

- **25<sup>TH</sup> ANNUAL OHIO  
ENERGY SAVINGS &  
MANAGEMENT  
CONFERENCE**

BRADLEY BELDEN  
THE BELDEN BRICK COMPANY - PRESIDENT  
OMA ENERGY GROUP - CHAIRMAN





## Belden Brick's reason for joining OMAEG

“Our company does not have the resources to dedicate full-time staff to understand the myriad of regulations and cases that goes through the PUCO. The OMA Energy Group offers us a cost-effective solution to allow us to participate in a meaningful way by joining forces with other respected companies.”



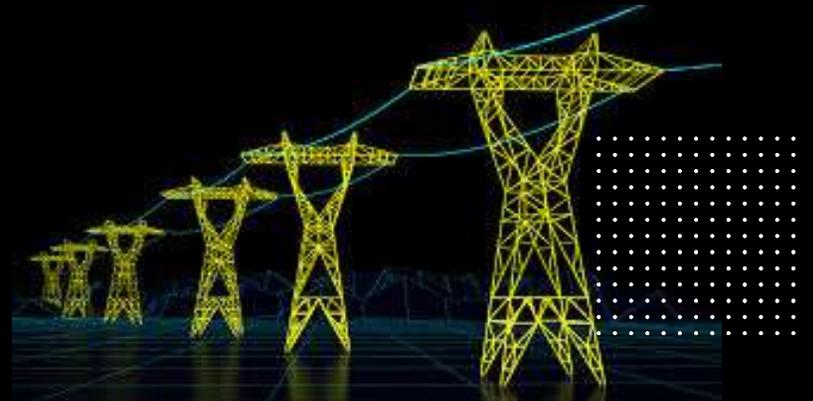
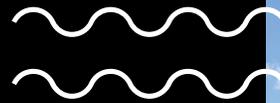
# ● Main Priorities

- Engage in Ohio's regulatory process – via the PUCO and Legislature to protect our interests.
- Interests have focused on letting energy markets work.
- Providing resources and education on energy efficiency efforts.
- Understanding the framework of the electric grid across the state and PJM, the Regional Transmission Organization.



# Generation vs. Transmission

- Electric Transmission costs have risen even as Generation costs have dropped significantly as the natural gas boom offered another tool in this field.
- This is a result of several non-bypassable riders allowing Generation based costs to be charged on the Transmission side of the bill.





# Generation wins – Market Based

\*Operational/Under Construction/Planned





# Non-Bypassable Riders

BTCR	NMB	CAF	NMB
LGR	DIR	PIRR	RSR
	CSR	PTBAR	



# ● HB 6

- Opposed from the start
- Challenged these main points:
  - Nuclear Bailout
    - Audit provisions were weak
    - Still no evidence the plants were unprofitable
  - OVEC
    - Clean Air Bill?
    - Plants are dirty and unprofitable, but have no incentive to be
    - One of the two plants is in Indiana
  - Decoupling
    - Vague language to “recession proof” FirstEnergy
    - Little discussed provision would have cost customers \$102 million in the first year



# ● HB 6 - Cost targets to pay for new riders

## **Renewable Portfolio Standard**

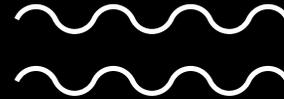
- HB 6 has more expensive renewable energy subsidies than before
- Original concept of RPS was to develop the market while limiting the cost impact
- More companies are purchasing renewable power on their own

## **Energy Efficiency**

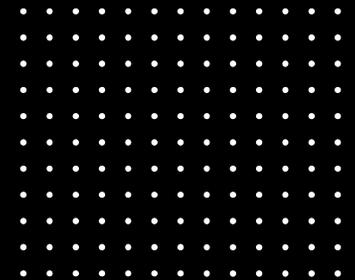
- This programs drove companies to examine their facilities
- Early studies proved that even non-participants saved money since excess capacity of EE would drive down generation costs
- Many companies jumped on this, but the programs became weaker and more expensive over time



- Roll back provisions of HB 6
- RPS and EE mandates should have their own discussion to balance cost with benefit
- Monitor any additional riders that the Electric Security Plans allow
- Advocate for refunds where charges are deemed unlawful.
- Proponent of SB 10 as the start of the HB 6 roll back
  - Decoupling removed
  - Repeal SEET revision of HB 166
- Monitor transmission projects



## 2021 Priorities





# SUMMARY

- Markets help manufacturers & other industries
- Markets seem to be lowering bills and helping the environment
- Understanding your bill and how regulations impact it is critical
- Engaging in the regulatory process is the only way to protect your interests





**Sub. House Bill 6  
Opponent Testimony**

**Before the Energy and Public Utilities Committee  
Senator Steve Wilson, Chair**

**Presented by**

**Brad Belden  
President, The Belden Brick Company**

**June 18, 2019**

Chairman Wilson, Vice Chair McColley, Ranking Member Williams and members of the Energy and Public Utilities Committee, thank you for the opportunity to present opponent testimony today on Substitute House Bill 6 (HB 6).

My name is Brad Belden. I am the President of the Belden Brick Company headquartered in Canton with production facilities in the village of Sugarcreek. Our company is an industry-leader in architectural brick and ceramic building materials.

I am testifying today on behalf of my company but also on behalf of The Ohio Manufacturers' Association (OMA). Our company is an active member of the OMA and I serve as chair of the OMA's Energy Committee. The OMA was created in 1910 to advocate for Ohio manufacturers; today it has approximately 1,400 members – large, small and in-between. Its mission is to protect and grow Ohio manufacturing.

Access to reliable, affordable energy is critical to all manufacturers. For that reason, companies like Belden Brick are always seeking cost-effective energy solutions. We are constantly looking for ways to reduce our electricity costs because money we save by reducing our energy spend is money we can reinvest in our business, in our employees, in our facilities and in product innovations—as well as in the communities in which we live.

Also critical to manufacturers are energy policies that support energy markets, free from market manipulation, that allow consumers to access the cost and innovation benefits of competition.

We have reviewed HB 6 and find the bill still creates multiple new costs, and new forms of costs, for manufacturers. The legislation will cost manufacturers more money in the form of new

riders above what we are paying today. The OMA is skeptical of the bill's intended environmental justification and we believe the bill will foster worse, not better, emissions reductions for Ohio. Worst of all, the bill distorts the function of the marketplace which is delivering cost savings and energy innovation to Ohio energy consumers.

Put plainly HB 6 is a mandated, customer-financed handout to select nuclear and coal power plant owners in the form of 'Clean Air Credits' and direct subsidies. Justifying the new charges under the guise of clean air is perverse and in direct conflict with markets and with the State's environmental programs and goals, financially rewarding older and dirtier technologies.

While manufacturers support nuclear power as part of an 'all-of-the-above' energy portfolio, we are strongly opposed to subsidizing certain generation plants and saddling Ohio consumers with hundreds of millions of dollars in new annual charges. This is especially unfair since Ohio customers have already paid the owners of these plants at least twice!

