardizes reliability. And FERC loses the ability even to consider contracts for needed supplies that the decision deters or invalidates.

B. The decision conflicts with D.C. Circuit precedent and FERC's orders.

The decision treated PJM's transmission tariff, providing for annual capacity purchases and prices, as a filed rate that CPV and Maryland could not vary and that precluded them from entering into other arrangements. This ignored (1) CPV's rate-setting role as a capacity seller, (2) the complementary roles of long-term contracts and short-term power markets, and (3) that annual sales pursuant to PJM's tariff and CPV's contract commitment to offer capacity to PJM each year for twenty years are different products.

1. The decision elevates PJM’s tariff above CPV’s rate-setting authority, contrary to *Atlantic City*.

PJM buys capacity annually under auction procedures set forth in its tariff, but CPV—as the seller of its plant’s capacity—has a statutory right to set rates for those sales, subject to FERC review. CPV was willing to commit to offer its plant’s capacity for twenty years only on the basis of fixed contract rates. The Fourth Circuit’s treatment of PJM’s tariff as superseding CPV’s right to set its own rates (subject to FERC review) conflicts with D.C. Circuit precedent.

In *Atlantic City*, the D.C. Circuit held that utilities cannot be forced to cede to PJM “the right to file rates and terms for services rendered with [their] assets.” 295 F.3d at 9. There, transmission owners had given PJM the right to operate their facilities, and signed a contract under which they and PJM would share the right to change the region’s transmission rate design, subject to FERC review. FERC rejected the contract and directed the transmission owners to cede their remaining rate-change authority to PJM, but the D.C. Circuit reversed FERC’s decision. *Id.* at 15.

The court emphasized that a public utility, “like the seller of an unregulated commodity, has the right ... to change its rates ... [at] will, unless it has undertaken by contract not to do so.” *Id.* at 10 (quoting *United Gas Pipe Line Co. v. Memphis Light, Gas & Water Div.*, 358 U.S. 103, 113-14 (1958)). Thus, FERC can neither “force public utilities to file particular rates” under FPA section 205 nor “prohibit public utilities from filing changes in the first instance,” because denying the “ability to initiate rate design changes with respect to services provided with their own assets ... eliminate[s]

the very thing that the statute was designed to protect.” *Id.*

So too here. *Atlantic City*’s reasoning compels the conclusion that PJM’s tariff could not displace CPV’s right to set its own rate for wholesale sales, subject to FERC review. See *Midcontinent Indep. Sys. Operator, Inc.*, 148 FERC ¶ 61,057, P 92 (2014) (modifying transmission organization tariff that purported to give the organization unilateral rights to set rates paid to generators through that tariff). The D.C. Circuit and Fourth Circuit decisions thus conflict on the question whether regional transmission organization tariffs trump the rate-setting rights of utilities that own the facilities used to provide FERC-jurisdictional service. The decision below—that PJM’s short-term capacity-purchase tariff precludes CPV from establishing rates for longer-term sales to PJM, subject to FERC review—harms both sellers and states that want to develop needed new generation facilities on the basis of long-term contracts.

2. The decision conflicts with precedent on the coexistence of contracts and markets.

The Fourth Circuit held Maryland’s actions conflict preempted because the contracts contained different rates and provided more stability than the PJM auction offered. As this Court has explained, however, long-term contracts play an “essential role ... fostering stability” in those markets, *NRG*, 558 U.S. at 174, and it would be a “perverse rule” that enforces such contracts only if they mirror volatile year-to-year arrangements. *Morgan Stanley*, 554 U.S. at 547. That the contract and auction prices are different is no surprise, as the obligations assumed by short- and long-term sellers are different. Sellers in PJM’s auction under-

take single-year obligations and thereafter can seek to retire or sell their capacity outside PJM; the Maryland contracts, however, obligate CPV to offer its capacity to PJM continually for twenty years.

FERC understands the complementary nature of long-term contracts and short-term markets, and has sought to facilitate contracting by requiring regional transmission organizations to provide a platform on their websites “for market participants to post offers to buy or sell power on a long-term basis.” 18 C.F.R. § 35.28(g)(2). As the district court found, one of the ways that retail utilities can satisfy their share of the region’s capacity needs, in lieu of “[b]eing assigned capacity in the [auction],” is by “[e]ntering into a bilateral contract with a capacity resource” at a price determined by the parties. App. 90a.

FERC specifically addressed the use of long-term bilateral contracts to support new facilities when it accepted the settlement creating PJM’s capacity auction. West Virginia challenged the auction as intruding on state jurisdiction over generation, but FERC responded that it would not curtail states’ options, which included the ability to “create an incentive for the construction of new capacity by entering into long-term bilateral agreements.” *PJM Interconnection, L.L.C.*, 115 FERC ¶ 61,079, P 172 (2006).¹² In other words, FERC said states could do exactly what Maryland did: support new generation with a long-term bilateral agreement.

FERC then established terms on which resources supported by state contracts could participate in PJM’s

¹² See also *New England States Comm. on Elec. v. ISO New England Inc.*, 142 FERC ¶ 61,108, at 61,490 (2013) (LaFleur, Comm’r, concurring in part) (“[S]tates have the unquestioned right to make policy choices through the subsidization of capacity”).

auction without distorting prices, and CPV’s resource cleared the auction on that basis. App. 125a-126a. FERC held that its bidding rules “reconcile[d]” any “tension” between state generation-development programs and the wholesale market’s needs, *PJM Interconnection, LLC*, 137 FERC ¶ 61,145, P 4, and that re-resources clearing in accordance with them, like CPV’s, are “economic,” “competitive,” and “[do] not artificially suppress market prices.” *PJM Interconnection, L.L.C.*, 135 FERC ¶ 61,022, PP 175, 177.

The premises of the decision below—that FERC relies exclusively on short-term auction prices to support new generation and that long-term contracts at different prices end-run a filed rate—are contrary to FERC’s rulings, the reality of how PJM’s auction functions, and decisions of this Court. The decision’s reliance on *Mississippi Power & Light Co. v. Mississippi ex rel. Moore*, 487 U.S. 354 (1988), App. 20a, is thus misplaced and the resulting conflict-preemption conclusion unfounded. Bilateral contracts and centralized auctions coexist, and naturally produce different prices for short-term and long-term sales. As the two products are not the same, there can be no conflict as a matter of law. See *Fla. Mun. Power Agency v. Fla. Power & Light Co.*, 64 F.3d 614, 616 (11th Cir. 1996) (no filed-rate bar for sale of a different service).

II. The decision jeopardizes dozens of state laws and billions in private investment.

Maryland is not the only state acting to secure its energy future. States throughout the Nation require retail utilities to procure supply from specific resources or resource types or to support them with financial contracts for differences.

The reasoning of the decision below threatens all of these arrangements. It does not matter whether the

resource sells power to retail utilities directly or to a regional transmission organization or whether a state has provided for retail competition.¹³ Even states with vertically-integrated utilities sometimes require those utilities to solicit offers to buy power instead of building facilities themselves.¹⁴ If mandating solicitations and purchases “sets” a wholesale rate, then every state order requiring the purchase of a FERC-jurisdictional product or service from a competitively-selected seller would be field preempted. And, under the decision below, every state order directing retail utilities to contract for long-term capacity in PJM (or any other

¹³ The decision asserts (App. 13a) that, by “abandon[ing] the vertical integration model,” Maryland “relinquish[ed] ... the regulatory autonomy [it] had formerly enjoyed with respect to traditional utility monopolies.” Other courts of appeals, however, have found no such relinquishment. *N.J. Bd. of Pub. Utils. v. FERC*, 744 F.3d at 98 (FERC “permit[s] states to develop whatever capacity resources they wish, ... while ... prevent[ing] the state’s choices from adversely affecting wholesale capacity rates.”); *New England Power Generators Ass’n v. FERC*, 757 F.3d 283, 291 (D.C. Cir. 2014) (“[S]tates remain free to subsidize the construction of new generators[.]” FERC simply regulates how they are offered into wholesale capacity auctions). Similarly, in dismissing the appeal of Maryland’s order, the state court recognized that giving retail customers “choice as to their electricity supplier” did not divest state regulators of authority to “supervise and regulate” retail utilities to “promote adequate, economical, and efficient delivery of utility services.” *In re Calpine*, *supra* note 6, slip op. at 18 (quotation omitted).

¹⁴ See Nat’l Ass’n of Regulatory Util. Comm’rs, *Competitive Procurement of Retail Electricity Supply: Recent Trends in State Policies and Utility Practices* 1, 4 (July 2008), available at <http://goo.gl/zPpshw>; see also Dominion Va. Power, *Request for Proposal 5-6* (Nov. 3, 2014) (seeking bids for up to 1600 megawatts of power under a 10-20 year purchase agreement), available at <http://goo.gl/TWlAUe>.

region with a short-term auction) would also be conflict preempted.

Several important state initiatives already have been struck down or challenged based on the decision below. New Jersey—responding to reliability risks similar to Maryland’s—enacted a law requiring its retail utilities to solicit offers to build 2,000 megawatts of new natural-gas-fired generation. The state commission then conducted a competitive solicitation and instructed its regulated retail utilities to enter into contracts (similar to those at issue here) with sellers offering three new power plants, two of which later cleared the PJM auction under FERC’s modified rules. *Solomon*, 766 F.3d at 248-49. Citing the Fourth Circuit, the Third Circuit held New Jersey’s statute field preempted as impermissible wholesale rate-setting. *Id.* at 253.¹⁵

Massachusetts requires retail utilities to enter long-term contracts with renewable energy developers, subject to state approval.¹⁶ The law has spurred development of more than 1,000 megawatts of wind-powered generation across New England, including one of the Nation’s first and largest offshore wind projects: the 468-megawatt Cape Wind Project.¹⁷ Cape Wind’s opponents have relied on the decision below in their attempt to invalidate a Massachusetts utility’s contract to purchase Cape Wind power. Joint Opening Brief of

¹⁵ Unlike the Fourth Circuit, the Third Circuit expressed no opinion on conflict preemption. *Solomon*, 766 F.3d at 246.

¹⁶ 2008 Mass. Legis. Serv. ch. 169, § 83 (S.B. 2768); 2012 Mass. Legis. Serv. ch. 209 (S.B. 2395).

¹⁷ See Paul J. Hibbard, Analysis Grp., Inc., *The Impacts of the Green Communities Act on the Massachusetts Economy: A Review of the First Six Years of the Act’s Implementation* 11 (Mar. 4, 2014), available at <http://goo.gl/mMEsji>.

Appellants, *Town of Barnstable v. Berwick*, No. 14-1597, at 4, 25, 46 (1st Cir. Aug. 25, 2014) (“[A]s the Fourth Circuit recently held, a state may not use its regulatory authority over utilities to compel the utility to enter into a wholesale contract”). Although the district court dismissed the plaintiffs’ suit on sovereign-immunity grounds, it also explained that there could be no Supremacy Clause violation because Cape Wind had set its rate and FERC could review it.¹⁸

Connecticut allows state regulators to solicit proposals for renewable resources, select winners, and compel retail utilities to enter long-term agreements.¹⁹ Under this authority, Connecticut required retail utilities to enter long-term fixed-price contracts with a 250-megawatt wind project in Maine and a twenty-megawatt solar project in Connecticut.²⁰ A disappointed bidder challenged Connecticut’s actions, citing the decision below. *Allco Fin. Ltd.*, Notice of Additional Authority 3-5, June 16, 2014, *Allco Fin. Ltd.*

New York has adopted a comprehensive plan to modernize the state’s energy infrastructure.²¹ The plan contemplates state-directed contracting for thousands of megawatts of new resources or the temporarily continued operation of facilities that have proposed to re-

¹⁸ *Barnstable v. Berwick*, No. 14-10148-RGS, 2014 U.S. Dist. LEXIS 61892, at *29 n.26 (D. Mass. May 2, 2014) (citing *Atlantic City*), *appeal pending*, No. 14-1597 (1st Cir. filed June 2, 2014).

¹⁹ 2013 Conn. Pub. Act No. 303, § 6.

²⁰ See First Amended Complaint for Declaratory and Injunctive Relief for Violations of the Supremacy Clause of the United States Constitution and the Federal Power Act ¶ 53 & Ex. C, *Allco Fin. Ltd. v. Esty*, No. 3:13-cv-01874-JBA (D. Conn. Feb. 26, 2014).

²¹ See N.Y. Energy Highway Task Force, *New York Energy Highway Blueprint* (2012), available at <http://www.nyenergyhighway.com/Blueprint.html>.

tire but remain needed for reliability.²² Some of the contracts include power purchases, while others provide compensation solely to build new facilities or alter existing ones. Yet competitors have challenged even the latter kinds of contracts as field and conflict preempted, citing the decision below.²³

Numerous other mandated purchases either preceded the decision below or have not yet been challenged on preemption grounds (to our knowledge), but exemplify the kinds of important state actions that the decision below puts in jeopardy:

1. Illinois mandates that twenty-five percent of the state's electricity be generated by "clean coal facilities," so it required utilities to enter twenty-year purchase agreements with a consortium

²² See *New York Energy Highway Blueprint* 16-17; Order Addressing Repowering Issues and Cost Allocation and Recovery at 2-6, *Proceeding on Motion of the Comm'n to Examine Repowering Alts. to Util. Transmission Reinforcements*, No. 12-E-0577 (N.Y. Pub. Serv. Comm'n June 13, 2014) (Dunkirk Repowering Order), available at <http://goo.gl/HETtK3>.

²³ See Dunkirk Repowering Order 13, 37-40; Order Directing Negotiation of a Reliability Support Service Agreement and Making Related Findings 25-27, *Petition for Initiation of Proceeding to Examine Proposal for Continued Operation of R.E. Ginna Nuclear Power Plant*, No. 14-E-0270 (N.Y. Pub. Serv. Comm'n Nov. 14, 2014), available at <http://goo.gl/TNg213>; Letter from Doreen U. Saia, Attorney for Entergy Entities, to Hon. Kathleen H. Burgess, Secretary, N.Y. Pub. Serv. Comm'n at 6-7, *Proceeding on Motion of the Comm'n to Examine Repowering Alts. to Util. Transmission Requirements*, No. 12-E-0577 (May 27, 2014), available at <http://goo.gl/5gFQu5>; Letter from David B. Johnson, Attorney for Indep. Power Producers of N.Y., Inc., to Hon. Kathleen H. Burgess, Secretary, N.Y. Pub. Serv. Comm'n at 4 & n.11, *Dynegy Danskammer LLC, Petition For Waiver of the Generation Facility Retirement Notice Period & Requesting Other Related Relief*, No. 13-E-0012 (Jan. 15, 2014), available at <http://goo.gl/G3etMi>.

building the “world’s first coal-fueled, near-zero emissions electric power plant,” a multi-billion-dollar project.²⁴

2. Nevada has required electric utilities serving densely-populated counties to retire at least 800 megawatts of coal-fired generation and to construct, acquire, or contract for replacement capacity, including at least 350 megawatts of renewable-energy facilities.²⁵
3. Connecticut required its retail utilities to enter long-term contracts for differences with developers of 678 megawatts of new “peaking” generation.²⁶
4. Rhode Island required a retail utility to solicit proposals for long-term contracts from renewable generators,²⁷ and then approved the resulting power purchase agreements.²⁸
5. California required investor-owned retail utilities to contract with the owner of a roughly 570-

²⁴ See *Commonwealth Edison Co. v. Ill. Commerce Comm’n*, 16 N.E.3d 228, 233 (Ill. App. 2014) (quotation omitted); Lance Duroi, *Ill. Court OKs Rate Hike to Fund \$2B FutureGen Coal Plant*, Law360 (July 23, 2014), available at <http://www.law360.com/articles/560068/ill-court-oks-rate-hike-to-fund-2b-futuregen-coal-plant>.

²⁵ Nev. Rev. Stat. § 704.7316.

²⁶ Decision, *DPUC Review of Peaking Generation Projects*, No. 08-01-01, slip op. at 51 (Conn. Dep’t. Pub. Util. Control June 25, 2008), available at <http://goo.gl/UOf8vy>.

²⁷ R.I. Gen. Laws § 39-26.1-1 *et seq.*

²⁸ *In re Review of Proposed Town of New Shoreham Project*, 25 A.3d 482, 485-86 (R.I. 2011).

megawatt gas-fired generator to keep the plant operating when it otherwise would retire.²⁹

6. In a groundbreaking step, California also required those utilities to procure 1,325 megawatts of electric energy “storage” facilities—such as grid-scale batteries—with the procurements to be overseen by the state commission.³⁰
7. Regulators required Georgia Power to procure 525 megawatts of new solar generation by competitive solicitation, using an independent bid evaluator per Commission rules.³¹
8. Maine allows its state commission to direct retail utilities to enter into long-term contracts for electric capacity and energy selected through competitive procurements.³²
9. Massachusetts is considering a bill to require retail utilities to solicit up to 18,900 gigawatt-hours of clean energy per year, in addition to the state’s renewable portfolio standard requirements, via fifteen- to twenty-five-year contracts.³³

²⁹ Resolution E-4471 (Cal. Pub. Utils. Comm’n Mar. 22, 2012), available at <http://goo.gl/u8M7q7>; *Calpine Executes Contracts for Sutter Energy Center With California Utilities*, Bus. Wire, May 7, 2012, available at <http://goo.gl/ssgJrp>.

³⁰ *See Re: Procurement Targets for Viable & Cost-Effective Energy Storage Sys.*, Decision No. 13-10-040, 308 P.U.R.4th 213 (Cal. Pub. Utils. Comm’n 2013).

³¹ Final Order, *In re Ga. Power Co.’s 2013 Integrated Resource Plan*, No. 36498, slip op. at 18 (Ga. Pub. Serv. Comm’n July 11, 2013), available at <http://goo.gl/trbZkA>.

³² Me. Rev. Stat. tit. 35-A, §§ 3210-C(3), (6).

³³ An Act Relative to Clean Energy Resources, H. 4187, 188th Gen. Court, Current Sess. (Mass. 2014), available at <https://malegislature.gov/Bills/188/House/H4187>.

10. More generally, twenty-nine states and the District of Columbia have enacted enforceable renewable portfolio standards (RPS) or similar laws,³⁴ which “set[] a minimum requirement for the share of electricity to be supplied from designated renewable energy resources,” often tailoring the requirement “to best fit the State’s particular resource base or local preferences.”³⁵ Some can be satisfied by purchasing non-FERC-jurisdictional “Renewable Energy Credits,” but others require the purchase of capacity or energy from those resources.³⁶

The decision below casts a deep shadow over these and other mandated-purchase programs. The sheer number of state laws and procurements endangered by the decision underscores the need for immediate review. Deferring review now on the supposition that the

³⁴ See Gwen Bredehoeft & Michelle Bowman, *State Renewable Energy Requirements and Goals: Update through 2013*, U.S. Energy Information Admin., *Annual Energy Outlook 2014*, Report No. DOE/EIA-0383(2014), available at http://www.eia.gov/forecasts/aeo/state_renewable.cfm (last visited Nov. 21, 2014).

³⁵ See U.S. Energy Information Admin., *Most States Have Renewable Portfolio Standards*, Today in Energy (Feb. 3, 2012), available at <http://www.eia.gov/todayinenergy/detail.cfm?id=4850> (last visited Nov. 21, 2014).

³⁶ See U.S. P’ship for Renewable Energy Fin., *Ramping up Renewables: Leveraging State RPS Programs amid Uncertain Federal Support* 18, 24-26 (June 2012), available at <http://goo.gl/f6KxQw>. While some RPS-driven purchases will fall under the Public Utility Regulatory Policies Act of 1978 (PURPA), Pub. L. No. 95-617, 92 Stat. 3117, many will fall outside it because the resources exceed PURPA’s size thresholds, see 16 U.S.C. § 796(17)(A)(ii), or because FERC has terminated PURPA purchase requirements in certain markets, e.g., *United Illuminating Co.*, 123 FERC ¶ 61,269, P 1 (2008).

issues can be considered later runs the risk that tremendous damage will be done in the meantime. Much of the nation's existing generation was built decades ago and is out of step with current needs. The fleet requires an overhaul, and the states are the regulators with authority to oversee it. But the Third and Fourth Circuit decisions threaten existing state actions and will chill new ones, to the country's great and lasting harm. For every day that new generation facilities are delayed, the reliability, economic, and environmental benefits they would have provided are lost forever.

III. The decision creates a generation-planning vacuum, and will reduce investment in needed facilities.

The decision below struck down Maryland's order as conflicting with what the court perceived to be federal reliance on short-term wholesale price signals to develop new generation. App. 25a. That reasoning elevates PJM's auction and FERC's capacity-sales regulation to power-supply planning and development roles they were never intended to have and cannot fulfill, while gutting the states' ability to perform those jobs. The decision creates a regulatory vacuum for generation planning and development—at the worst possible time.

A. The decision erects barriers to long-term contracting needed to support investment.

As *Morgan Stanley* explained, “[m]arkets are not perfect, and one of the reasons that parties enter into wholesale-power contracts is precisely to hedge against the volatility that market imperfections produce.” 554 U.S. at 547. That is especially true here where the state is seeking to induce, in a highly volatile market, a several-hundred-million dollar investment in a new

power plant with a useful life measured in decades. In five of the first seven auctions, capacity prices in the part of PJM where CPV's plant will be located varied more than 20 percent from year to year.³⁷ Other PJM sub-regions are even more volatile, with one generator noting that during the 2013 auction capacity prices dropped more than fifty-six percent from the previous year, sending "shockwaves through the investment community and creat[ing] a great deal of uncertainty in the market."³⁸ Prices elsewhere may be more volatile still. The annual capacity price in New England's most recent auction more than doubled from the previous year, increasing annual consumer costs by nearly two billion dollars.³⁹

This Court has explained that "uncertainties regarding rate stability and contract sanctity can have a chilling effect on investments ... and this, in turn, can harm customers in the long run." *Morgan Stanley*, 554 U.S. at 551 (citation omitted). Indeed, the "vast majority" of new power plants, especially renewable-energy facilities, are built either by vertically integrated utilities or "with the support of long-term contracts."⁴⁰ The U.S. Chamber of Commerce agrees: "The amount of

³⁷ See *Second Performance Assessment of PJM's Reliability Pricing Model*, *supra* note 4, at 11-15.

³⁸ Am. Elec. Power, *Volatile Capacity Markets*, available at <http://www.aepsustainability.com/business/risk/volatile.aspx> (last visited Nov. 21, 2014).

³⁹ ISO New England, *Finalized Auction Results Confirm Slight Power System Resource Shortfall in 2017-2018* (Feb. 28, 2014), available at http://www.iso-ne.com/nwsiss/pr/2014/fca8_final_results_final_02282014.pdf.

⁴⁰ The Brattle Grp., *The Importance of Long-Term Contracting for Facilitating Renewable Energy Project Development* 1 (May 7, 2013) (*Brattle Report*), available at <http://goo.gl/2SA15x>.

incremental wind or solar that gets deployed in competitive power markets, for instance, will depend on the ability of developers to enter into long-term contracts to sell the electricity from their projects.”⁴¹

By one estimate, just two percent of all new generation in 2011 was built by an independent power producer based solely on wholesale market revenues.⁴² An update for 2013 reached almost identical findings. Just 2.4 percent of new capacity built in 2013 was based solely on market revenues.⁴³ The decision below consigns states to exclusive reliance on markets that have neither supported construction of major new generation facilities nor will be able to do so because they cover periods “far too short” to provide “the long-term assurance of revenues ... needed to adequately support generation investments.”⁴⁴

B. Neither wholesale markets nor FERC can substitute for state-supervised generation planning and contracting.

Congress left the states in charge of regulating generation facilities and retail utility power supply portfo-

⁴¹ U.S. Chamber of Commerce, *Assessing the Impact of Potential New Carbon Regulations in the United States* 29 (Inst. for 21st Century Energy 2014), available at <http://www.energyxxi.org/epa-regs-report>.

⁴² *Brattle Report*, *supra* note 39, at 10 (citing Elise Caplan, *What Drives New Generation Construction? An Analysis of the Financial Arrangements behind New Electric Generation Projects in 2011*, Elec. J., July 2012, at 48).

⁴³ Am. Pub. Power Ass’n, *Power Plants Are Not Built on Spec: 2014 Update 2*, available at http://appanet.files.cms-plus.com/PDFs/94_2014_Power_Plant_Study.pdf.

⁴⁴ Mathew J. Morey et al., *Ensuring Adequate Power Supplies for Tomorrow’s Electricity Needs* 60 (June 16, 2014), available at <http://goo.gl/LTSOiG>.

lios because those decisions have important local consequences. Facilities have different effects on local air and water quality, noise levels, local economies, and a state's ability to comply with federal environmental mandates.

Neither FERC nor the organized wholesale power markets are able, legally or practically, to perform the states' traditional power-supply planning role. FERC acknowledges that the organized wholesale markets choose resources based on price, location, and near-term reliability needs, and are blind to other important considerations. *PJM Interconnection, LLC*, 137 FERC ¶ 61,145, P 90 (PJM's capacity auction does not "recognize ... environmental or technological goals, nor does it contemplate reliability concerns beyond a three-year forecast."). The wholesale markets do not attempt to promote fuel diversity,⁴⁵ and FERC deems itself powerless to incorporate environmental impacts into its ratemaking decisions. *Grand Council of the Crees (of Quebec) v. FERC*, 198 F.3d 950, 957 (D.C. Cir. 2000).

Regulators must be able to require utilities to procure needed generation that the market does not elicit, and Congress reserved that authority to the states, not FERC. Congress expressly denied FERC the authority to "compel the enlargement of generating facilities," even as a means of remedying insufficient service, FPA §§ 207, 202(b), 16 U.S.C. §§ 824f, 824a(b), and FERC cannot order a public utility to file a rate for service it has not chosen to provide, *Atlantic City*, 295 F.3d at 10.

⁴⁵ Corina Rivera Linares, *PJM's Boston: "World's Largest and Fastest Fuel Change" Taking Place Now*, TransmissionHub (Oct. 22, 2014), available at <http://goo.gl/BWBxxM> (quoting FERC Chairman LaFleur's statement that fuel diversity "was never part of the design").

Under the FPA, only the states can order utilities to build new facilities or support them by contracting with generation developers. But the decision below tramples that authority.

C. The decision guts the states’ authority at the worst time.

The decision below wrongly implies that losing the authority at issue here is a small thing because states may be able to support investment with non-contract incentives. *See* App. 23a (asserting the “limited scope” of its holding); *see also Solomon*, 766 F.3d at 253 & n.4. That is cold comfort. Just as volatile short-term market prices are ill-suited to inducing needed investment, the same is true of tax incentives and similar non-contract measures that can be repealed at a legislature’s whim. Durable, capital-intensive utility assets are rarely built on such shifting sands. Long-term contracts—enduring and enforceable—are required.

And the need for states to be able to direct retail contracting to support new generation is about to become even more acute. On the same day the decision below was issued, the U.S. Environmental Protection Agency proposed a rule requiring each state to reduce power plant carbon dioxide emission rates by a specific amount.⁴⁶ Achieving mandated cuts while preserving reliability will require the states to manage actively a major shift in their power supplies, reducing reliance on coal- and oil-fired resources and increasing the use of natural-gas-fired generators, renewable resources,

⁴⁶ U.S. Env’tl. Protection Agency, Carbon Pollution Emission Guidelines for Existing Stationary Sources: Electric Utility Generating Units, Proposed Rule, No. EPA-HQ-OAR-2013-0602 (June 2, 2014), 79 Fed. Reg. 34,829 (June 18, 2014).

and nuclear facilities.⁴⁷ To accomplish this transformation while maintaining reliability, many states will need to direct utilities to enter long-term contracts for cleaner new resources and shorter-term contracts to retain existing supplies temporarily. The decision below ties the states' hands at the worst possible time.

CONCLUSION

The petition for a writ of certiorari should be granted.

Respectfully submitted,

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⁴⁷ See U.S. Env'tl. Protection Agency, *Clean Power Plan Toolbox for States*, <http://www2.epa.gov/cleanpowerplanttoolbox> (last visited Nov. 21, 2014).

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APPENDIX A

PUBLISHED

UNITED STATES COURT OF APPEALS FOR THE
FOURTH CIRCUIT

No. 13-2419

PPL ENERGYPLUS, LLC; PPL BRUNNER
ISLAND, LLC; PPL HOLTWOOD, LLC; PPL
MARTINS CREEK, LLC; PPL MONTOUR, LLC;
PPL SUSQUEHANNA, LLC; LOWER MOUNT
BETHEL ENERGY, LLC; PPL NEW JERSEY
SOLAR, LLC; PPL NEW JERSEY BIOGAS, LLC;
PPL RENEWABLE ENERGY, LLC; PSEG
POWER LLC; ESSENTIAL POWER, LLC,

Plaintiffs - Appellees,

v.

DOUGLAS R.M. NAZARIAN; HAROLD WILLIAMS;
LAWRENCE BRENNER; KELLY SPEAKES-
BACKMAN; KEVIN HUGHES,

Defendants – Appellants,

and

CPV MARYLAND, LLC,

Defendant.

AMERICAN PUBLIC POWER ASSOCIATION;
 NATIONAL RURAL ELECTRIC COOPERATIVE
 ASSOCIATION; NRG ENERGY INC.; MARYLAND
 OFFICE OF PEOPLE'S COUNSEL; CONNECTICUT
 PUBLIC UTILITIES REGULATORY AUTHORITY;
 CONNECTICUT DEPARTMENT OF ENERGY
 AND ENVIRONMENTAL PROTECTION;
 GEORGE JEPSEN, Attorney General for the State
 of Connecticut; CONNECTICUT OFFICE OF
 CONSUMER COUNSEL; NEW ENGLAND
 CONFERENCE OF PUBLIC UTILITIES
 COMMISSIONERS, INC.; MAINE PUBLIC
 UTILITIES COMMISSION; RHODE ISLAND
 PUBLIC UTILITIES COMMISSION; VERMONT
 PUBLIC SERVICE BOARD; VERMONT
 DEPARTMENT OF PUBLIC SERVICE;
 CALIFORNIA PUBLIC UTILITIES COMMISSION;
 PUBLIC SERVICE COMMISSION OF THE STATE
 OF NEW YORK (NYPSC); PUBLIC SERVICE
 COMMISSION OF THE DISTRICT OF COLUMBIA;
 DELAWARE PUBLIC SERVICE COMMISSION;
 NEW JERSEY BOARD OF PUBLIC UTILITIES;
 NEW JERSEY DIVISION OF RATE COUNSEL;
 MARYLAND ENERGY ADMINISTRATION;
 AMERICAN WIND ENERGY ASSOCIATION; THE
 MID- ATLANTIC RENEWABLE ENERGY
 COALITION,

Amici Supporting Appellants,

3a

PJM POWER PROVIDERS GROUP;
ELECTRIC POWER SUPPLY ASSOCIATION;
EDISON ELECTRIC INSTITUTE,

Amici Supporting Appellees.

No. 13-2424

PPL ENERGYPLUS, LLC; PPL BRUNNER
ISLAND, LLC; PPL HOLTWOOD, LLC; PPL
MARTINS CREEK, LLC; PPL MONTOUR, LLC;
PPL SUSQUEHANNA, LLC; LOWER MOUNT
BETHEL ENERGY, LLC; PPL NEW JERSEY
SOLAR, LLC; PPL NEW JERSEY BIOGAS, LLC;
PPL RENEWABLE ENERGY, LLC; PSEG
POWER LLC; ESSENTIAL POWER, LLC,

Plaintiffs - Appellees,

v.

CPV MARYLAND, LLC,

Defendant – Appellant,

and

DOUGLAS R.M. NAZARIAN; HAROLD
WILLIAMS; LAWRENCE BRENNER; KELLY
SPEAKES-BACKMAN; KEVIN HUGHES,

Defendants.

AMERICAN PUBLIC POWER ASSOCIATION;
NATIONAL RURAL ELECTRIC COOPERATIVE
ASSOCIATION; NRG ENERGY INC.; MARYLAND
OFFICE OF PEOPLE'S COUNSEL; CONNECTICUT
PUBLIC UTILITIES REGULATORY AUTHORITY;
CONNECTICUT DEPARTMENT OF ENERGY AND
ENVIRONMENTAL PROTECTION; GEORGE
JEPSEN, Attorney General for the State of
Connecticut; CONNECTICUT OFFICE OF
CONSUMER COUNSEL; NEW ENGLAND
CONFERENCE OF PUBLIC UTILITIES
COMMISSIONERS, INC.; MAINE PUBLIC
UTILITIES COMMISSION; RHODE ISLAND
PUBLIC UTILITIES COMMISSION; VERMONT
PUBLIC SERVICE BOARD; VERMONT
DEPARTMENT OF PUBLIC SERVICE;
CALIFORNIA PUBLIC UTILITIES COMMISSION;
PUBLIC SERVICE COMMISSION OF THE STATE
OF NEW YORK (NYPSC); PUBLIC SERVICE
COMMISSION OF THE DISTRICT OF COLUMBIA;
DELAWARE PUBLIC SERVICE COMMISSION;
NEW JERSEY BOARD OF PUBLIC UTILITIES;
NEW JERSEY DIVISION OF RATE COUNSEL;
MARYLAND ENERGY ADMINISTRATION;
AMERICAN WIND ENERGY ASSOCIATION; THE
MID-ATLANTIC RENEWABLE ENERGY
COALITION,

Amici Supporting Appellant,

PJM POWER PROVIDERS GROUP;
ELECTRIC POWER SUPPLY ASSOCIATION;
EDISON ELECTRIC INSTITUTE,

Amici Supporting Appellees.

Appeals from the United States District Court for the District of Maryland, at Baltimore. Marvin J. Garbis, Senior District Judge. (1:12-cv-01286-MJG)

Argued: May 13, 2014 Decided: June 2, 2014

Before WILKINSON, KEENAN, and DIAZ, Circuit Judges.

Affirmed by published opinion. Judge Wilkinson wrote the opinion, in which Judge Keenan and Judge Diaz joined.

ARGUED: Scott H. Strauss, SPIEGEL & MCDIARMID, LLP, Washington, D.C.; Clifton Scott Elgarten, CROWELL & MORING LLP, Washington, D.C., for Appellants. Paul D. Clement, BANCROFT, PLLC, Washington, D.C., for Appellees. **ON BRIEF:** H. Robert Erwin, Ransom E. Davis, Baltimore, Maryland; Peter J. Hopkins, Jeffrey A. Schwarz, SPIEGEL & MCDIARMID LLP, Washington, D.C., for Appellants Douglas R.M. Nazarian, Harold Williams, Lawrence Brenner, Kelly Speakes-Backman, and Kevin Hughes. Larry F. Eisenstat, Richard Lehfeldt, Jennifer N. Waters, CROWELL & MORING LLP, Washington, D.C., for Appellant CPV Maryland, LLC.

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Anne Gong, SKADDEN, ARPS, SLATE, MEAGHER & FLOM LLP, Washington, D.C., for Amicus PJM Power Providers Group. David G. Tewksbury, Stephanie S. Lim, Ashley C. Parrish, KING & SPALDING LLP, Washington, D.C., for Amicus The Electric Power Supply Association. Edward H. Comer, Vice President, General Counsel and Corporate Secretary, Henri D. Bartholomot, Associate General Counsel, Regulatory and Litigation, EDISON ELECTRIC INSTITUTE, Washington, D.C., for Amicus Edison Electric Institute.

WILKINSON, Circuit Judge:

At issue is a Maryland program to subsidize the participation of a new power plant in the federal wholesale energy market. Appellees are energy firms that compete with this new plant in interstate commerce. They contend that the Maryland scheme is preempted under the Federal Power Act's authorizing provisions, which grant exclusive authority over interstate rates to the Federal Energy Regulatory Commission. The district court agreed. For the reasons that follow, we affirm.

I.

A.

For much of the 20th century, the energy market was dominated by vertically integrated firms that produced, transmitted, and delivered power to end-use customers. *New York v. FERC*, 535 U.S. 1, 5, 122 S. Ct. 1012, 152 L. Ed. 2d 47 (2002); *PPL EnergyPlus, LLC v. Nazarian*, 974 F. Supp. 2d 790, 798 (D. Md. 2013) (opinion below). These firms were

subject to extensive local regulation, though state power in this respect was limited by the strictures of the dormant *Commerce Clause*. See *Pub. Utils. Comm'n v. Attleboro Steam & Elec. Co.*, 273 U.S. 83, 89, 47 S. Ct. 294, 71 L. Ed. 549 (1927).

The Federal Power Act (FPA), passed in 1935, was designed in part to fill the regulatory gap created by the dormant *Commerce Clause* and cover the then-nascent field of interstate electricity sales. It vests the Federal Energy Regulatory Commission (FERC) with authority over the "transmission of electric energy in interstate commerce" and the "sale of electric energy at wholesale in interstate commerce." 16 U.S.C. § 824(b)(1). Federal regulation has become increasingly prominent as the energy market has shifted away from local monopolies to a system of interstate competition. See *New York*, 535 U.S. at 7.

Rather than ensuring the reasonableness of interstate transactions by directly setting rates, FERC has chosen instead to achieve its regulatory aims indirectly by protecting "the integrity of the interstate energy markets." *N.J. Bd. of Pub. Utils. v. FERC*, 744 F.3d 74, 81 (3d Cir. 2014). To this end, FERC has authorized the creation of "regional transmission organizations" to oversee certain multistate markets. PJM Interconnection, LLC (PJM), superintended by FERC, administers a large regional market that (as relevant here) includes Maryland and the District of Columbia.

PJM operates both energy and capacity markets. The energy market is essentially a real-time market that enables PJM to buy and sell electricity to

distributors for delivery within the next hour or 24 hours.

The capacity market is a forward-looking market, which gives buyers the option to purchase electricity in the future.

In the capacity market, PJM sets a quota based on how much capacity it predicts will be needed three years hence and then relies on a Reliability Pricing Model (RPM) to determine the appropriate price per unit. Auction participants bid to sell capacity for a single year, three years in the future. PJM stacks the bids from lowest to highest and, starting at the bottom, accepts bids until it has acquired sufficient capacity to satisfy its quota.

The highest-priced bid that PJM must accept to meet this quota establishes the market-clearing price. Every generator who bids at or below this level "clears" the market and is paid the clearing price, regardless of the price at which it actually bid. Existing generators are permitted to bid at zero as "price-takers," meaning they agree to sell at whatever the clearing price turns out to be.

Both the capacity and energy markets are designed to efficiently allocate supply and demand, a function which has the collateral benefit of incentivizing the construction of new power plants when necessary. Clearing prices occasionally differ based on geographical subdivisions designed by FERC to stimulate new construction by signaling that certain regions are prone to supply shortages. Such price signals are not the sole mechanism for incentivizing generation, however. PJM's new entry price

adjustment (NEPA) guarantees certain new producers a fixed price for three years to "support . . . the new entrant until sufficient load growth [i.e., increased demand] would be expected to" do so. *PJM Interconnection, LLC*, 128 FERC ¶ 61,157, at ¶ 101 (2009).

In 2006, FERC instituted a requirement (the minimum offer price rule, or MOPR) that new generators in certain circumstances bid at or above a specified price, fixed according to the agency's estimation of a generic energy project's cost. This rule was designed to prevent the manipulation of clearing prices through the exercise of buyer market power. The MOPR originally exempted certain state-supported generators, however, and permitted them to bid at zero.

