



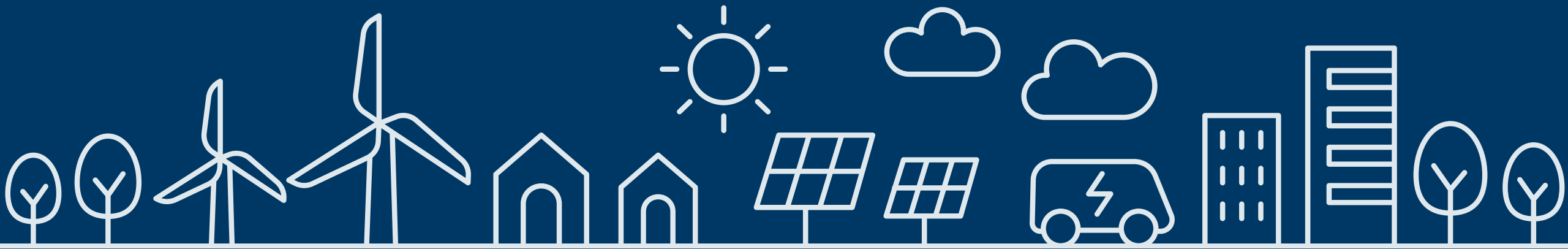
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Stakeholder Engagement Modeling Meeting 1

*Dominion Energy Virginia and North Carolina
2026 Integrated Resource Plan (IRP)*

Wednesday, April 29th, 1 p.m. – 3 p.m. ET



This Webinar Is Being Recorded

Please note that this webinar is being recorded.

By continuing to participate in this webinar, you acknowledge that you have been informed of the recording and consent to being part of this recording. If you do not consent, you have the option to not attend this meeting.

Recordings of each presentation section will be posted on the IRP Stakeholder Process website:

<https://devirp.dominionenergy.com/stakeholder-materials>.