The cost of the new Ohio Clean Air Program alone adds up to more than \$1 billion in new customer charges. This is a new above-market charge that all customers of Ohio's distribution utilities would be required to pay with limited exceptions.

Before sending the bill to the Senate, the House added language providing for subsidies for the Ohio Valley Electric Corporation (OVEC). The new OVEC subsidy will cost Ohio families and businesses an additional \$405 million through 2030. The OVEC subsidy proposal was part of a controversial legislative debate last session (HB 239 / SB 155) that stalled in the face of considerable opposition. Make no mistake, this OVEC subsidy is not a benign codification of a court-affirmed regulatory order. HB 6 will levy new additional non-bypassable, above-market charges on customers' electric bills after the current, court-affirmed OVEC non-bypassable charge expires.

Additionally, under the current language, it is clear that energy-efficiency programs, and their associated costs, will be modified and recreated under two different funding mechanisms.

The bill creates cost risks in other ways as well. First, it allows and encourages Clean Air Resources – including nuclear plants - to obtain a Purchase Power Agreement (PPA), which could pass additional unspecified charges to all ratepayers, with no caps. The PPA program could create a whole new set of riders and potential costs for utility-owned or operated renewable energy. This is a blank check. Importantly, this language fundamentally creates a mechanism for distribution utilities to re-enter the generation market.

This program would create additional costs for customers that will also distort the market, potentially driving wholesale and retail costs higher in future years. While sponsors have called this a customer benefit to spur customer-sited projects, we find this provision provides no new benefits for customers, who already have ready access to three-year PPAs in the competitive market and who can already request a reasonable arrangement.

Second, HB 6 could likely trigger a “bifurcation” of PJM’s capacity auction, which would increase capacity costs to all Ohioans.

Furthermore, there are multiple, additional concerns that manufacturers have, which include the following:

1. Customers will continue to pay shared savings incentives (i.e., profit) and lost-distribution revenue associated with existing energy efficiency programs to the utilities through a revenue decoupling mechanism for an undefined period, even after the energy efficiency mandates and existing programs are terminated.
2. Customers will be required to pay for costs associated with winding down or discontinuing the existing energy efficiency programs through December 31, 2021. These are new, unknown costs and could include contract termination payments and employee severance pay.
3. HB 6 allows utilities to run energy efficiency programs approved by the PUCO and to receive recovery of costs and incentives for those programs beginning January 1, 2021, while customers are still paying for existing energy efficiency programs. Therefore, in the year 2021, customers could be paying for existing programs, discontinuation costs, and new PUCO-approved programs, which would be in addition to the energy efficiency costs (shared savings incentives revenue and lost distribution revenue) that the customers will pay through the revenue decoupling mechanism.
4. It is unclear whether opted-out customers will now have to pay through the revenue decoupling mechanism shared savings and lost-distribution revenue associated with the energy efficiency programs from which they opted out.
5. For shopping customers on a fixed-price contract with their electric supplier, they will have to continue to pay for the costs associated with the renewable portfolio standards that were built into their fixed-price contract until their contract expires.

So, you can see there are a lot of moving parts in HB 6 and the math is not as simple as some would have us believe. For Belden Brick, we estimate the net direct cost of the Clean Air Program, OVEC subsidies, and increased capacity costs, minus the Renewable Portfolio Standard costs, is about \$40,000 per year, plus a lot of other blank checks that could dwarf the cost increase I just shared with you. This adds up to close to a quarter million dollars over the term of HB 6.

As I said earlier in my remarks, my company is working to make our products and our manufacturing processes more efficient while reducing waste and emissions. Market forces help to achieve those results in manufacturing.

Market forces are also at work in power generation. It would be our suggestion that this committee invite comment from Ohio EPA to learn more about the trends in Ohio’s airshed.

Ohio EPA recently highlighted in its comments to U.S. EPA that Ohio's carbon emissions have dropped by 38% since 2005 due to market forces.

While there are no carbon emissions limitations in effect in the U.S. today, data show that market pressures, from investors and customers, are encouraging cleaner forms of energy for power generation. This would dispute much of the proponents' justification for the bill.

In sum, this bill does not protect customers, but rather it protects select generators and utilities.

For years, the OMA has worked to mitigate the impact of unwarranted above-market charges that put upward pressure on energy costs. According to the Office of the Consumers' Counsel, Ohio utilities have collected more than *\$15 billion* in PUCO-approved, above-market charges from utility customers since 2000. This bill would guarantee more unjustified consumer-financed subsidies, create upward pressure on energy costs, and set Ohio back on its heels as a place for energy innovation and capital-attraction.

In closing, The Ohio Manufacturers' Association strongly believes in fair, market-driven competition. The subsidized charges imposed on consumers under this legislation are simply not consistent with competitive markets and are not good for Ohio – in either the short term or the long term. For these reasons, the OMA firmly opposes HB 6. It is anticompetitive and anti-consumer, and not good for our state.

I am pleased also to be joined by Kimberly Bojko of the Carpenter Lipps & Leland law firm. Kim serves as the OMA's chief energy attorney, representing industry positions before the state and federal regulatory commissions. She is able to help me respond to your questions.

Chairman, members of the committee, this concludes my prepared remarks.



## **Comprehensive Energy Policy Testimony**

**Before the Energy and Public Utilities Committee  
Senator Steve Wilson, Chair**

**Presented by**

**Brad Belden  
President, The Belden Brick Company**

**February 29, 2020**

Chairman Wilson, Vice Chair McColley, Ranking Member Williams and members of the Energy and Public Utilities Committee, thank you for the opportunity to provide comment as you consider elements of a comprehensive energy policy.

My name is Brad Belden. I am the President of the Belden Brick Company headquartered in Canton with production facilities in the village of Sugarcreek. Our company is an industry-leader in architectural brick and ceramic building materials.

I am testifying today on behalf of The Ohio Manufacturers' Association (OMA). Our company is an active member of the OMA and I serve as chair of the OMA's Energy Committee as well as a member of the OMA board of directors. The OMA was created in 1910 to advocate for Ohio manufacturers; today it has approximately 1,300 members – large, small and in-between. Our mission is to protect and grow Ohio manufacturing.

Access to reliable, affordable energy is critical to all manufacturers, and especially energy-intensive manufacturers. For that reason, companies like Belden Brick are always seeking cost-effective energy solutions. We are constantly looking for ways to reduce our electricity costs because money we save by reducing our energy spend is money we can reinvest in our business, in our employees, in our facilities and in product innovations—as well as in the communities in which we live.

There are multiple factors to consider when evaluating the state's energy policy. Certainly, reliability and affordability are two top considerations for today's manufacturers. Both of those measures have markedly improved in Ohio over the past decade. What caused those reliability and affordability gains? The answer is simple: Competition.

Policies that support competitive energy markets, free from market manipulation, will allow consumers to continue to access the cost and innovation benefits of competition.