Following a complaint lodged by several competitors, FERC eliminated the exemption for state-sanctioned plants. The new rule required such plants to bid initially at the agency-specified minimum price unless they could demonstrate that their actual costs were lower than this default price. FERC held that this adjustment was necessary to protect the integrity of its markets against below-cost bids by subsidized plants that might artificially suppress clearing prices. See *PJM Interconnection, LLC*, 137 FERC ¶ 61,145, at ¶ 96 (2011).

As these features suggest, the federal markets are the product of a finely-wrought scheme that attempts to achieve a variety of different aims. FERC rules encourage the construction of new plants and sustain existing ones. They seek to preclude state distortion of wholesale prices while preserving general

state authority over generation sources. They satisfy short-term demand and ensure sufficient long-term supply. In short, the federal scheme is carefully calibrated to protect a host of competing interests. It represents a comprehensive program of regulation that is quite sensitive to external tampering.

B.

In 1999, Maryland decided to abandon the vertical integration model and throw in its lot with the federal interstate markets. Deregulation was accomplished by the Electric Customer Choice and Competition Act, Md. Code Ann., Pub. Utils. § 7-501, et seq., which divested utilities of their generation resources, effectively compelling Maryland energy firms to participate in the federal wholesale markets. *See PPL EnergyPlus, LLC*, 974 F. Supp. 2d at 815. The state believed that these markets would ultimately produce more efficient and cost-effective service than traditional monopolies, thus providing state residents the benefit of lower prices. *See In the Matter of Baltimore Gas and Electric Company's Proposal*, Order No. 81423, at 36 (Md. Pub. Serv. Comm'n, May 2007). Maryland's decision to participate in the federal scheme and enjoy its benefits was necessarily accompanied by a relinquishment of the regulatory autonomy the state had formerly enjoyed with respect to traditional utility monopolies.

Maryland soon became concerned, though, that the RPM was failing to adequately incentivize new generation. *PPL EnergyPlus, LLC*, 974 F. Supp. 2d at 795. To solve this perceived problem, the Maryland Public Service Commission (MPSC) solicited proposals for the construction of a new power plant. The plant

was to be located in the "SWMAAC zone," an area comprising part of Maryland and all of D.C., which the state believed was at heightened risk for reliability problems. In order to attract offers, the MPSC offered the successful bidder a fixed, twenty-year revenue stream secured by contracts for differences (CfDs) that the state would compel one or more of its local electric distribution companies (EDCs) to enter. Maryland's plan was ultimately formalized in the Generation Order, issued by MPSC in 2012.

Intervenor-appellant Commercial Power Ventures Maryland, LLC (CPV) submitted the winning bid and was awarded the promised CfDs. The CfDs required CPV to build a plant and sell its energy and capacity on the federal interstate wholesale markets. If CPV successfully cleared the market, it would be eligible for payments from the EDCs amounting to the difference between CPV's revenue requirements per unit of energy and capacity sold (set forth in its winning bid) and its actual sales receipts. These costs would in turn be passed on to the EDCs' retail ratepayers. If CPV's receipts exceeded its approved revenue requirements, it would be obligated to pay the difference to the EDCs. The CfDs did not require CPV to actually sell any energy or capacity to the EDCs.

Plaintiffs-appellees are existing power plants in competition with CPV who allege that the Generation Order is unconstitutional and has resulted in the suppression of PJM prices, a reduction in their revenue from the PJM market, and a distortion of the price signals that market participants rely on in determining whether to construct new capacity. After a six-day bench trial, the district court found the

Generation Order field preempted. It reasoned that the CfD payments had the effect of setting the ultimate price that CPV receives for its sales in the PJM auction, thus intruding on FERC's exclusive authority to set interstate wholesale rates. It did not reach appellees' conflict preemption claim and rejected their dormant *Commerce Clause* claim. This appeal followed.

II.

Plaintiffs argue that the Generation Order and the resulting CfDs are preempted by federal law under the Supremacy Clause. U.S. Const. art. VI, cl. 2. They ground this contention in two alternative theories: field preemption and conflict preemption. We address each in turn.¹

A.

Preemption of all varieties is ultimately a question of congressional intent. *Nw. Cent. Pipeline Corp. v. State Corp. Comm'n*, 489 U.S. 493, 509, 109 S. Ct. 1262, 103 L. Ed. 2d 509 (1989). Here, the district court found the Generation Order invalid under the doctrine of field preemption, which applies when "Congress has legislated comprehensively to occupy an entire field of regulation, leaving no room for the States to supplement federal law." *Id.* Actual conflict

¹ As a threshold matter, appellants assert that we lack jurisdiction under the filed rate doctrine. *See* Appellants' Br. at 9. This claim is meritless, however, given that a judgment in plaintiffs' favor would require this court neither "to invalidate a filed rate nor to assume a rate would be charged other than the rate adopted by the federal agency in question." *Pub. Util. Dist. No. 1 v. IDACORP Inc.*, 379 F.3d 641, 650 (9th Cir. 2004) (internal quotation marks omitted).

between a challenged state enactment and relevant federal law is unnecessary to a finding of field preemption; instead, it is the mere fact of intrusion that offends the Supremacy Clause. *See N. Natural Gas Co. v. State Corp. Comm'n*, 372 U.S. 84, 97-98, 83 S. Ct. 646, 9 L. Ed. 2d 601 (1963). "If Congress evidences an intent to occupy a given field, any state law falling within that field is pre-empted." *Silkwood v. Kerr-McGee Corp.*, 464 U.S. 238, 248, 104 S. Ct. 615, 78 L. Ed. 2d 443 (1984).

Statutory text and structure provide the most reliable guideposts in this inquiry. *See Medtronic, Inc. v. Lohr*, 518 U.S. 470, 486, 116 S. Ct. 2240, 135 L. Ed. 2d 700 (1996) ("Congress' intent, of course, primarily is discerned from the language of the pre-emption statute and the statutory framework surrounding it.") (internal quotation marks omitted). The FPA's "declaration of policy" states:

It is declared that the business of transmitting and selling electric energy for ultimate distribution to the public is affected with a public interest, and that Federal regulation of matters relating to generation to the extent provided in this subchapter and subchapter III of this chapter and of that part of such business which consists of the transmission of electric energy in interstate commerce and the sale of such energy at wholesale in interstate commerce is necessary in the public interest, such Federal regulation, however, to extend only to those matters which are not subject to regulation by the States.

16 U.S.C. § 824(a); *see also id.* at § 824(b).

The breadth of this grant of authority is confirmed by the FPA's similarly capacious substantive and remedial provisions. For example, 16 U.S.C. § 824d(a) states that:

All rates and charges made, demanded, or received by any public utility for or in connection with the transmission or sale of electric energy subject to the jurisdiction of the Commission, and all rules and regulations affecting or pertaining to such rates or charges shall be just and reasonable, and any such rate or charge that is not just and reasonable is hereby declared to be unlawful.

A wealth of case law confirms FERC's exclusive power to regulate wholesale sales of energy in interstate commerce, including the justness and reasonableness of the rates charged. "The [FPA] long has been recognized as a comprehensive scheme of federal regulation of all wholesales of [energy] in interstate commerce," *Schneidewind v. ANR Pipeline Co.*, 485 U.S. 293, 300, 108 S. Ct. 1145, 99 L. Ed. 2d 316 (1988) (internal quotation marks omitted), and "FERC's jurisdiction over interstate wholesale rates is exclusive," *Appalachian Power Co. v. Pub. Serv. Comm'n*, 812 F.2d 898, 902 (4th Cir. 1987); *see also* *New England Power Co. v. New Hampshire*, 455 U.S. 331, 340, 102 S. Ct. 1096, 71 L. Ed. 2d 188 (1982).² In

² *Schneidewind* dealt with the Natural Gas Act rather than the FPA. However, because "the relevant provisions of the two statutes are in all material respects substantially identical," the Supreme Court has adopted an "established practice of citing interchangeably decisions interpreting the pertinent sections of the two statutes." *Ark. La. Gas Co. v. Hall*, 453 U.S. 571, 578 n.7,

this area, "if FERC has jurisdiction over a subject, the States cannot have jurisdiction over the same subject." *Miss. Power & Light Co. v. Mississippi ex rel. Moore*, 487 U.S. 354, 377, 108 S. Ct. 2428, 101 L. Ed. 2d 322 (1988) (Scalia, J., concurring in the judgment).

Indeed, the Supreme Court has expressly rejected the proposition that the "scope of [FERC's] jurisdiction . . . is to be determined by a case-by-case analysis of the impact of state regulation upon the national interest." *Nantahala Power & Light Co. v. Thornburg*, 476 U.S. 953, 966, 106 S. Ct. 2349, 90 L. Ed. 2d 943 (1986) (quoting *FPC v. S. Cal. Edison Co.*, 376 U.S. 205, 215, 84 S. Ct. 644, 11 L. Ed. 2d 638 (1964)) (internal quotation marks omitted). Instead, "Congress meant to draw a bright line easily ascertained, between state and federal jurisdiction This was done in the [FPA] by making [FERC] jurisdiction plenary and extending it to all wholesale sales in interstate commerce except those which Congress has made explicitly subject to regulation by the States." *Id.* (quoting *S. Cal. Edison Co.*, 376 U.S. at 215-16) (internal quotation marks omitted).

The federal scheme thus "leaves no room either for direct state regulation of the prices of interstate wholesales of [energy], or for state regulations which would indirectly achieve the same result." *N. Natural Gas Co.*, 372 U.S. at 91 (citation omitted). "Even where state regulation operates within its own field, it may not intrude indirectly on areas of exclusive federal authority." *Pub. Utils. Comm'n v. FERC*, 900 F.2d 269, 274 n.2, 283 U.S. App. D.C. 285 (D.C. Cir. 1990)

101 S. Ct. 2925, 69 L. Ed. 2d 856 (1981) (internal quotation marks omitted).

(internal quotation marks omitted). As a result, states are barred from relying on mere formal distinctions in "an attempt" to evade preemption and "regulate matters within FERC's exclusive jurisdiction." *Schneidewind*, 485 U.S. at 308.

B.

Applying these principles, we conclude that the Generation Order is field preempted because it functionally sets the rate that CPV receives for its sales in the PJM auction.

The CfD payments, which are conditioned on CPV clearing the federal market, plainly qualify as compensation for interstate sales at wholesale, not simply for CPV's construction of a plant. Furthermore, the Order ensures -- through a system of rebates and subsidies calculated on the basis of the PJM market rate -- that CPV receives a fixed sum for every unit of capacity and energy that it clears (up to a certain ceiling). The scheme thus effectively supplants the rate generated by the auction with an alternative rate preferred by the state. *See Appalachian Power Co.*, 812 F.2d at 904 (holding that the agreement at issue did not "set a rate per se," but that it nevertheless "sufficiently resemble[d] a filed rate to come within the realm of exclusive federal jurisdiction"). The Order thus compromises the integrity of the federal scheme and intrudes on FERC's jurisdiction.

Maryland and CPV argue that the Generation Order does not actually set a rate because it does not directly affect the terms of any transaction in the federal market. Relevantly, appellants contend, the Order does not fix the rate that PJM pays to CPV for

its sales in the auction; instead, it merely fixes the rate that CPV receives for such sales. On the basis of this asymmetry, appellants contend that the CfD payments represent a separate supply-side subsidy implemented entirely outside the federal market.

We cannot accept this argument. The case of *Mississippi Power & Light Co. v. Mississippi ex rel. Moore*, 487 U.S. 354, 108 S. Ct. 2428, 101 L. Ed. 2d 322 (1988), is illustrative. There, FERC ordered a utility to purchase a specified percentage of a particular generator's output. *Id.* at 363. The utility petitioned Mississippi to approve an increase in its retail rates to cover the costs imposed by the order, but the state insisted that it retained the authority to determine whether the purchases were prudent before acceding to the request. *Id.* at 365-67. The Supreme Court rejected this argument, ruling that the state was required to treat the utility's FERC-mandated payments as "reasonably incurred operating expenses for the purpose of setting" the utility's retail rates. *Id.* at 370; see also *Nantahala Power & Light Co.*, 476 U.S. 953, 106 S. Ct. 2349, 90 L. Ed. 2d 943 (rejecting a similar state effort to bar a utility from passing FERC-mandated wholesale rates through to consumers). Mississippi's prudence review was preempted because it denied full effect to the rates set by FERC, even though it did not seek to tamper with the actual terms of an interstate transaction.

As the district court recognized, see *PPL EnergyPlus, LLC*, 974 F. Supp. 2d at 831, the principles articulated in *Mississippi Power & Light Co.* apply with equal force to this dispute. If states are required to give full effect to FERC-mandated

wholesale rates on the demand side of the equation, it stands to reason that they are also required to do so on the supply side. Here, the contract price guaranteed by the Generation Order supersedes the PJM rates that CPV would otherwise earn -- rates established through a FERC-approved market mechanism. The Order ensures that CPV receives a fixed price for every unit of energy and capacity it sells in the PJM auction, regardless of the market price. The fact that it does not formally upset the terms of a federal transaction is no defense, since the functional results are precisely the same. As in the above-mentioned cases, Maryland has "eroded the effect of the FERC determination and undermined FERC's exclusive jurisdiction." *Appalachian Power Co.*, 812 F.2d at 904.

Our conclusion that the Generation Order "seeks to regulate a field that the [FPA] has occupied also is supported by the imminent possibility of collision between" the state and federal regimes. *Schneidewind*, 485 U.S. at 310. While the potential for collision between the two schemes is discussed in detail in Part D, a high probability of conflict tends to suggest that Congress intended federal authority in a particular field to be uniform and exclusive. *See id.* Even if "collision between the state and federal regulation" in this case is not "an inevitable consequence," it is sufficiently likely to warrant invalidating the Maryland program "in order to assure the effectuation of the comprehensive federal regulation ordained by Congress." *N. Natural Gas Co.*, 372 U.S. at 92.

C.

Appellants argue that this court should apply a robust version of the presumption against preemption to save the Maryland scheme. *See, e.g.*, Intervenor-Appellant's Br. at 14. As its name suggests, this presumption militates against findings of federal preemption, especially in areas of traditional state authority. *See Rice v. Santa Fe Elevator Corp.*, 331 U.S. 218, 230, 67 S. Ct. 1146, 91 L. Ed. 1447 (1947). However, the presumption "is not triggered when the State regulates in an area where there has been a history of significant federal presence." *United States v. Locke*, 529 U.S. 89, 108, 120 S. Ct. 1135, 146 L. Ed. 2d 69 (2000). The presumption "is almost certainly not applicable here because the federal government has long regulated wholesale electricity rates." *IDACORP Inc.*, 379 F.3d at 648 n.7. Nevertheless, even were we to apply the presumption, we would find it overcome by the text and structure of the FPA, which unambiguously apportions control over wholesale rates to FERC.

Appellants emphasize the FPA's decree that FERC "shall not have jurisdiction, except as specifically provided in this subchapter and subchapter III of this chapter, over facilities used for the generation of electric energy." 16 U.S.C. § 824(b)(1). They contend that the Generation Order falls on the state side of the jurisdictional line, since it is designed to ensure that Maryland enjoys an adequate supply of generation capacity.

Although states plainly retain substantial latitude in directly regulating generation facilities, they may not exercise this authority in a way that impinges on FERC's exclusive power to specify

wholesale rates. As the Supreme Court noted in a similar context:

[T]he problem of this case is not as to the existence or even the scope of a State's power to [regulate generation facilities]; the problem is only whether the Constitution sanctions the particular means chosen by [the state] to exercise the conceded power if those means threaten effectuation of the federal regulatory scheme.

N. Natural Gas Co., 372 U.S. at 93. Here, Maryland has chosen to incentivize generation by setting interstate wholesale rates. This particular choice of means is impermissible. Wholesale energy prices "fixed by FERC must be given binding effect by state authorities" even "in areas subject to state jurisdiction." *California ex rel. Lockyer v. Dynegy, Inc.*, 375 F.3d 831, 851 (9th Cir. 2004) (internal quotation marks omitted).

Nonetheless, it is important to note the limited scope of our holding, which is addressed to the specific program at issue. We need not express an opinion on other state efforts to encourage new generation, such as direct subsidies or tax rebates, that may or may not differ in important ways from the Maryland initiative. It goes without saying that not "every state statute that has some indirect effect" on wholesale rates is preempted, *Schneidewind*, 485 U.S. at 308, for "there can be little if any regulation of production that might not have at least an incremental effect on the costs of purchasers in some market," *Nw. Cent. Pipeline Corp.*, 489 U.S. at 514. In this case, however, the effect of the

Generation Order on matters within FERC's exclusive jurisdiction is neither indirect nor incidental.

Rather, the Order strikes at the heart of the agency's statutory power to establish rates for the sale of electric energy in interstate commerce, *see* 16 U.S.C. § 824e(a), by adopting terms and prices set by Maryland, not those sanctioned by FERC.

D.

Appellants' position is further complicated by the fact that the principles of field and conflict preemption in this case are mutually reinforcing. As relevant here, conflict preemption applies "where under the circumstances of a particular case, the challenged state law stands as an obstacle to the accomplishment and execution of the full purposes and objectives of Congress." *Crosby v. Nat'l Foreign Trade Council*, 530 U.S. 363, 373, 120 S. Ct. 2288, 147 L. Ed. 2d 352 (2000) (internal quotation marks and alterations omitted). "What is a sufficient obstacle is a matter of judgment, to be informed by examining the federal statute as a whole and identifying its purpose and intended effects." *Id.* "A state law may pose an obstacle to federal purposes by interfering with the accomplishment of Congress's actual objectives, or by interfering with the methods that Congress selected for meeting those legislative goals." *College Loan Corp. v. SLM Corp.*, 396 F.3d 588, 596 (4th Cir. 2005). (emphasis omitted).

In a system of "interlocking" jurisdiction, such as that created by the FPA, "[i]t is inevitable that jurisdictional tensions will arise" -- even if each sovereign formally remains within the confines of its

"assigned sphere." *Nw. Cent. Pipeline Corp.*, 489 U.S. at 506, 515 & n.12 (internal quotation marks and alteration omitted). "Thus, conflict-pre-emption analysis must be applied sensitively in this area, so as to prevent the diminution of the role Congress reserved to the States while at the same time preserving the federal role." *Id.* at 515. Here, "the impact of state regulation of production on matters within federal control is so extensive and disruptive of" the PJM markets that preemption is appropriate. *Id.* at 517-18.

As an initial matter, the Generation Order has the potential to seriously distort the PJM auction's price signals, thus "interfer[ing] with the method by which the federal statute was designed to reach its goals." *IDACORP Inc.*, 379 F.3d at 650. PJM's price signals are intended to promote a variety of objectives, including incentivizing new generation sources. See *PJM Interconnection, LLC*, 132 FERC ¶ 61,173, at 61,870 (2010); see also *PPL EnergyPlus, LLC*, 974 F. Supp. 2d at 813. Market participants necessarily rely on these signals in determining whether to construct new capacity or expand existing resources. The signals appear to be serving their purpose; according to FERC, the evidence "suggests that RPM has in fact succeeded in securing sufficient capacity to meet reliability requirements for the PJM region." *PJM Interconnection, LLC*, 137 FERC ¶ 61,145, at ¶ 3 (2011).

Maryland's initiative disrupts this scheme by substituting the state's preferred incentive structure for that approved by FERC. See *PPL EnergyPlus, LLC v. Hanna*, No. 11-745, 977 F. Supp. 2d 372, 2013 U.S. Dist. LEXIS 147273, 2013 WL 5603896, at *36 (D.N.J.

Oct. 11, 2013) (describing the distorting impact of a similar New Jersey program on the business decisions of private participants in the PJM auction). Two features of the Order render its likely effect on federal markets particularly problematic. First, as noted, the CfDs are structured to actually set the price received at wholesale. They therefore directly conflict with the auction rates approved by FERC. Second, the duration of the subsidy -- twenty years -- is substantial.

The Order is preempted for the further reason that it conflicts with NEPA, which represents an exception to PJM's otherwise steadfast commitment to a uniform market clearing price. In order to stimulate plant construction, NEPA carves out a three-year period during which certain new generators are eligible to receive a fixed price for the capacity they sell in the PJM markets. *See PJM Interconnection, LLC*, 128 FERC ¶ 61,157, at ¶ 92 (2009). CPV petitioned FERC to extend the NEPA period to ten years on the grounds that the three-year period was insufficient to achieve its objective. *Id.* at ¶ 93. FERC rejected CPV's request, stating that "[b]oth new entry and retention of existing efficient capacity are necessary to ensure reliability and both should receive the same price so that the price signals are not skewed in favor of new entry." *Id.* at ¶ 102.

The Generation Order represents an effort by the state to directly override this explicit policy choice. As a functional matter, the CfDs extend the NEPA period for CPV to twenty years, a duration vastly exceeding the current NEPA term and double the term that CPV unsuccessfully requested FERC to institute. Maryland has sought to achieve through the backdoor

of its own regulatory process what it could not achieve through the front door of FERC proceedings. Circumventing and displacing federal rules in this fashion is not permissible.

Appellants assert that no conflict is present because FERC explicitly accommodated -- via the MOPR -- the participation of subsidized plants in its auction. *See, e.g.*, Intervenor-Appellant's Reply Br. at 23. The fact that FERC was forced to mitigate the Generation Order's distorting effects using the MOPR, however, tends to confirm rather than refute the existence of a conflict. Furthermore, FERC's own comments on the subject belie appellants' claim that the agency has affirmatively approved the Generation Order. *See PJM Interconnection, LLC*, 137 FERC at ¶ 3 ("Our intent is not to pass judgment on state and local policies and objectives with regard to the development of new capacity resources . . .").

As was the case with our field preemption holding, our conflict preemption ruling is narrow and focused upon the program before us. Obviously, not every state regulation that incidentally affects federal markets is preempted. Such an outcome "would thoroughly undermine precisely the division of the regulatory field that Congress went to so much trouble to establish . . . , and would render Congress' specific grant of power to the States to regulate production virtually meaningless." *Nw. Cent. Pipeline Corp.*, 489 U.S. at 515. The Generation Order, however, is simply a bridge too far. It presents a direct and transparent

impediment to the functioning of the PJM markets, and is therefore preempted.³

III.

For the foregoing reasons, we hold the Generation Order preempted under federal law and affirm the judgment of the district court.

AFFIRMED

³ Our conclusion that the Generation Order is preempted renders it unnecessary for us to reach plaintiffs' dormant **Commerce Clause** arguments, which were rejected by the district court. *See Schneidewind*, 485 U.S. at 311 ("Because we have concluded that Act 144 is pre-empted by the NGA, we need not decide whether, absent federal occupation of the field, Act 144 violates the **Commerce Clause**.").

APPENDIX B

ORDER NO. 84815

IN THE MATTER OF	BEFORE THE
WHETHER NEW	PUBLIC SERVICE
GENERATING	COMMISSION
FACILITIES ARE	OF MARYLAND
NEEDED TO MEET	
LONG- TERM	CASE NO. 9214
DEMAND FOR	
STANDARD OFFER	
SERVICE	

Issue Date: April 12, 2012

Among our most important responsibilities as regulators is to ensure that electricity is available to all Maryland ratepayers, whenever and wherever they need it. Electric service is no longer a luxury reserved for the wealthy few -- it is the life blood of modern society. Our primary statutory mandate is to assure "safe, *adequate*, reasonable and proper service for any class of public service company. . . ,"¹ including Maryland's electric companies. Put another way, the public expects *us* to keep the lights on (and water treatment plants, and heat pumps, and air conditioners, and medical equipment, and everything else on which we depend) in Maryland. The General Assembly has given us tools to fulfill that obligation, and in doing so has expressed the distinct

¹ *Maryland Code Annotated*, Public Utilities Article ("PUA"), § 5-101(a) (emphasis added).

expectation that we will use those tools when appropriate rather than relying blindly on the operation of market forces.

Our concern about the adequacy of electric generation in Maryland began with the Public Service Commission's ("Commission") Summer 2007 Electricity Planning Conference,² and while it has been postponed by subsequent exogenous events, it has not disappeared. Consequently, for the reasons set forth below, in this Order we direct Baltimore Gas and Electric Company ("BGE"), Potomac Electric Power Company ("Pepco"), and Delmarva Power & Light Company ("Delmarva") to enter into a Contract for Differences with CPV Maryland, LLC ("CPV"), under which CPV will construct a 661 megawatt (MW) natural gas-fired combined-cycle generation plant in Waldorf in Charles County, Maryland, with a commercial operation date of June 1, 2015.

Procedural Background

We initiated this case on September 29, 2009, by Order No. 82936, "to investigate whether [the Commission] should exercise its authority to order electric utilities to enter into long-term contracts to anchor new generation or to construct, acquire, or lease, and operate, new electric generating facilities in Maryland."³ We initially directed parties interested in making proposals for new generating

² *In the Matter of the Commission's Maryland Electricity Planning Conference*, Public Conference No. PC 9.

³ *In the Matter of Whether New Generating Facilities are Needed to Meet Long-Term Demand for Standard Offer Service*, Case No. 9214, Order No. 82936, pp. 2-3.

facilities to file such proposals by December 1, 2009, but we subsequently tolled the filing date.⁴ After reviewing comments filed in the case, on December 29, 2010, the Commission prepared a draft Request for Proposals for New Generation ("RFP") and invited comments on the draft.⁵

Nearly thirty parties filed comments addressing the draft RFP. As a result of those comments, the Commission made changes in the RFP and on September 29, 2011 directed BGE, Pepco, Delmarva, and The Potomac Edison Company ("PE") to issue the modified RFP.⁶ In the Notice to Issue the RFP, the Commission noted that it would hold a hearing on January 31, 2012 on the need for new generation and, if required, the amount needed, and invited any written comments to be filed by January 13, 2012. As a result of some of the early comments and questions concerning the RFP and its schedule for bids, the Commission issued an Amended RFP on December 8, 2011, which extended the due dates for bids to January 20, 2012, and encouraged each bidder to submit two proposals, one for a fixed gas price offering and another for a variable gas price offering. Twenty parties availed themselves of the opportunity to file comments

⁴ *Id.*, Notice of Tolling Submission Date of Proposals, Nov. 10, 2009.

⁵ *Id.*, Notice of Comment Period on Request for Proposals for New Generating Facilities, Dec. 29, 2010.

⁶ *Id.* Notice of Approval of Request for Proposals for New Generation to be Issued by Maryland Electric Distribution Companies, Sep. 29, 2010. The comments received and the changes to the draft RFP are summarized in the Notice and will not be repeated here.

concerning the need for new generation.⁷ Fourteen of those parties testified at the January 31, 2012 hearing and answered the Commission's questions.⁸

Finally, several parties have filed Motions in the case. On October 21, 2011, Northland Power Inc. and Eastalco Aluminum Company each filed a Request to Modify the RFP. On October 31, 2011, Pepco and Delmarva filed an Application for Rehearing. On January 25, 2012, NRG Energy, Inc. filed a Motion to Postpone Procurement of New Generation. Each of these Motions will be addressed in this Order.

⁷ Written comments were filed by: GE Energy; PJM Power Providers Group (P3); BGE; Genon Mid-Atlantic, LLC; Exelon Corporation; Calpine Corporation; Office of People's Counsel ("OPC"); CPV Maryland, LLC ("CPV"); Commission's technical staff ("Staff"); PJM Interconnection, LLC ("PJM"); PSEG Energy Resources & Trade LLC ("PSEG"); Pepco & Delmarva (Joint Comments); PE; The Electric Power Supply Association ("EPSA"); Retail Energy Supply Association ("RESA"); Sierra Club & Chesapeake Climate Action Network (Joint Comments); Maryland Energy Administration ("MEA"); PPL Energy Plus, LLC ("PPL"); and the Independent Market Monitor for PJM ("IMM"). In response to a Commission request, PJM filed Supplemental Comments on Jan. 31, 2012. CPV filed additional comments following the hearing, on February 6, 2012. In addition, Boston Pacific filed its Evaluation Report dated August 12, 2011 and the Governor filed a letter concerning the RFP on Oct. 20, 2011. Finally, on March 29, 2012 the four Maryland Electric Distribution Companies ("EDCs") -- BGE, Pepco, Delmarva, and PE -- filed a letter expressing technical concerns with the Contract for Differences.

⁸ The following parties testified at the hearing: Boston Pacific; PJM; the IMM; MEA; OPC; Staff; Sierra Club & Chesapeake Climate Action Network; Pepco & Delmarva; CPV; NRG Energy, Inc.; EPSA; PPL; P3; and GE Energy.

The RFP

In the Amended RFP, dated December 2, 2011, the EDCs seek bids for new, natural gas-fired Generation Capacity Resources (as defined by PJM) to be located inside the Southwest MAAC Locational Deliverability Area.⁹ The RFP seeks proposals in any quantity not to exceed 1,500 MW on an installed capacity basis, to be operational no earlier than June 1, 2015 and no later than June 1, 2017.¹⁰ The RFP requires the Supplier to offer and deliver the generation output into the PJM capacity, energy and ancillary services markets, and the EDCs do not take physical delivery of the generation.¹¹ The Supplier must bid the capacity into the PJM Base Residual Auction ("BRA") "in accordance with BRA rules and regulations as they exist throughout the term of the Contract. The Supplier will not be paid for any year in which the Supplier's Generation Capacity Resource does not clear the BRA."¹² Thus, the risk of not clearing in the BRA is left on the Supplier, not ratepayers. Anyone is eligible to bid, provided they meet the PJM membership requirements and are willing to meet the RFP contractual requirements.¹³

The RFP specifies that the Supplier and the EDC will enter into a financial arrangement under a Contract for Differences.¹⁴ Under the Contract for Differences, the difference between the Supplier's

⁹ RFP, § 2.1.

¹⁰ *Id.*, §§ 2.2, 2.3.

¹¹ *Id.*, § 3.

¹² *Id.*, § 3.1(b).

¹³ *Id.*, § 5.1.

¹⁴ *Id.*, § 3.

actual revenue from the PJM capacity and energy sales and the fixed contract price for capacity results in a payment or credit.¹⁵ If the actual revenues are below the fixed contract capacity price, the EDC is obligated to pay the supplier the difference. If, however, the actual revenue from the PJM market exceeds the fixed contract capacity price, the Supplier pays the EDC the excess. Settlement between the Supplier and the EDC is to take place monthly.¹⁶

Positions of the Parties

PJM

In its written comments, PJM "does not take a position of whether the Commission should determine there is a reliability need to pursue the construction of new generation in Maryland."¹⁷ PJM notes that in its load forecast, economic activity as measured by gross metropolitan product (GMP) is the primary driver for peak load growth and growth in total energy consumption, and that in its 2012 forecast, projected GMP growth remains below the 2011 forecast GMP growth through 2016.¹⁸ The Economic Index Variable used by PJM shows even slower growth rates.¹⁹ PJM also notes that peak load growth in the BGE, Pepco, Delmarva, and PE zones is below the PJM average growth rate of 1.4% per year.²⁰ PJM does note that coal-fired generation

¹⁵ *Id.*, § 3.2.

¹⁶ *Id.*, § 3.2.

¹⁷ *Comments of PJM Interconnection, LLC*, pp. 1-2.

¹⁸ *Id.*, p. 4.

¹⁹ *Id.*

²⁰ *Id.*, p.8.

more than 40 years old and less than 400 MW is considered at "high risk" for retirement, of which there are 2,320 MW in Maryland.²¹ PJM adds that due to such retirements, "there may be localized reliability concerns that will need to be addressed."²² In its Supplemental Comments requested by the Commission to look at the effects of possible retirement of coal generation at the C. P. Crane and H. A. Wagner plants, PJM found that retirement of either or both would result in potential reliability violations.²³ PJM also found that such retirements would "increase existing constraints but not cause new constraints. . . . In their absence the lowest cost replacements are generally west of constrained interfaces into the APS system which increases both the incremental cost of energy and congestion for large portions of PJM load. "²⁴

In his testimony at the hearing, PJM Senior Vice President of Operations and Long-Term Planning Michael Kormos stated that prior to 2008, due to a very strong economy and very strong load growth, they were seeing problems from inadequate capacity beginning in 2012 to 2015. However, due to the downturn in the economy and very slow recovery, they now see a possible need for new generation in 2020, and no earlier than 2017 in their worst case scenario.²⁵ Mr. Kormos also noted that the biggest constraint in Maryland comes from bringing in energy from the west across the Allegheny

²¹ *Id.*, pp.11-12.

²² *Id.*, p. 13.

²³ *Supplemental Comments of PJM Interconnection, LLC.*, p. 4.

²⁴ *Id.*, p. 5.

²⁵ Transcript, pp. 48-50.

Mountains,²⁶ and that coal plant retirements could cause "significant congestion increases."²⁷ He stated that PJM believes such coal retirement problems can be addressed by transmission upgrades.²⁸

The IMM

The IMM does not support going forward with the RFP, at least in its present form. Dr. Bowring takes the position that "[i]f you're going to rely on markets, you have to be fully committed to markets,"²⁹ and he disagrees with the premise that PJM's Reliability Pricing Model ("RPM") fails to adequately incent new generation.³⁰ He testified that the Commission's RFP "will have long lasting, negative consequences for PJM markets" because it will suppress prices.³¹ He believes that the RFP will result in a situation where only "subsidized" units would be built under such long-term contracts.³² He does state that with significant changes to the RFP to include participation by existing suppliers and any fuel type, the RFP would be "consistent with the competitive wholesale market design."³³

MEA

The Maryland Energy Administration supports going forward with the RFP. It notes that

²⁶ *Id.*, p. 63.

²⁷ *Id.*, p. 57.

²⁸ *Id.*, p. 56.

²⁹ *Id.*, p. 67.

³⁰ *Id.*, p. 66.

³¹ *Id.*, p. 67.

³² *Comments of the Independent Market Monitor for PJM*, p.2.

³³ *Id.*, pp. 2-4.

"while current generation resources meet today's reliability needs," studies looking into the future reveal there is a need for new generation in Maryland.³⁴ MEA cites the finding in the *Long Term Electricity Report for Maryland* ("LTER") that shows electricity usage increasing by 18% by 2030, and in the High Demand scenario by over 30%.³⁵ MEA notes that 90% of Maryland's generation is coal or nuclear, and much of it is very old, reflecting a lack of fuel diversity.³⁶ MEA also notes that Maryland has not had any major new generation come on-line since 2003, and that RPM has not led to the construction of any significant power plants in Maryland since its inception in 2007, despite high prices for capacity.³⁷ MEA's witness, Mr. Lucas, testified at the hearing that 30% of Maryland's electricity is imported and that figure is projected to grow.³⁸ He said that the LTER ran a combined events scenario in which coal retirements, transmission delays, and reductions in demand response resulted in Maryland requiring new generation by 2015.³⁹ He also commented on the substantial variability in the year-to-year forecasts of the utilities, sometimes "swinging by more megawatts than a large gas plant."⁴⁰

OPC

³⁴ *Comments of the Maryland Energy Administration*, p. 1.

³⁵ *Id.*, p. 2.

³⁶ *Id.*, p. 2.

³⁷ *Id.*, p. 3.

³⁸ Transcript, p. 80.

³⁹ *Id.*, p. 83.

⁴⁰ *Id.*, p. 84.

OPC supports going forward with the RFP. While noting that there is presently significant excess reserve capacity beyond the 15.5% minimum planning reserve requirements in PJM, OPC states that "[T]here is reason to believe that a combination of new environmental regulations, low gas prices, and the inability of developers to arrange financing for new generation development in the current market could result in a deficiency of generation resources for Maryland consumers as early as 2015 or 2016."⁴¹ OPC points specifically to the Mercury and Air Toxic Standards ("MATS") issued by the Environmental Protection Agency ("EPA") on December 16, 2011, and the Cross-State Air Pollution Rule ("CSAPR") issued on July 6, 2011, as likely to lead to the retirement of between 11,000 MW to 25,000 MW of coal-fired capacity in PJM.⁴² This is exacerbated by low gas prices, which lead to coal plants being dispatched for fewer hours and receiving less revenue when they are dispatched, which in turn leads to more retirements.⁴³ OPC also notes that the LTER simulation of early retirement of 14,000 MW of at-risk coal capacity advances the Maryland need date to 2016, and early retirement of 25,000 MW of at-risk coal advances the Maryland need date to 2015.⁴⁴ In the latter instance, the LTER model would add 2,100 MW of new capacity in the Southwestern Mid-Atlantic Area Council ("SWMAAC") between 2015 and 2018.⁴⁵ OPC does not believe that the Contract for Differences

⁴¹ *Comments of the Office of People's Counsel*, p. 8.

⁴² *Id.*, pp. 9, 11.

⁴³ *Id.*, p. 14.

⁴⁴ *Id.*, pp. 18-19, Transcript, P. 87.

⁴⁵ *Id.*, p. 19.

stemming from the RFP would undermine the capacity market or have a widespread negative effect.⁴⁶

Staff

Although Staff makes no explicit recommendation, it does note that the utilities forecast for projected peak demand would require some new generation in 2016.⁴⁷ Staff also states that the "more conservative scenarios" incorporated in the LTER indicate a need for new generation in both PJM and Maryland by 2015.⁴⁸ Staff points out that the PJM peak load forecast is lower than the utilities' forecast for 2015 by more than 7%.⁴⁹ Staff performed an analysis of the bill impacts to residential customers for 600 MW of a combined cycle project and found, if it cleared every auction and received RPM capacity payments every year, the monthly bill impact would range from a credit of \$ 0.23 to a cost of \$ 0.36 for the high market value and low market value case respectively.⁵⁰ Staff also cautions that demand response in Maryland is very high, and that Commercial and Industrial demand response may be in a state of maturity and any additional demand response will have to come from the residential sector.⁵¹ Staff recommends that if the Commission does decide to proceed with the RFP, it

⁴⁶ Transcript, p. 89.

⁴⁷ *Comments of the Staff or the Public Service Commission of Maryland*, p. 17.

⁴⁸ *Id.*, p. 18.

⁴⁹ *Id.*, p. 4, Table A.2.

⁵⁰ *Id.*, p. 23.

⁵¹ *Id.*, p. 13.

should do so in increments rather than by ordering all 1,500 MW now.⁵²

The Maryland Utilities

BGE comments that there is an excess of generation capacity throughout PJM already, that new transmission projects have been identified to meet Maryland's needs, that PJM's peak load forecasts are decreasing, that demand response continues to grow, and that customers would be "burdened" with additional costs for unneeded and uneconomic generation by proceeding with the RFP. According to BGE, the RFP is "unnecessary."⁵³ Potomac Edison states there is no need for new long-term generation, because for the foreseeable future adequate resources are available to meet electric supply demand in Maryland.⁵⁴ PE cites the LTER that, "For most scenarios, no new generation capacity is needed in PJM to meet reliability requirements until about 2018."⁵⁵ PE notes that it receives ample bids of supply in the Standard Offer Service ("SOS") auctions and that retail choice remains strong in Maryland.⁵⁶ PE argues that supply is increasing due to addition of renewable generation while demand is moderating, indicating no need to proceed with the RFP.⁵⁷ In their joint comments, Pepco and Delmarva vigorously oppose going forward with the RFP at this juncture. They

⁵² Transcript, p. 93.

⁵³ *Comments of Baltimore Gas and Electric Company*, p. 1.

⁵⁴ *Comments of Potomac Edison*, p. 1.

⁵⁵ *Id.*, p. 2.

⁵⁶ *Id.*, p. 3.