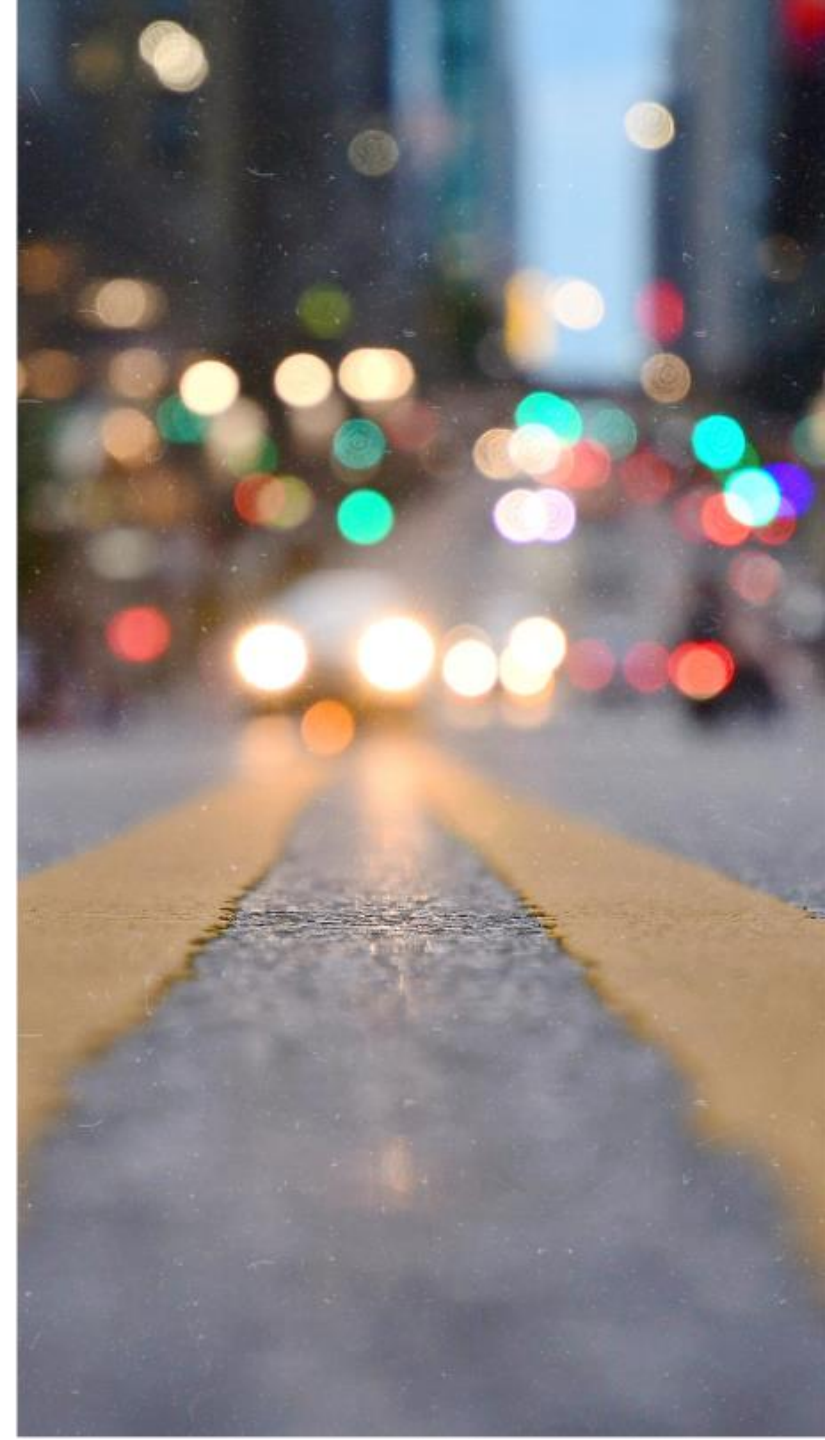
Meeting Objectives

1. Establish a shared understanding of and solicit input on...
 - The overall process for modeling the 2026 North Carolina & Virginia IRP
 - The load forecasting methodology
2. Collect feedback and enable discussion of future topics that this group would like to explore.



Agenda

- 1:00 p.m.** Welcome, Introductions, Safety Moment
- 1:05 p.m.** Meeting Ground Rules
- 1:15 p.m.** VA/NC IRP Modeling Overview and Discussion
- 2:00 p.m.** Load Forecasting Methodology and Discussion
- 2:40 p.m.** Preview and Solicit Feedback on Next Meeting
- 3:00 p.m.** Next Steps and Adjourn



Meet the GPI Facilitation Team



Trevor Drake
VP, Energy Systems



Val Stori
Senior Policy
Manager



Hallie Turner
Policy Associate



Audrey Negro
Meeting &
Administrative
Associate



The Great Plains Institute is an organization of leaders and experts dedicated to engaging and collaborating with people, organizations, and communities to craft nonpartisan, pragmatic energy solutions that benefit people, the economy, and the environment.