Ohio's transition to a competitive market for electric generation has produced many well-documented successes. For example:

- Between 2011 and 2019, business and residential customers in Ohio have saved approximately \$24 billion, with an expected additional \$3 billion per year in savings going forward.
- Four new gas-fired power plants are operational, another six new gas-fired power plants have been approved for construction or are under construction in Ohio, while another two power plants are either awaiting approval by the Ohio Power Siting Board or are in predevelopment. Altogether that represents more than 11,000 MW of new generating capacity. It also brings with it \$11 billion in investment in Ohio and 14,000 construction and other jobs. (NOTE: Not depicted on this map, over \$2 billion of previously planned generation was abandoned due to HB 6, and that's just the projects that we *know of*).
- And, reserve margins—currently around 20 percent and expected to reach 23 percent in the 2020 / 2021 year and remain high at 21.5 percent in the 2021 / 2022 year – are more than sufficient to meet Ohio's current and near-term reliability needs.

In other words, competitive energy markets are working as intended. Increased choices and the resulting savings have served customers well.

However, generation is just one of three components that drive total customer electric costs. The electric *distribution* component has been growing while the generation component has been shrinking.

Distribution charges are layered on top of generation charges. Distribution charges are not determined by the market. In contrast, distribution charges are paid by customers to regulated monopoly electric utilities. Proceedings at the Public Utilities Commission of Ohio (PUCO), as well as in this body, determine distribution charges. I wish I could say that we were getting something for these increased charges, but that is not the case. Utilities have been applying these revenues to their profits and/or gold plating their systems to further increase their profits.

Please don't misunderstand me. We are not anti-utility. Manufacturers depend on efficient and effective distribution and transmission utility services to ensure system reliability. We are willing to pay for that quality system. The problem is that the process today for weighing the *wants* of utilities against the *needs* of customers is out of balance. Much of the imbalance is the result of legislation that created the "electric security plan" or ESPs over a decade ago.

ESPs were intended to be a temporary safety net while the competitive market matured. They became law through Senate Bill 221, passed in 2008, and today represent a serious threat to the benefits of competition we currently enjoy. Unfortunately, anti-competitive provisions of SB 221 are producing unfair and costly outcomes.

The ESPs permitted under SB 221 have continued to make it possible for utilities to secure PUCO approval to charge customers above-market prices through unwarranted non-bypassable riders. (I should explain that non-bypassable means even a sophisticated industrial customer that is buying its power from a competitive supplier cannot avoid the layering of these charges by the wires company).

How much money are we talking about? The Office of the Ohio Consumers' Counsel has documented more than \$14.7 billion in PUCO-approved, above-market electric utility charges from 2000 through 2019. Another \$1.7 billion in new charges will hit customers between 2020 and 2030. Much of those future charges are the result of House Bill 6. All of these charges are paid by customers of AEP-Ohio, Dayton Power & Light, Duke Energy Ohio, and FirstEnergy.

This begs the question: Why should manufacturers like The Belden Brick Company—or any business for that matter—be forced to pay what amounts to unjustifiable energy “taxes” at a time when competitive electric markets should be producing lower electric bills?

The answer is, “They shouldn’t.”

The fix? Eliminate the statutes that authorize ESPs.

Additionally, it would be good and fair policy if customers would receive refunds for all charges later determined to be improper by the Supreme Court of Ohio. Under current law, customers are denied such refunds.

These suggestions were knitted together into legislation in the prior General Assembly and enjoyed broad support of Ohio residential and business customer groups. I've attached to my testimony a document titled *Electricity Ratemaking Reforms to Protect Consumers* that documented these sensible customer protections.

Allow me to offer up just one suggestion *to avoid* in the name of affordability: I urge the Senate to ensure the state does not create a state-administered capacity pricing mechanism for the nuclear, coal, and solar generation that now faces disqualification from the wholesale market.

In December 2019, the federal government acted to protect wholesale generation markets. In so doing, uneconomic power plants that received subsidies as a result of state policies were effectively excluded from selling their electrons in the capacity market and dragging down the auction clearing price. The FERC attempted to prevent unfair bidding that would undercut the businesses playing to fairly compete.

This means the two nuclear power plants in Ohio, the coal power plants owned by OVEC including one in Indiana, and select solar projects that Ohio's ratepayers are ordered to subsidize under HB 6 will not be able to sell uneconomic capacity because their bid-price will be made artificially low by the subsidy. We believe the Sammis power plant in Jefferson County also falls into this category. Note that these power plants may apply for what is called a Unit Specific Exemption. If these generating assets receive this exemption, it will show that the power plants do not need the subsidies that HB 6 provides them.

There are appeals of that FERC decision ongoing and it's a complicated structure run by PJM and regulated by the FERC, but that is all part of the federally regulated market process. In the meantime, the capacity auction has been delayed as these questions get resolved, resulting in greater cost uncertainty for customers. Please don't let the state take away even more of Ohioans money until that dust has cleared.

If you would like to know more about the FERC decision and its impact on Ohio, I have attached our analysis to my testimony.

Mr. Chairman, as I conclude, let me summarize.

Businesses across all segments look at what a kilowatt of electricity will cost them. Ohio is positioned well to be able to provide reliable power at extremely competitive rates if we continue down the path of implementing fully competitive markets.

Local energy sources have lowered the cost of generation and spurred investment in our state by new generators. Traditional utilities though have been increasing the total cost of power by adding riders on distribution bills.

Ohio will find it harder to retain and attract businesses with a higher total cost of electricity. We urge the committee to embrace the documented benefits of the competitive market and to restore much-needed balance and fairness to Ohio's rate-making process.

I am joined by Kim Bojko of the Carpenter Lipps & Leland law firm. Kim serves as the OMA's chief energy attorney, representing industry positions before the state and federal regulatory commissions. I am also joined by John Seryak of RunnerStone, LLC. John is the OMA's technical consultant for energy policy. With the Chairman's indulgence, John and Kim can help me respond to your questions.

Mr. Chairman, members of the committee, this concludes my prepared remarks. Thank you.

# New Power Plant Investments in Ohio



## ► Total Economic Impact of New Generation



**Investment: ~ \$11 billion**



**MW capacity: 11,137**



**Construction and other jobs: > 14,000**

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**\$14.7 Billion  
Charged to Customers  
(2000 - 2019)**