⁵⁷ *Id.*, p. 4.

urge the Commission to pause and hold evidentiary hearings which include pre-filed sworn testimony, discovery, and cross-examination.⁵⁸ They note that PJM's peak load forecast for SWMAAC has declined virtually every year since 2007, and that from a load perspective, there is less of a need for new generation than there was in 2009.⁵⁹ They argue that the current SOS procurement process has produced adequate supplies,⁶⁰ that PJM projects adequate transmission for the Pepco and Delmarva zones through at least 2019,⁶¹ that demand response resources have reduced the need for new generation,⁶² and they also point to the LTER as evidence that no new generation is needed until at least 2020.⁶³ The PHI companies vigorously advocate that distribution companies such as themselves should be allowed to bid and build the new generation if the RFP proceeds.⁶⁴ Finally, they ask the Commission to include an appropriate cost recovery mechanism for them to recover any payments made under the Contract for Differences if the RFP proceeds.⁶⁵

The Suppliers

CPV and GE Energy both advocate that the RFP should proceed. CPV includes an extensive

⁵⁸ *Comments of Potomac Electric Power Company and Delmarva Power & Light Company*, pp. 8, 35-36.

⁵⁹ *Id.*, pp. 13-14.

⁶⁰ *Id.*, pp. 14-17.

⁶¹ *Id.*, pp. 17-21.

⁶² *Id.*, pp. 21-22.

⁶³ *Id.*, p. 21.

⁶⁴ *Id.*, pp. 26-28.

⁶⁵ *Id.*, pp. 30-35.

discussion of the PJM data and the LTER analysis that concludes that there will be a need for 675 MW of new generation in SWMAAC by 2015.⁶⁶ The report reaches this conclusion by finding that four "adjustments" need to be made to the assumptions underlying the LTER: first, that the effect of the Mt. Storm -- Doubs transmission upgrade is overstated;⁶⁷ that it overstates the amount of available demand response capacity;⁶⁸ that it overestimates demand response because it does not account for non-performance and fatigue;⁶⁹ and that the LTER fails to account for the effect of recent environmental regulations in estimating retirements of coal facilities.⁷⁰ Mr. Egan of CPV testified at the hearing that SWMAAC is relying on demand response and energy efficiency for 2,400 MW, or slightly more than 20% of its total capacity needs in 2014/2015.⁷¹ CPV also notes it requires a total of 5 to 6 years for planning and construction of new generation, and that the building phase alone requires 2 1/2 to 3 years.⁷² GE Energy points out that the reserve margin in SWMAAC has been negative for several years, rather than the 15% usually deemed necessary, and that it is projected to exceed -20% during 2012.⁷³ GE also notes that 90% of the total energy supplied in SWMAAC since 2008 is from coal and nuclear resources, which require a long time to

⁶⁶ *Comments of CPV Maryland, LLC*, Exhibit A, Transcript, P. 151.

⁶⁷ *Id.*, p. 8.

⁶⁸ *Id.*, pp. 9-10.

⁶⁹ *Id.*, pp. 10-13.

⁷⁰ *Id.*, pp. 13-16.

⁷¹ Transcript, p. 156.

⁷² *Id.*, p. 155.

⁷³ *Comments of GE Energy*, p. 1.

start-up.⁷⁴ Particularly as additional renewable resources are added to the generation mix by 2022, there will be a need for greater flexibility in generation resources, a requirement satisfied by natural gas combined cycle generation.⁷⁵

Other suppliers are equally adamant that the Commission should not proceed with the RFP. Exelon Corporation states that new generation is not needed citing the LTER and notes it projects the utilities will reduce demand by almost 3000 MW by 2015.⁷⁶ Calpine Corporation likewise asserts new generation is not needed, that proceeding would "destroy" the competitive market, and that new merchant generation is being built elsewhere.⁷⁷ Calpine also contends the RFP violates the U. S. Constitution's Supremacy and Commerce Clauses.⁷⁸ PPL claims that going forward with the RFP is not necessary because the competitive market is working to create reserve margins above 20% through 2015, and trends indicate demand is declining.⁷⁹ It asserts that building new generation now will only lead to higher, not lower, electricity prices for Maryland consumers, and notes that similar proposals in New Jersey have led to constitutional challenges.⁸⁰ PSEG joins the others in asserting that proceeding with the RFP will interfere with the proper functioning of the

⁷⁴ *Id.*, p. 2, Transcript, p. 228.

⁷⁵ *Id.*, p. 2, Transcript, p. 229.

⁷⁶ *Comments of Exelon Corporation Regarding the Commission's Request for and Review of Proposals*, pp. 2-3.

⁷⁷ *Comments of Calpine Corporation*, pp. 1-3.

⁷⁸ *Id.*, p. 4.

⁷⁹ *Comments of PPL Energy Plus, LLC Regarding the Commission's Request for and Review of Proposals*, p. 1.

⁸⁰ *Id.*, pp. 2-3.

wholesale competitive market, and cites the Brattle Group's finding that "RPM is performing well."⁸¹ PSEG advocates that instead of proceeding with the RFP, the Commission should work with PJM to improve RPM.⁸² If the Commission were to proceed, PSEG urges it to open the RFP to existing generation, any fuel type and any location in PJM.⁸³

Trade Associations

The trade association representatives also oppose going forward with the RFP. P3, which represents existing generation owners in PJM, suggests that resources have already been procured through 2015 to meet Maryland's needs with a "robust" reserve margin, demonstrating there is no need for new generation.⁸⁴ P3 notes that demand is not growing at the rate previously expected, and PJM has been regularly reducing its projected future needs for Maryland.⁸⁵ It points to the experience last summer when peak demand was extremely high, but PJM met that peak demand with present generation.⁸⁶ P3 emphasizes that coal generation in Maryland has already been upgraded with environmental controls, so that the impact of new federal rules will not be as severe in Maryland as in other States.⁸⁷ Like some of the suppliers, P3 asserts

⁸¹ *PSEG Energy Resources & Trade LLC Comments*, pp. 2-3, and fn. 2.

⁸² *Id.*, p. 4.

⁸³ *Id.*, p. 5.

⁸⁴ *Comments of the PJM Power Providers Group*, p. 2, Transcript, p. 209.

⁸⁵ *Id.*, p.2.

⁸⁶ Transcript, p. 213.

⁸⁷ *Comments of the PJM Power Providers Group.*, p. 3.

the RFP, like a New Jersey statute, will be found to be unconstitutional because it intrudes on FERC's exclusive authority to establish wholesale market prices and it violates the Commerce Clause by discriminating against out-of-state generation.⁸⁸ P3 complains about a lack of transparency, and states the Commission should make all bids public and open for comment.⁸⁹ EPSA, a national trade association of competitive power suppliers including generators and marketers, also believes that new generation is not needed, and the Commission should rely on the competitive markets to provide the least-cost, long-term solutions.⁹⁰ In reaching its conclusion, EPSA relies on the LTER that new generation is not needed until 2019 or 2020, and notes the EmPOWER programs effectiveness in reducing peak demand.⁹¹ EPSA asserts that PJM is maintaining reliability with a cleared reserve margin of over 20%.⁹² It points to PJM peak load forecasts for 2015 and 2020 that are 3% smaller than expected just a year ago as further indication that additional generation is not needed.⁹³ It cites LS Power Development's recent ability to obtain financing for construction of a new generating plant in New Jersey as evidence that the market works to provide new generation without the need for ratepayer subsidies.⁹⁴ Mr. Shelk of EPSA testified at the hearing that even a small amount of generation, if

⁸⁸ *Id.*, pp. 3-4, Transcript, pp. 210-211.

⁸⁹ *Id.*, pp. 5-6, Transcript, p. 212.

⁹⁰ *Comments of the Electric Power Supply Association*, p. 3.

⁹¹ *Id.*, p. 7.

⁹² *Id.*, p. 9.

⁹³ *Id.*

⁹⁴ *Id.*, p. 12, Transcript, p. 189.

uneconomic and not needed, has a major impact on the market.⁹⁵ RESA, an association of competitive marketers, also recommends an "extensive evidentiary hearing."⁹⁶ RESA seems mostly concerned with the cost recovery mechanism for the utilities, and encourages the Commission to place it in a charge on SOS customers, rather than on all customers (which would include customers of third-party suppliers).⁹⁷

Sierra Club

The Sierra Club takes the position that "there is no demonstrated need for capacity in the foreseeable future" as current projections show excess capacity.⁹⁸ It included in its written Comments a report by Synapse Energy Economics Inc. which emphasizes the emergence of new supply-side resources in reducing projected need.⁹⁹ It argues the current RFP is unduly restrictive and should be opened up to renewable generation, and energy efficiency and demand response resources that are more environmentally friendly.¹⁰⁰ At the hearing, Mr. Hausman testified on behalf of the Sierra Club that renewable generation primarily supplies energy

⁹⁵ Transcript, p. 189.

⁹⁶ *Comments of the Retail Energy Supply Association*, p. 2.

⁹⁷ *Id.*, pp. 4-7.

⁹⁸ *Comments of the Sierra Club and Chesapeake Climate Action Network Regarding the Need for New Generating Facilities to Meet Long-Term Demand for Standard Offer Service in Maryland*, pp. 2, 5-6, Transcript, p. 98.

⁹⁹ *Id.*, Maximizing Benefits: Recommendations for Meeting Long-Term Demand for Standard Offer Service in Maryland.

¹⁰⁰ *Id.*, pp. 2-3, 7-17, Transcript, p. 101.

and doesn't help with regard to capacity resources.¹⁰¹ He urged the Commission to rely on PJM to ensure reliability throughout the region.¹⁰²

Boston Pacific

Boston Pacific, the Commission's consultants in this proceeding, acknowledges that the situation regarding reliability in Maryland has improved since 2007 due to a slowing of load growth, activation of additional transmission, and a substantial addition of demand response.¹⁰³ However, Boston Pacific identified four key risks to future reliability: (1) load growth could speed up as the economy recovers; (2) retirement of generating units, especially coal units, could be greater than expected; (3) since Maryland imports 30% of its power, it is very dependent on transmission projects, which could be delayed; and (4) increased penetration of renewable generation could accelerate transmission problems.¹⁰⁴ Boston Pacific notes that the PJM capacity market has failed to bring new generation to Maryland, in spite of the fact that clearing prices in SWMAAC capacity auctions average almost double that of the non-constrained portions of PJM.¹⁰⁵ They recommended the Commission seek new, natural gas-fired, combined cycle generation because it is operationally flexible, clean relative to our current generation mix, and comparatively inexpensive to operate.¹⁰⁶ They

¹⁰¹ Transcript, p. 104.

¹⁰² Transcript, pp. 107-108.

¹⁰³ *Evaluation of a Draft Request for Proposals for Generating Capacity Resources Under Long-Term Contract*, pp. 1-2.

¹⁰⁴ *Id.*, pp. 2-3, 17-26.

¹⁰⁵ *Id.*, pp. 7-10 Transcript, p. 43.

¹⁰⁶ *Id.*, p. 30, Transcript, p. 32.

suggested the new generation should be limited to SWMAAC because that is the constrained zone that has seen the highest prices, the least generation development, and is at most risk for reliability problems.¹⁰⁷ At the hearing, Dr. Roach testified that 30% of Maryland's energy is imported, and is thereby at risk for transmission difficulties,¹⁰⁸ and 90% of the in-state generation is coal or nuclear.¹⁰⁹ Mr. Mossberg of Boston Pacific stated that 9,000 MW out of 12,500 MW, or 72%, of Maryland generation is over 30 years old.¹¹⁰ They emphasized the need to look long-term since it requires 3 years to build a combined cycle generating plant.¹¹¹

Commission Decision

The Need for New Generation

Among the things that go bump in the night, the thought that the lights might go out in Maryland as a result of our actions, or inactions, during our term as Commissioners is one that keeps us awake. On November 6, 2008, we wrote that "From the time the potential shortfall first was revealed, this Commission has stated publicly, forcefully and unequivocally that a policy of conscious inaction was not acceptable."¹¹² That statement remains true

¹⁰⁷ *Id.*, p. 31, Transcript, p. 18.

¹⁰⁸ Transcript, p. 22.

¹⁰⁹ Transcript, p. 26.

¹¹⁰ Transcript, p. 35.

¹¹¹ Transcript, p. 39.

¹¹² *In the Matter of the Investigation of the Process and Criteria for Use in Development of Request for Proposal by the Maryland Investor-Owned Utilities for New Generation to Alleviate*

three-and-one-half years later. Much has changed in the interim, most of it for the good. PJM's peak load forecasts have been reduced and, where prior to 2008 they were seeing a need for new generation in 2012, it has now moved that date back to 2017 - 2020.¹¹³ As was noted by numerous parties, the LTER model's most likely scenario also does not project a need for new generation until 2020. Certainly the evidence in this case indicates the need for new generation is less imminent than it was in 2008.

However, load forecasting is not a science and the forecasts are extremely variable. For example, Staff's analysis notes, "the significant difference for the BGE and the Maryland portion of the DPL transmission zone is approximately 324 MW in 2012, increasing to 767 MW in 2015 as presented in Table A.5, and may represent more than half of the 1,500 MW being considered in this proceeding."¹¹⁴ Such variability demonstrates the risk of reliance on such projections for when new generation will be needed.

A major source of the variability, and a major source of concern for us, is the always uncertain and now even more uncertain future of our existing coal-fired generation and the coal-fired generation in neighboring states that export electricity into Maryland. PJM categorizes coal generation more than 40 years old and less than 400 MW as at "high-risk" of retirement.¹¹⁵ Several parties emphasized

Potential Short-Term Reliability Problems in the State of Maryland, Case No. 9149, Order dated November 6, 2008, p. 2.

¹¹³ Transcript, pp. 48-50.

¹¹⁴ Staff Comments, p. 6.

¹¹⁵ PJM Comments, pp. 11-12.

that 90% of Maryland generation is either coal or nuclear.¹¹⁶ Of the nearly 5,000 MW of coal generating capacity in Maryland, 70% is more than 40 years old, and thus at "high-risk."¹¹⁷ Recent EPA Mercury and Air Toxic Standards and the Cross-State Pollution Rule applied to coal-fired plants are likely to lead to the retirement of between 11,000 MW and 25,000 MW of coal-fired capacity in PJM.¹¹⁸ Although it is likely Maryland's coal-fired generation will see less retirements since most of it has had some environmental controls installed to comply with the Maryland Healthy Air Act,¹¹⁹ there is nonetheless considerable uncertainty about how these new rules will impact Maryland coal-fired generation and the plants in adjoining states that have not taken the same environmental initiative.

Two such coal-fired plants falling in the "high-risk" category are C. P. Crane and H. A. Wagner, two plants Constellation agreed to sell in order to mitigate market power concerns from its merger with Exelon.¹²⁰ PJM has acknowledged that retirement of either or both of these plants would likely result in potential reliability violations.¹²¹ PJM also acknowledged that their retirement would exacerbate the existing transmission constraint in

¹¹⁶ MEA Comments, p. 2; GE Energy Comments, p. 2; Transcript, p. 26 (Boston Pacific).

¹¹⁷ MEA Comments, p. 2.

¹¹⁸ OPC Comments, pp. 9, 11.

¹¹⁹ P3 Comments, pl 3.

¹²⁰ *In the Matter of the Merger of Exelon Corporation and Constellation Energy Group, Inc.*, Case No. 9271, Order No. 84698, p. 104.

¹²¹ PJM Supplemental Comments, p. 4.

SWMAAC.¹²² There is simply restricted ability to bring electricity to Maryland from the west over the Allegheny Mountains.¹²³

In addition, the retirements of coal plants in the PJM region outside of Maryland poses yet another reliability risk, as the lack of in-state electric generation forces Maryland to rely more and more on out-of-state generation and transmission resources. As noted by Boston Pacific, Maryland imported around 30% of its electricity needs during the 2005-2009 period and that amount grew to 35% in 2009 alone.¹²⁴ We agree there are great uncertainties and risks associated with transmission planning and that Maryland is "very susceptible to the risks of transmission planning and approval and transmission outages."¹²⁵

We are also concerned about the extent of Maryland's reliance on demand response to keep peak load demand in check. The evidence indicates that SWMAAC will rely on demand response and energy efficiency for 2,400 MW, or slightly more than 20%, of its total capacity needs in 2014/2015.¹²⁶ Staff pointed out that Commercial and Industrial demand response may be close to saturation, and any additional relief by way of demand response is likely to have to come from the residential sector.¹²⁷ We note that we are already seeing problems in

¹²² *Id.*, p. 5.

¹²³ Transcript, p. 63.

¹²⁴ Boston Pacific Report, p.24.

¹²⁵ *Id.*

¹²⁶ Transcript, p. 156 (CPV).

¹²⁷ Staff Comments, p. 13.

Maryland with our Curtailment Service Providers being able to meet their contractual commitments for demand response.¹²⁸ While we remain strong advocates for demand response as a low cost-effective way to address peak load growth, we are reluctant to rely on it to the exclusion of considering new generation.

We also share Boston Pacific's concern that significant additions of renewable generation will require more diversification of our generation mix. Because it is dependent on sun or wind, renewable generation is intermittent, and cannot help address reliability issues.¹²⁹ Maryland has an aggressive RPS that calls for 20% of our generation to come from renewable sources by 2022.¹³⁰ This will require other dispatchable generation with flexibility to start quickly, a characteristic that our existing coal and nuclear fleet does not have.¹³¹ Nuclear power plants especially do not run in a load-following up-and-down mode. Therefore, successful integration of renewable generation to meet our RPS goal will require additional flexible generation.

¹²⁸ See *In the Matter of the Investigation of the Process and Criteria for use in Development of Request for Proposal by the Maryland Investor-Owned Utilities for New Generation to Alleviate Potential Short-Term Reliability Problems in the State of Maryland*, Case No. 9149, Motion of EnerNOC to Amend Agreement for Capacity Resources dated June 28, 2011; Transcript 192-193 (EPSA).

¹²⁹ Transcript, p. 25 (Boston Pacific); p. 86 (MEA); p. 104 (Sierra Club).

¹³⁰ GE Energy Comments, p. 2.

¹³¹ *Id.*; Transcript, p. 228 (GE Energy) .

Furthermore, and of critical importance, we cannot rely on PJM's Reliability Pricing Model to deliver new generation to Maryland.¹³² Maryland has not seen any significant new generation constructed here since 2003.¹³³ Since its inception in 2007, RPM has brought no new generation to Maryland, in spite of the fact that clearing prices for capacity in SWMAAC have averaged almost double those of the non-constrained portions of PJM.¹³⁴ As an example, the RPM clearing prices in SWMAAC rose from \$ 110/MW-day in the 2011/2012 delivery year, to \$ 133 in 2012/2013, and to \$ 226 in 2013/2014 (more than eight times the capacity prices paid by ratepayers living in Western Maryland). Despite these exorbitant capacity charges, which have increased energy costs to Maryland ratepayers by hundreds of millions of dollars, *no* new base load generation was bid into the BRA during the 2012-2014 delivery period. Zero. The simple fact is that the one year signal, three years into the future has not provided sufficient certainty for prospective generation suppliers to secure financing in the current economic climate. And we do not find it reasonable to require us, as P3 and the IMM and other generators would, to entrust the reliability of our State's electricity supply entirely to the operation of a capacity market that, by design, seeks to incent long-term assets solely through short-term price signals. The Federal Power Act does not relegate us or our ratepayers to that binary choice, and we would flout the intent of the General Assembly if we ignored our authority

¹³² Commissioner Brenner does not join the Commission's discussion in this paragraph.

¹³³ MEA Comments, p. 3.

¹³⁴ MEA Comments, p. 3; Boston Pacific Comments, pp. 7-10.

under State law in order to see whether the capacity market construct someday might work. Even the market-approach proponents acknowledge that RPM requires changes.¹³⁵

Our statute requires us to anticipate and meet "long-term, anticipated demand in the State for standard offer service and other electricity supply." PUA, § 7-510(c)(6). The most salient risk factors we have examined, taken individually and cumulatively, point to the potential need for new generation in the 2015-2017 time period. Numerous parties pointed us to the LTER conservative scenario that indicates a need for new generation in Maryland by 2015.¹³⁶ We accept these more conservative forecasts and find there is a need for new generation in Maryland by 2015. The evidence is that it requires three years to construct a new gas-fired combined cycle generating plant and have it operational.¹³⁷ Therefore, much as Branch Rickey advised "[t]rade a player a year too early rather than a year too late,"¹³⁸ we find it reasonable and prudent to act conservatively and *before* a serious reliability crisis occurs. We find, therefore, that we must move forward with the RFP at this time in order to meet Maryland's anticipated long-term electricity demands.¹³⁹

Having found there is a need for new generation by 2015, we must still determine how

¹³⁵ Transcript, p. 67 (IMM); Calpine Comments, p. 5; PSEG Comments, p. 4; EPSA Comments, p. 12.

¹³⁶ Transcript, p. 83 (MEA); OPC Comments, pp. 18-19; Staff comments, p. 18;

¹³⁷ Transcript, p. 155 (CPV); p. 39 (Boston Pacific).

¹³⁸ <http://www.baseball-almanac.com/quotes/quobr.shtml>

much additional generation is necessary to meet long-term demand in the transmission-constrained portions of the State. The evidence on this question is less well developed. CPV's analysis of the LTER data concludes there is a need for 675 MW in SWMAAC by 2015.¹⁴⁰ Other parties also noted there may be a need for less than the full 1,500 MW called for in the RFP.¹⁴¹ We also recognize that our Order in the recent merger of Exelon and Constellation requires Exelon to cause construction of 120 MW of gas-fired combustion turbine generation in Maryland by the end of 2015.¹⁴² These incremental megawatts will address peak load, and may not necessarily be built in SWMAAC. The merger Order also calls for Exelon to cause construction of up to another 165 MW of renewable generation to be operational sometime between 2015 and 2022.¹⁴³ This renewable generation will not address our reliability need, but may contribute to strains on the transmission system due to their intermittent and locational attributes. When we consider all the evidence in this case, we find there is a need for approximately one new power plant -- new generation in the range of 650 to 700 MW in SWMAAC -- beginning in 2015.

The Bids

Three bidders met the minimum threshold requirements set forth in the RFP, two of which contained multiple pricing options. Invenergy proposed a 549 MW combined cycle facility located in

¹⁴⁰ CPV Comments, Exhibit A.

¹⁴¹ Transcript, p. 93 (Staff) ; Boston Pacific Report, p. 31.

¹⁴² Case No. 9271, Order No. 84698, p. 105.

¹⁴³ *Id.*, pp. 105-109.

Prince George's County that would be operational on June 1, 2017. Mattawoman proposed a 731 MW combined cycle facility, also to be located in Prince Georges County, that would be operational on June 1, 2016. CPV proposed a 661 combined cycle facility in Charles County and offered a choice of in-service dates of June 1, 2015 or June 1, 2016.¹⁴⁴

The RFP specified the method by which the bids were evaluated for the final short list evaluation. The bids were modeled in a production cost model to determine their cost to ratepayers throughout the term of the Contract for Differences.¹⁴⁵ Boston Pacific and Siemens Power Technologies International used the PROMOD IV market simulation model for this analysis, using "base case" inputs and four different sensitivities: a high gas price case; a low gas price case; a PJM Net Revenue Case;¹⁴⁶ and a coal retirement case.¹⁴⁷ The modeling ultimately projected average bill impacts for residential SOS customers (based on 1,000 kilowatt hours/month) and assumed a \$ 150/MW-day RPM price.¹⁴⁸ The CPV bid for an in-service date of

¹⁴⁴ Boston Pacific Bid Memorandum dated April 3, 2012.

¹⁴⁵ RFP, § 6.5.5, p. 16.

¹⁴⁶ In the PJM Net Revenue Case, it is assumed the bids would earn the same net revenues (i.e. market revenues less variable costs) that PJM estimates in calculating its Minimum Offer Price Rule (MOPR) screen. Boston Pacific Bid Memorandum dated April 3, 2012, p. 3.

¹⁴⁷ Boston Pacific Bid Memorandum dated April 3, 2012, pp. 2-3.

¹⁴⁸ Modeling assumes rate impact applies only to SOS customers in the BGE, Pepco and Delmarva service territories, and that 22.5% of residential load is served by non-SOS third party suppliers (based on 2011 data).

June 1, 2015 was found to be the best price for SOS ratepayers, with the average impact to residential SOS ratepayers projected to be a *credit* of \$ 0.49/month over the entire life of the contract.¹⁴⁹ Under the model, average residential SOS ratepayers would see a rate payment in the initial years ranging from \$ 2.03/month in 2015 to \$ 1.05/month in 2019, which is projected to change to a rate *credit* for the remaining 15 years of the contract, ranging from \$ 0.32 in 2020 to a high of \$ 2.98/month in 2024. The analysis showed a credit to residential SOS ratepayers over the life of the contract for all cases except the PJM Net Revenue Case, and remained so even if customer migration to third-party suppliers were to increase to 30% in 2015.¹⁵⁰ Based on this analysis, and our finding concerning the amount of need in 2015, we accept only the CPV bid for a 661 MW combined cycle facility located in Charles County to be operational on June 1, 2015.

Cost Recovery

We have given careful attention to the parties' concern that we address the issue of the utilities' cost recovery for their payments (if any) under the Contract for Differences.¹⁵¹ Considering that our statutory mandate is to meet the long-term demand for SOS service for residential and small commercial customers, we find that the utilities we direct to enter into these Contracts for Differences should recover the costs through their respective SOS

¹⁴⁹ *Id.*, pp. 7-8.

¹⁵⁰ *Id.*, p. 9.

¹⁵¹ Pepco/Delmarva Comments, pp. 30-35; RESA Comments, pp. 4-7.

surcharges. We direct that this cost "recovery" is to go both ways: the SOS surcharge will be increased as appropriate to reflect those months in which the utilities have payments due to the Supplier under the Contract for Differences, but likewise the SOS surcharge is to be credited for those months in which the Supplier pays the utility. Because the Boston Pacific modeling indicated the likelihood of a net credit over the life of the Contract for Differences, even when migration of SOS customers to third party suppliers increased to 30% in 2015, we find that cost recovery through the SOS surcharge is appropriate. Because we have found that the new generation is needed in SWMAAC to address transmission constraints, we find that the SOS customers in the SWMAAC area, as well as non-SWMAAC SOS customers located east of the constraint, most appropriately bear the surcharge or receive the credit, since all of those customers will receive reliability benefits from the new generation. Accordingly, we direct BGE, Pepco and Delmarva to enter into a Contract for Differences with CPV in amounts proportionate to their relative SOS load as of the date of execution.¹⁵²

Outstanding Motions

Northland Power, Inc. filed a Request to Modify the Request for Proposal to extend the bid

¹⁵² We are mindful of the concerns the utilities expressed about the requirements of the Contract for Differences in their letter dated March 29, 2012, and direct Boston Pacific, CPV, BGE, Pepco, and Delmarva to negotiate appropriate changes in the Contract for Differences and submit any proposed changes to the Commission for approval.

date by 157 days and to amend the minimum threshold requirements regarding right-of-way access to electrical and fuel interconnection points. In the Amended RFP dated December 8, 2011, we extended the bid date until January 20, 2012, which was the maximum extension we could grant and still make an award of bid (s) in time for bidding into the May 2012 BRA. To that extent, Northland Power's Motion was granted in part. Regarding the minimum threshold requirements, these requirements needed to be met if the bidder is to be able to have a project operational in 2015. Accordingly, the balance of the Request is denied.

Eastalco filed a Request to Modify the RFP to eliminate the geographic restriction to SWMAAC because it owns property in Frederick County which it asserts would "provide reliability benefits to SWMAAC" if generation were built there.¹⁵³ Because we have found that the new generation need is in SWMAAC to relieve a significant local transmission constraint, and because removing the geographic restriction in its entirety would open the RFP to bidders who propose plants in far western Maryland and it would be difficult to determine the extent to which such bids would provide reliability benefits to SWMAAC, the Eastalco Request is denied.

Pepco and Delmarva filed an Application for Rehearing of our September 29, 2011 Order directing issuance of the RFP. Their Application argues we should make a finding on need, thoroughly consider all available options, and make a finding concerning a cost recovery mechanism before proceeding with

¹⁵³ Eastalco Request, p. 4.

the RFP, all of which we have done in this Order. Accordingly, the Pepco and Delmarva Application for Rehearing is partially moot. The Application also asks for a full evidentiary hearing with discovery. We find such an evidentiary hearing is not necessary and that part of the Application is denied.

Finally, NRG Energy, Inc. filed a Motion to Postpone Procurement of New Generation until after the divestiture of the plants as part of the merger takes place, and argues that a postponement would allow time for more bidders. Because we have found the need for new generation is in 2015 and waiting for plants to be sold as a result of the merger proceeding will take place too late for bidding into the May 2012 BRA for the 2015-16 delivery period, the Motion to Postpone is denied.

Conclusion

For the reasons set forth above, we find that the long-term demand for electricity in Maryland, and specifically in the SWMAAC zone, compels us to order new generation in the amount of 650 to 700 MWs in the SWMAAC zone in Maryland by 2015. We find that the Bid of CPV Maryland, LLC to build a 661 MW natural gas-fired combined cycle facility in Charles County with an in-service date of June 1, 2015 will provide the needed new generation at the lowest cost to SOS ratepayers, and we accept that bid. We direct BGE, Pepco and Delmarva to negotiate and enter into a Contract for Differences with CPV Maryland, LLC, and to recover their costs (or return their credits) through the SOS surcharge.

IT IS THEREFORE, this 12th day of April, in the year Two Thousand and Twelve,

ORDERED: (1) That, for the reasons set forth herein, Baltimore Gas and Electric Company, Potomac Electric Power Company, and Delmarva Power & Light Company shall execute a Contract for Differences with CPV Maryland, LLC as specified in this Order, and

(2) All other Motions not granted herein are denied.

Douglas R. M. Nazarian
Harold D. Williams
Lawrence Brenner
Kelly Speakes-Backman
W. Kevin Hughes

Commissioners

APPENDIX C

IN THE UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF MARYLAND

PPL ENERGYPLUS, LLC, et al.

Plaintiffs

vs. CIVIL ACTION NO. MJG-12-1286

DOUGLAS R. M. NAZARIAN, in his
official capacity as Chairman
of the Maryland Public Service
Commission, et al.

Defendants

MEMORANDUM OF DECISION

The Court has heard the evidence, reviewed the exhibits, considered the materials submitted by the parties, and had the benefit of the arguments of counsel.

The Court now issues this Memorandum of Decision as its findings of fact and conclusions of law in compliance with Rule 52(a) of the Federal Rules of Civil Procedure. The Court finds the facts stated herein based upon its evaluation of the evidence, including the credibility of witnesses, and the inferences that the Court has found reasonable to draw from the evidence.

I. INTRODUCTION

Prior to 1999, Maryland utilized a vertically integrated model of electric energy regulation. A single electric utility (such as BGE or Pepco) owned the facilities that produced and delivered electricity to the users in its exclusive territory. Maryland electric power users purchased electricity from the one utility that served the territory in which they were located. The Maryland Public Service Commission ("PSC") ultimately determined whether additional generation resources were needed in Maryland and provided for the financing of those resources through the approval of rate increases.

In 1999, the Maryland General Assembly passed the Electric Customer Choice and Competition Act (the "1999 Act"), which restructured, or deregulated, Maryland's electric energy market. The 1999 Act separated the Maryland "utilities' generating assets from their distribution and transmission functions" by transferring ownership of those generation assets to other companies that owned and operated the power plants. P.391 (2007 PSC Interim Report) at 10.

The PSC is empowered by the State of Maryland to assure "safe, adequate, reasonable, and proper [electric] service." Md. Code Ann., Pub. Util. § 5-101(a). However, Maryland-based utilities, which now no longer own generating facilities, must purchase energy on federally regulated wholesale markets. Thus, the utilities and, correspondingly, Maryland ratepayers are directly affected by the wholesale prices determined on the federally regulated wholesale markets.

In mid-2000, the PSC and others began to voice concerns over the operations of Maryland's electricity markets, the post-restructuring consumer electricity rates, and the existence of adequate generation resources to serve the energy needs of Maryland ratepayers. In 2007, the PSC filed a report with the General Assembly, stating that the federally regulated wholesale markets had not responded to Maryland's needs and opining that those markets were unlikely to respond in the immediate future to the state's "looming capacity shortage." P.391 (2007 PSC Interim Report) at 1. The PSC concluded that it should require the Maryland utilities to enter into long-term contracts to induce the construction of new electric generation facilities in Maryland.

Ultimately, on April 12, 2012, the PSC issued the Generation Order at issue,¹ directing Baltimore Gas and Electric Company ("BGE"), Potomac Electric Power Company ("Pepco"), and Delmarva Power & Light Company ("Delmarva") to enter into a Contract for Differences ("CfD") with CPV Maryland, LLC ("CPV"). In essence, the CfD provided that regardless of the price set by the federally regulated wholesale market, the Maryland utilities would assure that CPV received a guaranteed price fixed by a contractual formula.² The result was that CPV had a secure income stream available to finance construction of a

¹ PSC Order No. 84815. *See* P.44.

² Ultimately, the utilities' customers.

generating facility in a designated area within Maryland.³

Plaintiffs⁴ present claims in three Counts:

Count I Violation of the Supremacy Clause, U.S. Constitution, art. VI, cl.2;

Count II Violation of the *Commerce Clause*, U.S. Constitution, art. I, § 8, cl.3; and

Count III Violation of 42 U.S.C. § 1983.

As discussed at length herein, the Court holds that Plaintiffs have established their claim that the Generation Order violates the Supremacy Clause of the United States Constitution by virtue of field

³ As discussed herein, there was a theoretical possibility (but a practical impossibility) that the facility could be constructed in the District of Columbia.

⁴ The Plaintiffs are: PPL Energyplus, LLC; PPL Brunner Island, LLC; PPL Holtwood, LLC; PPL Martins Creek, LLC; PPL Montour, LLC; PPL Susquehanna, LLC; Lower Mount Bethel Energy, LLC; PPL New Jersey Solar, LLC; PPL New Jersey Biogas, LLC; PPL Renewable Energy, LLC; PSEG Power, LLC; and Essential Power, LLC.

The named Defendants are the Commissioners of the PSC, sued in their official capacities, Douglas R. M. Nazarian, Harold Williams, Lawrence Brenner, Kelly Speakes-Backman, and Kevin Hughes. On January 8, 2013, after Plaintiffs filed the instant suit, Douglas R. M. Nazarian was appointed to the Maryland Court of Special Appeals.

preemption⁵ but does not violate the dormant Commerce Clause.⁶

II. BACKGROUND

A. Electric Power Grids In A Nutshell

As once said in reference to the Rule in Shelley's case, it is one thing to put the subject of electric power grids in a nutshell, but impossible to keep it there.⁷ Nevertheless, even an oversimplified, incomplete, and imprecise introduction may be useful to those totally unfamiliar with electric power grids.

To start, think of a power grid as analogous to a network of pipes utilized to transport water from various pumping stations, which take water from natural sources (lake, river, etc.), to reservoirs. The water in the reservoirs is then, as demanded by a local utility, transported by pipes in the grid to the local utility for distribution to the utility's customers.

However, for a closer analogy, think of the same grid without any reservoirs. When an amount of water is placed into the grid by a pumping station, an equal amount must flow out of the grid to a local utility.

⁵ The establishment of Plaintiffs' field preemption claim renders moot the question of whether Plaintiffs also established their Supremacy Clause conflict preemption claim.

⁶ The Court also holds that even if not formally abandoned, Plaintiffs' 42 U.S.C. § 1983 claim is not viable.

⁷ Professor Barton W. Leach wrote that when "Lord Thurlow undertook to put the Rule in Shelley's Case in a nutshell," Lord Macnaghten said, "it is one thing to put a case like Shelley's in a nutshell and another thing to keep it there." W. Barton Leach, *Perpetuities in a Nutshell*, 51 Harv. L. Rev. 638, 638 n.1 (1938)(quoting *Van Grutten v. Foxwell*, [1897] A. C. 658, 671).

Thus, the grid operator must insure that, at all times, the supply (water put into the grid by the pumping stations) equals the demand (water sent out of the grid to the local utilities). This balance is maintained by affecting the supply through adjustments of the price paid to pumping station suppliers, payments to local utilities (or customers) to reduce their usage, adjustments to the price paid by the local utilities for the water they demand, etc.

B. Federal Regulation of Electric Energy

1. The Federal Power Act and FERC

In 1927, the United States Supreme Court held that the dormant *Commerce Clause* prohibited states from regulating the rates for wholesale power sales between utilities in different states. The Court reasoned that, unlike the regulation of the rates charged to local consumers, regulation of interstate rates places "a direct burden upon interstate commerce, from which the state is restrained by the force of the *commerce clause*." *Pub. Utils. Comm'n of R.I. v. Attleboro Steam & Elec. Co.*, 273 U.S. 83, 89, 47 S. Ct. 294, 71 L. Ed. 549 (1927).⁸

In response to the *Attleboro* decision, Congress enacted the Federal Power Act ("FPA") in 1935, which "closed the 'Attleboro gap' by authorizing federal regulation of interstate, wholesale sales of electricity — the precise subject matter beyond the jurisdiction of

⁸ See *Quill Corp. v. North Dakota*, 504 U.S. 298, 112 S. Ct. 1904, 119 L. Ed. 2d 91 (1992) (recognizing abrogation of *Attleboro* on other grounds).

the States in *Attleboro*."⁹ *New York v. F.E.R.C.*, 535 U.S. 1, 20, 122 S. Ct. 1012, 152 L. Ed. 2d 47 (2002). Specifically, the FPA gave the Federal Power Commission, the predecessor agency to FERC, jurisdiction over the regulation of interstate wholesale sales of electricity and of interstate transmissions of electric energy. *See* 16 U.S.C. § 824(a); *New York*, 535 U.S. at 20-21.

The FPA vested FERC with the responsibility for setting the "rates and charges" of wholesale electric energy and for ensuring that those rates are "just and reasonable." *Id.* § 824d(a); *Entergy La., Inc. v. La. Pub. Serv. Comm'n*, 539 U.S. 39, 47-48, 123 S. Ct. 2050, 156 L. Ed. 2d 34 (2003). In essence, FERC exercises this authority through an intricate regulatory framework whereby transactions for the wholesale sale of electricity are filed with FERC (on either an individual basis or, more often, under a market-based rate tariff). FERC determines on its own initiative, or in response to a request by some party, whether such rates are "just and reasonable" and not unduly preferential, discriminatory, or disadvantageous to any party.¹⁰ *See* 16 U.S.C. § 824e; *id.* § 824d.

As to the physical facilities that generate electric energy, the FPA gave FERC jurisdiction "over all facilities for [the] transmission or sale of electric

⁹ The "'sale of electric energy at wholesale' . . . means a sale of electric energy to any person for resale." 16 U.S.C. § 824(d).