Meet the Dominion Energy IRP Stakeholder Engagement Team



Lisa Crabtree
Director,
Strategic Planning



Maria Pia Tamburri
Vice President,
Intergovernmental
Affairs



Amanda Prestage
General Manager,
Regulatory Affairs



Jarad Morton
Manager,
Integrated Strategic
Planning

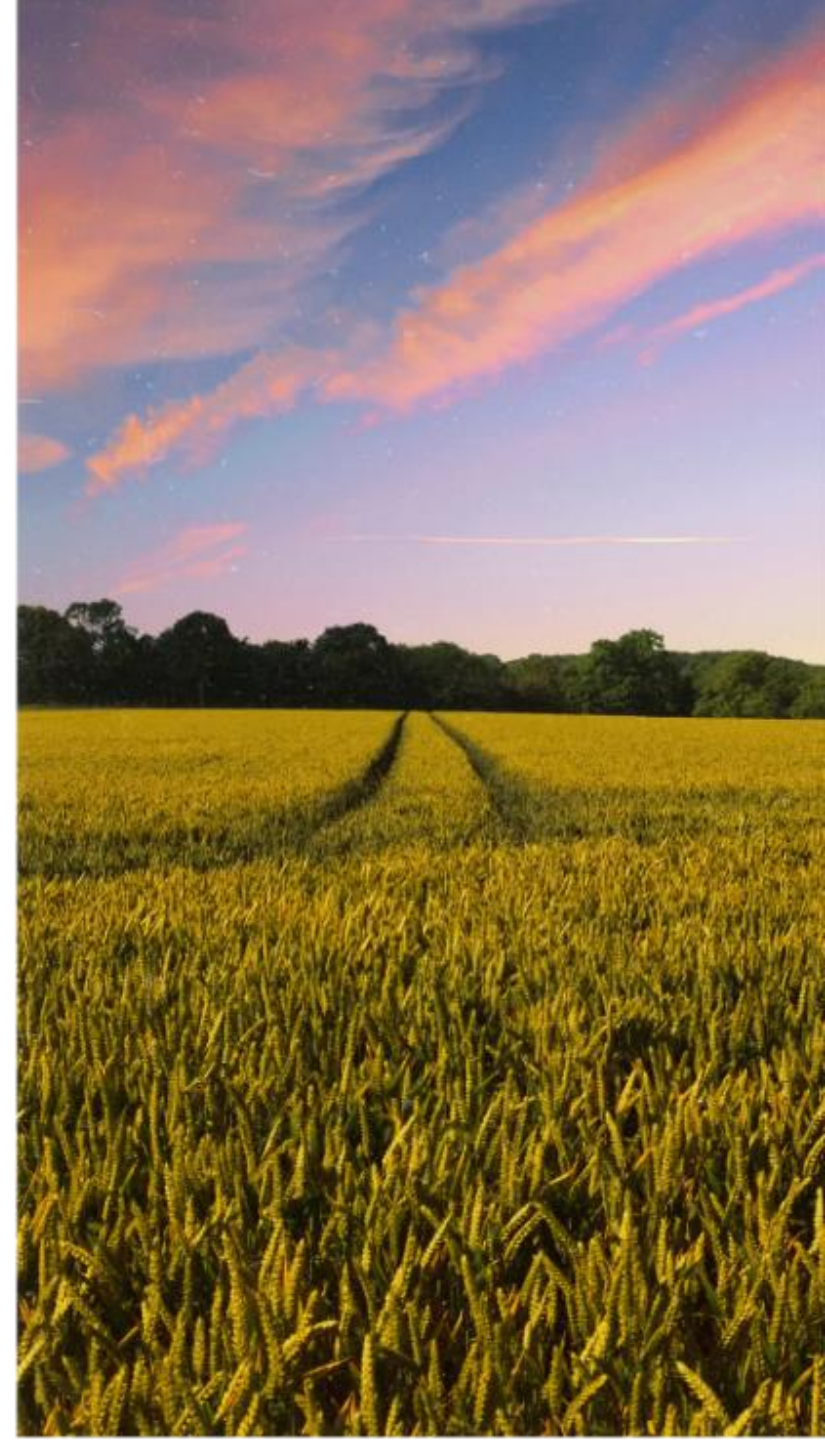
Safety Moment: Heat Awareness & Hydration

- As temperatures rise, remember to stay hydrated—especially when spending time outdoors
- Take regular breaks and avoid prolonged activity during the hottest parts of the day
- Watch for early signs of heat stress, such as dizziness or fatigue
- Simple planning, like carrying water or adjusting schedules, can help prevent heat-related issues



Modeling Meeting Ground Rules

- 1. Respect each other and the time:** Respect differences of perspective and the time we have together.
- 2. Focus on today's topics:** Please respect the scope of today's meeting. Pending or recently enacted legislation and open regulatory dockets are outside the scope of today's meeting.
- 3. Project and customer specifics are out of scope:** Specific projects, including transmission, distribution, and generation projects, are outside the scope of the IRP and today's meeting. Customer specifics are also out of scope.



Meeting Communication Options

Please submit questions to presenters using the Q&A feature. Select “all panelists” and type your question into the Q&A box. An anonymized list of questions will be posted to the [IRP Stakeholder Q&A Website](#).

If you are accessing the meeting by calling the 1-415 number on your phone, you are not able to submit questions.



Engagement Schedule

Date	Event	Format	Topic
March	Topics of Interest Scoping Survey	N/A	Stakeholder feedback on IRP outcomes and engagement process outcomes
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TBD	Stakeholder Input Case Survey	N/A	Survey to inform the 2026 Stakeholder Input Case
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**Broad
engagement
meeting**



Modeling meeting



**Stakeholder
survey**

Mentimeter Logistics



Mentimeter

Throughout the meeting, we will be asking for your input via Mentimeter polls.

Use a browser on your computer or mobile device.