# SUBSIDY SCORECARD

**\$1.7 Billion Projected  
Charges to Customers  
(2020 - 2030)**

-- ELECTRICITY CHARGES TO OHIOANS --

**FIRSTENERGY**

**\$10.2 Billion**

**DP&L**

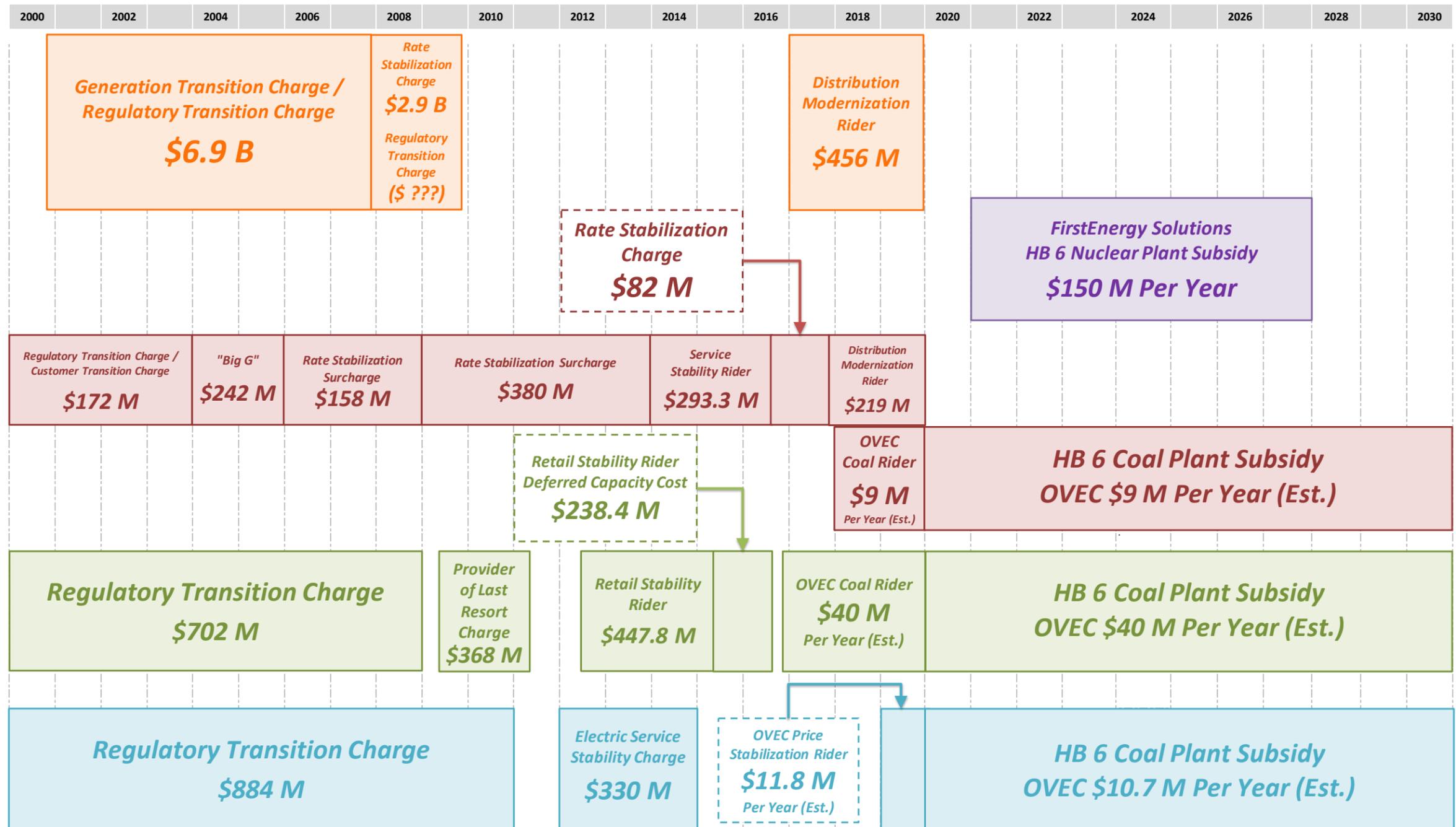
**\$1.5 Billion**

**AEP**

**\$1.8 Billion**

**DUKE**

**\$1.2 Billion**



B=Billions; M=Millions

Rev. 01/16/2020

# Electricity Ratemaking Reforms To Protect Consumers

The successes of Ohio's transition to a competitive market for electricity generation are now documented. They include billions of dollars in savings for standard-offer consumers, governmental aggregation and other shopping consumers, numerous robust new natural gas-fired generation plants planned and coming online, and more than adequate reserve margins for reliability as determined by the Regional Transmission Organization, PJM Interconnection.

Nonetheless, there are some ratemaking provisions in current law that are anti-competitive or unfair—and bad for consumers and Ohio's economy. A broad-based coalition of electricity consumers is working with legislators to resolve the concerns outlined in this document and thereby improve outcomes for consumers and for Ohio. The legislative solution we seek is enactment of House Bill 247 (Romanchuk, R-Ontario), which was introduced in the Ohio General Assembly on May 24, 2017.

## **PROBLEM #1: Customers Are Denied Refunds for Charges That Are Later Determined to Be Improper.**

Current law allows a utility to keep what it has collected from customers, even if the Supreme Court of Ohio determines the charges were improper.

**SOLUTION:** House Bill 247 would allow refunds to customers for all charges that are later found to be improper by the Supreme Court of Ohio or other authority.

## **PROBLEM #2: Utility Charges to Customers Under Electric Security Plans (ESPs)**

The ESPs, allowed in the 2008 energy law (SB 221), are enabling utilities to request of the Public Utilities Commission of Ohio (PUCO) customer charges that exceed market prices. The result: Ohioans may not benefit from the lower electric bills that should flow from the lower prices in competitive electricity markets. In Ohio's competitive electricity market, ESPs—essentially, rate plans for the supply and demand of electric generation—are unnecessary and should be eliminated. Instead, a market-based option should be used to price service to customers.

Eliminating ESPs will fix a number of provisions that are unfair and costly to Ohioans under current law, including the following:

- **Utilities Are Not Required to Refund Customers All of the Utilities' Excessive Profits.** Even if the PUCO determines that a monopoly electric utility has "excessive" profits, the utility is not required to return the excess profits to customers. Only if the utility's earnings are deemed "significantly excessive" is the utility required to refund the significantly excessive portion of profits to its customers.
- **Customers Are Charged for Non-Generation Charges in an ESP.** Utilities use ESPs to set the price of the standard service offer to customers. However, the law also permits a utility to propose additional distribution-related charges in an ESP. Utilities have used the law to collect a number of so-called distribution charges from customers through non-bypassable riders. (That is, customers cannot "shop around" charges that are non-bypassable.) But some of these riders have nothing to do with distribution service. For example, FirstEnergy

AARP

Ohio Farm Bureau

The National Federation of Independent Business/Ohio

Northeast Ohio Public Energy Council (NOPEC)

Office of the Ohio Consumers' Counsel

Ohio AgriBusiness Association

The Ohio Cast Metals Association

Ohio Chemistry Technology Council

Ohio Hotel & Lodging Association

The Ohio Manufacturers' Association

Ohio State Grange

was granted a “distribution modernization rider” to provide credit support to the corporation without a requirement to spend the consumers’ payments on distribution modernization. That is not the way a competitive, free-market system should work.

- **Customers Are Not Protected from Paying Too Much for Service Under an ESP.**

One consumer protection in the 2008 law provided that ESPs could not be approved unless the result is “more favorable in the aggregate” to customers when compared to the expected results from the market-rate option. But the PUCO has been considering both quantitative and qualitative factors to determine if the ESP is more favorable in the aggregate than a market rate—and the Supreme Court of Ohio has declined to prohibit the PUCO’s approach. The consideration of qualitative factors can allow above-market charges, and that has undermined the consumer protection that prices in ESPs should compare favorably to market prices.