¹⁰ For example, FERC regulations require utilities with market-based rate authority to file an Electronic Quarterly Report ("EQR") every quarter summarizing the contractual terms and conditions in agreements subject to the jurisdiction of FERC, including agreements for the wholesale sales of capacity and energy. *See* 18 C.F.R. § 35.10b.

energy" in interstate commerce. *Id.* § 824(b)(1). But, "except as specifically provided in this subchapter and subchapter III of this chapter," FERC has no jurisdiction "over facilities used for the generation of electric energy or over facilities used in local distribution or only for the transmission of electric energy in intrastate commerce, or over facilities for the transmission of electric energy consumed wholly by the transmitter." *Id.*

The witnesses generally agreed that FERC has no authority or power to order directly the siting, building, or construction of a generation facility generally or in any particular location within a state. Tr. Mar. 5 (PM) at 82:4-21 (Nazarian); Tr. Mar. 6 (AM) at 44:1-21, 46:12-47:7 (Massey); Tr. Mar. 7 (AM) at 32:10-21 (Wodyka). As discussed *infra*, that authority is retained by the states under the FPA.

The FPA created an exclusive area of federal jurisdiction in the electric energy realm regarding the regulation of interstate wholesale energy sales and transmission, including the entities that engage in such acts. The FPA also retained a sphere of state jurisdiction with respect to interstate retail sales, distribution of electric energy, and the construction of local generation facilities. *See New York*, 535 U.S. at 22-23 (explaining "the legislative history [of the FPA] is replete with statements describing Congress' intent to preserve state jurisdiction over local facilities").¹¹ As

¹¹ Also recognizing the role of the states, the Energy Policy Act of 2005, which gave FERC jurisdiction over reliability standards for the bulk-power system, states "[n]othing in this section shall be construed to preempt any authority of any State to take action to ensure the safety, adequacy, and reliability of electric service

summarized by the U.S. Court of Appeals for the District of Columbia Circuit:

Jurisdiction over this sale and delivery of electricity is split between the federal government and the states on the basis of the type of service being provided and the nature of the energy sale Thus transmission occurs pursuant to FERC-approved tariffs; local distribution occurs under rates set by a state's public service commission.

Niagara Mohawk Power Corp. v. F.E.R.C., 452 F.3d 822, 824, 371 U.S. App. D.C. 446 (D.C. Cir. 2006).

2. Development of Wholesale Energy Markets

a. Traditional Vertically Integrated Utilities

"When Congress enacted the FPA, networks of high-voltage, long-distance transmission lines which today crisscross the United States" simply did not exist." *See Transmission Access Policy Study Grp. v. F.E.R.C.*, 225 F.3d 667, 691, 343 U.S. App. D.C. 151 (D.C. Cir. 2000), *aff'd sub nom. New York v. F.E.R.C.*, 535 U.S. 1, 122 S. Ct. 1012, 152 L. Ed. 2d 47 (2002). The absence of this infrastructure likely was a factor in the development of the vertically integrated structure of electric utilities that generally predominated in the United States until the 1990's. The term "vertically integrated electric utilities" refers to "generation,

within that State, as long as such action is not inconsistent with any reliability standard." 16 U.S.C. § 824o(i)(3).

transmission, and distribution facilities [which are] owned by a single entity and sold as part of a bundled service (delivered electric energy) to wholesale and retail customers." *Promoting Wholesale Competition Through Open Access Non-discriminatory Transmission Services by Public Utilities, Recovery of Stranded Costs by Public Utilities and Transmitting Utilities; Proposed Rulemaking and Supplemental Notice of Proposed Rulemaking*, 60 Fed. Reg. 17,662, 17,668 (Apr. 7, 1995) (hereinafter Open Access). Under the vertically integrated structure:

Most electric utilities built their own power plants and transmission systems, entered into interconnection and coordination arrangements with neighboring utilities, and entered into long-term contracts to make wholesale requirements sales (bundled sales of generation and transmission) to municipal, cooperative, and other investor-owned utilities (IOUs) connected to each utility's transmission system. Each system covered limited service areas.

Id.

A utility operating in the vertically integrated structure typically generates electricity with power plants it owns; transmits the electricity from those power plants to its service territory, usually defined by the state of location;¹² and distributes that electricity

¹² Typically, a utility was granted a franchise by the state government to provide electric service to all consumers located within a defined territory or service territory. *See* Tr. Mar. 5 (AM) at 42:13-44:11 (Nazarian).

to end-use customers within its service territory through local distribution networks, poles, and wires that the utility owns and maintains. *See* Tr. Mar. 4 (AM) at 121:14-122:21 (Alessandrini); Tr. Mar. 4 (PM) at 8:23-10:20 (Carretta); Tr. Mar. 6 (AM) at 11:8-20 (Massey).

Where utilities operated in a vertical integration structure, states often controlled the fiscal feasibility of a utility's plans to expand its existing generation facilities or to construct new power plants through a regulatory framework. Thus, state regulators could decide whether to allow an increase in the retail rate charged by the utility to end-use customers sufficient to permit the utility to recover the cost of financing the construction of new generation facilities or the development of existing facilities. *See* Tr. Mar. 4 (AM) at 121:14-122:25 (Alessandrini). If the state approved an adequate increase in retail rates, then the utility acquired a financial guarantee that assisted the utility in raising capital for its generation projects. *See id.*

When most electric utilities were vertically integrated one-stop shops with monopolies over designated service territories, the electric energy industry operated predominately as a retail market subject to state regulation without significant intervention from the federal government. *See* Tr. Mar. 4 (AM) at 121:14-122:26 (Alessandrini). In this scenario, the "wholesale market"¹³ regulated by FERC consisted primarily of transactions between vertically integrated utilities whose service territories were physically situated near each other. Tr. Mar. 6 (AM) 13:3-16 (Massey).

¹³ Such as the market was in those days.

b. FERC's Fostering of Wholesale
Energy Markets

In the 1970's and 1980's, significant "[t]echnological improvements . . . made feasible the transmission of electric power over long distances at high voltages." *See Transmission Access*, 225 F.3d at 681 (D.C. Cir. 2000). In response to, among other things, advancements in technology, the wholesale electricity market began to blossom producing, *inter alia*, independent and non-utility owned power plants capable of providing competitively priced generation to the wholesale market. *See id.* With a burgeoning wholesale market came more federal legislation and regulation. For instance, in 1978 Congress passed the Public Utility Regulatory Policies Act ("PURPA"), which called for "a program to improve the wholesale distribution of electric energy" and "the reliability of electric service." 16 U.S.C. § 2601(2). However, the traditional vertically integrated utilities that owned transmission lines were inhibiting the development of this wholesale electricity market by "deny[ing] alternative producers access to their transmission lines on competitive terms and conditions." *Transmission Access*, 225 F.3d at 682.

Congress and FERC took action during the 1990's to facilitate the development of wholesale power markets by "opening up transmission services" and reducing the ability of vertically integrated public utilities to deny customers access to competitively priced electric generation. *See Open Access*, 60 Fed. Reg. at 17,663-64. "[I]n 1992, Congress enacted the Energy Policy Act, which amended sections 211 and 212 of the FPA to authorize FERC to order utilities to

'wheel' power—*i.e.*, transmit power for wholesale sellers of power over the utilities' transmission lines—on a case-by-case basis." *Transmission Access*, 225 F.3d at 682 (citing Energy Policy Act of 1992, Pub. L. No. 102-486, §§ 721-22, 106 Stat. 2776 (codified at 16 U.S.C. §§ 824j-k) (giving non-utility generators the right to have FERC order transmission-owning utilities to interconnect and obtain access to the local utilities' delivery systems)).¹⁴ In 1996, FERC issued Order No. 888, which "ordered the national deregulation of electricity transmission services" and required all public utilities that owned or controlled transmission facilities to provide open access to their transmission lines on the same basis on which they provide access to themselves. *See Sacramento Mun. Util. Dist. v. F.E.R.C.*, 616 F.3d 520, 523, 392 U.S. App. D.C. 339 (D.C. Cir. 2010) (internal quotation marks omitted).

In a further effort to facilitate the development of competitive wholesale power markets and to "increase the efficiency of the electric transmission systems," FERC "strongly encouraged the [electric power] industry to organize itself into Regional Transmission Organizations" ("RTOs"). *See generally Delmarva Power & Light Co.*, 106 FERC ¶ 61,290,

¹⁴ Additionally, in 2005 Congress passed the Energy Policy Act of 2005, which made FERC responsible for system reliability standards for the bulk-power system. *See* Energy Policy Act of 2005, **Pub. L. No. 109-58, § 1211(a), 119 Stat. 594, 941** (codified at 16 U.S.C. § 824o); *Mandatory Reliability Standards for the Bulk-Power System*, 72 Fed. Reg. 16,416 (Apr. 4, 2007). Prior to enactment of the Energy Policy Act, "the nation's bulk-power system depended on participants' voluntary compliance with industry standards." *Alcoa Inc. v. F.E.R.C.*, 564 F.3d 1342, 1344, 385 U.S. App. D.C. 386 (D.C. Cir. 2009).

62,080 (2004); Tr. Mar. 6 (AM) at 48:7-11 (Massey). RTOs are voluntarily formed independent entities that have "consolidate[ed] control of all transmission services in a particular region" and that provide a platform for regional wholesale power markets. *See Braintree Elec. Light Dep't v. F.E.R.C.*, 550 F.3d 6, 8, 384 U.S. App. D.C. 6 (D.C. Cir. 2008); Tr. Mar. 6 (AM) 14:20-15:8, 48:3-11 (Massey); Tr. Mar. 6 (PM) at 5:6-6:1 (Wodyka). FERC explained that such consolidation of control in particular regions was needed because "traditional management of the transmission grid" by vertically integrated electric utilities was inadequate to support the efficient and reliable operation that is needed for the continued development of competitive electricity markets." *Regional Transmission Organizations*, 65 Fed. Reg. 810, 811 (Jan. 6, 2000). According to FERC, despite Order No. 888, opportunities still existed "for transmission owners to unduly discriminate in the operation of their transmission systems so as to favor their own or their affiliates' power marketing activities," which could in turn impede competitive electricity markets. *Id.* at 817.

In 2000, FERC issued Order No. 2000 requiring "utilities that own, operate, or control interstate transmission facilities either to file a proposal to participate in an RTO or to describe their efforts toward joining one." *Me. PUC v. FERC*, 454 F.3d 278, 280, 372 U.S. App. D.C. 82 (D.C. Cir. 2006); 18 C.F.R. § 35.34(a). FERC's stated purpose entailed "promoting efficiency and reliability in the operation and planning of the electric transmission grid and ensuring non-discrimination in the provision of electric transmission services." 18 C.F.R. § 35.34(a). FERC defined the required functions of any formed RTO as including,

inter alia: (1) "employ[ing] a transmission pricing system that will promote efficient use and expansion of transmission and generation facilities" and (2) "ensur[ing] the development and operation of market mechanisms to manage transmission congestion." *Id.* § 35.34(k)(1)-(2). An RTO "manage[s] all the accounting for the energy that's put in and taken out" of the transmission system it oversees, "operate[s] all the different pricing and bidding mechanisms that fall under those wholesale market structures," and operates and plans the regional transmission system within its area. Tr. Mar. 5 (AM) at 126:20-127:18 (Nazarian).

To constitute an RTO, an entity has to satisfy certain requirements and have its proposal approved by FERC. A FERC-approved RTO operates pursuant to tariffs filed with, and approved by, FERC. *See* Tr. Mar. 5 (AM) at 126:22-127:6 (Nazarian). Presently, "[RTOs] exist in about two-thirds of the country" and are thus responsible for "about two-thirds of the load" or power consumption in the United States. Tr. Mar. 6 (AM) at 19:21-20:16 (Massey). As relevant hereto, all of Maryland is part of an RTO formed in 2002, operated and administered by PJM Interconnected, LLC.¹⁵

C. PJM Interconnected, LLC ("PJM")

After issuance of Order No. 2000, PJM organized itself into an RTO, receiving full RTO status from FERC in December 2002. Although PJM operates

¹⁵ PJM (Pennsylvania, Jersey, Maryland) traces its origins back to 1927 when three traditional utilities in Pennsylvania, New Jersey, and Maryland formed a power pool. *See* Tr. Mar. 6 (PM) at 10:9-23, 17:3-9 (Wodyka).

as an RTO under the control of FERC, PJM is a private entity with 750 members or stakeholders, including "parties that own facilities, or buy or sell power in the PJM region." Tr. Mar. 6 (PM) at 11:16-12:3 (Wodyka); *see also* P.606 (PSC Order No. 81423) at 42. PJM's members include "power generators, transmission owners, distributors, marketers, and large consumers." P.606 (PSC Order No. 81423) at 42. States are not members or stakeholders of PJM. *See id.*

The PJM area encompasses the District of Columbia and all or parts of 13 states (collectively the "PJM region").¹⁶ The PJM region, *i.e.*, PJM's geographic footprint, consists of about 18 interconnected transmission zones. A transmission zone is the area or territory in which a particular utility, such as Baltimore Gas & Electric ("BGE"), owns transmission lines or resources. A transmission zone generally mirrors the utility's historical service territory, discussed *supra*. *See* Pls.' Dem. 16. The PJM region has an aggregate population of approximately 60 million people, covers 214,000 square miles, and includes 1,365 electric generators that are connected to PJM's regional transmission system. P.516 (PJM - At a Glance) at 3; Pls.' Dem. 16.

As an RTO:

PJM is responsible for the coordination and operation of the electric power system across

¹⁶ As part of organizing into an RTO, the transmission resources in the PJM region were unified through the voluntary agreement of the owner-utilities of those resources. Logistically, the owner-utilities "transferred operational control of their transmission lines to the PJM Interconnection," but still retained equity ownership. Tr. Mar. 6 (AM) at 14:24-15:8 (Massey).

the entire PJM footprint. They also then design and administer competitive markets to support the operations and activities within the, again, PJM RTO region. And finally they do . . . resource adequacy planning to ensure that appropriate generation and transmission resources are available to serve the load requirements across the PJM region. And they do this in a way that they try to ensure the safety and reliability of all the activities that occur in the PJM footprint.

Tr. Mar. 6 (PM) at 10:25-11:10 (Wodyka).

As a FERC-approved RTO, PJM carries out its responsibilities under FERC's jurisdiction and pursuant to FERC-approved tariffs, including the Open Access Transmission Tariff (the "PJM Tariff"), which governs broadly how PJM operates the regional transmission system in the PJM region. P.516 (PJM - At a Glance) at 4. Additionally, PJM executes its duties through agreements with other parties that are filed with, and approved by, FERC, including the Transmission Owners Agreement ("TOA"), the Reliability Assurance Agreement ("RAA"), and the Operating Agreement.¹⁷ Tr. Mar. 6 (PM) at 25:5-19 (Wodyka); P.516 (PJM - At a Glance) at 4.

¹⁷ The RAA, which is "signed by all the load-serving entities ['LSEs'] in the PJM region," contains provisions related to the amount of capacity resources that must be procured by each LSE. P.516 (PJM - At a Glance) at 4; *see also* Tr. Mar. 6 (PM) at 131:2-132:10 (Wodyka). "The Operating Agreement must be signed by organizations to become members of PJM." P.516 (PJM - At a Glance) at 4. It "establish[es] how PJM operates as a regional transmission organization." *Id.*

1. PJM's Operation of the Bulk-Power System and Transmission Planning

One aspect of PJM's duties as an RTO is the day-to-day operation and maintenance of the bulk electric power system "to ensure reliability of electricity delivery across the [PJM] region." Tr. Mar. 4 (AM) at 37:20-38:16 (Alessandrini). Thus, PJM operates and maintains a regional interconnected transmission system and power grid that spans the PJM footprint, enabling electric energy to be dispatched and delivered to various points across the PJM region. *See PJM Interconnection, LLC*, 132 FERC ¶ 61,173, 61,869-70 (2010); *see also* Tr. Mar. 5 (AM) at 127:7-18 (Nazarian). PJM can be thought of as analogous to an "air traffic controller[] of the power grid" because it "monitors and coordinates . . . electric generators, . . . high-voltage transmission lines, . . . substations," and the flow of electric energy therein on a day-to-day basis. P.516 (PJM - At a Glance) at 1.

PJM is responsible for planning for the regional transmission system it oversees to ensure resource adequacy and future system reliability. To that end, PJM evaluates whether, and to what extent, new transmission resources or improvements to existing transmission resources "are necessary to meet the requirements of the load in the future." Tr. Mar. 4 (AM) at 38:12-16 (Alessandrini). For example, "PJM conducts a long-range Regional Transmission Expansion Planning (RTEP) process that identifies what changes and additional to the grid are needed to ensure reliability and the successful operation of the

wholesale markets."¹⁸ P.516 (PJM - At a Glance) at 2; *see also* Tr. Mar. 6 (AM) at 20:21-24 (Massey). The RTEP includes long-term planning studies that look "into the future as far as 15 years . . . to evaluate the performance of the transmission as well as the generation system that's going to be able to reliably serve load in the long run." Tr. Mar. 6 (PM) at 22:10-21 (Wodyka).

2. PJM-Administered Wholesale Electricity Markets

In addition to managing the physical flow of electric energy across the interstate transmission system within the PJM region and planning for improvements to ensure infrastructure reliability, PJM administers three wholesale markets¹⁹ in which electric energy products are sold by capacity resources to PJM and then resold by PJM to Load Serving

¹⁸ PJM does not "own" the transmission resources within the PJM region. Instead, it manages and operates those resources through an interconnected bulk-power system. *See* Tr. Mar. 6 (AM) at 15:5-8 (Massey). As a result of the TOA, a FERC-filed agreement, the transmission resource owners who wish to be part of the PJM region are obligated to perform certain transmission projects identified by PJM in its RTEP. All utilities that own transmission resources within the PJM region and wish to be part of the RTO must enter into the TOA. *See* P.516 (PJM - At a Glance) at 4.

¹⁹ As explained *supra*, the FPA charges FERC with the regulation of interstate wholesale sales of electricity. *See* 16 U.S.C. § 824(a). Pursuant to the FPA, FERC has the power to set and regulate wholesale electric energy "rates and charges," subject to the requirement that "such rates or charges shall be just and reasonable." *Id.* § 824d(a); *Miss. Power & Light Co. v. Miss. ex rel. Moore*, 487 U.S. 354, 373, 108 S. Ct. 2428, 101 L. Ed. 2d 322 (1988). It is pursuant to this power that FERC authorizes PJM to run the PJM wholesale markets, setting the price for wholesale electricity sales through market-based auctions.

Entities ("LSEs"²⁰) according to prices set in each of the respective markets. Only two of these markets, the energy market and the capacity market, are pertinent to the instant case. The third wholesale market, the ancillary services market,²¹ is not. Therefore, the term "PJM Markets" as used herein refers to the energy and capacity markets collectively and excludes the ancillary services market.

The PJM Markets are run pursuant to FERC-approved tariffs and are the mechanisms that PJM uses to set or determine the price at which energy and capacity are to be bought and sold within its territory. Transactions on the PJM Markets are not the only permissible FERC-regulated wholesale transactions. Private parties can buy and sell wholesale energy, capacity, and ancillary services outside the PJM Markets and thus outside the prices set by PJM in such markets. *See* OPC's Post-Trial Br. [Document 140] at 21. For instance, subject to FERC rules, a capacity resource, such as a generation facility, may sell energy and capacity directly to an LSE through a bilateral contract at a price determined by the parties, not set by PJM through its market-based mechanisms. *See* Tr. Mar. 5 (AM) at 16:21-17:9 (Nazarian).

Irrespective of the transactional means used by an LSE to procure energy for resale to end-use

²⁰ "LSE" refers to an entity that serves an energy demand by purchasing wholesale energy for purposes of resale to end-use customers who are actually using and consuming that energy, such as homes and businesses. Tr. Mar. 5 (AM) at 48:22-51:21 (Nazarian); Tr. Mar. 11 (AM) at 41:1-7 (Roach).

²¹ "Ancillary Service Markets are markets for so-called reliability services that are necessary in realtime [sic] to keep the system perfectly in balance." Tr. Mar. 6 (AM) at 18:14-16 (Massey).

customers, the costs incurred by the LSE for wholesale purchases are passed on to end-use customers through the retail rate charged by the LSE. *See Miss. Power & Light Co. v. Miss. ex rel. Moore*, 487 U.S. 354, 372, 108 S. Ct. 2428, 101 L. Ed. 2d 322 (1988) ("States may not bar regulated utilities from passing through to retail consumers FERC-mandated wholesale rates."). Thus, an increase in wholesale rates tends to result in a corresponding increase in retail rates.

a. PJM Wholesale Energy Market

The PJM wholesale energy market is a market in which wholesale electric energy generated by power plants is bought and sold to meet present load demand within the PJM region (the "PJM Energy Market"). In the PJM Energy

Market, generation resources²² sell energy to PJM that is generated and delivered into PJM's interconnected power grid by the generator. LSEs then purchase that energy from PJM to deliver and resell it to end-use customers, thereby satisfying load or customer demand for electricity at any point in time. Tr. Mar. 4 (AM) at 23:16-24, 37:20-38:6 (Alessandrini). Because generators sell their energy to PJM, and LSEs purchase that energy from PJM and receive delivery through PJM's interstate grids and transmission systems, there is no direct sale of energy from a generator to a particular LSE. Thus, the PJM Energy Market is composed of two separate sub-markets — day-ahead and real-time. In the day-ahead sub-market, generation facilities bid into an energy market

²² The term "generation resources" refers to resources or facilities within PJM that generate electric energy such as power plants.

for energy delivery in the next twenty-four hours; in the real-time sub-market, generation resources bid into a market for delivery in the next hour. *See* Tr. Mar. 6 (AM) at 18:4-19:12 (Massey).

With respect to setting the price of energy in the PJM Energy Market, PJM uses a system called "Locational Marginal Pricing [(LMP)], which is the economic dispatch and price setting of energy." Tr. Mar. 4 (AM) at 24:22-24 (Alessandrini). The concept of LMP is that it "reflects the value of the energy at the specific location and time it is delivered" and "takes into account the effect of actual operating conditions on the transmission system in determining the price of electricity at different locations in the PJM territory." P.516 (PJM - At a Glance) at 11. LMP may result in different prices for energy in different zones or locations within the PJM region. These "[e]nergy prices vary across the PJM footprint according to a number of factors that differentiate energy prices at different points within the system." P.391 (2007 PSC Interim Report) at 17; *see also* Tr. Mar. 4 (AM) at 114:11-25 (Alessandrini). LMP for energy is "volatile" because "it depends on the value of that energy, where it's produced, at the time it's produced, and what the weather and other conditions are."²³ Tr. Mar. 5 (PM) at 65:21-66:6 (Nazarian).

²³ FERC describes the LMP as:

a bid-based, security-constrained economic dispatch and unit commitment model to determine real-time and next-day LMP for electricity, which reflect the value of energy at a specific location and time it is delivered. If the lowest-priced electricity can reach all locations, prices differ at the approximately 8,000 pricing nodes on the transmission system by marginal losses only. When transmission

Concerning the prices received by power plants for energy sold into the PJM Energy Market, generation facilities across the PJM region have the ability to bid electric energy into the PJM Energy Market at a bid price. PJM, as the operator of the power grid, dispatches that energy to meet load demand by taking generation bids in ascending order of cost (*i.e.*, beginning with the lowest cost generation and ending with the highest cost generation) "until the electric load is satisfied." P.391 (2007 PSC Interim Report) at 17. The highest cost generation (that is, the cost at the point at which the load demand is satisfied) "set[s] the clearing price for all [generators] operating in the zone," and the resulting price is the LMP received by those generation resources. *Id.*

One factor that influences LMPs significantly is the extent, or lack, of transmission capability into a state or region [because w]hen transmission lines are 'congested' or 'constrained,' *i.e.*, they cannot carry the lower cost electricity to meet demand, PJM must dispatch more expensive generation located in the constrained zone, which increases LMPs.

Id. That is, if lower cost generation cannot be dispatched to serve load in a particular zone due to limitations in transporting the energy, PJM "skips" it and dispatches higher cost generation, which results in "congestion costs" and higher LMPs paid by the purchasing LSE and corresponding increases in the

congestion prevents the free flow of energy, more expensive electricity is ordered to meet that demand, and the LMP is higher in congested areas.

PJM Interconnection, LLC, 132 FERC ¶ 61173, 61,870 (2010).

retail energy rates for the end-use customers served by the LSE. *See id.* at 17-18; *see also* Tr. Mar. 4 (AM) at 116:6-118:1 (Alessandrini); Tr. Mar. 8 (AM) at 93:20-94:19 (Willig). Thus, higher LMPs provide higher revenues to generation facilities.

According to PJM, the LMP pricing model:

give[s] price signals that encourage new generation sources to locate in areas where they will receive higher prices. It signals large new users to locate where they can buy lower-cost power. It also encourages the construction of new transmission facilities in areas where congestion is common, in order to reduce the financial impact of congestion on electricity prices.

P.516 (PJM - At a Glance) at 11; *see also* Tr. Mar. 8 (AM) at 94:16-19 (Willig) ("If the LMPs are different at . . . two points, it means there's . . . differential value to resources located at those two points."). The Maryland Public Service Commission ("PSC") has opined that LMPs do not work as intended, in part because they "have not yielded adequate new generation inside Maryland's transmission constraints." P.391 (2007 PSC Interim Report) at 18-19. The PSC noted that as a "result[,] Marylanders have paid and will continue to pay higher prices than others in the PJM region due to our higher LMPs, but no new material generation has been built in recent years." *Id.* at 19.

b. PJM Wholesale Capacity Market

PJM administers a wholesale capacity market (the "PJM Capacity Market"), which is a forward market where a product called "capacity" is sold by a capacity resource to PJM and then resold by PJM to LSEs. Capacity resources include generators that will increase the energy supply and users that will reduce the energy demand. LSEs purchase capacity to meet their capacity obligations under certain FERC-filed agreements with PJM. As in the PJM Energy Market, capacity resources sell capacity to PJM; there is no direct sale of capacity from a capacity resource to a particular LSE.

PJM sets the price for capacity bought and sold in the PJM Capacity Market through application of the Reliability Pricing Model ("RPM"). The RPM establishes an annual Base Residual Auction ("BRA") through which PJM procures capacity from capacity resources "for a particular 'power year'" three years after the auction. That is, capacity bid in the 2012 BRA will be made available for the 2015/2016 power year. The BRA determines the market clearing price, which is the price that PJM will pay for all capacity that clears the BRA. P.391 (2007 PSC Interim Report) at 19. Generally speaking, increases in capacity prices lead to increases in the retail rates paid by end-use customers.

(i) "Capacity"

"Capacity," as used herein to refer to a product,²⁴ is a standby commitment made by a

²⁴ Throughout the trial, witnesses referred to capacity as both a product bought and sold in the PJM Capacity Market and, more generally, as the mega-watt capability of existing resources, *i.e.*,

capacity resource to either produce electric energy or to consume less electric energy at a time in the future when called upon by PJM to do so. *See Conn. Dep't of Pub. Util. Control v. F.E.R.C.*, 569 F.3d 477, 479, 386 U.S. App. D.C. 320 (D.C. Cir. 2009). "In a capacity market, in contrast to a wholesale energy market, an electricity provider purchases from a generator an option to buy a quantity of energy, rather than purchasing the energy itself." *NRG Power Mktg., LLC v. Me. PUC*, 558 U.S. 165, 168, 130 S. Ct. 693, 175 L. Ed. 2d 642 (2010). Accordingly, the purchase of capacity is the purchase of a capacity resource's *availability* either to supply energy into PJM's interconnected transmission grid or to reduce the demand for electric energy on the transmission system at some defined future time. Tr. Mar. 8 (AM) at 11:11-12:21 (Willig). A purchase of capacity is not a purchase of actual electric energy, but is instead a purchase of a resource capable of producing, or reducing demand for, electric energy in the transmission system when requested.²⁵ *Id.*

Capacity resources take various forms. The most typical form is generation capacity, which is a generation resource's commitment to generate actual electric energy into the transmission system operated by PJM that can then be dispatched to serve load at some future point, if and when called upon to do so. *See*

how much electric energy an existing generation facility (or facilities) is capable of producing at any point in time. Herein, the Court refers to capacity as the product.

²⁵ Therefore, a capacity resource that clears the BRA is paid by PJM for that capacity irrespective of whether PJM actually calls upon the resource in the future to generate actual energy into the transmission system or to refrain from doing so.

id. at 11:11-18. Any type of power plant (*e.g.*, nuclear, natural gas, coal, wind farm, solar) is a generation resource. Capacity resources can also take the form of demand reduction or energy efficient programs. Unlike generation resources that take place on the energy supply side of the market, "demand response" programs occur on the energy demand side of the market and represent a commitment by an LSE to reduce the demand for energy on the transmission system when called upon to do so. The ability of an LSE to reduce demand generally involves an agreement by end-use customers to reduce demand during peak periods at the request of the LSE in return for compensation. Under the RPM, generation and demand reduction resources bid into the BRA as "capacity."

"Capacity is an important concept in the energy market due to the substantial deviations between maximum energy demand and minimum energy demand." *PPL Energyplus, LLC v. Solomon*, No. 11-745, 2012 U.S. Dist. LEXIS 140335, 2012 WL 4506528, at *1 (D.N.J. Sept. 28, 2012) (citing U.S. Dep't of Energy, *A Primer on Electric Utilities, Deregulation, and Restructuring of U.S. Electricity Markets*, at A.4 (2002), <http://www1.eere.energy.gov/femp/pdfs/primer.pdf>)). The purchase and sale of capacity ensures that at any given time there are adequate resources capable of supplying energy to serve forecasted load, as well as a reserve margin to meet exigent circumstances, such as an unexpectedly high demand or the failure of a generator. *See* Tr. Mar. 8 (AM) at 11:4-12:7 (Willig). As explained by Professor Willig:

If there is capacity in the market, and there is need for the energy, then that capacity is utilized, the physical cast is turned on. However, sometimes capacity is available, but it's not actually used. If the capacity isn't there, then it can't be used, but if it's there, then it could be used if it's needed.

Id. at 12:8-14.

In addition to the general benefits of ensuring an adequate amount of capacity to satisfy load demand, a capacity market benefits capacity resources because capacity sales are a source of revenue. In particular, a generator that clears capacity in the BRA run by PJM in a year (for example, 2012) will have a fixed stream of revenue for one-year period three years in the future (for example, from 2015 to 2016). This fixed stream of revenue is significant because it can enable the generator to obtain current financing essential to its ability to deliver capacity in the future.

(ii) Capacity
Obligations
Within the
PJM Region

Pursuant to the RAA with PJM, each LSE must satisfy certain "Capacity Obligations."²⁶ *See* P.76 (PJM RAA Agt.) at 34. The RAA's stated purpose is "to ensure that adequate Capacity Resources . . . will be planned and made available to provide reliable service to loads within the PJM Region." *Id.* at 23. To effect

²⁶ The RAA requires any LSE within the PJM region to become and remain a party to the agreement.

this purpose, the RAA sets forth a comprehensive process pursuant to which PJM determines the total amount of generating capacity needed within the PJM region and, based on that calculation, creates capacity obligations for each LSE. *See id.* at 90-115. To determine the total amount of capacity needed in a future delivery year, PJM calculates the "amount of capacity needed to meet the forecasted load" and adds to it "reserves adequate to provide for the unavailability of Generation Capacity Resources, load forecasting uncertainty, and planned and maintenance outages." *See id.* at 34. The reserve margin is computed as a percentage and applied to the load forecasts to determine the total amount of capacity required to serve reliably the forecasted load in the PJM region. Tr. Mar. 6 (PM) at 33:7-34:17 (Wodyka).

Once PJM determines the total amount of capacity needed, it divides responsibility for procuring that amount among the LSEs within the PJM region. *Id.* at 25:24-32:9. Capacity obligations can be satisfied by generation or demand resources, as discussed *infra*. An LSE can satisfy its capacity obligations by a combination of the following actions:

1. Designating its own generation or demand resources;
2. Entering into a bilateral contract with a capacity resource with the parties to the agreement determining the price for capacity; and/or
3. Being assigned capacity in the BRA, PJM's annual capacity auction, which determines the

price for capacity through application of the RPM.P.516 (PJM - At a Glance) at 9-10.

In lieu of the above actions, an LSE may elect the Fixed Resource Requirement ("FRR") under the PJM Tariff. Pursuant to the FRR, the LSE, in essence, removes its load or energy demand from PJM. To use the FRR option, the LSE must demonstrate that it can satisfy its share of the total capacity obligation through individual bilateral agreements with capacity resources or through the generation of electricity from its own facilities. Tr. Mar. 4 (AM) at 82:2-20, 124:22-125:15 (Alessandrini); Tr. Mar. 6 (PM) at 16:19-24 (Wodyka).

(iii) PJM's FERC-
approved RPM

In 2006, FERC adopted and approved PJM's RPM for operating a wholesale capacity market and implementing a

competitive capacity auction process. The RPM sets forth the terms and conditions governing the sale and delivery of capacity through the annual BRA including the manner by which capacity is offered into the auction, how the clearing price of capacity is determined, how capacity resources are paid for cleared capacity, and the penalties for failure to deliver capacity that clears the auction. Tr. Mar. 4 (AM) at 32:12-13, 37:23-38:2 (Alessandrini); Tr. Mar. 4 (PM) at 8:16-17 (Carretta); Tr. Mar. 4 (PM) at 104:25-106:16 (Cudwadie). Ultimately, the RPM encompasses the method by which PJM sets the price of capacity that is

offered into and clears the BRA.²⁷ In each BRA, PJM seeks to procure a target capacity reserve level for the RTO in a least cost manner while also taking into account locational constraints.

PJM is the buyer in the BRA, and the capacity resource is the seller. To sell successfully capacity to PJM in the BRA, a capacity resource must bid or offer an amount of capacity at a price, and the bid must be partially or fully selected in or clear the BRA. When a capacity bid clears the BRA, the seller becomes obligated to sell the cleared amount of capacity to PJM at the market clearing price. The market clearing price is determined in reference to all of the capacity bids (and the corresponding bid prices) submitted in the BRA. *See* Tr. Mar. 8 (AM) at 16:22-17:5 (Willig). As discussed in more detail *infra*, the market clearing price is the bid price at which demand, as determined by PJM, is fully supplied. All resources that offer capacity in the BRA at or below the market clearing price generally will clear the BRA and, as a result, receive the market clearing price for the offered capacity. *See id.* at 16:9-17:5.

(1) Bidding in
the BRA

To bid into the BRA, a capacity resource must submit an offer consisting of: (1) an amount of capacity the bidder is willing to sell for one year to be delivered

²⁷ As discussed *supra*, a capacity resource may sell its capacity outside of the BRA, meaning at a price that is not set pursuant to the RPM. Additionally, even if a generation resource does not clear capacity in the BRA, that resource may still sell its electric energy in the PJM Energy Market or in some other FERC-approved manner. *See* Tr. Mar. 8 (AM) at 13:21-14:2 (Willig).

beginning three years after the BRA and (2) a bid price for the amount of capacity offered. *Id.* at 29:9-11. Capacity is measured and offered in megawatt-days ("MW-day"), and the bid price is a dollar amount per MW-day ("\$/MW-day"). *See id.* at 29:9-12. For instance, a power plant that bids 100 MW-days of capacity at \$25 into the 2012 BRA, is offering its availability to deliver up to 100 MW of electric energy each day for one year beginning in 2015 (three years after the auction), at a minimum price of \$25/MW-day. *See generally* Tr. Mar. 7 (AM) at 138:19-139:9 (Knight). Hence, if the power plant's bid clears the BRA in its entirety, the power plant will receive that year's clearing price - which may be more than \$25/MW-day - for 100 MW-days of capacity during the delivery year beginning in 2015.

A capacity resource generally may select whatever price it wishes in \$/MW-day when bidding capacity into the BRA, subject only to the Minimum Offer Price Rule ("MOPR") and a bid ceiling or cap. For example, if a generator is considering an uprate to an existing generation resource that would increase the amount of energy it can output into PJM's interconnected grid, thus increasing its capacity, the generator may price its bid into the BRA at an amount sufficient to recover the uprate costs not gained back through anticipated energy sale revenue. *See id.* at 129:21-131:5. If the generator clears the BRA at that price, it will go forward with the uprate, but if it does not clear, it will not. *See id.* at 129:9-130:7; *see also* Tr. Mar. 8 (AM) at 15:15-17:5 (Willig) (describing a "well-functioning" capacity market as discouraging uneconomic development). However, bidding or bid prices are not necessarily connected directly to an

immediate development decision. They may instead be chosen by virtue of the view that getting anything for capacity is better than nothing. That is, an existing capacity resource not subject to the MOPR can bid into the BRA at \$0/MW-day. This is referred to as "price taking." *See* Tr. Mar. 7 (PM) at 68:3-19 (Knight). PJM has reported that in some BRAs, 80% of the participants bid zero. *Id.* at 68:19. A bid of \$0/MW-day ensures that the offered capacity will clear the BRA and will yield a payment more than zero, unless every bidder bids zero. A price taker will accept whatever the market clearing price happens to be in that BRA.²⁸ *See* Mar. 7 (AM) at 140:23-41:23 (Knight).

New capacity resources bidding into the BRA are subject to the MOPR, found in the PJM Tariff. The MOPR has been in place since establishment of the RPM in 2006, but its form has varied. *See id.* at 91:20-22. In essence, the MOPR

subjects new generation resources to a minimum bid amount "to ensure that . . . new plant generating resources . . . bid[] their competitive cost-based fixed nominal net cost of new entry if it was to rely purely on PJM market revenues alone," and thereby precludes new generators from acting as price takers. *Id.* at 92:1-4.

²⁸ Professor Willig explained that a capacity bid of zero by an existing generation facility may well reflect its costs on the capacity side for keeping the generation facility going during the future delivery year because once the plant is built and does not need new investment "the forward-looking incremental cost of the capital is not high, it could be zero." Tr. Mar. 8 (AM) at 21:9-18 (Willig).

(2) Determining
the Market
Clearing
Price and
Clearing
Capacity in
the BRA

After all capacity offers are submitted into the BRA, PJM must determine: (1) which offers will successfully sell into, or clear, the BRA and (2) the single price that PJM will pay for the cleared capacity (the "market clearing price"). Broadly speaking, PJM makes these determinations by taking the capacity bids, in ascending price order, until a pre-determined capacity demand amount is fulfilled. The price of the bid that fulfills the demand amount sets the market clearing price for everyone. Every bid at, or below, the market clearing price clears the BRA, and every bid above the market clearing price does not.²⁹

Explanation of the RPM framework and establishment of a market clearing price in any given BRA can be illustrated by the simplified hypothetical provided by Plaintiffs' witnesses:

1. In a BRA, PJM receives a number of capacity bids at a variety of prices and amounts. The bids are submitted in a sealed fashion so that initially, only PJM knows what each capacity resource bid into the BRA.

²⁹ If there happens to be too much capacity bid at the market clearing price, a bid at that price may not entirely, or even at all, clear the BRA.

2. Every capacity bid submitted is stacked in ascending order of price, lowest priced bid at the bottom and highest priced bid at the top. Once the bids are stacked in price order, one can tell the total MW-Days available at each bid price by adding up the MW-day amount of each bid preceding any particular price:

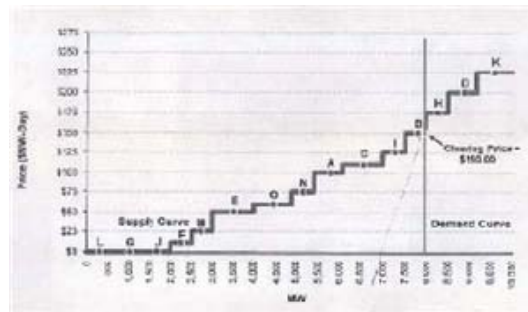
Generator	MW-Bid	Price	Total MW-Days Available at Price
L	500	\$0	500
G	700	\$0	1.200
J	800	\$0	2.000
F	500	\$10	2.500
M	500	\$25	3.000
		Etc.	