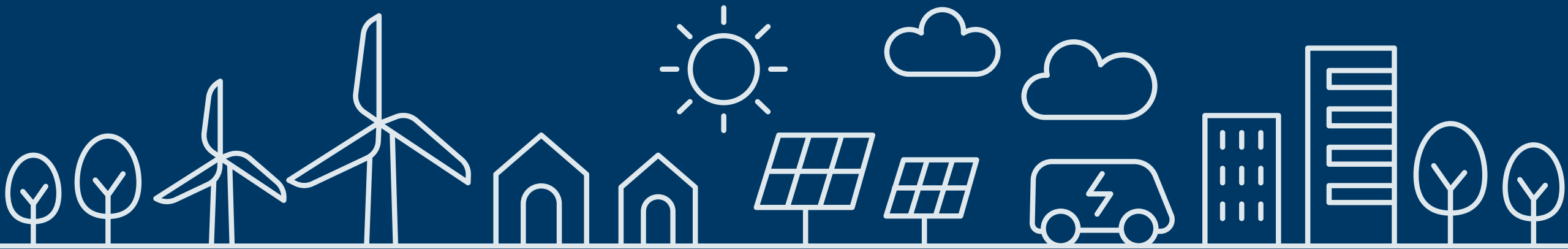
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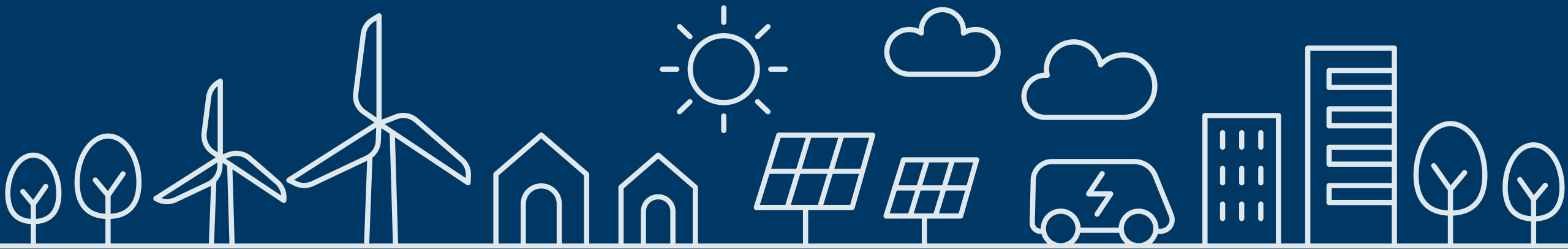
Mentimeter In Progress





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Questions?



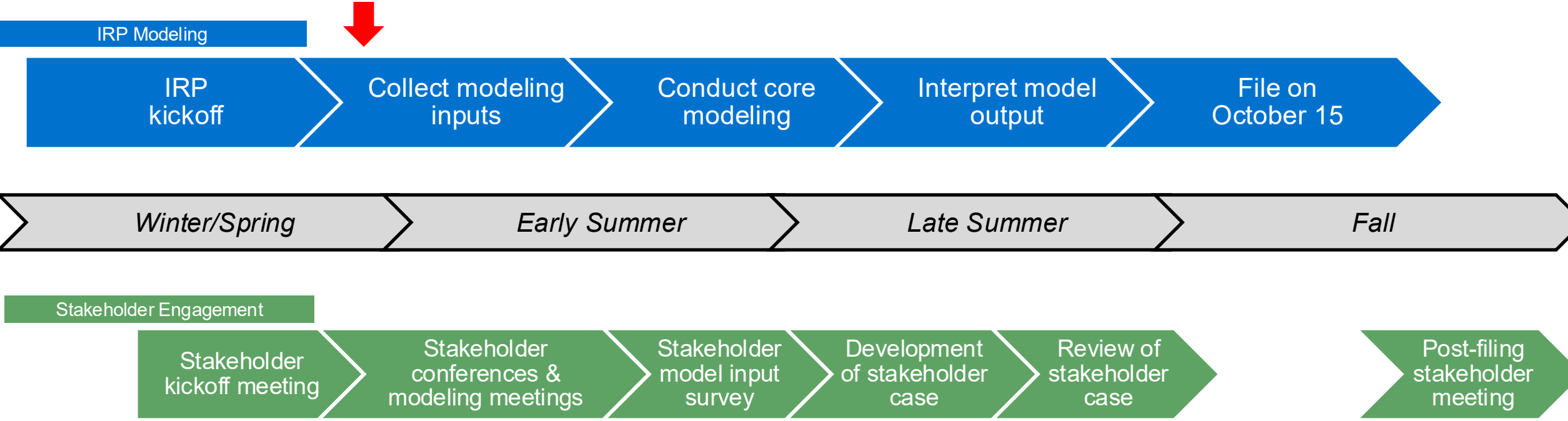
Dominion Energy Virginia & North Carolina 2026 Integrated Resource Plan (IRP) Stakeholder Modeling Meeting

VA/NC IRP – Modeling Process Overview

April 29, 2026

IRP Modeling Process:

Long-Term Strategic Pathways

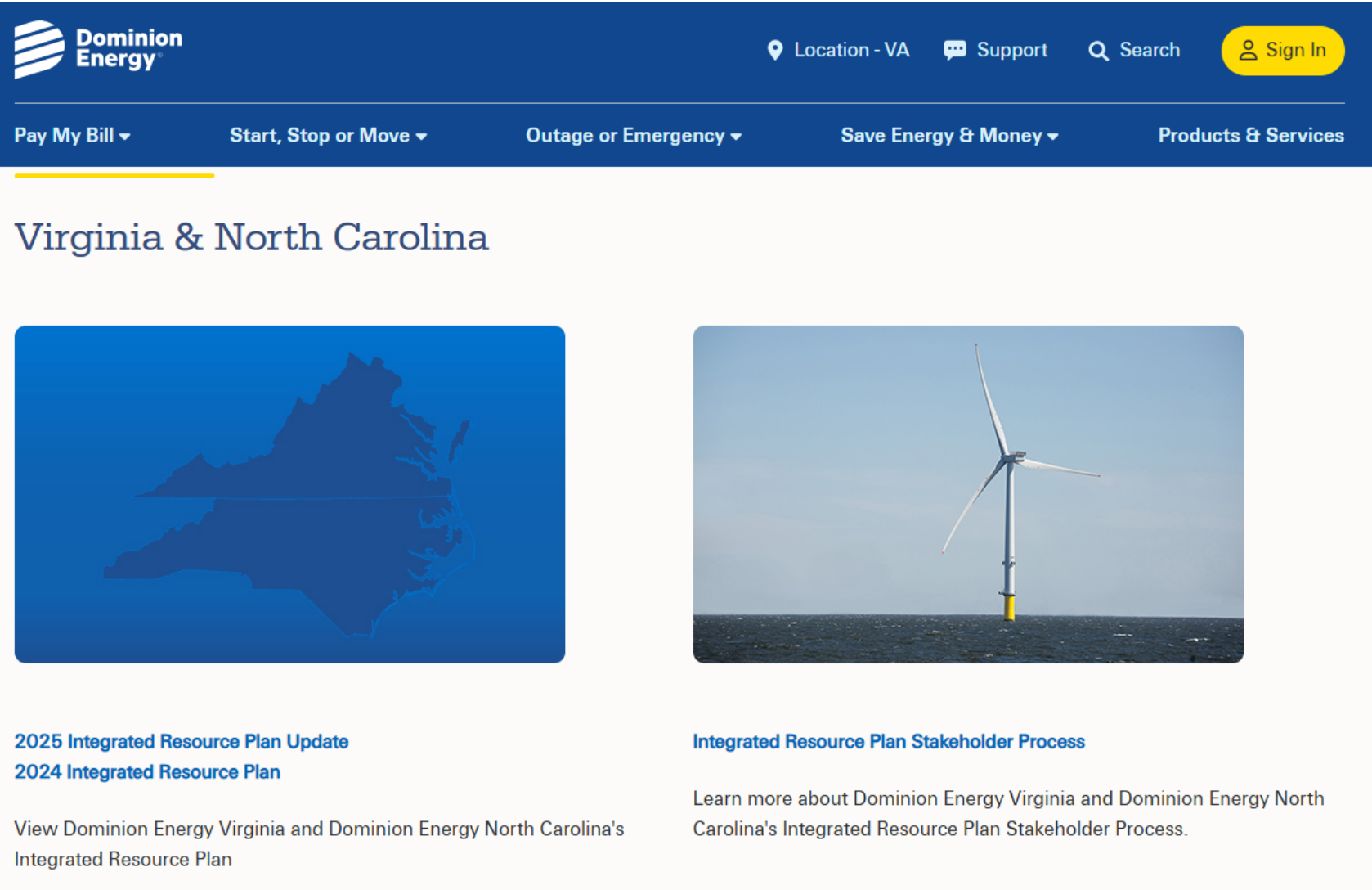


Follow along in the 2025 IRP Update

Many of today's examples will come from the 2025 IRP Update or 2024 IRP filings.