- **Utilities Can Veto Any PUCO-Ordered Modification to Their ESPs.** If a utility doesn’t like a PUCO ruling that modifies its proposed ESP, the utility can withdraw its application. In effect, the 2008 law gave the utilities—but no other stakeholder—veto power in ESP cases. This is a decidedly anti-customer policy.

**SOLUTION:** House Bill 247 would eliminate language in Ohio law that permits utilities to file ESPs, which would eliminate above-market charges to customers now allowed in ESPs. Utilities then would provide customers the standard service offer through a competitive bidding process. Utilities’ distribution rates would continue to be set through distribution rate cases by the PUCO. This approach would allow the PUCO to review all expenses and revenues when a utility seeks a distribution rate increase, instead of the current approach that allows utilities to add charges to customers’ electric bills using single-issue riders.

### **PROBLEM #3: Customers Are Not Protected from Subsidizing the Operations of a Utility’s Corporate Affiliate.**

Prior to the 1999 deregulation law (Amended Substitute Senate Bill 3, enacted with strong bipartisan support), utilities owned and operated generation plants. SB 3 changed that, prohibiting utilities from owning generation. Rather than complete divestment of the generating plants, however, several of the utilities spun off the assets to a corporate affiliate. In recent years, the utilities have used the poor financial performance of their unregulated generation affiliates to seek above-market charges from captive customers.

**SOLUTION:** House Bill 247 would protect Ohio customers from new and expanded above-market charges by clarifying that Ohio’s 1999 deregulation law means utilities and their affiliates cannot own generation.

The forgoing proposals will protect consumers by restoring balance in the ratemaking process through repeal of unfair provisions in the 2008 law and making other changes. The proposals will prevent anti-competitive results from the law. And, limiting above-market charges will free up money for business expansion and job creation, spurring Ohio’s economy.



# FERC's December 2019 Order on State Subsidies

## *The Expanded Minimum Offer Price Rule and its Impact on Manufacturers, Markets, Ohio Energy Policy, and Electricity Generation Technology*

January 30, 2020

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The Federal Energy Regulatory Commission (FERC) issued an order on December 19, 2019 stating that

“... out-of-market payments provided, or required to be provided, by states to support the entry or continued operation of preferred generation resources threaten the competitiveness of the capacity market administered by PJM ...”.

FERC's order is a direct response to a trend of state subsidization of uneconomical power plants, including those benefitting from the recently passed Ohio House Bill 6 (HB6). The FERC order is a giant stick against state subsidies, and tips HB6 on its head: Rather than improve the economic position of select Ohio (and Indiana) power plants, the HB6 subsidies now jeopardizes these same power plants from competitively earned revenue in the wholesale electric capacity market. In fact, by charging Ohio's ratepayers hundreds of millions of dollars in annual subsidies for select power plants, about \$190 million in annual capacity revenue for these same generators is now at risk. Unfortunately, by favoring select power plants through subsidies, HB6 has created a financial liability for them.

To be clear, the select subsidized power plants can request, and may receive, a “Unit Specific Exemption” to earn capacity revenue. Or, these same power plants may request additional subsidies or financial support from the state.

The eventual effect of FERC's order on wholesale electricity prices is being debated, as is which type of generating technologies win or lose. But FERC's order is clear – if states like their subsidy plan, they can keep it – but the state and its ratepayers will bear the direct cost and consequences.

### **Impact to Manufacturers**

A significant concern to Ohio manufacturers is how the FERC order, in conjunction with HB6, impacts electricity costs. The FERC order does not stop Ohio from subsidizing select power plants. And thus, HB6's above-market charges for select nuclear, coal, and renewable energy projects will persist on manufacturers' electric bills.

However, the FERC order does create major changes to how electricity markets work and estimating the financial impact will take careful study. At this date, there is no agreement on the financial impact. Some parties warn that the FERC order could create significant

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additional electricity costs, while other parties suggest there may be no additional cost at all. Still others may argue that preservation of market forces is the ultimate cost protection, an assertion supported by market studies and academic literature. PJM and its Independent Market Monitor often conduct detailed simulations of the near-term effect of major policy changes and likely will do so for this FERC order.

Manufacturers should also be concerned about potential state responses to the FERC order, namely, a drive to create fixed resource requirement (FRR) entities. By creating an FRR, a state may attempt to create yet more out-of-market revenue streams for power plants. Not only would this increase charges even more on customers' electric bills, but it would further erode market protections.

While cost is a primary concern for all manufacturers, also of note in the FERC order is a problematic issue for manufacturers with regard to greenhouse gas (GHG) emissions reductions goals. The FERC order will apply to new renewable energy projects receiving state subsidies, including renewable energy credits (RECs) from a renewable portfolio standard (RPS). While the FERC order recognizes that renewable energy projects subscribed with corporate REC purchases should not be subject to the MOPR, it then states that "it is not possible" to distinguish a voluntary REC from a state-mandated REC. As such, without clarification, new corporately funded renewable energy projects could be deprived of capacity revenue unfairly.

### **Impact to Electricity Markets**

The FERC order is intended to protect functioning, competitive electricity markets. In general, competitive markets are desirable because they have been shown to produce lower electricity prices for consumers than cost-of-service regulation. Markets also tend to produce better resource efficiency, and thus lower emissions from power plants. This is all to say that an order to protect markets has inherent features that protect consumers and manufacturers.

However, FERC's order is complex, and it is not fully known how it will impact electricity prices in the short and long term. The order modifies and expands a mechanism called the Minimum Offer Price Rule (MOPR).

The MOPR was originally designed to prevent state subsidization of new natural gas generators entering the market. In contrast, the expanded MOPR will apply to new and existing power plants of any technological types that "receive, or are entitled to receive, certain out-of-market payments, with certain exemptions." This means that nuclear, coal, and renewable power plants that receive state subsidies or other non-bypassable rider support will be required to offer into PJM's capacity auction at a set minimum price or apply for a Unit Specific Exemption. New power plants will have one set of resource-specific prices, called Net CONE (Cost of New Entry). Existing power plants will have another set of resource-specific prices, called Net ACR (Avoidable Cost Rate). The application of these minimum price thresholds is meant to prevent a power plant from using a state subsidy to outbid its unsubsidized competition by offering an artificially low bid into PJM's capacity auction.

Table 1 shows PJM’s proposed Net CONE and Net ACR values<sup>1</sup>. Consider, in comparison, that PJM’s capacity auction clearing price over the past 15 years has been a minimum of \$16 to a maximum of \$174/MW-day, a median of \$110/MW-day. Thus, new and existing resources would need to have minimum offer prices of, at most, around \$110/MW-day to clear the capacity market at least half of the time. Given this low price, it is unlikely that new generating plants that receive or are entitled to receive state subsidies will be able to clear the PJM capacity auction on a regular basis, unless they apply for and receive a Unit Specific Exemption.