3. A graph can be created in which, in ascending order, the x-axis is MW and the y-axis is Price (\$MW-Day). PJM uses the bids stacked in price order to create a "supply curve" and plots that supply curve on the graph. With just the supply curve plotted, one can see that at the price of \$25/MW-day on the y-axis, the BRA generated bids totaling 3,000 MW, represented on the x-axis. Stated differently, there are 3,000 MW of capacity bid into the BRA willing to accept \$25/MW-day or less for the capacity.

4. Next, PJM configures a Variable Resource Requirement curve ("VRR Curve" or "demand curve"), representing the total amount of capacity in MW that PJM has determined

must be procured through the BRA to adequately supply forecasted load within the PJM region for the one-year period three years following the BRA.

5. The demand curve, generally a vertical line, is plotted on the graph at the appropriate amount of MW on the x-axis. The demand curve then intersects with the supply curve of stacked bids when the aggregate amount of capacity offered is equal to the demand in MW established by PJM. The point at which the supply curve intersects with the demand curve is the market clearing price and the market clearing amount of capacity. This is illustrated by the demonstrative submitted by Plaintiffs:



6. As illustrated above, if the demand is determined to be 8,000 MW, the market clearing price would be \$150/MW-day. This means that all capacity offered at or below that price clears the BRA. Every bidder whose capacity cleared the BRA will be paid the clearing price of \$150/MW-day. As a result, even the generators that bid \$0 for their capacity will receive \$150/MW-day.

Tr. Mar. 8 (AM) at 28:24-38:24 (Willig). If a generation resource successfully clears capacity in the BRA, PJM rules require the generator to offer the electric energy generated in the PJM Energy Market.

Since the market clearing price in any BRA is entirely dependent on the bid prices received by PJM from capacity resources (again, which for existing resources can be \$0), the price is volatile and difficult - if not impossible - to predict with a reasonable degree of reliability. *See* Tr. Mar. 8 (AM) at 76:19-22 (Willig); Tr. Mar. 11 (AM) at 32:8-12 (Roach); Tr. Mar. 11 (PM) at 101:20-102:1 (Kahal). The following reflects six years of BRA clearing prices:

Delivery Year	Market Clearing Price		
	PJM (charted as "RTO")	SWMAAC Southwest Mid- Atlantic Area Council	MAAC Mid-Atlantic Area Council
2007/2008	\$40.80	\$188.54	\$40.80
2008/2009	\$111.92	\$210.11	\$111.92
2009/2010	\$102.04	\$237.33	\$191.32
2010/2011	\$174.29	\$174.29	\$174.29
2011/2012	\$110.00	\$110.00	\$110.00
2012/2013	\$16.46	\$133.37	\$133.37

See D.34 (2015/2016 RPM BRA Results).

(3) Locational
Deliverability
Areas
("LDAs") and
Price
Separation in
the BRA

In theory, the BRA could establish one uniform market clearing price based on one model supply and demand curve for the entire PJM region. However, in practice the process is significantly more complicated. When procuring capacity through the BRA, PJM

recognizes that not all locations are equally situated. Transmission constraints exist that make importing energy and capacity into certain areas within the PJM region more difficult than importing into other areas. A "transmission constraint" is a limitation on the ability of the transmission system or infrastructure effectively and reliably to transport electric energy from one point to another point within the PJM region. *See* Tr. Mar. 8 (AM) at 94:6-95:8 (Willig). PJM employs several indicators and standards to alert whether and where transmission constraints exist and the consequences, affects, and severity of any such constraints.

In the context of the PJM Capacity Market, to take locational transmission constraints into account, PJM models certain areas as Locational Deliverability Areas ("LDAs") for purposes of the BRA.³⁰ An area or zone is modeled as an LDA if "the amount of transmission import capability into [that] area" from the rest of the RTO (the Capacity Emergency Transport Limit ("CETL")) falls below a target ratio with the level of capacity needed to import power to meet reliability requirements under the Capacity Emergency Transfer Objective ("CETO").³¹ P.42 (2011 Boston Pacific Evaluation of Draft RFP) at 16. "The lower the ratio, the 'tighter' supply line into the area. If the CETL/CETO ratio is less than 1.15, then the area must be modeled as a separate zone in RPM." *Id.* Being modeled as an LDA neither precludes generators outside the LDA from supplying electric energy into

³⁰ There can be transmission constraints between any two points within the PJM region for a variety of reasons not just with respect to energy being dispatched into an LDA.

³¹ The CETO is an import capability required by an area to comply with a Transmission Risk of Loss of Load Event of 1 in 25 years.

the LDA, nor necessarily affects the ability of generators outside the LDA to enter into bilateral agreements for energy and/or capacity with LSEs within an LDA. *See* Tr. Mar. 4 (PM) at 115:16-117:6 (Cudwadie).

Once an area or zone is modeled as an LDA, it functions as a separate capacity market with a separate supply and demand curve and a separate market clearing price from the balance of the PJM footprint. That is, there are "separate supply stacks and separate reliability needs . . . considered by the PJM" in the BRA process for an LDA. *See* Tr. Mar. 8 (AM) at 93:15-19 (Willig). Since LDAs function as a separate capacity market for purposes of the BRA, the market clearing price for an LDA may be different from the price for the rest of the RTO. When the market clearing price for an LDA is different from the balance of the PJM footprint the phenomenon is referred to as "price separation." *See* Tr. Mar. 4 (PM) at 113:23-114:1 (Cudwadie).

Price separation occurs because each LDA has a separate target capacity reserve level and a maximum limit on the amount of capacity that it can import from resources located outside of the LDA. *See id.* at 114:1-115:15, 119:2-122:23. As a result of the import limitation, a lower-priced capacity resource located outside the LDA may be "skipped" or excluded from the stack of bids used by PJM to create the supply curve. This occurs because the LDA has reached its import limit so that even though the outside resource is the next bid in price order PJM will not select it to meet the capacity needs within the LDA. *See* Tr. Mar. 8 (AM) at 94:2-22 (Willig). Where lower-cost capacity

resources outside of the LDA are excluded due to the import limitation, PJM must then select more expensive capacity resources located within the LDA to fulfill the LDA's capacity target level. *See* Tr. Mar. 4 (PM) at 113:23-115:15, 119:8-122:15 (Cudwadie). When an LDA reaches its import limitation before the LDA's capacity needs are met and PJM is forced to select more expensive capacity bids from within the LDA, the LDA's market clearing price will separate from the rest of PJM because the last capacity bid selected - a more expensive resource within the LDA - sets the LDA price at a level higher than the RTO clearing price. *See id.*

Within the PJM region, the Mid-Atlantic Area Council ("MAAC") is modeled as an LDA. The Southwest Mid-Atlantic Area Council ("SWMAAC") is a sub-LDA within MAAC. *See* Tr. Mar. 4 (PM) at 27:6-10 (Carretta). SWMAAC includes part of Maryland and the District of Columbia; about 98% of SWMAAC is within Maryland. Tr. Mar. 6 (AM) at 37:15-18 (Massey). SWMAAC includes the transmission systems of BGE and Pepco. The portions of Maryland not in SWMAAC are in the Eastern Mid-Atlantic Area Council ("EMAAC"), a sub-LDA that includes parts of Delaware, Pennsylvania, and New Jersey. Tr. Mar. 5, 2013 (AM) at 106:15-18 (Nazarian). In the BRA conducted for the 2015/2016 delivery year, the market clearing price in all of MAAC (including EMAAC and SWMAAC) was \$167.46/MW-day, and the market clearing price in the rest of PJM was \$136.00/MW-day. D.34 (2015/2016 RPM BRA Results). For the 2010/2011, 2011/2012, 2012/2013, and 2015/2016 delivery years, the market clearing price for SWMAAC did not separate from the rest of MAAC, even in years

when MAAC separated from the balance of the PJM footprint. *Id.*

(iv) Price Signals

FERC has described the PJM Capacity Market as "provid[ing] long-term price signals to attract needed investment in the PJM region through a competitive auction process three years in advance." *PJM Interconnection, LLC*, 132 FERC ¶ 61,173, 61,870 (2010). PJM identifies the RPM system as a means of providing "incentives that are designed to stimulate investment both in maintaining existing generation and in encouraging the development of new sources of capacity - not just generating plants, but demand response and energy efficiency programs as well." P.516 (PJM - At a Glance) at 8. Plaintiffs submitted expert testimony to explain in an economic sense how the capacity prices set in the PJM Capacity Market through the RPM send price signals to market participants capable of inducing investment in generation development. Plaintiff's expert, Professor Willig, opined that higher capacity prices in an LDA encourage projects to be developed in that area because the RPM³² "reflect[s] the locational impact on need and on cost" of electric energy. Tr. Mar. 8 (AM) at 95:9-24, 99:5-20 (Willig). According to Professor Willig, because the RPM is configured to create a positive correlation between transmission constraint and price, higher prices indicate greater difficulties in importing

³² According to Professor Willig, the same principles apply to the LMP in the PJM Energy Market because the LMP increases to the extent there is "congestion" or some other constraint as to the transmission system in dispatching electric energy to a particular location.

energy into an LDA, which signals to the market a need for capacity development and/or signals to PJM a need for transmission planning. *Id.* at 98:6-99:20. This is because constraint on the transmission system can be eased by additional capacity resources in the right location and/or new or expanded transmission lines to that location. *Id.* As Professor Willig concluded, a decrease in constraint, either by additional capacity or by a transmission-related solution, "will tend to bring pricing closer, because when prices are closer, it's because there's less constraints between their areas." *Id.* at 99:5-9.

The PSC has stated that the RPM "ha[s] failed to attract new generation in [Maryland] to mitigate these longer-term reliability concerns," and that "RPM's signal remains unable to anchor the financing new generation development requires." P.2 (2011 RFP) at 3.

D. Maryland's Regulation of Electric Energy

Maryland has, as have various other states, abandoned the vertical integration model of electric energy regulation.

1. Pre-Restructuring Vertical Integration

Before the restructuring of 1999, Maryland's electric utilities (such as BGE and Pepco) were vertically integrated and predominately regulated by the Maryland PSC, except insofar as the utilities engaged in wholesale transactions, which were regulated by FERC. Tr. Mar. 5 (AM) at 40:23-41:18 (Nazarian). Even then, however, Maryland's utilities

imported approximately 30% of the electric energy resold to end-use customers from generation resources outside the state in wholesale transactions. *Id.* at 50:6-51:24.

Under the vertically integrated structure, the PSC generally retained authority to "regulate[] the distribution, transmission and generation rates" that Maryland utilities charged to rate payers. P.606 (PSC Order No. 81423) at 33. The rates charged by Maryland utilities to end-use customers were determined by the PSC through cost-of-service principles. That is, the PSC set rates that "w[ould] result in an operating income to the [utility] that yields, after reasonable deduction for . . . expenses and reserves, a reasonable return on the fair value of the [utility]'s property used and useful in providing service to the public." *Id.* at 33-34; P.391 (2007 PSC Interim Report) at 10. Because the Maryland utilities primarily sold electric energy generated by their own power plants to users in retail transactions, the PSC effectively determined - through its rate making authority - whether new or additional generation resources would be built in Maryland. Generation development by a Maryland utility would be financed through rate increases, which required approval by the PSC. *See* P.162 (2009 Nazarian Presentation) at slide 10. Additionally, in pre-restructured Maryland, ratepayers had no choice as to their electric utility supplier; they purchased electricity from whichever utility's service territory in which they were located. *See* Tr. Mar. 5 (AM) at 43:12-23, 44:21-24 (Nazarian).

2. 1999 Maryland Restructures

In 1999, the Maryland General Assembly passed the Electric Customer Choice and Competition Act (the "1999 Act"), which restructured, or deregulated, Maryland's electric energy market. *See* Md. Code Ann., Pub. Util. § 7-504, *et seq.* "The premise of the 1999 Act was that electric consumers would benefit more from a competitive market for their electricity rather than being captive to a utility that had a monopoly on their electricity service." P.606 (PSC Order No. 81423) at 36. The 1999 Act put this premise into effect by removing generating assets from the control and ownership of the Maryland utilities and requiring the utilities to provide Standard Offer Service, discussed in more detail *infra*, to their customers.

Post-restructuring, the PSC remains an agency empowered by the State of Maryland to assure "safe, adequate, reasonable, and proper [electric] service." Md. Code Ann., Pub. Util. § 5-101(a). In addition to regulating the procurement of electric energy by the Maryland Electric Distribution Companies (the "EDCs" or "Maryland EDCs") for Maryland residents, the PSC administers a streamlined "process by which transmission and generating facilities are sited and . . . approve[d]" for construction in Maryland. P.606 (PSC Order No. 81423) at 42. However, the PSC does not evaluate the need for new generation stations in Maryland. Rather, that need is determined by the marketplace. Tr. Mar. 5 (AM) at 58:18-59:5 (Nazarian) (noting the "residual authority [of the PSC] to order new generation in anticipation of a long-term demand in the state").

a. Separation of Generation
Assets

The 1999 Act separated the Maryland "utilities' [Maryland-located] generating assets from their distribution and transmission functions" by transferring ownership of those generation assets to other companies that owned and operated the power plants. P.391 (2007 PSC Interim Report) at 10; *see also* Md. Code Ann., Pub. Util. § 7-504(3); Tr. Mar. 5 (AM) at 42:13-18 (Nazarian). This separation effectively forced Maryland utilities, now referred to as EDCs, to purchase electric energy at wholesale, thereby engaging in federally regulated energy transactions. Since the EDCs no longer owned generation assets or power plants,³³ "electricity previously subject to traditional rate-of-return regulation (in which the PSC set the utility's profit through a state regulatory proceeding) would now be purchased by local [EDCs] in the federally regulated wholesale electricity market" for purposes of re-selling that electricity to end-use customers. P.391 (2007 PSC Interim Report) at 10. Consequently, Maryland EDCs now rely on the wholesale energy market regulated by FERC to purchase the electric energy that they ultimately sell to end-use customers. *See* P.606 (PSC Order No. 81423) at 37. By virtue of having to purchase energy at wholesale, the Maryland EDCs (and correspondingly Maryland ratepayers) are financially affected by wholesale prices set by the PJM Markets.

b. Standard Offer Service

³³ Post-restructuring, Maryland's EDCs still own their transmission and distribution systems. *See* Tr. Mar. 5 (AM) at 42:13-43:15 (Nazarian).

Maryland's restructuring not only required local utilities to divest themselves of ownership of power-generating facilities, but also allowed Maryland electricity consumers to choose their electric energy supplier. Electricity customers in Maryland have a choice to buy electric service from the default local utility or from an alternative supplier. Tr. Mar. 5 (AM) at 45:3-47:19 (Nazarian). The sale of electricity supplied by the default local utility is called Standard Offer Service ("SOS"). The PSC regulates the SOS procurement process, which is conducted by the Maryland EDCs, and the rate the EDCs may charge customers for SOS. *See id.* at 44:2-45:23. If a Maryland customer chooses an alternative supplier, that transaction is a matter of contract and is not regulated by the PSC. *See id.* at 46:16-24, 48:10-18. Since Maryland's energy market is deregulated, the EDCs purchase the electric energy for SOS from the wholesale market. This procurement of electric energy takes place through contractual agreements as well as through the use of "PJM spot energy markets."³⁴ OPC's Post Trial Br. [Document 140] at 15-16. According to the Maryland Office of People's Counsel, only 15% of all wholesale electricity sales in the PJM region occur through "PJM spot energy markets." *Id.* at 15.

E. The Path to the PSC Order

In mid-2000, the Maryland General Assembly and the PSC began to voice concerns over the operations of Maryland's electricity markets, the post-

³⁴ "[I]f [the EDCs'] customers use more energy in a particular hour than they have bought ahead of time for that hour, then they buy the residual through the PJM spot energy market." OPC's Post Trial Br. [Document 140] at 15.

restructuring consumer electricity rates, and the existence of adequate generation resources to serve the energy needs of Maryland ratepayers. For instance, in "the summer of 2006, the General Assembly convened a special session to pass legislation that would mitigate a proposed 72% rate increase on residential ratepayers [in the] BGE" territory, the largest utility territory in Maryland. P.391 (2007 PSC Interim Report) at 5.

These concerns, which took the form of several legislative and regulatory actions, eventually culminated in the issuance of the Generation Order at issue.

1. Maryland General Assembly Orders the PSC to Study Re-Regulatory Options for Maryland

In May 2007, the Maryland General Assembly signed into law Senate Bill 400, calling for the PSC to study re-regulatory options and the availability of adequate generation and transmission assets in the state and to also provide the General Assembly with interim and final reports³⁵ containing the results of the PSC's evaluations. *See* P.391 (2007 PSC Interim Report) at 1; *see also* EmPOWER Maryland Energy Efficiency Act of 2008, Md. Code Ann., Pub. Util. § 7-211.

In December 2007, the PSC filed its interim report with the General Assembly that "offer[ed its]

³⁵ The reports provided to the Maryland General Assembly consisted of reports authored by the PSC and by two groups of consultants, the law firm Kaye Scholer LLP and the economic consulting firm Levitan & Associates, Inc.

recommendations and analysis regarding options for 're-regulating' Maryland's electricity markets and for obtaining new generation and transmission resources" in Maryland. P.391 (2007 PSC Interim Report) at 1. In the interim report, the PSC explained that "*Maryland faces a critical shortage of electricity capacity . . . because Maryland sits in a highly congested portion of the regional electric transmission system (which makes it difficult to bring more power in) and because we use more electricity than is generated here.*" *Id.* To respond to this problem, the PSC advised that Maryland could "add more capacity, either through new generation or transmission, or . . . reduce the amount of electricity [it] use[s]." *Id.*

Describing the wholesale and retail markets as "structured ostensibly to create price incentives for new generation or transmission," the PSC noted that the wholesale markets had not responded to Maryland's needs and opined that those markets were unlikely to respond in the immediate future to the state's "looming capacity shortage." *Id.* According to the PSC, "capacity shortages and transmission constraints" in Maryland caused consumers to "pay much higher than average prices for wholesale (and thus retail) electricity." *Id.* The PSC reasoned that this situation provided no incentive for existing generators to build more capacity and increase the supply, since such actions would decrease the price received by the generators for energy and capacity on the wholesale market. *See id.*

Ultimately, after reviewing reports presented by two groups of consultants, the PSC concluded that "[t]he analyses by [the consultants] combine to create a

compelling case for directing utilities in the state to enter into long-term contracts to induce the supply of new electricity in Maryland. This is a 're-regulation' option that we believe should be pursued and that we intend to pursue." *Id.* at 41. The PSC believed this option would maintain the reliability of the transmission grid and obtain the best possible prices for Maryland ratepayers. Tr. Mar. 5 (AM) at 64:5-11 (Nazarian).

2. PSC Initiates the "Gap RFP Proceeding"

In the summer of 2007, PJM began warning the PSC about a potential capacity shortfall in Maryland for the following

year. In November 2008, the PSC issued an order in Case No. 9149, referred to as the "Gap RFP Proceeding," to address "a ['potential'] gap between the anticipated need [for electricity] in the summers going forward based on load forecasts and the known resources available to serve that need" in response to PJM's representation of a "potential delay in a transmission line project" known as the TrAIL Line. Tr. Mar. 5 (AM) at 74:10-76:19 (Nazarian). Seeking new demand response resources that would bid as capacity resources into the BRA, the PSC ordered the four Maryland EDCs to issue Requests for Proposals ("Gap RFPs"). P.345 (PSC Order in Case No. 9149) at 7. In exchange for the demand response resources bidding into the BRA, the PSC offered the EDCs contracts for differences that apparently guaranteed the suppliers a fixed revenue stream for the demand response, irrespective of the market clearing price in

the BRA. The Gap RFPs yielded 600 MW of demand response.³⁶

3. PSC Provides Final Report to General Assembly

On December 10, 2008, the PSC provided its final report to the Maryland General Assembly. *See generally* P.582 (2008 PSC Final Report). In the report, the PSC stated that in addition to reliability measures already underway, the PSC would "undertake a new investigation in 2009 to determine whether[,] and on what terms[,] to direct or solicit the construction of one or more new power plants in Maryland." *Id.* at 2. Former PSC Chairman Nazarian testified that although the PSC had intended to open a proceeding for the particular purpose of addressing that issue, it never opened such a case. Trial Tr. Mar. 5, 2013 (AM) at 78:22-81:-23 (Nazarian). Instead, the PSC commenced a proceeding related to inducing new generation in Maryland — Case No. 9214. It is this proceeding that led to the PSC's issuing the Generation Order.

4. CPV Requests a Long-Term Contract from the PSC in an Unrelated Matter

In PSC Case No. 9117, a case unrelated to the Generation Order, CPV filed a motion to intervene and "strongly urge[d] the [PSC] to encourage policies that promote and direct long-term (10 to 15 years) PPAs [Purchase Power Agreements] from in-state generation

³⁶ Demand response capacity in the amount of 600 MW means a commitment to decrease the demand for electric energy up to 600 MW if and when called upon by PJM to do so.

to serve Maryland's load." P.31 (CPV Motion to Intervene) at 3. In July 2009, CPV made a specific request that the PSC "order one or more [Maryland EDCs] to enter into 20-year long-term contract(s)" providing a fixed revenue stream to CPV for purposes of financing CPV's development of new generation in Charles County, Maryland.³⁷ P.14 (2009 CPV Motion) at 1; Tr. Mar. 5, 2013 (AM) at 86:21-87:16 (Nazarian).

In its filings in Case No. 9117, CPV asserted its belief in the necessity of having state-sponsored long-term financing to move forward with its Charles County project because "traditional commercial banks no longer are willing to finance the types of risks they might once have undertaken; nor will they be willing to rely on third party consultant reports estimating a project's potential revenue stream in a particular wholesale market." P.14 (2009 CPV Motion) at 22. CPV explained that "RPM's conditional three-year commitment period is simply insufficient to allow new baseload [sic] generation to be financed [because] the RPM is too short-term, too volatile, and too fraught with continued regulatory uncertainty to provide lenders with anything close to the certainty of a fixed revenue stream required for financing." *Id.* at 24. CPV went on to note that "given RPM's purpose to provide an accurate price signal to *new* generation, the FERC rejected" proposed changes to RPM that would extend the commitment period. *See id.* at 24-25.

³⁷ Former PSC Chairman Nazarian reflected that in 2008-2009, CPV advocated heavily and strongly for the PSC to order the long-term contract, but the PSC never gave CPV the contract. Tr. Mar. 5 (AM) at 85:13-86:3 (Nazarian).

Instead of granting CPV's request for a state-sponsored financing contract specifically for CPV's Charles County project, in September 2009 the PSC opened a separate proceeding, Case No. 9214, which implemented the competitive bid process that eventually resulted in the Generation Order, and eventually awarded the contract for differences to CPV for its Charles County project. Tr. Mar. 5 (AM) at 85:13-86:20 (Nazarian).

5. PSC Opens Case No. 9214 for "New Maryland-Located Electric Generating Facilities"

On September 29, 2009, the PSC initiated Case No. 9214 and directed "[t]hat any proposals for new Maryland-located electric generating facilities . . . be filed by December 11, 2009." P.35 (PSC Order No.82936) at 3-4.

a. The Draft RFP and Engagement of Boston Pacific

On December 29, 2010, the PSC issued for comment a draft Request for Proposals for Generation Capacity Resources Under Long-Term Contract (the "Draft RFP"). *See generally* P.13 (2010 Draft RFP). The Draft RFP solicited up to 1,800 MW of capacity, energy, and ancillary services from generation resources. The PSC invited all interested parties to review the Draft RFP and provide comments.

The Draft RFP differed in several respects from the RFP ultimately issued by the PSC. For example, the Draft RFP solicited proposals from all types of generation resources and permitted bids from existing

facilities that would uprate, or expand, their existing generation capacity. With respect to locational requirements, the Draft RFP required "[t]he proposed Generation Capacity Resource [to] be interconnected to the System such that the [resource's] output may be infed to a node east of the Western Interface and deliverable to Maryland east of the Western Interface avoiding likely transmission congestion." *Id.* at 15. Using this locational definition, it was possible for a generation facility in Pennsylvania to submit a proposal to the PSC in response to the Draft RFP. *See* Tr. Mar. 5 (AM) at 99:6-100:6 (Nazarian).

In the summer of 2011, the PSC engaged Boston Pacific Company, Inc. ("Boston Pacific") to perform consultation work in connection with the Draft RFP. Tr. Mar. 5 (AM) at 100:20-102:1 (Nazarian). On August 12, 2011,³⁸ Boston Pacific provided the PSC with its (1) "review [of] the factual basis for the reliability concern that motivated the [PSC] to issue the Draft RFP," (2) view of possible paths forward for the PSC, and (3) "suggested edits to the Draft RFP." P.42 (Boston Pacific Evaluation of Draft RFP) at 1.

Regarding the reliability concern in Maryland, Boston Pacific observed that conditions had improved since 2008 when the PSC provided its final report to the Maryland General Assembly illustrating scenarios in which there could be a generation shortfall in Maryland. For example, many of the scenarios posited to the General Assembly in 2008 related to a failure on the part of PJM to secure the construction of the Trans-Allegheny Interstate Line ("TrAIL Line"). *Id.* at

³⁸ Boston Pacific filed its report in Case No. 9214 on January 23, 2012.

1-2, 15. But, as Boston Pacific pointed out, PJM had come through and the TrAIL Line had gone into service in May 2011 "providing more transmission support for the [Maryland] region." *Id.*

Boston Pacific also explained that load growth in Maryland had declined, reducing pressure on the transmission system, and that demand response resources had materially increased, due in part to the Gap RFPs. *Id.* However, Boston Pacific identified "several key risk factors that could rapidly change Maryland's future [energy] supply needs." *Id.* at 2. Specifically, Boston Pacific noted:

(1) "[L]oad growth could be higher than expected;"

(2) "[R]etirements of existing generation facilities could be greater than expected [where] coal-fired generation makes up about 60% of all electricity produced in [Maryland, and] sources anticipate new EPA regulations will force shutdowns and increase costs as coal-fired generators modify their plants," which would leave Maryland more reliant on importing power; and

(3) Certain PJM transmission projects, such as the MAPP line, may not be completed on time, which is of concern since "Maryland imports roughly 30% of its power" and relies on transmission to bring power into the state.

Id. at 2, 17-27.

Boston Pacific identified two alternatives for the PSC to respond to reliability concerns: (1) take more time to evaluate the risks identified by Boston Pacific or (2) issue a request for proposals "targeted to address and mitigate the key risks" identified by the company. *Id.* at 3, 27. Boston Pacific advised the second option if the PSC "believes . . . that the current risks to reliability are great enough to justify immediate action, and that RPM will not bring new generation to the State." *Id.* at 3. If the PSC decided on the second option to issue a request for proposals, Boston Pacific suggested several modifications to the Draft RFP "[t]o effectively mitigate the [reliability] risks" faced by Maryland. *See id.* at 3-5. Boston Pacific advised:

[T]he RFP should specifically solicit only new, in-State, natural gas-fired combined-cycle generation located in SWMAAC or Eastern MAAC (EMAAC) . . . because [those] zones, due to their constrained nature, have seen the highest RPM prices, the least development of generation and are most at risk for reliability problems caused by load swings, generator retirements, and transmission issues. *Id.* at 4; *see id.* at 30-31.

b. The PSC Issues the RFP Seeking Proposals to Construct and Operate a New Generation Resource in SWMAAC in Exchange for the Contract for Differences

On December 8, 2011, the PSC issued the Amended Request for Proposals for New Generation to be Issued by Maryland Electric Distribution

Companies (the "RFP"), which ordered each Maryland EDC to issue an attached request for proposals.³⁹ *See generally* P.2 (2011 RFP).

According to the PSC, the RFP's purpose was "to ensure the continued, long-term reliability of the electricity supply to Maryland customers by mitigating key risks faced by the State." *Id.* at 1. Such risks, as listed in the RFP, included the risks identified by Boston Pacific, as well as "*the risk that RPM will not attract enough new capacity to address these risks effectively, whatever the level of need turns out to be.*" *See id.* at 2-3. According to the PSC, "RPM has failed to attract new generation in the State to mitigate these longer-term reliability concerns, and RPM's signal remains unable to anchor the financing new generation development requires." *Id.* at 3. Consequently, the PSC concluded that, "[a]lthough [it] appreciates PJM's role in planning regional transmission solutions, . . . [b]ecause market forces have not produced new generation in our region," the PSC may need to order the construction of new generation to "satisfy the long-term anticipated demand in Maryland" for electric supply. *Id.* at 3-4.

The PSC set a deadline of January 20, 2012 for proposals from interested parties for the construction and operation of new generation resource(s) to be submitted pursuant to the requirements detailed in the RFP. In exchange for building and operating the

³⁹ The PSC issued the first RFP on September 29, 2011, but after holding a pre-bid conference concerning the RFP, it issued the amended RFP on December 8, 2011. Among other things, the amended RFP extended the proposal due date to January 20, 2012. *See* P.2 (2011 RFP) at 12.

generation resource, the PSC offered the selected supplier a long-term contract for differences with three Maryland EDCs, which would provide the supplier with a guaranteed revenue stream based upon the supplier's wholesale energy and capacity sales into the PJM Markets. The PSC stated that it would select "the bid(s) that produces the lowest-cost solution for ratepayers when accounting for risk." *Id.* at 16. The PSC explicitly reserved the right to reject all proposals submitted in response to the RFP.

(i) Requested
Generation
Resource(s)
Requirements

In the RFP, the PSC sought proposals to build and operate a particular type of generation resource in a particular location. Specifically, the PSC only solicited proposals for:

- "[N]ew, natural gas-fired" generation capacity resources;
- Physically located inside the SWMAAC zone of the PJM region;
- Capable of producing energy and capacity products "not to exceed, a total installed capacity of 1,500 MW;"
- "[F]or an initial term of up to twenty years beginning no earlier than June 1, 2015 and no later than June 1, 2017."

Id. at 4-5. Hence, an existing generation resource or a resource physically located outside of SWMAAC was ineligible to submit a proposal to the PSC and to compete for the long-term financial benefits to be awarded to any selected submission.

Pursuant to the structure employed by the RFP,⁴⁰ the selected supplier would construct, operate, and own the new generation resource. As to the physical delivery of energy and capacity, the supplier would be obligated to offer the generator's output to PJM in the PJM Markets. *See id.* at 5. The PSC described the selected supplier's relationship with the Maryland EDCs as a "financial arrangement . . . in which the physical delivery to the EDC of Capacity, Energy and Ancillary Services is not required. . . . Hence, the delivery of Capacity and Energy will be settled financially rather than physically, thereby providing compensation to Supplier for Capacity and Energy." *Id.*

(ii) The Contract for
Differences

As outlined in the RFP, the compensation structure for any supplier chosen by the PSC to construct and operate a new generation resource in SWMAAC would be governed by a long-term contract

⁴⁰ The PSC attached to the RFP a draft contract for differences "to be executed as a result of th[e] RFP." *Id.* at 6. The PSC explained that the contract for differences "is meant to memorialize the terms and conditions described in this RFP; to the extent there is any conflict, this RFP controls and the final Agreement will be revised to comply with it. The Agreement contains the parties' rights and obligations for providing and receiving Capacity and Energy." *Id.*

for differences ("CfD"). The RFP provided that, after selecting a supplier, the PSC would direct or order one or more of the Maryland EDCs to enter into the CfD with the supplier. The CfD contained compensation provisions that enabled the selected supplier to receive its proposed "contract price" for each unit of energy and capacity sold to PJM in the PJM Markets up to a ceiling amount. *See generally id.*; *id.*, Attachment 1 (CfD Settlement Example); *id.*, Attachment 8 (Sample CfD).

The terms of the RFP required each submitted proposal to contain "the total pricing provisions for the Capacity

and Energy produced by the Generation Capacity Resource over the contract term." *See* P.2 (2011 RFP) at 10-11. The RFP and its attachments contained detailed explanations of the parameters for submission of the contract price.

At trial, CPV explained its "method" for reaching the proposed contract price. CPV assessed the costs of all of its obligations surrounding its proposed project, including: construction of its facility; fixed operating costs going forward, such as labor, property taxes, and maintenance; raising capital to finance the construction; and a reasonable rate of return to CPV. CPV then applied those assessments to a financial model to determine the annual revenue requirements necessary to construct and operate its proposed generation resource. Tr. Mar. 7 (AM) at 122:15-123:19 (Knight). That annual revenue requirement served as the basis for CPV's requested contract price presented in \$/MW-day of unforced capacity and \$/MWh.

As discussed in detail infra, under the CfD the actual revenue received by the supplier for its sale of energy and capacity in the PJM Markets is compared to what the supplier would have received for those sales had the contract prices been controlling, and any difference is settled between the supplier and the EDC(s). If the contract prices are higher than the market prices, the EDC(s) pays the difference to the supplier. If the market prices are higher than the contract prices, the supplier pays the difference to the EDC(s). In the event the EDC(s) have to make payments to the supplier, the EDCs would be able to recoup their losses through increases in the rates paid by Maryland SOS customers. Correspondingly, the EDC(s) would be required to pass on any gains to the SOS ratepayers.

c. The _____ Generation
Order and Selection of CPV's
Charles County Proposal

In response to the RFP, the PSC received seven bids, including a proposal from CPV for the construction and operation of a power plant in Charles County, Maryland. On April 12, 2012, after evaluation of the bids, the PSC issued the Generation Order directing BGE, Pepco and Delmarva (the "Maryland EDCs") "to enter into a Contract for Differences with CPV . . . under which CPV will construct a 661 megawatt (MW) natural gas-fired combined-cycle generation plant in Waldorf in Charles County, Maryland, with a commercial operation date of June 1, 2015. P.44 (Generation Order) at 7.

The PSC determined that CPV's bid provided "the best price for [Maryland] SOS ratepayers, with

the average impact to residential SOS ratepayers projected to be a *credit* of \$0.49/month over the entire life of the contract." *Id.* at 26. The PSC also ordered that the Maryland EDCs required to enter into the CfD with CPV should recover their costs from all Maryland SOS ratepayers, not just those ratepayers in the SWMAAC zone. *Id.* at 26-27.

In the Generation Order, the PSC provided a summary of the comments it received from various interested parties with respect to moving forward with the RFP. Specifically, the Maryland EDCs opposed proceeding with the RFP on the grounds "that customers would be 'burdened' with additional costs for unneeded and uneconomic generation." *See id.* at 10-12. With respect to the Plaintiffs, PPL opposed the RFP on the grounds that "it is not necessary because the competitive market is working to create reserve margins above 20% through 2015, and trends indicate demand is declining." *Id.* at 13-14. Similarly, PSEG "assert[ed] that proceeding with the RFP will interfere with the proper functioning of the wholesale competitive market." *Id.* at 14. The PSC rejected these concerns along with the contention that demand needs could be satisfied by the RPM and the BRA, stating:

[O]f critical importance, we cannot rely on PJM's Reliability Pricing Model to deliver new generation to Maryland. . . . Since its inception in 2007, RPM has brought no new generation to Maryland, in spite of the fact that clearing prices for capacity in SWMAAC have averaged almost double those of the non-constrained portions of PJM. . . . Despite these exorbitant capacity charges, which have increased energy

costs to Maryland ratepayers by hundreds of millions of dollars, no new base load generation was bid into the BRA during the 2012-2014 delivery period. Zero. The simple fact is that the one year signal, three years into the future has not provided sufficient certainty for prospective generation suppliers to secure financing in the current economic climate. And we do not find it reasonable to require us to entrust the reliability of our State's electricity supply entirely to the operation of a capacity market that, by design, seeks to incent long-term assets solely through short-term price signals.

Id. at 22-23.

F. Commercial Power Ventures Maryland

Commercial Power Ventures Maryland ("CPV") and its affiliates develop natural gas-fired and renewable energy generation facilities and manage generation assets on behalf of other owners, usually financial institutions that have taken control of the asset as collateral. Tr. Mar. 7 (AM) at 87:7-25. (Knight). CPV is located in Charles County, Maryland, which is part of the SWMAAC LDA.

In 2006, CPV began planning the project to build its Charles County Facility (the "Facility"). Tr. Mar. 7 (PM) at 87:3-10 (Egan). As discussed *supra*, CPV was of the opinion that it needed a long-term price contract, or its equivalent, to finance the construction and development of the Facility. *Id.* at 89:6-18. In about 2008, after exploring options in the open market to no avail, CPV began pursuing the

procurement of a long-term contract from the State of Maryland, and in 2009 it formally requested such a contract from the PSC. *Id.* at 88:9-15. As discussed herein, on April 12, 2012, the PSC issued the Generation Order selecting CPV's generation proposal and awarding CPV the CfD. As of the time of bench trial, CPV has stated that it would not move forward with construction of the Facility without the CfD. *Id.* at 89:15-18, 93:21-94:1.

In the spring of 2012, CPV bid 661 MW-days of capacity from its yet-to-be-built Facility into the BRA. Tr. Mar. 7 (AM) at 104:19-107:22 (Knight). Because it involved a new generation resource, CPV's bid was subject to the MOPR, which FERC had recently modified in 2011. The MOPR, as it existed in 2012, placed a floor on CPV's bid into the BRA that precluded CPV from bidding zero and acting as a price taker. Pursuant to the MOPR, CPV could not bid less than 90% of Net CONE (Cost of New Entry)⁴¹ or its unit specific cost once it received a unit-specific MOPR exception from PJM. As described by FERC, the MOPR:

is the mechanism that seeks to prevent the exercise of buyer market power in the forward capacity market by ensuring that all new resources are offered into PJM's Reliability Pricing Model (RPM) on a competitive basis.

⁴¹ CONE is a PJM-determined analysis as to the generic cost of a new power plant to enter the market. The Net CONE is the amount of annual revenue requirements from the capacity market that a new generic generator would need, assuming the plant will earn money from energy and ancillary service markets. See Tr. Mar. 7 (AM) at 92:9-93:23 (Knight).

The MOPR imposes a minimum offer screen to determine whether an offer from a new resource is competitive. We continue to conclude that the MOPR serves a critical function to ensure that wholesale prices are just and reasonable and should elicit new entry when new capacity is needed. The long-term viability of the PJM market demands an assurance of competitive offers from new entrants.

PJM Interconnection, L.L.C., 137 FERC ¶ 61,145, at *4 (2011).

On March 7, 2012, CPV filed a unit-specific MOPR exception proposing a bid floor of \$13.95/MW-day. *See generally* D.173 (CPV MOPR Exception Request). Pursuant to PJM's tariff, PJM must review a submitted unit-specific exception "to determine if it's consistent with competitive cost-based fixed nominal levelized [CONE]." Tr. Mar. 7 (AM) at 96:12-97:23 (Knight). PJM's independent market monitor made the initial determination that CPV's unit-specific costs precluded it from bidding below \$136.87/MW-day. *See id.* at 98:15-103:23. On April 10, 2012, CPV requested a separate determination from PJM. One month later, on April 20, 2012, PJM approved a bid floor of \$96.13/MW-day for CPV because the offer was "consistent with the competitive, cost-based, fixed, net cost of new entry were the resource to rely on solely on revenues from PJM-administered markets' as required by [the] PJM Tariff." D.265 (PJM Decision).