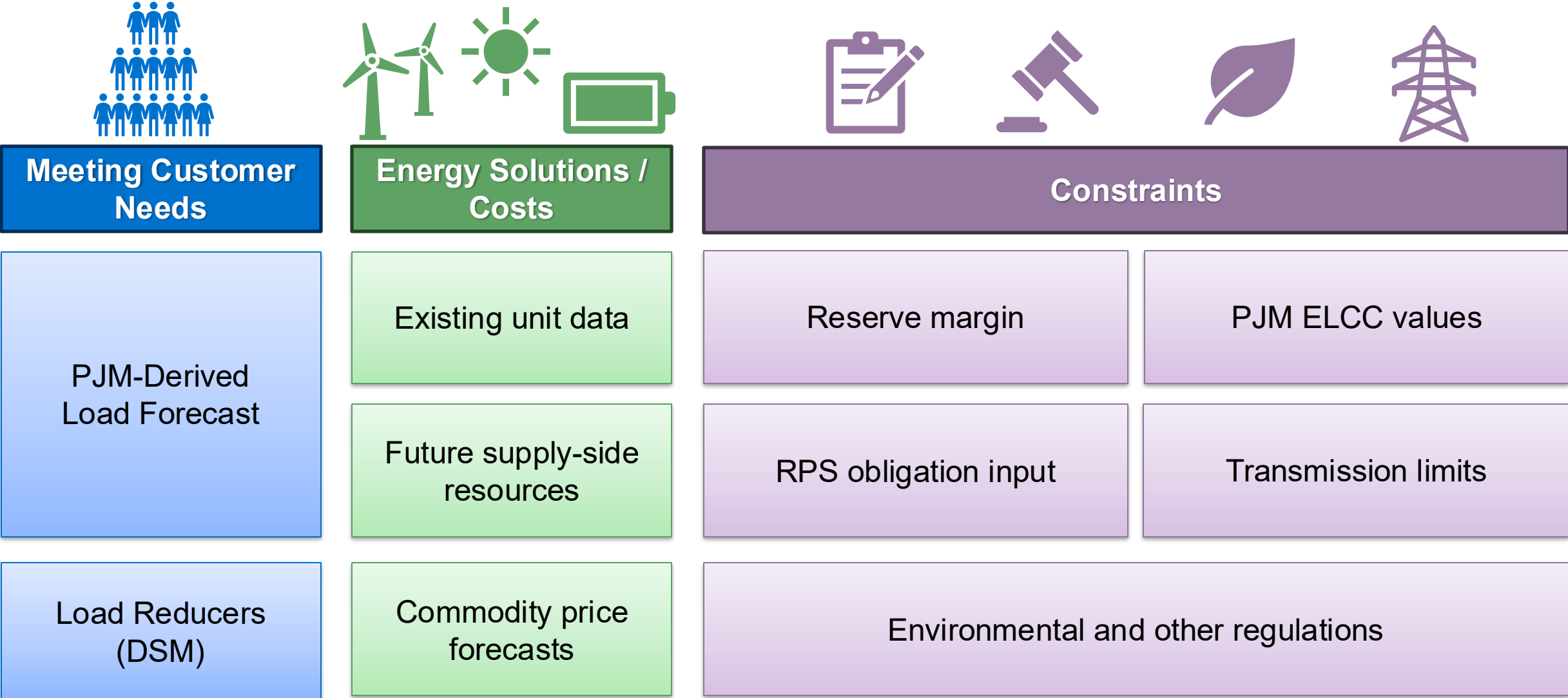
Follow along by downloading the PDF files from our website:

www.dominionenergy.com/about/our-company/irp

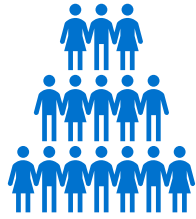


The screenshot shows the Dominion Energy website header with the logo on the left and navigation links for 'Location - VA', 'Support', 'Search', and 'Sign In' on the right. Below the header is a secondary navigation bar with links for 'Pay My Bill', 'Start, Stop or Move', 'Outage or Emergency', 'Save Energy & Money', and 'Products & Services'. The main content area is titled 'Virginia & North Carolina' and features two columns of content. The left column has a blue map of Virginia and North Carolina, followed by the text '2025 Integrated Resource Plan Update' and '2024 Integrated Resource Plan', and a link to 'View Dominion Energy Virginia and Dominion Energy North Carolina's Integrated Resource Plan'. The right column has a photograph of a wind turbine, followed by the text 'Integrated Resource Plan Stakeholder Process' and a link to 'Learn more about Dominion Energy Virginia and Dominion Energy North Carolina's Integrated Resource Plan Stakeholder Process.'

IRP Modeling Process



Why use the PJM Load Forecast? It's a requirement!