For existing resources, it is also unlikely that subsidized nuclear units will be able to clear the auction in most cases, and subsidized coal plants will likely only be able to clear the auction occasionally. New and existing demand response and energy-efficiency should be able to clear most auctions. As for renewable energy, new renewable energy would likely not be able to clear the auction, but existing renewable energy would.

Note that PJM is preparing updated Net CONE and Net ACR values which will be subject to FERC approval. These updated values will have meaningful bearing on how the FERC order plays out. Additionally, any resource may apply for a “Unit Specific Exemption,” in order to bid at a different price than Net CONE and Net ACR. Many resources that appear uneconomical based on Net CONE or Net ACR may in fact be economical based on their specific financial situation.

**Table 1: PJM Proposed Minimum Prices**

	New Resources - Net CONE (\$/MW-day)		Existing Resources - Net ACR (\$/MW-day)	
Nuclear - Single Unit	\$	1,451	\$	265
Nuclear - Double Unit	\$	1,451	\$	227
Coal	\$	1,023	\$	126
Combined Cycle - NG	\$	438	\$	1
Combustion Turbine - NG	\$	355	\$	31
Hydro	\$	1,066	\$	-
Solar PV	\$	387	\$	-
Onshore Wind	\$	2,489	\$	-
Offshore Wind	\$	4,327	\$	-
Demand (DR or EE)		\$29 - \$67	\$	-

The impact on electricity prices then depends on several things:

- How many MWs of power plants will be subject to the expanded MOPR, and effectively forced out of the capacity auction? The answer is not simple. Some power plants receiving or entitled to receive subsidies have already not cleared the auction. For example, Ohio’s nuclear power plants have not cleared the auction recently. Other power plants may choose to forgo their subsidy so they are

<sup>1</sup> PJM Communication, Table 2. <https://pjm.com/-/media/committees-groups/committees/mic/20190306/20190306-item-10-communication-regarding-mopr-related-requirements.ashx>

Net-ACR from: INITIAL SUBMISSION OF PJM INTERCONNECTION, L.L.C. Docket No. EL16-49-000, pages 118 & 120 of pdf. <https://elibrary.ferc.gov/idmws/common/opennat.asp?fileID=15059002>

permitted to bid into the auction without the minimum offer price if the subsidy is lower in value than PJM's capacity payments. Or, perhaps some states will find their subsidization policies ineffective, and will eliminate them in the law so that their power plants may compete for capacity revenue. Finally, there exists a "Unit Specific Exemption" process with the MOPR. If a power plant can show that it does not need its subsidy to offer competitive capacity bids, then it may receive this exemption, and continue to receive capacity revenue. Ironically, if a power plant receives this exemption, it will be proof to state policymakers that the subsidy is not needed. For this reason, it should be considered requiring subsidized resources to apply for a Unit Specific Exemption.

- How many new power plants will enter the market due to the expanded MOPR? Again, this is not simply answered, but it is probable that increased amounts of new natural gas fired power plants will enter the market. Some parties' fear of increasing capacity prices come largely from the observation that by excluding subsidized power plants from PJM's capacity auction, the supply of power plants will decrease, while demand for power remains relatively the same. However, PJM has seen large amounts of power plant retirements in the last 15 years, with little impact on capacity prices. This is because as uneconomic power plants close, other power plants that are economic open. It is reasonable to expect that over some period of time, new economic generation will fill the gap and keep prices in check.

All told then, the goal of the FERC order appears to be to reinstate a functioning electric market and the order is designed to seriously discourage state subsidies' manipulation of the electric market. Power plants receiving unit-specific exemptions will have shown that their subsidy is unnecessary, and that they can compete without state subsidy support. Power plants that are subject to MOPR and do not clear the auction will have shown that they are uncompetitive and may need to return to the state for additional subsidies or cease operating. The resulting supply and demand in the market then will more closely match that of a competitive market absent state subsidies. And thus, the resulting price of wholesale electricity should match that of a competitive market.

A caveat is that in the short-term, there may be a mass exit of power plants that are subject to MOPR because of state subsidies. If there is an atypical quantity of exiting power plants, combined with a shorted development timeframe for new entrants, there is the possibility for short-term capacity price increase. Again, Ohio's manufacturers should wait for independent modeling of this financial impact.

The cost of state subsidies will still be borne by the residents of the state, until a state repeals its subsidy policy. And, creation and proliferation of FRR entities is an emerging risk.

### **Impact to Ohio's State Policy and Regulation of Power Plants**

FERC's order has significant impacts to the objectives of the recently passed HB6 in Ohio, and to other Ohio policies and regulations that create subsidies for select electrical power generators. Below we cover possible impacts to specific power plants and technologies in Ohio.

- Davis-Besse and Perry Nuclear Power Plants – The Davis-Besse and Perry nuclear power plants are entitled to receive a subsidy of \$9 per MWh generated from Ohio’s Nuclear Generation Fund, newly created by HB6. This will result in \$150 million of payments annually from Ohio ratepayers to these two nuclear power plants. However, the two nuclear power plants will be subject to the expanded MOPR. The combined capacity of the power plants is about 2,150 MW. At a typical PJM capacity auction price of around \$120 /MW-day, this equates to \$94 million of forgone annual capacity revenue for the two nuclear plants.

It is not clear whether Energy Harbor’s nuclear power plants could receive a Unit Specific Exemption. It is distinctly possible that these nuclear power plants are economical without the HB6 subsidy. If so, they *could* apply for a Unit Specific Exemption, and receive it. However, applying for a Unit Specific Exemption is a choice for Energy Harbor.

In any case, Ohio policymakers face difficult choices. At a minimum, requiring HB6 subsidized units to apply for a Unit Specific Exemption is logical. If subsidized units receive an exemption, then policymakers will need to reconsider whether to continue subsidies that a power plant doesn’t need. If a unit fails to receive an exemption, policymakers will need to reconsider whether to subsidize an uneconomical power plant.

- OVEC Coal Plants – The coal plants of the Ohio Valley Electric Corporation, which include the Kyger Creek plant in Ohio and the Clifty Creek plant in Indiana, will also be subject to the MOPR. There is a chance that they will not clear the PJM capacity auction. OVEC’s capacity is about 2,175 MW, and thus it will forego about \$95 million annually in capacity revenue. However, OVEC’s subsidy is not in the form of a fixed credit, but instead in a rider that passes a pro-rated percentage of its financial losses onto Ohio utilities. As a result, Ohio’s ratepayers will share in 38.68%<sup>2</sup> of this loss, or about \$36.7 million annually.

Because OVEC’s Ohio utility owners are insulated from any and all financial losses, it is probable this additional cost will simply be passed on to Ohio’s manufacturers and other ratepayers.