In accordance with PJM's unit-specific determination, CPV submitted a bid into the 2012 BRA of \$96.13/MW-day for the amount of 661 MW for

the delivery year 2015/2016. In SWMAAC and MAAC, the market clearing price for the 2012 BRA was \$167.46/MW-day. Hence, CPV cleared the BRA. After the 2012 BRA results were released, PJM performed a sensitivity analysis. *See* Tr. Mar. 4 (PM) at 22:23-24, 24:23-24 (Carretta). In the sensitivity analysis, PJM calculated that if the offered supply of capacity had been decreased in SWMAAC by 750 MW from the bottom of the supply stack or curve, the resulting clearing price for capacity in SWMAAC would have been \$195.00/MW-day instead of \$167.46/MW-day. *See id.* at 24:23-25:6; Tr. Mar. 5 (PM) at 135:13-140:6 (Cudwadie).

III. DISCUSSION

A. Supremacy Clause (Count I)

1. Legal Principles

The Supremacy Clause of the United States Constitution renders federal law "the supreme Law of the Land." U.S. Const. art. VI, cl. 2. "The Supremacy Clause is grounded in the allocation of power between federal and state governments" *Maryland Pest Control Asso. v. Montgomery County*, 884 F.2d 160, 162 (4th Cir. 1989) (per curiam). Rooted in the Supremacy Clause and its recognition of a hierarchy of federal and state power is the doctrine of preemption. *See Gade v. Nat'l Solid Wastes Mgmt. Ass'n*, 505 U.S. 88, 108, 112 S. Ct. 2374, 120 L. Ed. 2d 73 (1992). Pursuant to the doctrine of preemption, "[i]t is a familiar and well-established principle that the Supremacy Clause invalidates state laws that 'interfere with, or are contrary to,' federal law." *Hillsborough Cnty., Fla. v. Automated Med. Labs., Inc.*, 471 U.S. 707, 712-13, 105

S. Ct. 2371, 85 L. Ed. 2d 714 (1985) (internal citation omitted) (quoting *Gibbons v. Ogden*, 22 U.S. 1, 211, 6 L. Ed. 23 (1824)). Accordingly, the doctrine of preemption is a limitation on state power stemming from the recognition in the U.S. Constitution of a dual system of government where the national government reigns supreme. See *Anderson v. Sara Lee Corp.*, 508 F.3d 181, 191 (4th Cir. 2007) (explaining that "'federal statutes and regulations properly enacted and promulgated can nullify conflicting state or local actions'" (citation omitted)).

Preemption of state action through federal law can occur as the result of: (1) "the Constitution itself," (2) "a valid act of Congress," and/or (3) "regulations duly promulgated by a federal agency." *City of Charleston, S.C. v. A Fisherman's Best, Inc.*, 310 F.3d 155, 168-69 (4th Cir. 2002). "Yet '[c]onsideration under the Supremacy Clause starts with the basic assumption that Congress did not intend to displace state law.'" *S. Blasting Servs., Inc. v. Wilkes Cnty., N.C.*, 288 F.3d 584, 589-90 (4th Cir. 2002) (quoting *Maryland v. Louisiana*, 451 U.S. 725, 746, 101 S. Ct. 2114, 68 L. Ed. 2d 576 (1981)). This presumption (of a lack of congressional intent to displace state law) is strongest when "Congress has 'legislate[d] . . . in a field which the States have traditionally occupied.'" *Medtronic, Inc. v. Lohr*, 518 U.S. 470, 485, 116 S. Ct. 2240, 135 L. Ed. 2d 700 (1996) (alteration in original) (citation omitted). "[A]n 'assumption' of nonpreemption is not triggered when [a] State regulates in an area where there has been a history of significant federal presence." *United States v. Locke*, 529 U.S. 89, 108, 120 S. Ct. 1135, 146 L. Ed. 2d 69 (2000).

However, even in a traditionally state-occupied realm, the Supremacy Clause empowers Congress to preempt or supersede state or local law, either expressly through explicit statutory language or impliedly through field or conflict preemption. See *Hillsborough Cnty.*, 471 U.S. at 713; *Shaw v. Delta Air Lines, Inc.*, 463 U.S. 85, 95, 103 S. Ct. 2890, 77 L. Ed. 2d 490 (1983) ("Pre-emption may be either express or implied, and 'is compelled whether Congress' command is explicitly stated in the statute's language or implicitly contained in its structure and purpose. ") (citation omitted); *Anderson*, 508 F.3d at 191-92. "Accordingly, '[t]he purpose of Congress is the ultimate touchstone' of pre-emption analysis." *Cipollone v. Liggett Grp., Inc.*, 505 U.S. 504, 516, 112 S. Ct. 2608, 120 L. Ed. 2d 407 (1992) (alteration in original) (citations omitted).

2. Field Preemption

Plaintiffs contend that the Generation Order impermissibly invades a field occupied exclusively by FERC — the regulation of wholesale energy and capacity sales, including the price at which such sales are made — because the Generation Order sets the wholesale price *received* by CPV for its capacity and energy sales into the PJM Markets. Defendants assert that the Generation Order falls within the area of electric energy regulation not only traditionally occupied by the states, but also explicitly reserved to the states in the Federal Power Act ("FPA").

As discussed *supra*, preemption of state law may be express, *i.e.*, explicitly provided for by the federal statute in question, or implied. See *Morales v. Trans World Airlines, Inc.*, 504 U.S. 374, 383, 112 S.

Ct. 2031, 119 L. Ed. 2d 157 (1992). One type of implied preemption is field preemption. Field preemption occurs "where Congress has legislated comprehensively, thus occupying an entire field of regulation." *La. Pub. Serv. Comm'n v. F.C.C.*, 476 U.S. 355, 368, 106 S. Ct. 1890, 90 L. Ed. 2d 369 (1986). Thus, "state law is [field] pre-empted where it regulates conduct in a field that Congress intended the Federal Government to occupy exclusively." *English v. Gen. Elec. Co.*, 496 U.S. 72, 79, 110 S. Ct. 2270, 110 L. Ed. 2d 65 (1990).

The congressional intent essential for a field preemption claim can be found in

[A] "scheme of federal regulation . . . so pervasive as to make reasonable the inference that Congress left no room for the States to supplement it," or where an Act of Congress "touch[es] a field in which the federal interest is so dominant that the federal system will be assumed to preclude enforcement of state laws on the same subject."

English, 496 U.S. at 79 (alterations in original) (quoting *Rice v. Santa Fe Elevator Corp.*, 331 U.S. 218, 230, 67 S. Ct. 1146, 91 L. Ed. 1447 (1947)). Generally speaking, "if Congress evidences an intent to occupy a given field, any state law falling within that field is preempted." *Silkwood v. Kerr-McGee Corp.*, 464 U.S. 238, 248, 104 S. Ct. 615, 78 L. Ed. 2d 443 (1984); *Pac. Gas & Elec. Co. v. State Energy Res. Conservation & Dev. Comm'n*, 461 U.S. 190, 212, 103 S. Ct. 1713, 75 L. Ed. 2d 752 (1983).

Accordingly, assessment of Plaintiffs' field preemption claim requires a determination of whether Congress intended the federal government to regulate exclusively the field of wholesale energy and capacity sales and, if so, whether the Generation Order can be said to have regulated in that field.

Plaintiffs assert that through the FPA, "Congress has made plain its intention" for FERC to occupy exclusively "the field of wholesale sales of electric power, including the prices at which those sales occur." Pls.' Post-Trial Br. [Document 144] at 12-13. Though not necessarily disputing that Congress intended FERC to regulate exclusively some of the field of wholesale energy and capacity sales, Defendants maintain that the Maryland PSC acted within the jurisdiction reserved to the states by Congress under the FPA, and that therefore, the PSC could not have invaded any field occupied by FERC.

By enacting the FPA and other related laws, Congress created a division between federal and state authority within the broad field of electric energy regulation. As discussed *supra*, this division was somewhat necessitated by the Supreme Court's holding in *Pub. Utils. Comm'n of R.I. v. Attleboro Steam & Elec. Co.*, 273 U.S. 83, 47 S. Ct. 294, 71 L. Ed. 549 (1927)⁴² that the dormant Commerce Clause prohibited states from regulating the rates for wholesale power sales between utilities in different states. *Cf. First Iowa Hydro-Elec. Co-op. v. Fed. Power Comm'n*, 328 U.S. 152, 167- 68, 171, 66 S. Ct. 906, 90 L. Ed. 1143 (1946) (interpreting the FPA as mandating

⁴² See *Quill Corp. v. North Dakota*, 504 U.S. 298 (1992) (recognizing abrogation of *Attleboro* on other grounds).

divided powers and "a dual system involving the close integration of these powers rather than a dual system of futile duplication of two authorities over the same subject matter").

In the FPA, Congress declared:

Federal regulation of matters relating to generation to the extent provided in this subchapter and subchapter III of this chapter and of that part of such business which consists of the transmission of electric energy in interstate commerce and the sale of such energy at wholesale in interstate commerce is necessary in the public interest, such Federal regulation, however, to extend only to those matters which are not subject to regulation by the States

16 U.S.C. § 824(a).

In line with this dual federal/state regulatory regime, pursuant to the FPA, FERC has jurisdiction over "the transmission of electric energy in interstate commerce and . . . the sale of electric energy at wholesale in interstate commerce,"⁴³ but *not* over "any other sale of electric energy." *Id.* § 824(b)(1). Additionally, the FPA grants FERC jurisdiction over all facilities for the transmission and wholesale sales of electric energy in interstate commerce, but not "over facilities used for the generation of electric energy." *Id.* § 824(b)(1).

⁴³ The "'sale of electric energy at wholesale' . . . means a sale of electric energy to any person for resale." 16 U.S.C. § 824(d).

Though it creates a federal role, the FPA explicitly "preserve[d] state jurisdiction" over certain areas of the electric energy regulation field, including, but not limited to, regulation concerning the siting and construction of physical facilities used for the generation of electric energy.⁴⁴ See *New York v. F.E.R.C.*, 535 U.S. 1, 22-24, 122 S. Ct. 1012, 152 L. Ed. 2d 47 (2002). Where Congress has explicitly recognized a role for the states, there can be no serious assertion that the structure and framework of the FPA expresses a clear and manifest intent on the part of Congress to displace completely state authority vis-à-vis physical generation facilities (distinct from those facilities' wholesale energy sales and transmissions) and the construction thereof. Of course, given the dual federal/state regulatory regime, the division of power regulation labor may not always be clear, because, for example, FERC's regulatory actions relating to wholesale energy sales are surely capable of seeping into issues that surround the emergence of generation facilities. See, e.g., *Miss. Power & Light Co. v. Miss. ex rel. Moore*, 487 U.S. 354, 355-56, 108 S. Ct. 2428, 101 L. Ed. 2d 322 (1988) (finding that FERC's order requiring a power company to purchase 33% of the output of a newly constructed power plant at a rate determined by FERC to be just and reasonable preempted the state PSC from "examining the prudence" of the construction of the power plant in calculating rates chargeable to a retail customer by the power company to recover the cost of its purchases from the new power plant). In any event, Plaintiffs do not contend that an act of the Maryland General

⁴⁴ However, FERC obviously has jurisdiction over a facility's market actions to the extent the facility engages in wholesale energy and capacity transmission and sales.

Assembly or PSC related to the siting or building of a physical generation facility, the direct financing of the construction of a power plant, or the encouragement of or limitations on certain types of power plants within its borders (such as environmental-related regulation) would be field preempted by the FPA.⁴⁵ Rather, Plaintiffs take the more narrow position that the field of wholesale electric energy sales and price setting is exclusive to FERC and that the regulatory means by which the PSC sought to bring about the construction of a new power plant in Maryland invaded this field.

The preservation of state authority in a carved-out area within a broader federal regulatory field does not eliminate the exclusive federal jurisdiction over the balance of the field. *See generally Pac. Gas & Elec. Co. v. State Energy Res. Conservation & Dev. Comm'n*, 461 U.S. 190, 212, 103 S. Ct. 1713, 75 L. Ed. 2d 752 (1983) (explaining that "the federal government has occupied the entire field of nuclear safety concerns, except the limited powers expressly ceded to the states"). Indeed, structuring a statutory scheme so as to divide state and federal authority within one regulatory realm could be viewed as indicating that Congress intended the "federal side" of the field to be regulated exclusively by the federal government.

In regard to electric energy regulation, through the FPA Congress vested FERC with authority over wholesale electric energy prices. The FPA provides that:

⁴⁵ Of course, Plaintiffs would likely argue that there could be circumstances in which such action would be conflict preempted and/or violate the dormant *Commerce Clause*.

All rates and charges made, demanded, or received by any public utility for or in connection with the transmission or sale of electric energy subject to the jurisdiction of the Commission, and all rules and regulations affecting or pertaining to such rates or charges shall be just and reasonable, and any such rate or charge that is not just and reasonable is hereby declared to be unlawful.

16 U.S.C. § 824d(a). A "public utility" is defined as "any person who owns or operates facilities subject to the jurisdiction of the Commission." *Id.* § 824(e). A power plant that engages in wholesale electric energy sales and interstate transmission would fall within the definition of a public utility.

To ensure the just and reasonableness of wholesale electric energy rates, the FPA implements a regulatory framework that vests FERC with authority to determine the lawfulness of wholesale energy rates or prices. *See NRG Power Mktg., LLC v. Me. Pub. Utils. Comm'n*, 558 U.S. 165, 172, 130 S. Ct. 693, 175 L. Ed. 2d 642 (2010). Under the present regulatory scheme, wholesale energy prices are generally established in the first instance by public utilities, either unilaterally through tariffs or through contracts between wholesale sellers and buyers. *Id.* Such rates or prices must be filed with FERC and are lawful only if "just and reasonable." *Morgan Stanley Capital Grp. Inc. v. Pub. Util. Morgan Stanley Capital Group Inc.*, 554 U.S. 527, 531, 128 S. Ct. 2733, 171 L. Ed. 2d 607 (2008). "Rates may be examined by [FERC], upon complaint or on its own initiative, when a new or altered tariff or contract is filed or after a rate goes into effect." *NRG Power*

Mktg., 558 U.S. at 171 (citing §§ 824d(e), 824e(a)). "Following a hearing, [FERC] may set aside any rate found 'unjust, unreasonable, unduly discriminatory or preferential,' and replace it with a just and reasonable rate." *NRG Power Mktg.*, 558 U.S. at 171 (quoting § 824e(a)).

Wholesale electric energy rates include energy prices as well as capacity prices, which "are a large component of wholesale rates." *See Miss. Indus. v. F.E.R.C.*, 808 F.2d 1525, 1541, 257 U.S. App. D.C. 244 (D.C. Cir. 1987), *vacated in part on other grounds*, 822 F.2d 1104, 262 U.S. App. D.C. 42 (D.C. Cir. 1987); *see also Entergy La., Inc. v. La. Pub. Serv. Comm'n*, 539 U.S. 39, 43, n.1, 123 S. Ct. 2050, 156 L. Ed. 2d 34 (2003) ("Where, as here public utilities share capacity, the allocation of costs of maintaining capacity and generating power constitutes 'the sale of electric energy at wholesale in interstate commerce.'" (quoting § 824(b)(1))).

As stated by the Supreme Court:

FERC has exclusive authority to determine the reasonableness of wholesale rates. It is now settled that "the right to a reasonable rate is the right to the rate which the Commission files or fixes, and, . . . except for review of the Commission's orders, [a] court can assume no right to a different one on the ground that, in its opinion, it is the only or the more reasonable one."

. . . .

Congress has drawn a bright line between state and federal authority in the setting of wholesale rates and in the regulation of agreements that affect wholesale rates. States may not regulate in areas where FERC has properly exercised its jurisdiction to determine just and reasonable wholesale rates or to insure that agreements affecting wholesale rates are reasonable.

Miss. Power & Light, 487 U.S. at 371, 374 (alteration in original) (quoting *Nantahala Power & Light Co. v. Thornburg*, 476 U.S. 953, 960, 957, 106 S. Ct. 2349, 90 L. Ed. 2d 943 (1986) (noting that FERC "has exclusive jurisdiction over wholesale power rates")); *Ark. La. Gas Co. v. Hall*, 453 U.S. 571, 580-82, 101 S. Ct. 2925, 69 L. Ed. 2d 856 (1981) (finding that state breach-of-contract claim was preempted by FERC's exclusive jurisdiction on the grounds that the state court's interpretation of terms could interfere with FERC rates); *see also Pub. Util. Dist. No. 1 of Public Util. Dist. No. 1 v. Dynegy Power Mktg., Inc.*, 384 F.3d 756, 758 (9th Cir. 2004) (acknowledging FERC's "exclusive jurisdiction over interstate sales of wholesale electricity"); *Appalachian Power Co. v. Pub. Serv. Comm'n of W. Va.*, 812 F.2d 898, 902 (4th Cir. 1987) ("FERC's jurisdiction over interstate wholesale rates is exclusive.").

Accordingly, it appears well accepted that Congress intended to use the FPA to give FERC exclusive jurisdiction over setting wholesale electric energy and capacity rates or prices and thus intended this field to be occupied exclusively by federal regulation. Thus, state action that regulates within

this field is void under the doctrine of field preemption.⁴⁶

a. The Generation Order

Plaintiffs contend that the PSC has impermissibly regulated in the field of wholesale electric energy price setting because the Generation Order effectively sets the price received by CPV for its wholesale energy and capacity sales to PJM in the PJM Markets. Defendants contend the Generation Order does not "set wholesale prices" because it is a purely financial arrangement that secured the construction and development of a new generation facility in Maryland.

(i) Purpose of the
Generation
Order

Defendants take the position that the Court cannot, or at least should not, construe the PSC's regulatory action in connection with the Generation Order as invading the exclusive field of FERC because the Order sought to secure the construction of a

⁴⁶ The preemptive effect of the FPA on the Generation Order does not depend on whether FERC intended to preempt the actions of the PSC in this case. *See generally N. Natural Gas Co. v. Iowa Utils. Bd.*, 377 F.3d 817, 824 (8th Cir. 2004) ("The preemptive effect of the [Natural Gas Act] does not depend on whether the FERC intends to preempt state authority."). However, FERC has acted pursuant to its exclusive authority by determining that the rates set by the PJM Markets and ultimately received by generation facilities that participate in such markets are just and reasonable.

generation facility, an act within the jurisdiction reserved to the states under the FPA.

The Court agrees with Defendants' position that the FPA preserved states' jurisdiction over certain direct regulation of physical generation facilities. For instance, it appears that the states hold the authority to do the following: (1) take regulatory action to require existing generation facilities to retire; (2) limit the type or amount of generation facilities constructed in the state; (3) promote certain environmentally desired types of generation facilities; and (4) determine the siting or location of a new generation facility within the state. *See* 16 U.S.C. § 824(b)(1); *Conn. Dep't of Pub. Util. Control v. F.E.R.C.*, 569 F.3d 477, 481, 386 U.S. App. D.C. 320 (D.C. Cir. 2009). The Court can accept Defendants' position that FERC and/or PJM cannot directly order the construction of a new generation facility, let alone require or direct a state to permit such construction to occur within its borders. *See* Tr. Mar. 5 (PM) at 21:1-14, 82:4-21 (Nazarian); Tr. Mar. 6 (AM) at 44:1-21, 46:12-47:7 (Massey); Tr. Mar. 7 (AM) at 32:10-21 (Wodyka). The Court also can accept the position that the State of Maryland has a legitimate interest and federally permissible role in securing an adequate supply of electric energy for Maryland residents in the present and in the future. *See* 16 U.S.C. § 824o(i); Md. Code Ann., Pub. Util. § 5-101(a).

Yet after a generator physically comes into existence and operation and participates in the wholesale electric energy market, the prices or rates received by that generator in exchange for wholesale energy and capacity sales are within the sole purview of the federal government. While Maryland may

retain traditional state authority to regulate the development, location, and type of power plants within its borders, the scope of Maryland's power is necessarily limited by FERC's exclusive authority to set wholesale energy and capacity prices under, inter alia, the Supremacy Clause and the field preemption doctrine. Based on this principle, Maryland cannot secure the development of a new power plant by regulating in such a manner as to intrude into the federal field of wholesale electric energy and capacity price-setting. Furthermore, Maryland's stated purpose to use the Generation Order to secure the existence of sufficient and reliable electric energy for Maryland residents does not permit invasion into a federally occupied field. Where a state action falls within a field Congress intended the federal government alone to occupy, the good intentions and importance of the state's objective are immaterial to the field preemption analysis. Field preemption requires the state to "yield to the force of federal law . . . , notwithstanding that [the state's action] is constructed upon values familiar to many and cherished by most, and notwithstanding that it may fit neatly within or alongside the federal scheme." *See French v. Pan Am Exp., Inc.*, 869 F.2d 1, 6 (1st Cir. 1989).

Defendants maintain that the Generation Order cannot be field preempted because states may take a variety of actions to incentivize the development of generation facilities that affect wholesale energy and capacity prices without infringing on FERC's jurisdiction. The Court does not doubt that state action that promotes the development of power plants contemplated to participate in the wholesale energy market would not be field preempted merely because

the action — by increasing the supply of available energy and capacity — affects wholesale energy and capacity prices in the PJM Markets. Indeed, Plaintiffs do not contend that the Generation Order is field preempted solely because it will have an effect on wholesale prices. Rather, Plaintiffs assert that the Generation Order is field preempted because it seeks to secure new generation by setting or establishing the prices to be received by CPV for its wholesale energy and capacity sales in the PJM Markets for the next twenty (20) years.

Therefore, the Court rejects Defendants' position that because the Generation Order sought to accomplish an objective within the purview of state jurisdiction contemplated by the FPA, the Order cannot be held to be field preempted. It is the means by which the PSC sought to secure a new generation facility that Plaintiffs challenge as field preempted, not the securing of the facility itself or the purpose for taking action to do so. Consequently, the fact that the Generation Order secured the construction of a generation facility capable of serving the electric energy needs of Maryland is not determinative of the field preemption issue. The Court must assess whether the compensation mechanism, the CfD, impermissibly set wholesale prices for CPV's energy and capacity sales into the PJM Markets.

(ii) The Contract
for Differences

The price or rate received by CPV or by any generation resource within the PJM region for energy and capacity sales to PJM in the PJM Markets is regulated exclusively by FERC under the FPA. PJM

sets the prices received by generators for sales into the PJM Markets through market-based auction processes that are filed with, and approved by, FERC. The heart of the parties' dispute relates to whether the PSC has effectively "set the wholesale prices" that CPV will receive for its energy and capacity sales into the PJM Markets by issuing the Generation Order, which requires the Maryland EDCs to enter into the CfD with CPV. In essence, the CfD permits CPV ultimately to recover its proposed "contract price" — accepted and approved by the PSC in the Generation Order — for energy and capacity sales into the PJM Markets.

Allegedly impermissible wholesale rate setting by a state usually occurs with respect to the demand side of the energy market. That is, a state takes direct or indirect action that effectively alters the rate paid by an LSE for wholesale energy and capacity purchases by exercising jurisdiction over retail sales to preclude such a regulated utility from passing FERC-mandated wholesale rates through to retail consumers. *See, e.g., Miss. Power & Light*, 487 U.S. at 371-72 (recognizing the "filed rate doctrine," a subset of field preemption, which ensures that regulated utilities can recover the costs incurred by payment of just and reasonable FERC-determined rates from retail customers). However, the instant case relates to an action that affects the wholesale supply side of the energy market because the CfD deals with a rate for wholesale energy sales received by CPV, a generator. The Court does not perceive, for purposes of field preemption, any meaningful difference between state actions directed to the demand side and those directed to the supply side of the wholesale energy market. The foundation that FERC has exclusive authority to determine the

reasonableness of wholesale rates and that, therefore, state regulation of such matters is void under the Supremacy Clause, holds firm whether the rate or price in question is that received by a generation facility for wholesale sales or is that paid by an LSE for wholesale purchases.

Pursuant to the CfD, CPV agreed to, *inter alia*:

- "[Construct, own, operate, and maintain" a generation facility "physically located entirely within the Southwest MAAC;"
- "[W]arrant[] that the Facility . . . will participate in and offer [its output and products] into all PJM Markets . . . including but not limited to the BRA, the Day-Ahead Energy Market, Real-Time Energy Market and the Ancillary Services Market consistent with PJM Rules;"
- Not enter into any "bilateral contract or other arrangement to sell any of its output, products or services, . . . with another third party, PJM, or any Government Agency during the Term of the Agreement, unless approved by the [PSC];"
- Beginning on the Commercial Operation Date, have the generation facility offer and participate in the PJM Wholesale Energy Market and Capacity

Market and submit only cost-based offers;
and

- Engage in a monthly compensation scheme with the Maryland EDCs based upon a comparison of the revenue received by CPV for its actual sales of energy and capacity into the PJM Markets and the "contract price" for energy and capacity provided for in the CfD.

P.2 (2011 RFP), Attachment 8 (Sample CfD) at 18, 19, 32, 33.

Under the compensation scheme outlined in the CfD, CPV is guaranteed to receive the "contract price" for each unit of energy and capacity it sells to PJM in the PJM Markets up to a ceiling quantity of 661 MW. The contract price is a dollar figure assigned to a unit of energy and capacity.⁴⁷ CPV configured and proposed the contract price to the PSC as part of its proposal, and the PSC adopted and accepted CPV's contract price in the Generation Order.⁴⁸ The

⁴⁷ The contract price for energy is different and separate from the contract price for capacity.

⁴⁸ The Court finds unpersuasive Defendants' contention that the contract price is a competitive market price because CPV initially proposed that price as part of the RFP. In the RFP, CPV bid the contract price it was willing to receive for its energy and capacity sales into the PJM Markets in exchange for developing and operating a generation facility in SWMAAC and selling the facility's output (up to 661 MW) in the PJM Markets. The contract price became operative only after reviewed, evaluated, and accepted by the PSC in an agency order. Testifying based upon his involvement in the selection process, former PSC Chairman Nazarian testified that the contract price accepted by the PSC in

compensation scheme operates through a monthly netting mechanism that calculates the volume of units sold by CPV into the PJM Markets and then compares the market price actually received by CPV for the units it sold to PJM with the contract price for the same amount of units. *See id.* at 38, 88-94. If the aggregate market price received by CPV for its actual energy and capacity wholesale sales is less than the contract price, then the Maryland EDCs must pay CPV the difference. If the aggregate market price received by CPV for its energy and capacity wholesale sales is more than the contract price, then CPV must pay the EDCs the difference. *Id.* at 38. Any loss or gain to the Maryland EDCs is passed onto Maryland SOS ratepayers in the form of a rate increase or rate credit.

The following chart, using completely hypothetical numbers, illustrates the compensation mechanism employed by the CfD:

	Energy	Capacity	Total (\$)
Total Units Sold to PJM in PJM	2000 ⁴⁹	3000 ⁵⁰	

the Generation Order represented a unilateral decision by the PSC, and that under the RFP guidelines, the PSC had reserved the right to select none of the proposed contract prices. Tr. Mar. 5 (AM) at 122:3-123:6 (Nazarian). Accordingly, although it was proposed by CPV, the contract price in the CfD is a price "set" or "determined" by the PSC.

⁴⁹ This represents the total amount of energy dispatched by CPV into the PJM Energy Market during one-month period.

⁵⁰ Capacity that clears the RPM is sold or offered in MW-days. The total amount of capacity sold during any one month would be the capacity offered (100 MW-days) multiplied by the number of days in the month (30).

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	Energy	Capacity	Total (\$)
Markets in One Month by CPV			
Contract Price	100 ⁵¹	120	
per Unit			
Market Price	50 ⁵²	75 ⁵³	
per Unit			
CPV Market			
Revenue (Units	\$100,000.00	\$225,000.00	\$325,000.00
Sold * Market			
Price) Contract			
Payment			
Stream	\$200,000.00	\$360,000.00	\$560,000.00
(Units Sold *			
Contract Price)			
Payment from			
EDC to CPV:	\$100,000.00	\$135,000.00	\$235,000.00
Payment from			
CPV to EDC:	\$0	\$0	\$0

⁵¹ The contract price per unit is comprised of the Indexed Variable O&M (VOMe), \$/MWh, Heat rate, MMBtu/MWh, and the Gas Index Price, \$/MMBtu (the average of the daily Gas Price Index). The contract per unit energy price or the "strike price" is the indexed VOM + [Heat rate * Gas Index Price]. As explained by Plaintiff's witness, the heat rate multiplied by the gas index price converts the gas price from dollars per BTU into dollars per MWh. Then, the variable O&M expenses are added to that number. Tr. Mar. 4 (PM) at 82:7-20 (Cudwadie).

⁵² This price would be the average energy price, or the sum of hourly market energy revenue divided by total energy dispatched.

⁵³ The market price for capacity would be the capacity price set in the RPM auction.

Pursuant to the terms of the CfD, assuming that CPV clears the BRA, for each unit of capacity and energy CPV actually sells to PJM in the PJM Markets (up to a ceiling amount), CPV will ultimately realize or be compensated according to the "contract price" set by the PSC in the Generation Order and not according to the market-based rates set in the FERC-approved PJM Markets. Thus, the Generation Order fixes the monetary value of the energy and capacity generated by CPV's facility and actually sold by CPV into the PJM Markets. The monetary value of CPV's wholesale energy and capacity sales dictated by the PSC in the Generation Order is determined outside of the

auction mechanisms approved by FERC and utilized by PJM.

Accordingly, the Court finds that the Generation Order, through the CfD, establishes the price ultimately received by CPV for its actual physical energy and capacity sales to PJM in the PJM Markets. However, under field preemption principles, the PSC is impotent to take regulatory action to establish the price for wholesale energy and capacity sales. FERC has exclusive domain in that field and has fixed the price for wholesale energy and capacity sales in the PJM Markets as the market-based rate produced by the auction processes approved by FERC and utilized by PJM.

(iii) Alleged Mere
Financing
Arrangement

Defendants assert that despite the fact that the CfD's compensation mechanism provides CPV with the contract price for its actual capacity and energy sales to PJM in the PJM Markets, the Court cannot consider the Generation Order field preempted because the Order is a mere financing arrangement outside the jurisdiction of FERC. According to Defendants, the contract price represents CPV's "revenue requirements . . . to construct a power plant," and therefore, any payments between the EDCs and CPV are in return for CPV's construction of a generation facility and not for the sale of energy and capacity. Defs.' Post-Trial Br. [Document 146] at 19-20, 22.

The evidence established that CPV formulated the contract price it submitted in response to the RFP based upon, *inter alia*, the cost of constructing the proposed Charles County Facility. But, the financial considerations taken into account by CPV when computing the contract price go beyond recouping the costs for physically constructing a generation facility. Mr. Knight, a representative of CPV, testified that CPV formulated the contract price submitted to the PSC based upon its calculation of the annual revenue requirement necessary for CPV to construct the facility, operate the facility going forward, and receive a reasonable return on the project. Tr. Mar. 7 (AM) at 122:15-123:19 (Knight). Indeed, evidence was presented that the same types of financial concerns or factors are taken into account by an existing generation resource when formulating the price at which it is willing to bid into the BRA. *See id.* at 129:5-130:7. As Mr. Knight explained, the CfD exchanged the "unknown or variable energy prices" received in the PJM Markets for the fixed contract price, and, from

CPV's perspective, all CPV needed to know was that the contract price plus the minor profit it estimated from ancillary services "covers our total costs on a forward going basis." *Id.* at 124:16-21. The evidence establishes that the contract price represents a fixed revenue stream for actual energy and capacity sales into the PJM Markets that replaces the non-fixed wholesale market revenue that CPV would otherwise depend upon to finance and operate a power plant, *i.e.*, to pay for the costs of construction, operating, capital, etc.

Based on the foregoing, the Court finds that the market revenue for wholesale energy and capacity sales into the

PJM Markets and the contract price under the CfD serve basically the same goal: incoming revenue that enables CPV's facility to exist, operate, and dispatch electric energy into the PJM region. Consequently, the variables used by CPV to configure the contract price submitted to and accepted by the PSC in the Generation Order do not support Defendants' position that the CfD is limited to a financing arrangement outside the reach of FERC and is therefore incapable being field preempted.

The CfD is not a purely financial contract, financial hedging agreement, or swap agreement,⁵⁴ as those terms are commonly understood in the energy or

⁵⁴ A swap agreement is a specific type of purely financial contract or financial hedging agreement. *See* Tr. Mar. 4 (PM) at 63:11-13 (Cudwadie). Industry participants may also label a swap agreement as a contract for differences. *See id.* at 63:3-10. To avoid confusion with the "CfD", the Court shall simply refer to such financial arrangements as swap agreements.

financial industry. The Court finds credible and reliable the expert testimony of Mr. Cudwadie. Mr. Cudwadie explained that participants in the financial market enter into contracts that in essence bet on what the market price of energy or capacity (or any other article of commerce) will be at some defined point(s) in the future in reference to some market pricing index. *See* Tr. Mar. 4 (PM) at 76:11-77:13 (Cudwadie). Using an example provided by Mr. Cudwadie, a hypothetical (and oversimplified) swap agreement for energy prices works as follows:

- A and B enter into a swap agreement for 50 MW of electric energy for 10 hours for tomorrow ("Day X") at a price of \$40 using the settlement index of PJM West. The amount of MW that would be subject to the swap would be 500 (10 hours * 50 MW).
- The fixed price under the swap is \$40. The floating price is based upon the market or actual energy sales on Day X (*i.e.*, PJM West pricing index that shows prices for actual real time energy sales), and thus will not be known until delivery on Day X. The floating price is used to create a settlement price.
- Under the swap, A is the "seller" and is betting that prices are going to be lower than \$40, and B is the "buyer" and is betting prices will be higher than \$40. Stated differently, A is hypothetically selling 500 MW of power at the floating price to B and B is simultaneously hypothetically selling 500 MW of power at the fixed price to A. Therefore, if the fixed price is higher than the floating price, A will

hypothetically be entitled to receive a payment upon settlement.

- On Day X, PJM posts the 10 hours of real time prices for energy on its PJM West index, which shows a market price of \$38. Thus, the settlement price is \$38.
- Because the settlement price is below the fixed price, B owes \$1,000 to A ($[\$40 - \$38] * 500$).⁵⁵

See id. at 63:14-65:25.

Though swap agreements refer to "buying" and "selling," those terms are used in relation to how the agreement settles — who "wins," and how much, based upon the agreed fixed price and the actual floating price. *Id.* at 65:22-25. Thus, A (seller) and B (buyer) agree to use a fixed price of \$40 at the conclusion of the contract period for a hypothetical sale of 500 units. If the actual (floating) price is \$38, A (seller) "wins" and is entitled to receive \$1,000 from B (buyer). There is no actual delivery or receipt of energy as between A and B. *See id.* at 66:1-20. Furthermore, there is no contractual requirement between A and B that either party actually sell or deliver energy to a third party in order to receive payment under the swap. *Id.* at 66:6-69:16. Because the swap is a purely financial arrangement, the parties to the agreement could be participants in the financial market that have no

⁵⁵ The same result would be reached if the amount was computed by calculating the selling price for A (\$19,000) and the selling price for B (\$20,000). Because B will be paying more to A, A makes \$1,000 in the transaction after a setoff.

ownership interest in, or economic relation to, any facility that buys or sells electric energy in the wholesale market. *See id.* at 66:24-67:1.

Participants in the energy industry may enter into swap agreements as a financial hedge for actual energy transactions conducted independently with third parties in the market. *Id.* at 67:6-9, 68:24-69:16. Thus, a party intending to purchase energy can guarantee that it will cost \$40 per unit by entering into a swap transaction. If the actual market price is \$42, the party pays \$42 for the energy but receives \$2 from the hedge transaction, making its net cost \$40 per unit. If the actual market price is \$38, the party will pay \$38 for the energy but an additional \$2 to the other side of the hedge transaction, also making its net cost \$40 per unit. Payment under the swap agreement is not conditioned upon actual physical sales or deliveries into the energy market. *Id.* at 69:22-70:13. As a result, the swap agreement on its own has no contractual effect or relation to the swap parties' behavior in the market upon which the deal is based because the swap agreement is not a real sale of a tangible product.

The Court agrees with Mr. Cudwadie that the CfD is critically distinguishable from a swap or similar agreement and cannot be categorized as a "purely financial arrangement" as that term is commonly understood in the energy industry. Unlike the swap agreement described above, the CfD: (1) obligates CPV to construct and operate the generation Facility; (2) requires CPV to participate and offer that Facility's output into the PJM Markets; (3) dictates the manner in which CPV participates in the PJM Markets, (4) mandates a financial settlement only if CPV clears the

BRA in any given year; and (5) determines the amount of settlement based on CPV's physical energy and capacity sales into the PJM Markets. *See id.* at 94:12-98:14. Indeed, because the CfD requires CPV to bid and clear the BRA at a price different from the amount that CPV will actually receive, the CfD directly affects the market price. Accordingly, the Court finds that the CfD does not constitute a pure financial contract of the type used by participants in the energy market for hedging purposes. Consequently, the Court rejects Defendants' position that the CfD is not field preempted because it amounts to a non-FERC jurisdictional financial swap agreement.⁵⁶

Defendants' contend that the compensation mechanism implemented by the CfD does not regulate in an exclusively federal field because any payments to CPV are in return for CPV's construction of the Facility and not for energy and capacity sales into the PJM Markets. That is, because the payment mechanism to CPV is for the construction of the Facility and not for CPV's wholesale energy and capacity sales, the payment scheme does not impinge on FERC's exclusive jurisdiction to set wholesale energy and capacity prices. An obvious aspect and objective of the CfD is, of course, the construction of the Facility by CPV. As all parties agree, and as is plain from the terms of the CfD, there could be no payment

⁵⁶ Defendants seek to utilize the contract between PPL and Longview Power LLC (the "PPL Longview Contract") to assert that the CfD is not field preempted. The PPL Longview Contract is not before this Court for review. Thus whether or not one of the Plaintiffs entered into a state-mandated contract that shares similar components with the CfD is not controlling as to whether the CfD is field preempted. In addition, Defendants have not presented any sort of estoppel position.

to CPV under the CfD if the Facility was never built or was never operational. Nevertheless, the Court finds that the payment scheme to CPV under the CfD is in return, at least in part, for CPV's wholesale sales of capacity and energy in the PJM Markets.

First, the compensation scheme orchestrated by the PSC in the CfD renders payment directly contingent upon CPV's clearing capacity in the BRA. If CPV does not clear any capacity in the annual BRA, then it gets *nothing* under the CfD. Specifically, "[n]o Monthly Payment shall be provided during any period in which [CPV] has not been selected to provide capacity in PJM's BRA." P.2 (2011 RFP), Attachment 8 (Sample CfD) at 37. Even if CPV constructs and operates the Charles County Facility, CPV will receive no payment under the compensation scheme if it does not clear capacity in the BRA. Yet, a power plant that does not clear the BRA may still sell its electric energy to PJM in the PJM Wholesale Energy Market. *See* Tr. Mar. 8 (AM) at 13:19-14:2 (Willig). The clearing precondition in the CfD rewards CPV for clearing the BRA because CPV only obtains the contract price for wholesale energy and capacity sales into the PJM Markets if the CPV bid clears. Thus, the Court finds that the CfD's payment scheme compensates CPV, in part, for making wholesale capacity sales to PJM in the PJM Wholesale Capacity Market.