Meeting Customer Needs

PJM-Derived Load Forecast

Load Reducers (DSM)

F. Contents of Filing.

The IRP shall include the following data:

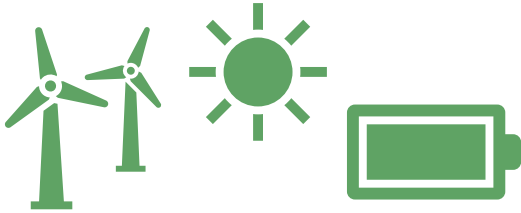
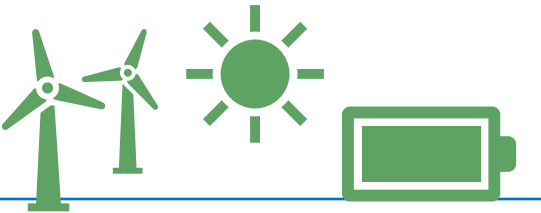
1. Forecast of Load. The forecast shall include descriptions of the methods, models, and assumptions used by the utility to prepare its forecasts of its loads, requirements associated with the utility's PJM load obligation (MW) if appropriate, the utility's peak load (MW) and energy sales (MWh) and the variables used in the models and shall include, at a minimum, the following:

a. The most recent three-year history and 15-year forecast of energy sales (kWh) by each customer class,

b. The most recent three-year history and 15-year forecast of the utility's peak load and the expected load obligation to satisfy PJM's coincident peak forecast if appropriate, and the utility's coincident peak load and associated non-coincident peak load for summer and winter seasons of each year (prior to any DSM), annual energy forecasts, and resultant reserve margins. During the forecast period, the tabulation shall also indicate the projected effects of incremental demand-side options on the forecasted annual energy and peak loads,

<https://www.scc.virginia.gov/media/sccvirginiagov-home/regulated-industries/utility-regulation/responsibilities/guidance-documents/irp.pdf>

Energy Solutions & Costs Modeling



Energy Solutions / Costs

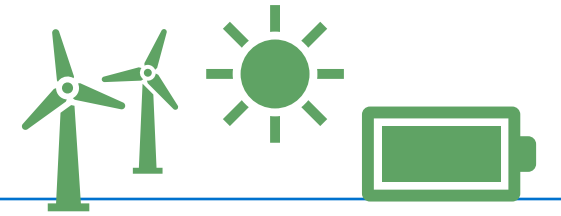
Existing unit data

Future supply-side resources

Commodity price forecasts



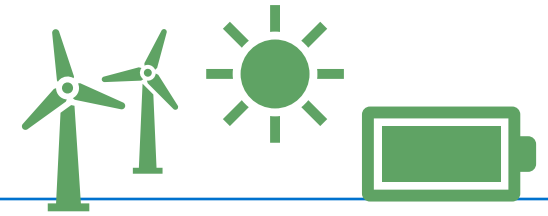
Energy Solutions – Existing Unit Data



- The IRP is a long-range planning document that evaluates how customer needs could be met over time.
- The model incorporates **existing supply-side resources as its base** and contemplates the addition (or retirement) of various categories of resource additions over time to meet anticipated demand.
- Assumptions on **existing and planned resources** are available in the appendices below.

Filing	Section/ Appendix	Section/Appendix Name	Relevant information
2025 IRP Update	3B-1	Existing Generation Units in Service	Existing supply-side resources
2025 IRP Update	3B-2	Other Generation Units	Existing supply-side resources not owned by the Company
2025 IRP Update	3B-10	Potential Unit Retirements	Reflects retirement assumptions used for planning purposes, not firm Company commitments.
2025 IRP Update	3B-11	Planned Changes to Existing Generation Units	Unit size (MW) uprates and derates projected within the planning horizon
2025 IRP Update	3C-1	Generation Under Construction	Details on supply-side resources under construction as of the filing date
2025 IRP Update	3C-2	Planned Generation Under Development	Details on planned supply-side additions, including pending CE projects

Energy Solutions – Future Supply Side Resources

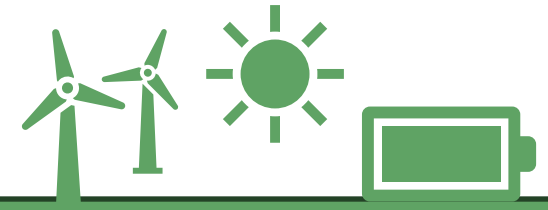


- The model contemplates the addition (or retirement) of various categories of resources over time to meet anticipated demand.
- Assumptions regarding **future supply side options** are available in the table below.