- HB6-Favored Solar Energy Plants – HB6 creates a Renewable Generation Fund which will pay \$9 per MWh for renewable energy credits (RECs) for select solar projects. These solar projects have not yet been built and will thus almost certainly be subject to the MOPR and are unlikely to clear the PJM capacity auction. Moreover, given the choice, solar photovoltaic (PV) projects may prefer to receive capacity revenue over the renewable energy credit revenue. For example, a 1 MW solar PV project in central Ohio would receive about \$12,500 in capacity revenue<sup>3</sup>. That same 1 MW of solar PV would receive \$11,150<sup>4</sup> from the Renewable Generation Fund. As such, renewable projects of any scale may choose to receive

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<sup>2</sup> OVEC Annual Report, cumulative percentage of Ohio investor-owned sponsoring companies: The Dayton Power and Light Company, Duke Energy Ohio, FirstEnergy Solutions, and Ohio Power Company.

<sup>3</sup> 1 MW nameplate x 0.2856 central Ohio capacity factor x \$120 /MW-day, typical x 365 days/year)

<sup>4</sup> 1 MW of ground-mounted fixed solar in central generates about 1,239 MWh/year, according to PV Watts. \$9 /MWh x 1,239 MWh/year = \$11,150 /year

PJM capacity revenue over HB6 subsidies.

Thus, HB6 could result in reduced revenue for these select solar projects, making them less competitive. The forgone capacity revenue from HB6's select solar projects would be about \$22 million per year.

- Sammis Coal Plant – The Sammis coal-fired power plant owned by the former FirstEnergy Solutions may also be subject to the FERC expanded MOPR because of HB6. At first, this may be surprising, as there is no direct mention or direct subsidy of the Sammis plant within HB6. However, the FERC order appears to catch within its scope sleight-of-hand with state subsidies. FERC states:

“... we consider a State Subsidy to be: a direct *or indirect* payment, concession, rebate, subsidy, non-bypassable consumer charge, or other financial benefit that is (1) a result of any action, mandated process, or sponsored process of a state government, a political subdivision or agency of a state ...”

Importantly, FirstEnergy Solutions had publicly credited the HB6 subsidies it is receiving for its nuclear plants for *indirectly* allowing it to subsidize the Sammis coal plant<sup>5</sup>. According to FES comments, the Sammis coal plant cleared 1,233 MW in the most recent PJM capacity action<sup>6</sup>. Thus, HB6 has indirectly put \$54 million in annual capacity revenue at risk for the Sammis coal plant.

- Existing Renewable Energy – Existing renewable energy projects will be exempt from the MOPR and will continue to be able to participate in PJM's capacity auction.
- New “Behind-the-Meter” Renewable Energy – New renewable energy projects that are customer-sited, behind-the-meter, will not be subject to the MOPR. This is because behind-the-meter generation would not bid into PJM's capacity auction anyways. Instead, behind-the-meter generation reduces a customer's capacity obligation. As such, behind-the-meter projects would be able to monetize both capacity value and voluntary or state-mandated renewable energy credits.
- New “Front-of-the-Meter” Renewable Energy – New, front-of-the-meter renewable energy will be subject to the MOPR. As shown in Table 1, solar PV has the second lowest Net CONE value of new resources, after natural gas combustion turbines. That said, it is unlikely that PJM's capacity market price will clear high enough that a solar PV or wind project could enter the capacity market at the Net CONE price. This gives renewable energy developers two options. First, they could choose to enter the market competitively, favoring capacity revenue over REC revenue and subsidies. Second, if new renewable energy plants do not require REC payments to be competitive, they may apply for a “Unit Specific Exemption” and bid into the capacity market at a lower price than Net CONE. This is distinctly possible, as renewable energy projects receive comparatively less of their revenue from capacity payments due to their intermittency and REC prices have dropped to just

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<sup>5</sup> “House Bill Six is really designed to support our nuclear plants, and all the money from that would go to those nuclear plants. But at the same time, it would make our company economically healthy enough that we would be able to look at other investments like investing in the Sammis Plant”, FES CEO John Judge, <https://wtov9.com/news/local/sammis-plant-may-not-close>

<sup>6</sup> <https://www.prnewswire.com/news-releases/firstenergy-solutions-comments-on-results-of-pjm-capacity-auction-300654549.html>

a few dollars per MWh. As renewable energy installation costs drop, their reliance on REC payments may be low enough that it does not affect the decision on whether to build the project or not, and thus competitive renewable energy projects may request and receive an exemption while preserving their REC payments.

- Energy Efficiency and Demand Response – Most new energy-efficiency and demand response capacity resources would have a Net CONE generally lower than a typical PJM capacity auction clearing price. That is to say, these new resources would have the MOPR applied to them but would still be able to clear the auction at their corresponding technology-specific Net CONE price. Moreover, existing efficiency and demand response resources would be able to continue to bid at any price. While there is some risk that new demand response and energy-efficiency resources may not clear the capacity auction in some years, this may be a manageable risk.

### **Impact to Technology Mix**

Of interest is how FERC's order expanding MOPR will affect the generation technology mix in the PJM territory. While the expanded MOPR is complicated and has nuances, it appears to effectively disincentivize subsidization of older, uneconomical power plants. In recent years, these subsidies have been targeted at coal and nuclear power plants. Newer emerging technologies such as renewables and load management will not be entirely unaffected by the MOPR, but are positioned to be able to continue to grow for a number of reasons, be it behind-the-meter applications, the Unit Specific Exemption, or simply because they no longer require state subsidies. Thus, the expanded MOPR is likely to reinforce the recent trend in electric generation technology mix – considerably more natural gas fired generation with some meaningful expansion of renewable energy and customer-load management, and considerably less coal-fired generation with some reduction in nuclear power.

***This analysis was prepared by John Seryak, PE, and Peter Worley of RunnerStone, LLC, Energy Technical Consultant to The Ohio Manufacturers' Association.***





**H.B. 772 Proponent Testimony**

**Before the Energy and Public Utilities Committee  
Senator Steve Wilson, Chair**

**Presented by**

**Brad Belden  
President, The Belden Brick Company**

**December 8, 2020**

Chairman Wilson, Vice Chair McColley, Ranking Member Williams and members of the Energy and Public Utilities Committee, thank you for the opportunity to provide comment as you consider elements of a comprehensive energy policy.

My name is Brad Belden. I am the president of the Belden Brick Company, headquartered in Canton with production facilities in the village of Sugarcreek. Our company is an industry-leader in architectural brick and ceramic building materials.

I am testifying today on behalf of The Ohio Manufacturers' Association (OMA). Our company is an active member of the OMA and I serve as chair of the OMA's Energy Committee, as well as a member of the OMA board of directors. The OMA was created in 1910 to advocate for Ohio manufacturers; today it has approximately 1,300 members – large, small and in-between. Our mission is to protect and grow Ohio manufacturing.

Access to reliable, affordable energy is critical to all manufacturers, and especially energy-intensive manufacturers. For that reason, companies like Belden Brick are always seeking cost-effective energy solutions. We are constantly looking for ways to reduce our electricity costs because these savings can be reinvested in our business, our employees, our facilities and product innovations — as well as in the communities in which we live.

There are multiple factors to consider when evaluating the state's energy policy. Certainly, reliability and affordability are two top considerations for today's manufacturers. Both of those measures have markedly improved in Ohio over the past decade. What caused those reliability and affordability gains? The answer is simple: Competition.