A second illustration of how the contract price compensates CPV for its wholesale energy and capacity sales into the PJM Markets is provided by the way in which monthly settlements are calculated under the CfD. If CPV clears the BRA, the pricing terms in the CfD are linked directly to the quantity of

energy and capacity sold from the CPV Facility into the PJM Markets. Mar. 7 (PM) at 11:11-13:3, 16:20-17:7 (Knight). As discussed supra, CPV is compensated based upon how much capacity and energy it actually sells to PJM in the PJM Markets up to a ceiling figure. As Mr. Cudwadie testified, "to get paid [CPV] ha[s] to clear the auction. That same type of principle applies to the energy market as well. If they're going to get payment under the contract, they must clear megawatts in the energy market." Tr. Mar. 4 (PM) at 98:4-8 (Cudwadie).

The Generation Order, the 2011 Amended RFP, and the CfD contain other representations that rebut the notion that the CfD does not compensate CPV for wholesale energy and capacity sales. For instance, the CfD provides that the Maryland EDCs "shall not pay for Capacity and Energy that PJM deems was not made available up to the performance standards required by PJM Agreements and PJM Tariff." *See* P.2 (2011 RFP), Attachment 8 (Sample CfD) at 38. The CfD obligates CPV to bid its 661 MW of the Facility only into the PJM Markets. *See id.* at 32. However, wholesale energy and capacity sales may occur through bilateral contracts or other arrangements outside the PJM Markets. The RFP explains that the structure of the CfD is such that "the delivery of Capacity and Energy will be settled financially rather than physically, thereby providing compensation to Supplier for Capacity and Energy." *Id.* at 5. The Court finds that the CfD compensates CPV for more than developing a new power plant. Under the CfD, the PSC has provided payment to CPV for its wholesale energy and capacity sales to PJM in the PJM Markets at a price different from that generated by the FERC-

approved market auction processes implemented by PJM.

Defendants assert that the Generation Order is outside the purview of the FERC-regulated field because the CfD is not an agreement for the physical delivery or sale of energy and capacity between CPV and the Maryland EDCs.⁵⁷ The Court does not find that the lack of physical delivery of energy *between the parties to the CfD* (CPV and the Maryland EDCs) insulates the Generation Order from a field preemption attack. If the PSC had ordered CPV to sell, at wholesale, and deliver energy to the EDCs for the contract price, then the unconstitutionality of the Generation Order would certainly be obvious. Here, the CfD provides payment in the form of the contract price to CPV based upon CPV's physical sales and delivery of energy and capacity to PJM in the PJM Markets. That is, if CPV makes no physical delivery of energy and capacity in the PJM Markets, then CPV gets no payment under the CfD. As former PSC Chairman Nazarian testified, CPV's physical delivery of energy and capacity into the PJM Markets "was a central component" of the Generation Order and the regulatory actions leading thereto. See Tr. Mar. 5 (AM) at 17:15-22 (Nazarian). By making CPV's

⁵⁷ The CfD does contain a provision that would enable the EDCs to take title to output generated, delivered, or sold by CPV's facility: [The Maryland EDCs] shall not take title to or risk loss to any products or services generated, delivered, or sold by the Facility unless ordered to do so by the MDPSC upon the recommendation of the Buyer or Supplier. Either Party can initiate an amendment to the Agreement to require that the Buyer receive title to the Supplier's output.P.2 (2011 RFP), Attachment 8 (Sample CfD) at 35.

compensation contingent upon the number of megawatts sold in the PJM Markets up to the contract cap of 661 MW-days and by also including other provisions related to CPV's delivery of energy to PJM, the PSC sought, through the CfD, to have CPV make physical deliveries of energy to PJM and to compensate CPV with the contract price for those deliveries from CPV's facility. Accordingly, the Generation Order involves, and compensates for, CPV's delivery of energy and capacity to PJM in the PJM Markets, which provides further evidence that the CfD is not a purely financial contract generally considered to be outside FERC's jurisdiction. *See generally Puget Sound Energy, Inc.*, 96 FERC ¶ 63,044, 65,381 n.318 (2001) ("Commission precedent on this issue is clear - the Commission has asserted jurisdiction only over those transactions that result in the physical delivery of electricity. The Commission has jurisdiction under Sections 205 and 206 of the Federal Power Act only where three conditions are present: where '[i] the electricity futures contract goes to delivery, [(ii)] the electric energy sold under the contract will be resold in interstate commerce, [(iii)] and the seller is a public utility.'" (alteration in original) (quoting *N.Y. Mercantile Exch.*, 74 FERC ¶ 61,311, 61,987 (1996))).

b. CPV's Market-Based Rate Tariff Argument

Defendants contend that Plaintiffs' field preemption claim is moot because a finding of field preemption subjects adjudication of the instant matter to the jurisdiction of FERC.

CPV filed an application with FERC pursuant to Section 205 of the FPA on November 8, 2012 (and

amended the application on December 4, 2012) seeking, inter alia, "authorization to make market-based wholesale sales of energy, capacity, and ancillary services pursuant to [an attached] market-based rate tariff." P.611 (CPV FERC Application for Market-Based Rate Authorization) at 1. On February 1, 2013, FERC approved CPV's market-based rate tariff (the "MBR Tariff"). Defendants assert that if "the CfD were a contract within FERC's jurisdiction, that contract is now authorized by FERC and controlled by the MBR Tariff [and] any complaint by Plaintiffs regarding the CfD . . . would have to be directed to FERC, and not this Court."⁵⁸ Defs.' Post-Trial Br. [Document 146], at 27.

"[Market-based rate t]ariffs, instead of setting forth rate schedules or rate-fixing contracts, simply state that the seller will enter into freely negotiated contracts with purchasers." *Morgan Stanley*, 554 U.S. at 537. Contracts entered into under market-based rate tariffs need not be filed immediately with FERC. Instead, the wholesale seller must file quarterly reports summarizing the contracts into which it has entered. *Id.* A market-based rate tariff authorizes a seller to enter into bilateral transactions "for resale of electric energy, capacity, or ancillary services at market-based rates." *See* 18 C.F.R. § 35.36(b); Tr. Mar.

⁵⁸ Prior to trial, CPV filed the Motion to Dismiss Preemption Claims as Moot [Document 103] asserting that even if Plaintiffs were correct that the CfD is subject to FERC's jurisdiction, Plaintiffs would not be entitled to relief on their preemption claims because FERC granted CPV authority under the FPA to sell wholesale electricity pursuant to the MBR Tariff. The Court denied the motion without prejudice to the right of CPV, or of any other party, to present the mootness contention after trial [Document 110].

4 (AM) at 40:2-9 (Alessandrini) (explaining that market-based rate authority gives a seller "the ability to buy and sell electricity with two willing counterparties at arm's length and at market-based rates"). However, "FERC will grant approval of a market-based tariff only if a utility demonstrates that it lacks or has adequately mitigated market power, lacks the capacity to erect other barriers to entry, and has avoided giving preferences to its affiliates." *Morgan Stanley*, 554 U.S. at 537.

As a result of its MBR Tariff, CPV has FERC approval to sell electric energy, capacity, or ancillary services at wholesale through freely negotiated contracts with purchasers, including wholesale sales made to PJM in the PJM Markets. *See* Tr. Mar. 7 (PM) at 5:4-8 (Knight) (explaining that CPV would be required to obtain market-based rate authority from FERC prior to making the sales required under the CfD to PJM). Of course, the MBR Tariff would affect only those transactions that are subject to FERC's jurisdiction.

In CPV's application for market-based rate authorization, it provided in a footnote that:

CPV Maryland has included as Exhibit E the most current public draft of the CFD that is under view before the MPSC solely for informational purposes. The Commission has determined that financial contracts that do not provide for sales of capacity or energy are not subject to the filing and reporting requirements under Section 205 of the Federal Power Act. However, CPV Maryland is not requesting that Commission to address or

discuss its jurisdiction over the contract for differences in its decision on this request for market based rates.

P.611 (CPV FERC Application for Market-Based Rate Authorization) at 4 n.7 (internal citations omitted). In its order authorizing CPV's MBR Tariff, FERC referenced CPV's above-quoted representation, but did not address the CfD as part of the proceeding for market-based rate authority, limiting its discussion to whether CPV had horizontal or vertical market power. *CPV Shore, LLC*, 142 FERC ¶ 61,081, at *7-10 (2013). FERC has not passed judgment, one way or another, on the reasonableness or fairness of the terms of CfD, whether the CfD is a "FERC-jurisdictional" contract, or any other potential issue within its regulatory jurisdiction.

Defendants contend that a finding in favor of Plaintiffs on the field preemption claim means that FERC would have jurisdiction over the CfD and, since CPV has been granted its MBR Tariff, the only forum to debate the enforceability of the CfD is FERC. The Court does not agree.

Even if the MBR Tariff granted by FERC authorized CPV, in the first instance, to enter into the CfD with the Maryland EDCs, thereby rendering any dispute over the CfD within the primary jurisdiction of FERC, such an authorization would not by extension preclude this Court from granting relief to Plaintiffs on a field preemption claim against the Maryland PSC. Plaintiffs' Complaint seeks relief enjoining the PSC from enforcing the Generation Order, which includes the requirement that the Maryland EDCs enter into the CfD with CPV. In this action, Plaintiffs have not

directly challenged the CfD (i.e., the ability of the Maryland EDCs and CPV to enter into the CfD absent state directive). Plaintiffs do not seek relief against CPV and do not assert that CPV has engaged in an unlawful practice in connection with the CfD. Contrary to the situation in *Pub. Util. Dist. No. 1 of Snohomish Cnty. v. Dynegy Power Mktg., Inc.*, 384 F.3d 756, 761 (9th Cir. 2004),⁵⁹ relied upon by Defendants, Plaintiffs are not asking that this Court determine a price or rate for CPV's energy and capacity sales that would be fair. Plaintiffs also are not seeking a determination that CPV violated or breached its MBR Tariff. The Court recognizes that its determination vis-à-vis the Generation Order may have collateral consequences and give rise to the implication that the CfD is the type of agreement governed by CPV's MBR Tariff. However, such implications do not deprive this Court of jurisdiction to answer the question of whether the Generation Order as a state action is unconstitutional.

Plaintiffs have challenged the Maryland PSC's ability under the Supremacy Clause to issue the Generation Order, which directed market participants to enter into the CfD with CPV. While the Court's finding that the Generation Order is field preempted raises the implication that the CfD, standing by itself, is a FERC-jurisdictional contract as opposed to a purely financial arrangement that is generally considered outside the purview of FERC, such an implication does not strip this Court of jurisdiction to

⁵⁹ In *Dynegy*, "a utility providing electricity to consumers in Washington state, has sued various generators and traders of wholesale electricity for violations of California state antitrust and consumer protection laws." 384 F.3d at 758. A state or state agency was not a party to the suit.

decide the constitutionality of the PSC's regulatory actions and to enjoin enforcement of an unconstitutional state action.

c. Resolution

When it issued the Generation Order, the PSC sought "to ensure the continued, long-term reliability of the electricity supply to Maryland customers" by securing the construction and operation of a generation facility within SWMAAC. *See* P.2 (2011 RFP) at 1. By themselves, those actions and objectives of securing the construction and operation of a generation facility may not invade a federally occupied field and most likely do fall within the permissible realm of regulation reserved to the states under the FPA. But, the FPA recognizes limits on the permissible role of the states in regulating generation facilities. Specifically, when generators are selling energy and capacity at wholesale, Congress intended the price or rate of such sales to be regulated exclusively by FERC. *See supra* Part III.A.2; *see also Miss. Indus.*, 808 F.2d at 1545 n.74 (explaining that "under the clear terms of the [FPA], the Commission has been awarded jurisdiction over generating facilities 'to the extent provided in other sections,' including jurisdiction necessary to effectuate regulation of interstate wholesale rates"). Because states have no authority, either traditional or otherwise,⁶⁰ to set wholesale rates, the compensation

⁶⁰ The Court does not agree with Defendants that the PSC's actions are subject to a strong presumption against preemption because states have traditionally occupied the field of regulating the construction and siting of physical generation facilities. As explained herein, the PSC's objective certainly fell within that traditional state purview continually referenced by Defendants, but the manner in which the PSC accomplished that objective

received by CPV for its wholesale energy and capacity sales is exclusively subject to the regulation of FERC. While there exist legitimate ways in which states may secure the development of generation facilities, states may not do so by dictating the ultimate price received by the generation facility for its actual wholesale energy and capacity sales in the PJM Markets without running afoul of the Supremacy Clause.

In the Generation Order, the PSC directed the Maryland EDCs to enter into the CfD with CPV. Under the CfD, CPV is guaranteed to receive the contract price - an out-of-market price set by the PSC - for its actual wholesale energy and capacity sales up to 661 MW in the PJM Markets. Based on the evidence presented at trial as discussed herein, the Court finds that the Generation Order sets or establishes the ultimate price received by CPV for these wholesale energy and capacity sales. The doctrine of field preemption forecloses state regulation in a field occupied entirely by the federal government, even if the state's purpose is admirable or the state regulation does not conflict with achievement of the federal scheme. *See Arizona v. United States*, 132 S. Ct. 2492, 2502, 183 L. Ed. 2d 351 (2012). Where Congress intended FERC alone to regulate wholesale energy and capacity prices, and this Court has found the Generation Order sets or establishes the wholesale

involved establishing the amount received by CPV for its wholesale activity in the PJM Markets. Regulating in the field of wholesale price-setting is occupied by FERC, so therefore the strong presumption against preemption is not present. *See United States v. Locke*, 529 U.S. 89, 108, 120 S. Ct. 1135, 146 L. Ed. 2d 69 (2000). However, even if the strong presumption existed, this Court would still conclude the Generation Order unconstitutionally encroached into a federal field.

energy and capacity prices to be received by CPV for its sales into the PJM Markets, the PSC has encroached upon an exclusive federal field. In line with the principles of the Supremacy Clause, the Generation Order cannot stand.

The Court finds that the Generation Order is field preempted and, therefore, is unconstitutional as a violation of the Supremacy Clause.

3. Conflict Preemption

Conflict preemption exists "where state law 'stands as an obstacle to the accomplishment and execution of the [Congress'] full purposes and objectives.'" *Freightliner Corp. v. Myrick*, 514 U.S. 280, 287, 115 S. Ct. 1483, 131 L. Ed. 2d 385 (1995) (alteration in original) (quoting *Hines v. Davidowitz*, 312 U.S. 52, 68, 61 S. Ct. 399, 85 L. Ed. 581 (1941)). The Court's decision that the Generation Order violates the Supremacy Clause because it is field preempted, renders moot the question of whether the Order would also be held to violate the Supremacy Clause because it is conflict preempted.

The Court will not undertake an academic exercise to hypothecate the findings that it would have made in a decision holding that the Generation Order is not field preempted and then hypothecate what would have been this Court's conflict preemption decision with those findings substituted for those actually made.

Accordingly, the Court simply will note that there are reasonably debatable issues as to whether

the Generation Order violated the Supremacy Clause by virtue of conflict, as well as field, preemption.

B. The Dormant *Commerce Clause* (Count II)

As discussed herein, the Court does not accept any of Defendants' plethora of contentions that would prevent consideration of the merits of Plaintiffs' dormant *Commerce Clause* claim. However, on consideration of the ultimate issue, the Court does not find that the Generation Order violates the dormant *Commerce Clause*.

1. Legal Principles

The enumerated powers delegated to Congress by the United States Constitution include the power "[t]o regulate Commerce with foreign Nations, and among the several States, and with the Indian Tribes." U.S. Const. art. I, § 8, cl. 3. "Although the *Commerce Clause* is phrased merely as a grant of authority to Congress . . . it is well established that the Clause also embodies a negative command forbidding the States to discriminate against interstate trade." *Associated Indus. of Mo. v. Lohman*, 511 U.S. 641, 646, 114 S. Ct. 1815, 128 L. Ed. 2d 639 (1994). This negative aspect of the *Commerce Clause*, or dormant *Commerce Clause*, prohibits economic protectionism ("that is, regulatory measures designed to benefit in-state economic interests by burdening out-of-state competitors") on part of the States. *See New Energy Co. of Ind. v. Limbach*, 486 U.S. 269, 271, 273, 108 S. Ct. 1803, 100 L. Ed. 2d 302 (1988) (invalidating under the dormant *Commerce Clause* a statute that provided a tax credit for sales of ethanol produced in Ohio but not for sales

of ethanol produced in certain other states). Such state economic protectionism "violates the principle of the unitary national market by handicapping out-of-state competitors." *W. Lynn Creamery, Inc. v. Healy*, 512 U.S. 186, 193, 114 S. Ct. 2205, 129 L. Ed. 2d 157 (1994).

In any dormant *Commerce Clause* challenge to state action, a court must determine as a preliminary matter whether the state's actions are of the type subject to the strictures of the dormant *Commerce Clause*. If the state's actions are not exempted from the *Commerce Clause*, then the court must determine whether the state has affirmatively discriminated against interstate commerce or, though regulating evenhandedly, has unduly burdened interstate commerce. See *Maine v. Taylor*, 477 U.S. 131, 138, 106 S. Ct. 2440, 91 L. Ed. 2d 110 (1986); *McBurney v. Young*, 667 F.3d 454, 468 (4th Cir. 2012), *aff'd*, 133 S. Ct. 1709, 185 L. Ed. 2d 758 (2013). Affirmative discrimination is subject to strict scrutiny and will be prohibited unless "demonstrably justified by a factor unrelated to economic protectionism." *McBurney*, 667 F.3d at 468-69 (quoting *Brown v. Hovatter*, 561 F.3d 357, 363 (4th Cir. 2009) (explaining that it is insufficient for a dormant *Commerce Clause* violation that a statute provides a benefit to only state citizens and that the state action must discriminate against out-of-state economic interests). State regulation that incidentally burdens interstate commerce is less rigorously evaluated and "will be upheld unless the burden imposed on such commerce is clearly excessive in relation to the putative local benefits." *Pike v. Bruce Church, Inc.*, 397 U.S. 137, 142, 90 S. Ct. 844, 25 L. Ed. 2d 174 (1970); see also *Yamaha Motor Corp., U.S.A. v.*

Jim's Motorcycle, Inc., 401 F.3d 560, 567 (4th Cir. 2005) (quoting *Pike*, 397 U.S. at 142).

2. "Exemption" from the Dormant
Commerce Clause

Defendants contend that the PSC's challenged actions are not covered by the strictures of the dormant *Commerce Clause*. Defendants contend that in connection with issuing the Generation Order, the PSC operated without *Commerce Clause* confinement because: (1) state spending or subsidization to advance a legitimate public purpose operates outside the *Commerce Clause*; (2) the PSC acted as a market participant in the new generation market; and/or (3) Congress has expressly authorized states to discriminate against interstate commerce in the siting of generation facilities.

a. State Spending or
Subsidization to Advance a Legitimate
Public Purpose

Defendants urge the Court to hold that the dormant *Commerce Clause* does not apply to the PSC's actions because, by ultimately requiring Maryland ratepayers to shoulder the financial burden of the CfD, the PSC has merely spent money to subsidize the construction of a power plant in order to advance a legitimate public purpose. *See* Defs.' Post-Trial Br. [Document 146], at 43-45. In essence, Defendants request this Court to recognize a sweeping exception to the dormant *Commerce Clause* that would permit a state or local government to discriminate against interstate commerce so long as that government's actions can be categorized as spending or subsidization

to advance a legitimate public purpose. For the reasons stated herein, the Court declines to do so.

Defendants' spending and subsidy contentions are separable into two distinct categories: (1) state or local spending on any matter and (2) administration of state or local subsidies or subsidy programs provided to private business. In their post-trial briefing, Defendants treat state spending generally and state administration of a subsidy program as a single class of state action wholly outside the *Commerce Clause*. Yet, a state subsidy is a sub-set that falls under the much broader umbrella of state or local spending.⁶¹ The Court will address each category separately.

(i) Spending to
Advance a Legitimate
Public Purpose

Relying on several Supreme Court cases addressing the market participant exception and state laws that prefer public entities, Defendants contend that the Supreme Court has made clear that "governmental entities are not subject to *Commerce Clause* scrutiny when they spend money . . . whatever the source of the funding." *See* Defs.' Post-Trial Br. [Document 146] at 43-44. Plaintiffs assert that the Supreme Court has not recognized such an exemption and has firmly rejected the argument a state law to promote with the purpose of promoting a public benefit

⁶¹ In the general sense, a subsidy refers to a grant of money or other pecuniary aid by a governmental body to another, such as a private entity or group of private entities. *See W. Lynn Creamery, Inc. v. Healy*, 512 U.S. 186, 194, 114 S. Ct. 2205, 129 L. Ed. 2d 157 (1994) (describing money distributed to Massachusetts dairy farm producers from state tax fund as a subsidy).

is necessarily insulated from the *Commerce Clause*. The Court agrees with Plaintiffs.

The Supreme Court jurisprudence relied upon by the Defendants does not demonstrate a separate and categorical dormant *Commerce Clause* exception for state activity pigeonholed as spending money to advance public health, safety, or welfare. Rather, those decisions indicate a recognition that (1) in *certain instances*, when a state or local government spends its own revenues, that government may be considered a market participant free to operate without *Commerce Clause* hindrance (*White v. Mass. Council of Const. Emp'rs, Inc.*, 460 U.S. 204, 103 S. Ct. 1042, 75 L. Ed. 2d 1 (1983); *Reeves, Inc. v. Stake*, 447 U.S. 429, 100 S. Ct. 2271, 65 L. Ed. 2d 244 (1980)) and that (2) in *certain instances* a state's favoring or benefiting a government or public entity while treating all private companies without distinction does not discriminate against interstate commerce (*Dep't of Revenue of Ky. v. Davis*, 553 U.S. 328, 128 S. Ct. 1801, 170 L. Ed. 2d 685 (2008); *United Haulers Ass'n, Inc. v. Oneida-Herkimer Solid Waste Mgmt. Auth.*, 550 U.S. 330, 127 S. Ct. 1786, 167 L. Ed. 2d 655 (2007)).

Specifically, in *White* the Supreme Court held that "[n]sofar as the city [of Boston] expended only its own funds in entering into construction contracts [to which the city was a signatory] for public projects, it was a market participant,"⁶² and therefore the

⁶² In *White v. Mass. Council of Const. Emp'rs, Inc.*, the city executive order at issue also applied to funds received from the federal government. 460 U.S. 204, 206, 208, 103 S. Ct. 1042, 75 L. Ed. 2d 1 (1983). The Supreme Court found that to the extent the order applied to projects funded in part with funds acquired by the

dormant *Commerce Clause* placed no limitation on its ability to favor city residents in connection with those contracts.⁶³ 460 U.S. at 209 n.5, 214-15. In *Reeves*, the Supreme Court held that South Dakota's construction and operation of a cement plant rendered it a market participant and thus left the state free to favor South Dakota customers over out-of-state customers when selling the plant's output without implicating the dormant *Commerce Clause*. 447 U.S. at 439-40. With respect to public entities, in *United Haulers*, the Supreme Court held a "flow control" ordinance requiring all trash haulers to deliver solid "waste to [a 'clearly public'] facility[y] owned and operated by a state-created public benefit corporation"⁶⁴ did not discriminate against interstate commerce within the meaning of the dormant *Commerce Clause*.⁶⁵ 550 U.S.

city through federal programs, the order had been specifically authorized by Congress and thus fell within the congressional authorization exception to the *Commerce Clause*. *See id.* at 212-16.

⁶³ In *White*, the executive order issued by the city "required that all construction projects funded in whole or in part by city funds . . . should be performed by a work force consisting of at least half *bona fide* residents of Boston." *Id.* at 205-06.

⁶⁴ As to funding the facility, the defendant waste management authority collected "tipping fees" from private trash collectors to cover operating and maintenance costs, and if the costs were not recouped through the tipping fees and other charges, then the state counties served by the facility would make up the difference. *United Haulers Ass'n, Inc. v. Oneida-Herkimer Solid Waste Mgmt. Auth.*, 550 U.S. 330, 335-36, 127 S. Ct. 1786, 167 L. Ed. 2d 655 (2007).

⁶⁵ The Court reasoned that state governments are distinct from private businesses because the state "is vested with the responsibility of protecting the health, safety, and welfare of its citizens." *Id.* at 342. Thus, "[l]aws favoring local government . . . may be directed toward any number of legitimate goals unrelated

at 334. Similarly, in *Davis*, the Supreme Court, relying on *United Haulers*, held that Kentucky's tax exemption for state-issued bonds did not discriminate against interstate commerce because Kentucky treated all private bond issuers exactly the same.⁶⁶ 553 U.S. at 341-43 (recognizing that state tax exemptions for state-issued bonds were a common and historically rooted practice).

Accordingly, the Supreme Court has by no means made clear that when a state or local government spends money to advance a legitimate public purpose it is free to discriminate against interstate commerce or is considered not to discriminate against interstate commerce. Further, the PSC's actions at issue herein are entirely distinguishable from the actions at issue in the aforementioned cases. Here, the PSC is not: (1) spending its own funds to construct a power plant; (2) entering into a contract to which it is a signatory for the construction of a power plant; (3) owning or operating a power plant; (4) creating a clearly public entity that will own and operate a power plant; and/or (5) issuing bonds to generate state revenue to fund a power plant. To the contrary, the PSC procured a market actor, CPV, to construct, own, and operate a private facility in the interstate energy market and then used its regulatory authority to order other

to protectionism," unlike laws favoring in-state business over out-of-state business. *Id.* 343.

⁶⁶ Justice Souter, who delivered the opinion of the Court in *Dep't of Revenue of Ky. v. Davis*, 553 U.S. 328, 128 S. Ct. 1801, 170 L. Ed. 2d 685 (2008), opined that the Kentucky law would also evade dormant *Commerce Clause* review under the market participant exception, but a majority of Justices did not join in that portion of the opinion.

market actors, and ultimately Maryland ratepayers, to provide the Facility with financial backing.

Additionally, the Court does not find any basis for recognizing the general "spending exception" advocated by Defendants. Such an exception would endorse a formalistic approach to the *Commerce Clause*, long discouraged by the Supreme Court. *See W. Lynn Creamery*, 512 U.S. at 201. As the Supreme Court pointed out in the not-too-distant past: "The *commerce clause* forbids discrimination, whether forthright or ingenious. In each case it is our duty to determine whether the statute under attack, whatever its name may be, will in its practical operation work discrimination against interstate commerce." *Best & Co., Inc. v. Maxwell*, 311 U.S. 454, 455-56, 61 S. Ct. 334, 85 L. Ed. 275 (1940). In addition to its reluctance in fashioning exemptions that place form over substance, the Supreme Court has flatly cast aside any notion that a state may regulate in a manner that discriminates or burdens interstate commerce so long as it acts for a legitimate public purpose. *See, e.g., Or. Waste Sys., Inc. v. Dep't of Envtl. Quality of State of Or.*, 511 U.S. 93, 100, 114 S. Ct. 1345, 128 L. Ed. 2d 13 (1994) (explaining the "purpose of, or justification for, a law has no bearing on whether it is facially discriminatory"); *Dean Milk Co. v. City of Madison*, 340 U.S. 349, 354, 71 S. Ct. 295, 95 L. Ed. 329 (1951).

The Court does not agree with Defendants' position that subjecting the PSC's actions to the dormant *Commerce Clause* will have severe adverse effects by raising questions as to whether commonplace state spending activity, such as a decision to fund the expansion of a state university's campus with student

tuition, is permissible under the *Commerce Clause*. There are, of course, multitudes of state spending schemes that by their nature most likely raise no discernible *Commerce Clause* issue because those activities simply do not regulate commerce in any meaningful sense or fall within an already recognized *Commerce Clause* exception. *See Davis*, 553 U.S. at 358 (2008) (Stevens, J., concurring). Just the same, one can certainly envision state spending schemes that do give rise to significant *Commerce Clause* concerns. *See W. Va. Univ. Hosps., Inc. v. Rendell*, No. 1:CV-06-0082, 2007 U.S. Dist. LEXIS 81901, 2007 WL 3274409, at *9-10 (M.D. Pa. Nov. 5, 2007) (finding a Pennsylvania law that excluded all out-of-state hospitals that provide trauma care to Pennsylvania residents from receiving trauma payments available to Pennsylvania hospital invalid as unjustified facial discrimination against interstate commerce).

Whether any particular state spending activity is subject to, or passes muster under, the dormant *Commerce Clause* will depend on the nature and contours of that particular scheme. The Court will, therefore, address Plaintiffs' claim that the specific actions taken by the PSC implicate and violate the dormant *Commerce Clause*.

(ii) State
Subsidies

Defendants contend that the PSC's actions amount to a constitutionally permissible subsidy program not subject to dormant *Commerce Clause* scrutiny. Plaintiffs assert that the Supreme Court has never explicitly addressed the constitutionality of subsidy programs in connection with the dormant

Commerce Clause and that, in any event, the PSC has not directly subsidized anything.

The Supreme Court has yet to decide whether or not state or local government subsidy programs are categorically outside the dormant *Commerce Clause*. See *Camps Newfound/Owatonna, Inc. v. Town of Harrison, Me.*, 520 U.S. 564, 589, 117 S. Ct. 1590, 137 L. Ed. 2d 852 (1997) (explaining that there was no need to address the permissibility of a state subsidy under the dormant *Commerce Clause* because the law at issue was a tax exemption, which, although having the same effect as subsidy, is constitutionally distinct under Supreme Court jurisprudence); *W. Lynn Creamery*, 512 U.S. at 199 n.15. However, the Supreme Court has made several statements with respect to subsidies and the dormant *Commerce Clause*. For instance, in *W. Lynn Creamery*, the Supreme Court stated in dicta that "[a] pure subsidy funded out of general revenue ordinarily imposes no burden on interstate commerce, but merely assists local business." 512 U.S. at 198-99 (holding that a pricing program consisting of a subsidy and a nondiscriminatory tax on all dairy farmers violated the dormant *Commerce Clause* because the tax was effectively imposed only on out-of-state dairy farmers). In a case involving a discriminatory tax scheme, the Supreme Court stated that:

The *Commerce Clause* does not prohibit all state action designed to give its residents an advantage in the marketplace, but only action of that description *in connection with the State's regulation of interstate commerce*. Direct subsidization of domestic industry does

not ordinarily run afoul of that prohibition; discriminatory taxation of out-of-state manufacturers does.

New Energy, 486 U.S. at 278 (1988).⁶⁷

At most, the Supreme Court's statements regarding subsidies suggest that a "pure [state or local government] subsidy funded out of general revenue" or "direct subsidization of domestic industry" by a state or local government is generally permissible under the

⁶⁷ Reference to direct subsidies by the Supreme Court is, in some ways, rooted in the market participant exception to the dormant *Commerce Clause*. In *Hughes v. Alexandria Scrap Corp.*, 426 U.S. 794, 96 S. Ct. 2488, 49 L. Ed. 2d 220 (1976), the Supreme Court first recognized the market participant exception to the dormant *Commerce Clause* when sanctioning a state's cash subsidy program. In *New Energy Co. of Ind. V. Limbach*, the Supreme Court noted that simply because a "tax credit scheme has the purpose and effect of subsidizing a particular industry . . . [t]hat does not transform it into a form of state participation in the free market" outside of dormant *Commerce Clause* scrutiny under the market participation exception. 486 U.S. 269, 277-78, 108 S. Ct. 1803, 100 L. Ed. 2d 302 (1988). The Court explained that although it considered the cash subsidy program at issue in *Alexandria Scrap* to be proprietary activity, not all state subsidy programs necessarily fall into that characterization. *See id.* at 277; *Reeves, Inc. v. Stake*, 447 U.S. 429, 440 n.14, 100 S. Ct. 2271, 65 L. Ed. 2d 244 (1980) ("We have no occasion here to inquire whether subsidy programs unlike that involved in *Alexandria Scrap* warrant characterization as proprietary, rather than regulatory, activity."). Thus, the Supreme Court has recognized that a state *may* be considered a "market participant" free to discriminate against interstate commerce when administering a subsidy program, but that simply because a state activity is labeled as a subsidy or has that purpose or effect does not automatically render the state's actions proprietary as opposed to regulatory.

Commerce Clause.⁶⁸ The Supreme Court has not given any indication that state activity that could be labeled as an indirect subsidy or a subsidy equivalent — in that it has the purpose or effect of funding domestic business — necessarily is permissible under the dormant *Commerce Clause*. To the contrary, the Supreme Court has subjected state laws that have the purpose and/or effect of subsidizing only local industry to dormant *Commerce Clause* scrutiny. See *Bacchus Imports, Ltd. v. Dias*, 468 U.S. 263, 265-66, 272, 104 S. Ct. 3049, 82 L. Ed. 2d 200 (1984) (finding that a tax exemption for certain locally produced alcoholic beverages violated the dormant *Commerce Clause* even though the state's asserted purpose for the tax exemption was an attempt to subsidize financially troubled local business).⁶⁹ The Supreme Court has also refused to consider state laws that have the purpose and/or effect of subsidizing a particular industry necessarily to be a form of market participation, as opposed to a form of regulation, by the state. See *New Energy*, 486 U.S. at 277-78.

⁶⁸ However, the Supreme Court's statements do not clarify whether it considers a "direct subsidy" as: (1) an independent category of state activity exempted from the dormant *Commerce Clause* (i.e., permitting discriminatory direct subsidies); (2) falling within the market participant exception; or (3) a type of state action that is generally not considered as discrimination or as a burden on interstate commerce.

⁶⁹ The Supreme Court does distinguish between a direct subsidy and a tax exemption. The Supreme Court has explained that although tax exemptions and subsidies serve similar ends, "there is a constitutionally significant difference between" the two because discriminatory tax exemptions have been considered the type of state action "designed to give residents an advantage in the market place [that] is prohibited by the *Commerce Clause*." *Camps Newfound/Owatonna, Inc. v. Town of Harrison, Me.*, 520 U.S. 564, 589-91, 117 S. Ct. 1590, 137 L. Ed. 2d 852 (1997).

In the instant case, the PSC is not directly funding or providing pecuniary aid to a domestic business through general taxes, municipal bonds, or some other source of Maryland or PSC revenue. The PSC has elected to exercise its regulatory authority over the Maryland EDCs in such a way as to order those market actors to provide a local generation facility selected by the PSC with 20 years of financing in the form of the CfD and to permit the EDCs to recoup their losses and pass on their gains to Maryland SOS customers through increases or credits on retail electricity bills. The PSC has also opted to use the open market to earn revenues for its procured generation facility, as evidenced by the fact that any payment obligation of the EDCs, and, by extension, the Maryland ratepayers, under the CfD only arises if the generation facility actually sells its output into the interstate PJM Markets. Thus, the PSC's financing scheme is constitutionally distinct from a direct subsidy in a dormant *Commerce Clause* context. *See C & A Carbone, Inc. v. Town of Clarkstown, N.Y.*, 511 U.S. 383, 394, 114 S. Ct. 1677, 128 L. Ed. 2d 399 (1994) (explaining that where a flow control ordinance served the purpose of financing a town-sponsored facility and that since the town "elected to use the open market to earn revenues for its project, the town may not employ discriminatory regulation to give that project an advantage over rival business from out of State" and contrasting that with a situation in which the town "subsidize[d] the facility through general taxes or municipal bonds"). Placing the ultimate financial risk of the PSC's decision to procure the construction and operation of private facility in SWMAAC on Maryland ratepayers is also distinctly different from a direct subsidization. *See Alliance for Clean Coal v. Miller*, 44

F.3d 591, 596 (7th Cir. 1995). Indeed, holding that the PSC's actions fall within the realm of subsidies noted by the Supreme Court to be "dormant *Commerce Clause* friendly" would render the adjectives "pure" and "direct" meaningless.

Accordingly, the Court finds the PSC's actions cannot be characterized as a direct subsidization of the construction and operation of a local generation facility, irrespective of whether direct subsidies would be permissible under the *Commerce Clause*.

b. Market Participant Exception

Defendants assert that the PSC, on behalf of the Maryland ratepayers, is a "financier" of a new generation facility and thus should be considered a market participant in the market for new generation facilities whose actions are therefore not subject to the dormant *Commerce Clause*. Plaintiffs assert the market participant doctrine is inapplicable because the PSC is not buying or selling anything in the new generation market.

The market participant exception permits a state to discriminate against interstate commerce and prefer its own citizens when it acts as a participant in the market, and not as a regulator. *See Hughes v. Alexandria Scrap Corp.*, 426 U.S. 794, 802, 809-10, 96 S. Ct. 2488, 49 L. Ed. 2d 220 (1976) (finding that a law giving "Maryland processors an advantage over . . . non-Maryland processors in the competition for bounty-eligible hulks" was not subject to the dormant *Commerce Clause* where Maryland had acted as a market participant in using state monies to create and fund the "bounties" and concluding that the state was

free to favor its own citizens in receiving such bounties). The Supreme Court has explained that the market participant exception makes "good sense" because "the *Commerce Clause* responds principally to state taxes and regulatory measures impeding free private trade in the national marketplace. There is no indication of a constitutional plan to limit the ability of the States themselves to operate freely in the free market." *Reeves*, 447 U.S. at 436-37 (internal citations omitted). That is, when acting as a proprietor, states, like any private business, should be able to make decisions without *Commerce Clause* limits. *See id.* at 439.

Under the Generation Order and the CfD, the PSC is not buying, selling, or directly paying for anything in the new generation resource market. The CfD requires the generation facility to sell its energy and capacity to PJM in the PJM Markets. As the evidence at trial demonstrated, PJM sells the energy and capacity that it purchases from generation resources to LSEs within the PJM region, including the Maryland EDCs, who then resell the energy and capacity to Maryland end-use customers. With respect to "payment," the PSC is not a signatory to the CfD; that compensation scheme is between the generation facility and the Maryland EDCs. The EDCs have PSC authorization to pass on losses and gains under the CfD to Maryland ratepayers who pay the EDCs for retail electric sales. Under this scheme, the PSC is not acting as a proprietor or even directly participating in the free market or in a market it created, and therefore is not entitled to be treated as a private actor procuring a new generation facility for purposes of the *Commerce Clause*. *Cf. Brooks v. Vassar*, 462 F.3d 341, 357 (4th

Cir. 2006) (finding that where Virginia elected to sell alcohol from state-owned and state-operated stores, it was a participant in the alcohol retail market and therefore could elect not to sell out-of-state wines at its stores without dormant *Commerce Clause* concerns). Rather, as the face of the RFP makes clear, the PSC is acting as a regulator of electric distribution companies. See P.2 (2011 RFP) at 1 n.1 (citing regulatory authority relied upon by PSC in issuing the RFP). The fact that this regulatory action may have the "effect of subsidizing" the operation and construction of a local generation facility, "does not transform it into a form of state participation in the free market." *New Energy*, 486 U.S. at 277.⁷⁰

Accordingly, the Court finds the PSC's actions do not fall within the market participant exception.

c. Explicit Authorization from Congress

Defendants assert that the PSC's actions cannot give rise to a dormant *Commerce Clause* claim because Congress expressly authorized the states to regulate freely the siting of generation facilities within each respective state in Section 201(b)(1) of the Federal Power Act. 16 U.S.C. § 824(b)(1)). Plaintiffs contend that Defendants have failed to meet their burden of

⁷⁰ Furthermore, Defendants' contention that the PSC is acting as a market intermediary on behalf of Maryland ratepayers to finance a new generation facility and that the PSC is therefore a market participant is without merit or legal support. If the market participant exception were applicable solely because the state government propounded to be acting on behalf of its citizens (or some discrete group thereof), the exception would swallow the rule.

demonstrating a clear intent on behalf of Congress to permit states to discriminate against interstate commerce.