I am pleased to speak with you in support of HB 772 as the best means to repeal and reform House Bill 6 to protect customers and Ohio's competitiveness. For the electricity sector, HB 772 would restore Ohio's free-market pathway envisioned by policymakers at the turn of the century. If signed into law, HB 772 would eliminate the above-market riders of HB 6, save customers hundreds of millions of dollars per year, and restore Ohio's competitive advantages.

Harmful provisions of HB 6 include the following:

- A. Clean Air Fund/Subsidies for Nuclear Plants: HB 6's "crown jewel" is a \$150 million-a-year subsidy for the owner of Ohio's two nuclear power plants. This subsidy, financed by Ohio electric consumers, cannot be justified – especially since publicly available financial data and the owner's proposed \$800 million stock buyback have demonstrated the power plants are not financially strapped. An additional \$20 million subsidy for select solar plants brings this subsidy total to \$170 million annually.
- B. Decoupling (Profit Guarantees): The bill's decoupling mechanism will provide the FirstEnergy utilities with 2018 revenue levels (plus an additional \$66 million each year), regardless of the amount of electricity sold. These data and analyses demonstrate how FirstEnergy utilities may collect \$355 million through 2024 – and hundreds of millions more in later years – from Ohio's electric customers. (FirstEnergy CEO told investors this provision would make the company "somewhat recession proof.")
- C. OVEC Subsidies: HB 6 provides additional subsidies for the utility owners of the Ohio Valley Electric Corporation (OVEC) coal plants – subsidies estimated to be worth \$700 million through 2030. One of the two plants is in Indiana.

Specifically, HB 772 would do the following:

1. Repeal the Clean Air Program and rider created by HB 6 to subsidize the nuclear power plants and select renewable energy projects.
2. Repeal the OVEC rider created by HB 6 to subsidize the two old coal plants (including one in Indiana) owned by a consortium of energy companies, and prevent the PUCO from reviving or enacting a new OVEC rider.
3. Require a refund of OVEC charges collected from customers pursuant to HB 6 immediately.
4. Repeal the decoupling mechanism in HB 6 that benefits FirstEnergy by rewarding it with unearned income at the expense of customers. Additionally, terminates all other decoupling mechanisms established and prevents the PUCO from reviving or enacting new decoupling riders.
5. Require FirstEnergy to immediately refund the full amount of decoupling charges to customers.

6. Require the PUCO and the Ohio Air Quality Development Authority to eliminate or rescind any mechanism, charge, rule, or order enacted, authorized, or issued to implement a provision of HB 6.
7. Include an emergency clause, ensuring that HB 772's reforms go into effect immediately upon being signed by the governor.

Unlike other "straight repeal" bills pending in the House and Senate, HB 772 does not reinstate the energy efficiency standards (and rider) or renewable portfolio standards (and rider) that HB 6 repealed and modified. In other words, HB 772 allows the energy efficiency standards and costs to sunset at the end of 2020, and maintains the modifications to the renewable portfolio standards as directed by HB 6. HB 772 also prevents utilities from offering so-called "voluntary" energy efficiency programs that are voluntary for the utility, but mandate customer participation and costs paid for by customers.

Utility administered renewable energy and energy efficiency programs have changed a great deal – in both capabilities and costs – since the adoption of the standards in SB 221. At the same time, these technologies and their customer-driven markets have advanced and evolved. Ohio should take a fresh look at what policies are appropriate to stimulate adoption of these technologies in a market-based economy.

Mr. Chairman, before I conclude, allow me to contrast HB 772 with HB 798 of which you just heard sponsor testimony. HB 772 is superior to HB 798 in protecting Ohio consumers for the following reasons:

- HB 798's omission of OVEC repeal is particularly troubling for manufacturers that pay this unjustified HB 6 tax. I've linked this memo on the [boondoggle that is OVEC](#). Failure to address total OVEC repeal is a gift to OVEC's owners, principally AEP – a gift financed involuntarily and with no benefits by Ohio customers.
- While we appreciate that HB 798 terminates the special HB 6-bestowed decoupling mechanism drafted to benefit FirstEnergy, it leaves intact decoupling mechanisms that other utilities will continue to charge customers as a mechanism to recover lost revenues from energy efficiency mandates long after the mandates cease to exist at the end of 2020.
- Since HB 6 repealed utility-administered energy efficiency programs, all decoupling riders should be repealed, and customer refunds (for the HB 6 decoupling mechanism) should be required. Failure to comprehensively repeal decoupling is a gift to monopoly electric distribution utilities – a gift financed by Ohio families and businesses.

Finally, let me comment on HB 798's deferred treatment of the new Clean Air Fund. Evidence has emerged over past months that demonstrates the nuclear plants are viable without subsidies. This evidence includes Energy Harbor's own financial statements to its investors, and

to the Nuclear Regulatory Commission, both of which assert that the nuclear plants are financially viable without HB 6 subsidies.

Energy Harbor's "[2020-2022 Financial Outlook](#)" projects \$515 million in profit this year, \$585 million next year, and \$645 million in 2022. There has been no evidence presented to the contrary.

There is no need for the subsidy – not now, and not in a year from now. Even if there were a need, the audit requirement contained in HB 798 is poorly defined, lacks direction on what is to be reviewed, lacks a stakeholder process at the OAQDA, and lacks a time frame for OAQDA's actions. Importantly, the proposed audit is retrospective, allowing collection and disbursement of funds prior to need being established and that cannot be returned to customers. **Collectively, this is a gift to Energy Harbor and other energy companies seeking Clean Air Fund subsidies from captive Ohioans.**

Mr. Chairman, I've linked a [detailed analysis](#) of the impacts of HB 798 prepared by the OMA's technical resource teams.

According to this analysis, HB 798 will result in around \$4,000 in above-market charges per year for a small manufacturer, and about \$40,000 per year for a large manufacturer. It will cost other sectors as well – an estimated \$3,000 per year for lodging businesses, \$1,000 per year for restaurants, \$700 for small businesses, and \$30 to \$40 from every home and apartment. All at a time when families are struggling with the effects of the pandemic.

**As HB 798 stands today, it continues policies to benefit energy companies and utilities at customers' expense. Moreover, it fails to make Ohio's energy policy more competitive at a time when we need to grow jobs and opportunity to prepare for the post-pandemic era.**

We would be happy to work with you to resolve the shortcomings. However, HB 798 – while it has merits – does not go far enough to resolve the injuries of HB 6. Therefore, we urge you to set it aside and instead continue to focus on Representative Romanchuk's HB 772 as the blueprint from which to build to protect customers and protect markets.

I am joined by Kim Bojko of the Carpenter Lipps & Leland law firm. Kim serves as the OMA's chief energy attorney, representing industry positions before the state and federal regulatory commissions. With the chairman's indulgence, Kim can help me respond to your questions.

Mr. Chairman, members of the committee, this concludes my prepared remarks. Thank you.