In exercising its authority under the *Commerce Clause*,

Congress may "confe[r] upon the States an ability to restrict the flow of interstate commerce that they would not otherwise enjoy." If Congress ordains that the States may freely regulate an aspect of interstate commerce, any action taken by a State within the scope of the congressional authorization is rendered invulnerable to *Commerce Clause* challenge. *W. & S. Life Ins. Co. v. State Bd. of Equalization of Ca.*, 451 U.S. 648, 652-53, 101 S. Ct. 2070, 68 L. Ed. 2d 514 (1981) (internal citations omitted). To exempt the states from scrutiny under the dormant *Commerce Clause*, "Congress must manifest its unambiguous intent before a federal statute will be read to permit or to approve . . . a violation of the *Commerce Clause*." *Wyoming v. Oklahoma*, 502 U.S. 437, 458, 112 S. Ct. 789, 117 L. Ed. 2d 1 (1992).

Section 201(b)(1) of the FPA provides, *inter alia*, that FERC "shall have jurisdiction over all facilities for such transmission or sale of electric energy, but shall not have jurisdiction, except as specifically provided in this subchapter and subchapter III of this chapter, over facilities used for the generation of electric energy." 16 U.S.C. § 824(b)(1). In examining the particular part of Section 201(b)(1) that references states' existing lawful authority over hydroelectric energy, the Supreme Court concluded that "§ 201(b) simply saves from pre-

emption under Part II of the Federal Power Act such state authority as was otherwise 'lawful'" and that "[n]othing in the legislative history or language of the statute evinces a congressional intent 'to alter the limits of state power otherwise imposed by the *Commerce Clause*.'" *New Eng. Power Co. v. New Hampshire*, 455 U.S. 331, 341, 102 S. Ct. 1096, 71 L. Ed. 2d 188 (1982) (citation omitted). As later recognized by the Supreme Court: "Our decisions have uniformly subjected *Commerce Clause* cases implicating the Federal Power Act to scrutiny on the merits." *Wyoming*, 502 U.S. at 458.

The Court finds Defendants have failed to demonstrate a clear and unambiguous intent on behalf of Congress to permit states to discriminate against interstate commerce in connection with the siting of generation facilities within a state.

3. Proof of Discrimination

The Court has found that the PSC's actions challenged by Plaintiffs do not fall within an established or recognized "exception" to the dormant *Commerce Clause*. As a result, "the *Commerce Clause* stands as constitutional limitation on the means by which [the PSC] can constitutionally seek to achieve [its] goal" of incentivizing the development and operation of a private local generation facility. See *Bacchus Imports*, 468 U.S. at 271.

Plaintiffs bear the burden to demonstrate that the Generation Order "'discriminates [against interstate commerce] facially, in its practical effect, or in its purpose.'" *Yamaha Motor Corp.*, 401 F.3d at 567 (alteration in original) (citation omitted). If Plaintiffs

make such a showing, then the Generation Order will be struck down unless Defendants demonstrate "both that the statute 'serves a legitimate local purpose [unrelated to economic protectionism],' and that this purpose could not be served well by available nondiscriminatory means." *Maine*, 477 U.S. at 138 (citation omitted). However, if Plaintiffs demonstrate that the Generation Order "amounts to simple economic protectionism, a 'virtually *per se* rule of invalidity' has [been] applied" by the Supreme Court. *See Wyoming*, 502 U.S. at 454-55 (1992) (citation omitted).

a. "SWMAAC" Locational Requirement Does Not Preclude a Finding of Affirmative Discrimination

The fact that the locational requirement is defined as "SWMAAC," which includes the District of Columbia and

only part of Maryland, does not "insulate" the Generation Order from Plaintiffs' contention that by virtue of the locational restriction in the RFP, the PSC affirmatively discriminated against interstate commerce. *See C & A Carbone*, 511 U.S. at 391 ("The ordinance is no less discriminatory because in-state or in-town processors are also covered by the prohibition."); *Dean Milk*, 340 U.S. at 354 n.4 ("It is immaterial that Wisconsin milk from outside the Madison area is subjected to the same proscription as that moving in interstate commerce."). Nor does the fact that SWMAAC includes the District of Columbia make any discrimination by the PSC no longer discriminatory. *See New Energy*, 486 U.S. at 274

(explaining that making a tax credit available to some out-of-state manufacturers does not make the credit not discriminatory); *Alliance for Clean Coal v. Bayh*, 72 F.3d 556, 560 (7th Cir. 1995) ("Protection of local, or even regional, industry is simply not a legislative action that is consistent with the *Commerce Clause*").

The Court finds that there was little, if any, realistic possibility that the generation facility in question would be located in the District of Columbia. Mr. Massey testified that about 98% of SWMAAC geographically is within Maryland. Tr. Mar. 6 (AM) at 37:16-18 (Massey). In addition, evidence as to the availability of useable sites in the District of Columbia, established a high degree of improbability - if not impossibility - that an acceptable facility could be located there. Moreover, the RFP required any proposal to include a "[d]escription of the reliability and direct economic *benefits to Maryland ratepayers* as a result of the Generation Capacity Resource" and provided that in scoring bids, 2.5% of the non-price score consisted of the "*benefits to the State of Maryland*." P.2 (2011 RFP) RFP at 10, 14-15 (emphasis added). In any event, even if the facility realistically could have been located in the District of Columbia rather than Maryland, this fact would have no bearing on the affirmative discrimination claim.

The Court finds that the PSC's regulatory action would be repugnant to the dormant *Commerce Clause* if it discriminates against economic interests outside a particular zone of the PJM region.

b. Differential Treatment of
In-State and Out-of-State Economic
Interests

Plaintiffs assert that the evidence establishes that the Generation Order discriminates against interstate commerce on its face and in its practical effect. Plaintiffs contend that the SWMAAC locational requirement treats in-state and out-of-state economic interests differently, "the former benefitting from exclusive rights to participate in the RFP and the latter precluded from participation."⁷¹ Pls.' Post-Trial Br. [Document 144] at 63. Defendants contend that Plaintiffs have failed to prove affirmative discrimination against interstate commerce.

The dormant *Commerce Clause* "prevents a State from 'jeopardizing the welfare of the Nation as a whole' by 'plac[ing] burdens on the flow of commerce across its borders that commerce wholly within those borders would not bear.'" *Am. Trucking Ass'ns, Inc. v. Mich. Pub. Serv. Comm'n*, 545 U.S. 429, 433, 125 S. Ct. 2419, 162 L. Ed. 2d 407 (2005) (alteration in original) (citation omitted). Precluding this type of state action enforces the principle that "[t]he mere fact of nonresidence should not foreclose a producer in one State from access to markets in other States." *Granholm v. Heald*, 544 U.S. 460, 472, 125 S. Ct. 1885, 161 L. Ed. 2d 796 (2005). As the Supreme Court explained in 1949:

Our system, fostered by the *Commerce Clause*, is that every farmer and every craftsman shall

⁷¹ A representative of PPL testified that PPL reviewed the PSC's RFP but did not participate because PPL "did not have generation asset facility [sic] that was in SWMAAC and available to participate based on that requirement" and the "RFP acted in a manner inconsistent with [PPL's] market principles." Tr. Mar. 4 (AM) at 71:9-24 (Alessandrini).

be encouraged to produce by the certainty that he will have free access to every market in the Nation, that no home embargoes will withhold his exports, and no foreign state will by customs duties or regulations exclude them. Likewise, every consumer may look to the free competition from every producing area in the Nation to protect him from exploitation by any. Such was the vision of the Founders; such has been the doctrine of this Court which has given it reality.

H.P. Hood & Sons, Inc. v. Du Mond, 336 U.S. 525, 539, 69 S. Ct. 657, 93 L. Ed. 865 (1949).

Discrimination for purposes of the dormant *Commerce Clause* "simply means differential treatment of in-state and out-of-state economic interests that benefits the former and burdens the latter." *Or. Waste Sys.*, 511 U.S. at 99-100 (holding that a greater surcharge on disposal of in-state waste than on disposal of out-of-state waste facially discriminated against interstate commerce). For instance, states may not "provid[e] a direct commercial advantage to local business." *Nw. States Portland Cement Co. v. Minnesota*, 358 U.S. 450, 458, 79 S. Ct. 357, 3 L. Ed. 2d 421 (1959). "Permitting the individual States to enact laws that favor local enterprises at the expense of out-of-state businesses 'would invite a multiplication of preferential trade areas destructive' of the free trade which the Clause protects." *Boston Stock Exch. v. State Tax Comm'n*, 429 U.S. 318, 329, 97 S. Ct. 599, 50 L. Ed. 2d 514 (1977) (citation omitted). The Supreme Court has considered states to have impermissibly favored in-state economic interests over out-of-state

economic interests by: (1) providing only tax credits for in-state sales of products actually produced in-state, *New Energy*, 486 U.S. at 271; (2) precluding out-of-state producers from shipping products directly to in-state consumers, *Granholm*, 544 U.S. at 473-74; and (3) giving property tax exemptions to in-state entities that primarily serve state residents but not to in-state entities that principally serve interstate clientele, *Camps Newfound/Owatonna*, 520 U.S. at 576-77.

The Court finds that Plaintiffs have failed to prove that the SWMAAC locational requirement is facially discriminatory for purposes of the dormant *Commerce Clause*.⁷² The mere fact that the PSC sought to procure a new generation facility located within SWMAAC does not, standing alone, discriminate *against* the flow of interstate commerce. The Generation Order does not erect any barriers to the sale or transmission of electric energy at wholesale in and out of SWMAAC and within the PJM region or to providing a competitive advantage to an in-SWMAAC generation facility selling electric energy at wholesale at the expense of other generation facilities competing in the same market. CPV's facility would compete in the PJM Markets with all other resources to sell its energy and capacity to PJM. The Maryland EDCs directed to enter into the CfD would likewise continue to purchase energy and capacity from the wholesale energy markets, including from PJM in the

⁷² Plaintiff's dormant *Commerce Clause* claim is limited to the SWMAAC locational requirement. Hence, there is no contention that the Generation Order sans the SWMAAC locational requirement discriminated against interstate commerce by orchestrating long-term financing for a preferred market participant.

PJM Markets. *Cf. Wyoming*, 502 U.S. at 455-56 (finding that a law that required all in-state coal-fired power plants to burn a mixture of coal containing 10% coal mined in the state discriminated on its face and in practical effect against interstate commerce because such a requirement explicitly operated to the exclusion of coal mined in other states); *Dean Milk*, 340 U.S. at 350, 353 (holding that a city ordinance that "ma[de] it unlawful to sell any milk as pasteurized unless it has been processed and bottled at an approved pasteurization plant within a radius of five miles" from the city of Madison violated the dormant Commerce Clause).

Though the PSC has exercised its regulatory power to create and sustain another competitor in the wholesale energy market through indirect subsidization, the fact that the PSC limited its financial backing to a yet-to-built facility in SWMAAC does not equate to affirmative discrimination against interstate commerce or out-of-state economic interests within the meaning of the dormant *Commerce Clause*. *See generally McBurney*, 667 F.3d at 469 (explaining that the dormant *Commerce Clause* "does not purport to . . . protect the participants in intrastate or interstate markets, nor the participants' chosen way of doing business" (alteration in original) (citation omitted)).

Relying on *Alliance for Clean Coal v. Miller*, 44 F.3d 591 (7th Cir. 1995), Plaintiffs assert the SWMAAC "locational requirement discriminates against out-of-state commerce [because] it effectively displaces imported power with locally produced power." Pls.' Post-Trial Br. [Document 144] at 64. However, the Seventh Circuit's decision in *Alliance for Clean Coal*

does not stand for the broad proposition that displacing imported energy discriminates against interstate commerce. In *Alliance for Clean Coal*, Illinois passed a law that, while not compelling all in-state coal burning generators to burn high-sulfur coal mined in Illinois, implemented several statutory mechanisms⁷³ that significantly hindered, if not totally prevented, Illinois utilities from switching to low-sulfur out-of-state coal to meet environmental mandates. 44 F.3d at 594-96. Through these statutory mechanisms, the Seventh Circuit held that Illinois discriminated against interstate commerce by making out-of-state coal a less viable option for in-state generators to meet environmental mandates. *See id.* at 596. *Alliance for Clean Coal* is less than comparable to the instant case because the PSC did not act for the explicit purpose of protecting some in-state business, like coal mining, in the wake of new federal regulation threatening to wipe out that local business. *See id.* at 594-96 (explaining that federal amendments to the Clean Air Act "meant the end of the salad days for high-sulfur coal-producing states such as Illinois"). Moreover, the PSC has in no way regulated to make energy generated outside SWMAAC a less viable and/or less competitive option for distribution in Maryland.

⁷³ For instance, the Illinois law: (1) required the state regulatory entity to take into account the local coal industry when considering plans to comply with sulfur-related environmental mandates; (2) mandated that certain generating units install scrubbers so that those units could burn the high-sulfur Illinois coal; (3) guaranteed the cost of the scrubbers would be passed through to consumers; and (4) required a utility to get regulatory approval before changing its fuel source in a way that would result in a 10% or greater decrease in the use of Illinois coal. *Alliance for Clean Coal v. Miller*, 44 F.3d 591, 595-96 (7th Cir. 1995).

Furthermore, the evidence does not support the claim that the Generation Order will discriminatorily displace imported power. The Generation Order will add additional supply to the wholesale energy marketplace, but whether or not any power is displaced will depend upon demand and all the factors that play into the market-based auction process administered by PJM. If demand for electric energy increases in proportion to the capacity of a new facility, then the facility's effect is neutral. Also, the generator called for in the Generation Order would sell to PJM in the PJM Markets so that any displacement of power will be the result of PJM's dispatch and procurement models. *See* Tr. Mar. 6 (AM) at 18:1-19:18, 22:5-10, (Massey). Even absent the SWMAAC locational requirement, the procurement of a new generation facility would have the same displacement effects complained of by Plaintiffs because that facility would still increase the available supply of electric energy and capacity.

The Court does not find persuasive Plaintiffs' position that the SWMAAC locational restriction discriminates against interstate commerce because it requires economic activity to take place in-state to the exclusion of out-of-state sources of the same activity. As discussed *supra*, the Generation Order does not impose any hindrance on the ability of market participants to buy and sell wholesale energy and related products in the PJM region. Therefore, the existence of a facility in Maryland does not operate to the exclusion of generation facilities outside of SWMAAC, which are still free to supply electric energy to Maryland EDCs through the PJM Markets or bilateral transactions. The decisions relied upon by

Plaintiffs in support of their position are inapposite. For instance, in *Tri-M Grp., LLC v. Sharp*, the Third Circuit struck down a residency requirement as facially discriminatory under the dormant *Commerce Clause* because the regulatory scheme required a contractor to set up and maintain a permanent office location in the state to be eligible to pay lower apprentice wage rates for work done on in-state public projects. 638 F.3d 406, 412, 413 (3d Cir. 2011). The Third Circuit explained this type of in-state presence requirement "forces out-of-state contractors . . . to 'surrender whatever competitive advantages they may possess' by burdening them with expenditures for a new local operation, or with the payment of increased wages on their contracts." *See id.* at 427-28. Here, the Generation Order does not require any out-of-state competitor to establish a physical presence in SWMAAC or Maryland to supply electric energy to Maryland residents.⁷⁴

Accordingly, the Court finds that the Plaintiffs have failed to demonstrate that the Generation Order discriminates against interstate commerce either facially, in its practical effect, or in its purpose as a consequence of the SWMAAC locational requirement in the RFP.

⁷⁴ The Generation Order also cannot be construed as an in-state processing requirement of the kind considered to discriminate against interstate commerce because it imposes no requirement that Maryland EDCs purchase electric energy and/or capacity from a generator located within SWMAAC. *Cf. C & A Carbone, Inc. v. Town of Clarkstown, N.Y.*, 511 U.S. 383, 386-87, 394, 114 S. Ct. 1677, 128 L. Ed. 2d 399 (1994) (finding that a local regulation had the practical effect of discriminating against interstate commerce where it only allowed a preferred local facility to provide commercial service of processing waste within the town limits).

4. Burden on Interstate Commerce

Plaintiffs contend that the Generation Order imposes a significant burden on interstate commerce and that there is no evidence in the record demonstrating that the Order was needed to maintain reliability in Maryland. Defendants maintain that Plaintiffs have failed to meet their burden of demonstrating that the benefits of the Generation Order are clearly outweighed by the burdens it imposes on interstate commerce.

State action that does not affirmatively discriminate against interstate commerce may nonetheless violate the dormant *Commerce Clause* if it places an undue burden on interstate commerce. See *Yamaha Motor Corp.*, 401 F.3d at 567. The Supreme Court has noted:

[I]t must be borne in mind that the Constitution when 'conferring upon Congress the regulation of commerce, . . . never intended to cut the States off from legislating on all subjects relating to the health, life, and safety of their citizens, though the legislation might indirectly affect the commerce of the country.'"

Huron Portland Cement Co. v. City of Detroit, Mich., 362 U.S. 440, 443-44, 80 S. Ct. 813, 4 L. Ed. 2d 852 (1960) (alteration in original).

To determine whether state action burdens interstate commerce in violation of the dormant *Commerce Clause*, courts apply the *Pike* undue burden balancing test:

Where the statute regulates even-handedly to effectuate a legitimate local public interest, and its effects on interstate commerce are only incidental, it will be upheld unless the burden imposed on such commerce is clearly excessive in relation to the putative local benefits. If a legitimate local purpose is found, then the question becomes one of degree. And the extent of the burden that will be tolerated will of course depend on the nature of the local interest involved, and on whether it could be promoted as well with a lesser impact on interstate activities.

Pike v. Bruce Church, Inc., 397 U.S. 137, 142, 90 S. Ct. 844, 25 L. Ed. 2d 174 (1970) (internal citation omitted). The undue burden test is less scrutinizing than the test for affirmatively discriminatory state actions. See *Yamaha Motor Corp.*, 401 F.3d at 567.

As discussed herein, Maryland has a legitimate interest in ensuring that Maryland residents have available to them an adequate and reliable supply of electric energy. Presumably,⁷⁵ Plaintiffs take the position that the SWMAAC locational requirement constitutes an undue burden on interstate commerce. The PSC regulated to finance indirectly the development and operation of a generation facility within SWMAAC, which will participate in the wholesale energy and capacity markets in the PJM region like any other generation facility. Other than increasing the available supply of electric energy and capacity in the PJM region by adding a new generation facility in SWMAAC, the Generation Order does not

⁷⁵ Plaintiffs' position is not perfectly clear on this point.

affect the ability of other market participants to sell energy and capacity in the PJM Markets. The Court does not find evidence that the addition of a state-sponsored market participant physically located within SWMAAC imposes a burden, let alone an undue burden, on interstate commerce.

Even if the Generation Order could be viewed as placing or imposing some burden on interstate commerce, the burden would be *de minimis*, and thus, not clearly excessive in relation to the benefits to Maryland. The soundness of the PSC's reasoning in choosing to limit the RFP to generators physically located within SWMAAC can, like the rationale for most regulatory actions, be the subject of reasonable debate. However, the rationale reflected in the Generation Order and related materials is not so irrational as to be outweighed by an incidental burden on interstate commerce.

Accordingly, the Court finds that Plaintiffs have failed to demonstrate that the Generation Order, as a consequence of the SWMAAC locational requirement in the RFP, imposes an undue burden on interstate commerce that is clearly excessive in relation to the putative local benefits.

C. Violation of 42 U.S.C. § 1983 (Count III)

In Count III, Plaintiffs claim that the PSC deprived them of their federal statutory rights protected by 42 U.S.C. § 1983. To the extent that Plaintiffs have not abandoned that claim, the Court finds it meritless because the Fourth Circuit has "held that the Supremacy Clause is not a source of substantive individual rights that could support an

action brought pursuant to Section 1983." *Maryland Pest Control Asso. v. Montgomery County*, 884 F.2d 160, 162-63 (4th Cir. 1989) (per curiam).

IV. CONCLUSION

For the reasons set forth herein, the Court decides that:

1. The Generation Order is violative of the Supremacy Clause of the United States Constitution.

2. The Generation Order is not violative of the dormant *Commerce Clause of the United States Constitution*.

3. Plaintiffs have not presented a viable claim under 42 U.S.C. § 1983.

SO DECIDED, this Monday, September 30, 2013.

/s/ Marvin J. Garbis

United States District Judge

APPENDIX

TERM/ACRONYM	DEFINITION
PSC	Maryland Public Service Commission
Order / Generation Order	Order No. 84815 issued by the PSC on April 12, 2012
EDCs	Electric Distribution Companies
CfD	Contract for Differences entered into by CPV and the Maryland EDCs pursuant to the Generation Order
FPA	Federal Power Act
FERC	Federal Energy Regulatory Commission
RTO	Regional Transmission Organization
PJM region	13 states and the District of Columbia
PJM	PJM Interconnection, LLC
LSE	Load Serving Entity, an entity that has state or local authority to sell electric energy to end-use customers located within the PJM region
RAA	Reliability Assurance Agreement
BRA	Base Residual Auction
RPM	Reliability Price Model
RTEP	Regional Transmission Expansion Plan
FRR	Fixed Resource Requirement Alternative
Uprate	Action taken by an existing

TERM/ACRONYM	DEFINITION
TrAIL	generation facility to expand its generation capacity Trans-Allegheny Interstate Line, a transmission line constructed and placed into service by PJM
EQR	Electronic Quarterly Report. pursuant to a FERC requirement, entities that have market-based rate tariffs are required to file on a quarterly basis a report of all the transactions and contracts entered into that are subject to the jurisdiction of FERC. Tr. Mar. 7 (AM) at 114:16-115:8 (Knight).
MOPR PJM Tariff	Minimum Offer Price Rule The Open Access Transmission Tariff pursuant to which PJM operates

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PJM	PJM Interconnection, LLC
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MOPR PJM Tariff	Minimum Offer Price Rule The Open Access Transmission Tariff pursuant to which PJM operates

APPENDIX D

FILED: June 30, 2014

UNITED STATES COURT OF APPEALS
FOR THE FOURTH CIRCUIT

No. 13-2419 (L)
(1:12-cv-01286-MJG)

PPL ENERGYPLUS, LLC; PPL BRUNNER
ISLAND, LLC; PPL HOLTWOOD, LLC; PPL
MARTINS CREEK, LLC; PPL MONTOUR, LLC;
PPL SUSQUEHANNA, LLC; LOWER MOUNT
BETHEL ENERGY, LLC; PPL NEW JERSEY
SOLAR, LLC; PPL NEW JERSEY BIOGAS, LLC;
PPL RENEWABLE ENERGY, LLC; PSEG
POWER LLC; ESSENTIAL POWER, LLC

Plaintiffs - Appellees v.

DOUGLAS R.M. NAZARIAN; HAROLD
WILLIAMS; LAWRENCE BRENNER; KELLY
SPEAKES-BACKMAN; KEVIN HUGHES

Defendants – Appellants

and

CPV MARYLAND, LLC

Defendant

AMERICAN PUBLIC POWER ASSOCIATION;
 NATIONAL RURAL ELECTRIC
 COOPERATIVE ASSOCIATION; NRG ENERGY
 INC.; MARYLAND OFFICE OF PEOPLE'S
 COUNSEL; CONNECTICUT PUBLIC
 UTILITIES REGULATORY AUTHORITY;
 CONNECTICUT DEPARTMENT OF ENERGY
 AND ENVIRONMENTAL PROTECTION;
 GEORGE JEPSEN, Attorney General for the
 State of Connecticut; CONNECTICUT OFFICE
 OF CONSUMER COUNSEL; NEW ENGLAND
 CONFERENCE OF PUBLIC UTILITIES
 COMMISSIONERS, INC.; MAINE PUBLIC
 UTILITIES COMMISSION; RHODE ISLAND
 PUBLIC UTILITIES COMMISSION;
 VERMONT PUBLIC SERVICE BOARD;
 VERMONT DEPARTMENT OF PUBLIC
 SERVICE; CALIFORNIA PUBLIC UTILITIES
 COMMISSION; PUBLIC SERVICE
 COMMISSION OF THE STATE OF NEW YORK
 (NYPSC); PUBLIC SERVICE COMMISSION OF
 THE DISTRICT OF COLUMBIA; DELAWARE
 PUBLIC SERVICE COMMISSION; NEW
 JERSEY BOARD OF PUBLIC UTILITIES; NEW
 JERSEY DIVISION OF RATE COUNSEL;
 MARYLAND ENERGY ADMINISTRATION;
 AMERICAN WIND ENERGY ASSOCIATION;
 THE MID-ATLANTIC RENEWABLE ENERGY
 COALITION

Amici Supporting Appellant

PJM POWER PROVIDERS GROUP; ELECTRIC
 POWER SUPPLY ASSOCIATION; EDISON

199a

ELECTRIC INSTITUTE

Amici Supporting Appellee

No. 13-2424
(1:12-cv-01286-MJG)

PPL ENERGYPLUS, LLC; PPL BRUNNER
ISLAND, LLC; PPL HOLTWOOD, LLC; PPL
MARTINS CREEK, LLC; PPL MONTOUR, LLC;
PPL SUSQUEHANNA, LLC; LOWER MOUNT
BETHEL ENERGY, LLC; PPL NEW JERSEY
SOLAR, LLC; PPL NEW JERSEY BIOGAS,
LLC; PPL RENEWABLE ENERGY, LLC; PSEG
POWER, LLC; ESSENTIAL POWER, LLC

Plaintiffs - Appellees

v.

CPV MARYLAND, LLC

Defendant - Appellant

and

DOUGLAS R.M. NAZARIAN; HAROLD
WILLIAMS; LAWRENCE BRENNER; KELLY
SPEAKES-BACKMAN; KEVIN HUGHES

Defendants

AMERICAN PUBLIC POWER ASSOCIATION;
NATIONAL RURAL ELECTRIC
COOPERATIVE ASSOCIATION; NRG ENERGY
INC.; MARYLAND OFFICE OF PEOPLE'S
COUNSEL; CONNECTICUT PUBLIC
UTILITIES REGULATORY AUTHORITY;
CONNECTICUT DEPARTMENT OF ENERGY
AND ENVIRONMENTAL PROTECTION;
GEORGE JEPSEN, Attorney General for the
State of Connecticut; CONNECTICUT OFFICE
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CONFERENCE OF PUBLIC UTILITIES
COMMISSIONERS, INC.; MAINE PUBLIC
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PUBLIC UTILITIES COMMISSION;
VERMONT PUBLIC SERVICE BOARD;
VERMONT DEPARTMENT OF PUBLIC
SERVICE; CALIFORNIA PUBLIC UTILITIES
COMMISSION; PUBLIC SERVICE
COMMISSION OF THE STATE OF NEW YORK
(NYPSC); PUBLIC SERVICE COMMISSION OF
THE DISTRICT OF COLUMBIA; DELAWARE
PUBLIC SERVICE COMMISSION; NEW
JERSEY BOARD OF PUBLIC UTILITIES; NEW
JERSEY DIVISION OF RATE COUNSEL;
MARYLAND ENERGY ADMINISTRATION;
AMERICAN WIND ENERGY ASSOCIATION;
THE MID-ATLANTIC RENEWABLE ENERGY
COALITION

Amici Supporting Appellant

PJM POWER PROVIDERS GROUP; ELECTRIC
POWER SUPPLY ASSOCIATION; EDISON
ELECTRIC INSTITUTE

201a

Amici Supporting Appellee

O R D E R

The court denies the petitions for rehearing and rehearing en banc. No judge requested a poll under Fed. R. App. P. 35 on the petitions for rehearing en banc.

Entered at the direction of the panel:
Judge Wilkinson, Judge Keenan, and Judge Diaz.

For the Court

/s/ Patricia S. Connor, Clerk

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APPENDIX E

FILED: June 2, 2014

UNITED STATES COURT OF APPEALS
FOR THE FOURTH CIRCUIT

No. 13-2419 (L)
(1:12-cv-01286-MJG)

PPL ENERGYPLUS, LLC; PPL BRUNNER
ISLAND, LLC; PPL HOLTWOOD, LLC; PPL
MARTINS CREEK, LLC; PPL MONTOUR, LLC;
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BETHEL ENERGY, LLC; PPL NEW JERSEY
SOLAR, LLC; PPL NEW JERSEY BIOGAS, LLC;
PPL RENEWABLE ENERGY, LLC; PSEG
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Plaintiffs - Appellees v.

DOUGLAS R.M. NAZARIAN; HAROLD
WILLIAMS; LAWRENCE BRENNER; KELLY
SPEAKES-BACKMAN; KEVIN HUGHES

Defendants – Appellants

and

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 AND ENVIRONMENTAL PROTECTION;
 GEORGE JEPSEN, Attorney General for the
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 CONFERENCE OF PUBLIC UTILITIES
 COMMISSIONERS, INC.; MAINE PUBLIC
 UTILITIES COMMISSION; RHODE ISLAND
 PUBLIC UTILITIES COMMISSION;
 VERMONT PUBLIC SERVICE BOARD;
 VERMONT DEPARTMENT OF PUBLIC
 SERVICE; CALIFORNIA PUBLIC UTILITIES
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 (NYPSC); PUBLIC SERVICE COMMISSION OF
 THE DISTRICT OF COLUMBIA; DELAWARE
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 JERSEY BOARD OF PUBLIC UTILITIES; NEW
 JERSEY DIVISION OF RATE COUNSEL;
 MARYLAND ENERGY ADMINISTRATION;
 AMERICAN WIND ENERGY ASSOCIATION;
 THE MID-ATLANTIC RENEWABLE ENERGY
 COALITION

Amici Supporting Appellant

PJM POWER PROVIDERS GROUP; ELECTRIC
 POWER SUPPLY ASSOCIATION; EDISON

204a

ELECTRIC INSTITUTE

Amici Supporting Appellee

No. 13-2424
(1:12-cv-01286-MJG)

PPL ENERGYPLUS, LLC; PPL BRUNNER ISLAND, LLC; PPL HOLTWOOD, LLC; PPL MARTINS CREEK, LLC; PPL MONTOUR, LLC; PPL SUSQUEHANNA, LLC; LOWER MOUNT BETHEL ENERGY, LLC; PPL NEW JERSEY SOLAR, LLC; PPL NEW JERSEY BIOGAS, LLC; PPL RENEWABLE ENERGY, LLC; PSEG POWER, LLC; ESSENTIAL POWER, LLC

Plaintiffs - Appellees

v.

CPV MARYLAND, LLC

Defendant - Appellant

and

DOUGLAS R.M. NAZARIAN; HAROLD WILLIAMS; LAWRENCE BRENNER; KELLY SPEAKES-BACKMAN; KEVIN HUGHES

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 JERSEY DIVISION OF RATE COUNSEL;
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 COALITION

Amici Supporting Appellant

PJM POWER PROVIDERS GROUP; ELECTRIC
 POWER SUPPLY ASSOCIATION; EDISON
 ELECTRIC INSTITUTE

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Amici Supporting Appellee

J U D G M E N T

In accordance with the decision of this court, the judgment of the district court is affirmed.

This judgment shall take effect upon issuance of this court's mandate in accordance with Fed. R. App. P. 41.

/s/ PATRICIA S. CONNOR, CLERK

APPENDIX F

U.S. CONSTITUTION

ARTICLE VI, CLAUSE 2.

This Constitution, and the Laws of the United States which shall be made in Pursuance thereof; and all Treaties made, or which shall be made, under the Authority of the United States, shall be the supreme Law of the Land; and the Judges in every State shall be bound thereby; any Thing in the Constitution or Laws of any State to the Contrary notwithstanding.

APPENDIX G

Federal Power Act § 201, 16 U.S.C. § 824 provides in pertinent part:

§824. Declaration of policy; application of subchapter**(a) Federal regulation of transmission and sale of electric energy**

It is declared that the business of transmitting and selling electric energy for ultimate distribution to the public is affected with a public interest, and that Federal regulation of matters relating to generation to the extent provided in this subchapter and subchapter III of this chapter and of that part of such business which consists of the transmission of electric energy in interstate commerce and the sale of such energy at wholesale in interstate commerce is necessary in the public interest, such Federal regulation, however, to extend only to those matters which are not subject to regulation by the States.

(b) Use or sale of electric energy in interstate commerce

(1) The provisions of this subchapter shall apply to the transmission of electric energy in interstate commerce and to the sale of electric energy at wholesale in interstate commerce, but except as provided in paragraph (2) shall not apply to any other sale of electric energy or deprive a State or State commission of its lawful authority now exercised over the exportation of hydroelectric energy which is transmitted across a State line. The Commission shall have jurisdiction over all facilities for such transmission or sale of electric energy, but shall not have jurisdiction, except as specifically

provided in this subchapter and subchapter III of this chapter, over facilities used for the generation of electric energy or over facilities used in local distribution or only for the transmission of electric energy in intrastate commerce, or over facilities for the transmission of electric energy consumed wholly by the transmitter.

(2) Notwithstanding subsection (f) of this section, the provisions of sections 824b(a)(2), 824e(e), 824i, 824j, 824j-1, 824k, 824o, 824p, 824q, 824r, 824s, 824t, 824u, and 824v of this title shall apply to the entities described in such provisions, and such entities shall be subject to the jurisdiction of the Commission for purposes of carrying out such provisions and for purposes of applying the enforcement authorities of this chapter with respect to such provisions. Compliance with any order or rule of the Commission under the provisions of section 824b(a)(2), 824e(e), 824i, 824j, 824j-1, 824k, 824o, 824p, 824q, 824r, 824s, 824t, 824u, or 824v of this title, shall not make an electric utility or other entity subject to the jurisdiction of the Commission for any purposes other than the purposes specified in the preceding sentence.

(c) Electric energy in interstate commerce

For the purpose of this subchapter, electric energy shall be held to be transmitted in interstate commerce if transmitted from a State and consumed at any point outside thereof; but only insofar as such transmission takes place within the United States.

(d) "Sale of electric energy at wholesale" defined

The term "sale of electric energy at wholesale" when used in this subchapter, means a sale of electric energy to any person for resale.

(e) "Public utility" defined

The term "public utility" when used in this subchapter and subchapter III of this chapter means any person who owns or operates facilities subject to the jurisdiction of the Commission under this subchapter (other than facilities subject to such jurisdiction solely by reason of section 824e(e), 824e(f),¹ 824i, 824j, 824j-1, 824k, 824o, 824p, 824q, 824r, 824s, 824t, 824u, or 824v of this title).

(f) United States, State, political subdivision of a State, or agency or instrumentality thereof exempt

No provision in this subchapter shall apply to, or be deemed to include, the United States, a State or any political subdivision of a State, an electric cooperative that receives financing under the Rural Electrification Act of 1936 (7 U.S.C. 901 et seq.) or that sells less than 4,000,000 megawatt hours of electricity per year, or any agency, authority, or instrumentality of any one or more of the foregoing, or any corporation which is wholly owned, directly or indirectly, by any one or more of the foregoing, or any officer, agent, or employee of any of the foregoing acting as such in the course of his official duty, unless such provision makes specific reference thereto.

* * * * *

APPENDIX H

Federal Power Act § 205, 16 U.S.C. § 824d provides in pertinent part:

§824d. Rates and charges; schedules; suspension of new rates; automatic adjustment clauses

(a) Just and reasonable rates

All rates and charges made, demanded, or received by any public utility for or in connection with the transmission or sale of electric energy subject to the jurisdiction of the Commission, and all rules and regulations affecting or pertaining to such rates or charges shall be just and reasonable, and any such rate or charge that is not just and reasonable is hereby declared to be unlawful.

* * * * *

(c) Schedules

Under such rules and regulations as the Commission may prescribe, every public utility shall file with the Commission, within such time and in such form as the Commission may designate, and shall keep open in convenient form and place for public inspection schedules showing all rates and charges for any transmission or sale subject to the jurisdiction of the Commission, and the classifications, practices, and regulations affecting such rates and charges, together with all contracts which in any manner affect or relate to such rates, charges, classifications, and services.

(d) Notice required for rate changes

Unless the Commission otherwise orders, no change shall be made by any public utility in any such rate, charge, classification, or service, or in any rule, regulation, or contract relating thereto, except after sixty days' notice to the Commission and to the public. Such notice shall be given by filing with the Commission and keeping open for public inspection new schedules stating plainly the change or changes to be made in the schedule or schedules then in force and the time when the change or changes will go into effect. The Commission, for good cause shown, may allow changes to take effect without requiring the sixty days' notice herein provided for by an order specifying the changes so to be made and the time when they shall take effect and the manner in which they shall be filed and published.

(e) Suspension of new rates; hearings; five-month period

Whenever any such new schedule is filed the Commission shall have authority, either upon complaint or upon its own initiative without complaint, at once, and, if it so orders, without answer or formal pleading by the public utility, but upon reasonable notice, to enter upon a hearing concerning the lawfulness of such rate, charge, classification, or service; and, pending such hearing and the decision thereon, the Commission, upon filing with such schedules and delivering to the public utility affected thereby a statement in writing of its reasons for such suspension, may suspend the operation of such schedule and defer the use of such rate, charge, classification, or service, but not for a

longer period than five months beyond the time when it would otherwise go into effect; and after full hearings, either completed before or after the rate, charge, classification, or service goes into effect, the Commission may make such orders with reference thereto as would be proper in a proceeding initiated after it had become effective. If the proceeding has not been concluded and an order made at the expiration of such five months, the proposed change of rate, charge, classification, or service shall go into effect at the end of such period, but in case of a proposed increased rate or charge, the Commission may by order require the interested public utility or public utilities to keep accurate account in detail of all amounts received by reason of such increase, specifying by whom and in whose behalf such amounts are paid, and upon completion of the hearing and decision may by further order require such public utility or public utilities to refund, with interest, to the persons in whose behalf such amounts were paid, such portion of such increased rates or charges as by its decision shall be found not justified. At any hearing involving a rate or charge sought to be increased, the burden of proof to show that the increased rate or charge is just and reasonable shall be upon the public utility, and the Commission shall give to the hearing and decision of such questions preference over other questions pending before it and decide the same as speedily as possible.

* * * * *

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APPENDIX I

**Supreme Court of the United States
Office of the Clerk
Washington, DC 20543-0001**

Scott S. Harris
Clerk of the Court
(202) 479-3011

September 15, 2014

Clerk
United States Court of Appeals for the Fourth
Circuit
1100 East Main Street
Room 501
Richmond, VA 23219

Re: Douglas R. M. Nazarian, et al.
v. PPL Energy Plus, LLC, et al.
Application No. 14A282
(Your No. 13-2419, 13-2424)

Dear Clerk:

The application for an extension of time within which to file a petition for a writ of certiorari in the above-entitled case has been presented to The Chief Justice, who on September 15, 2014, extended the time to and including November 27, 2014.

This letter has been sent to those designated on the attached notification list.

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Sincerely,

Scott S. Harris, Clerk

by

Redmond K. Barnes
Case Analyst

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**Supreme Court of the United States
Office of the Clerk
Washington, DC 20543-0001**

Scott S. Harris
Clerk of the Court
(202) 479-3011

NOTIFICATION LIST

Mr. Scott H. Strauss
Spiegel & McDiarmid LLP
1875 Eye Street, NW
Ste. 700
Washington, DC 20006

Clerk
United States Court of Appeals for the Fourth
Circuit
1100 East Main Street
Room 501
Richmond, VA 23219