Filing	Section/ Appendix	Section/Appendix Name	Relevant information
2024 IRP	Chapter 3.2	Building Renewable Energy Resources	Details on solar, wind, storage, and other resources
2024 IRP	Chapter 3.7	Future Supply-Side Resource Options	Details on certain newer supply-side resource options the Company has considered and will continue to evaluate for possible inclusion in future IRPs
2025 IRP Update	Chapter 3.5.2	Future Supply-Side Resource Options	Discussion on additional new technologies being considered in IRP Update

Energy Costs – Commodity Price Forecasting



- **Commodity Price Forecasts:**

- Consist of forward-looking pricing for commodities like fuel, energy, capacity, and RECs
- The Company utilizes a third-party expert to provide multiple scenarios to ensure consistency in methodologies and assumptions.
- Assumptions are published in both IRP and IRP Update filings in Appendix 5B.
- Appendix 5B includes a discussion on the following topics:
 - Gas Transportation Cost Assumptions
 - Construction Cost Assumptions
 - Commodity Price and Cost Assumptions

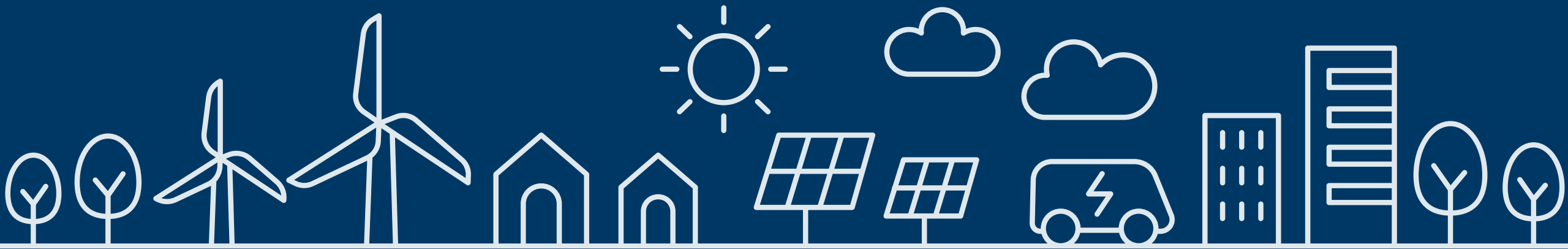
Details on commodity price assumptions are available in **Appendix 5B: Cost Assumptions**

Appendix 5B: Cost Assumptions

- 5B-1: Least Cost VCEA Compliant Price Forecast (Nominal \$)
- 5B-2: Commodity Price Forecast, Natural Gas
- 5B-3: Commodity Price Forecast, Natural Gas
- 5B-4: Commodity Price Forecast, Coal (FOB)
- 5B-5: Commodity Price Forecast, Oil
- 5B-6: Commodity Price Forecast, On-Peak Power Price
- 5B-7: Commodity Price Forecast, Off-Peak Power Price
- 5B-8: Commodity Price Forecast, PJM Tier 1 RECs
- 5B-9: Commodity Price Forecast, VA REC
- 5B-10: Commodity Price Forecast, PJM RTO Capacity (\$/kW-yr)
- 5B-11: Commodity Price Forecast, PJM RTO Capacity (\$/MW-day)
- 5B-12: Commodity Price Forecast, DOM Zone Capacity (\$/kW-yr)
- 5B-13: Commodity Price Forecast, DOM Zone Capacity (\$/MW-day)
- 5B-14: Commodity Price Forecast, SO₂ Emission Allowances (\$/Ton)
- 5B-15: Commodity Price Forecast, NO_x Emission Allowances
- 5B-16: Commodity Price Forecast, NO_x Emission Allowances (CSAPR Annual)
- 5B-17: Commodity Price Forecast, Federal CO₂ (\$/Ton)

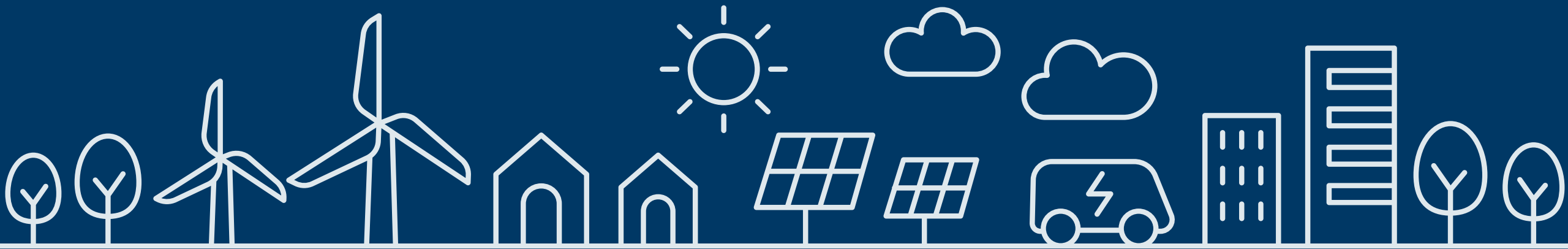


Mentimeter In Progress

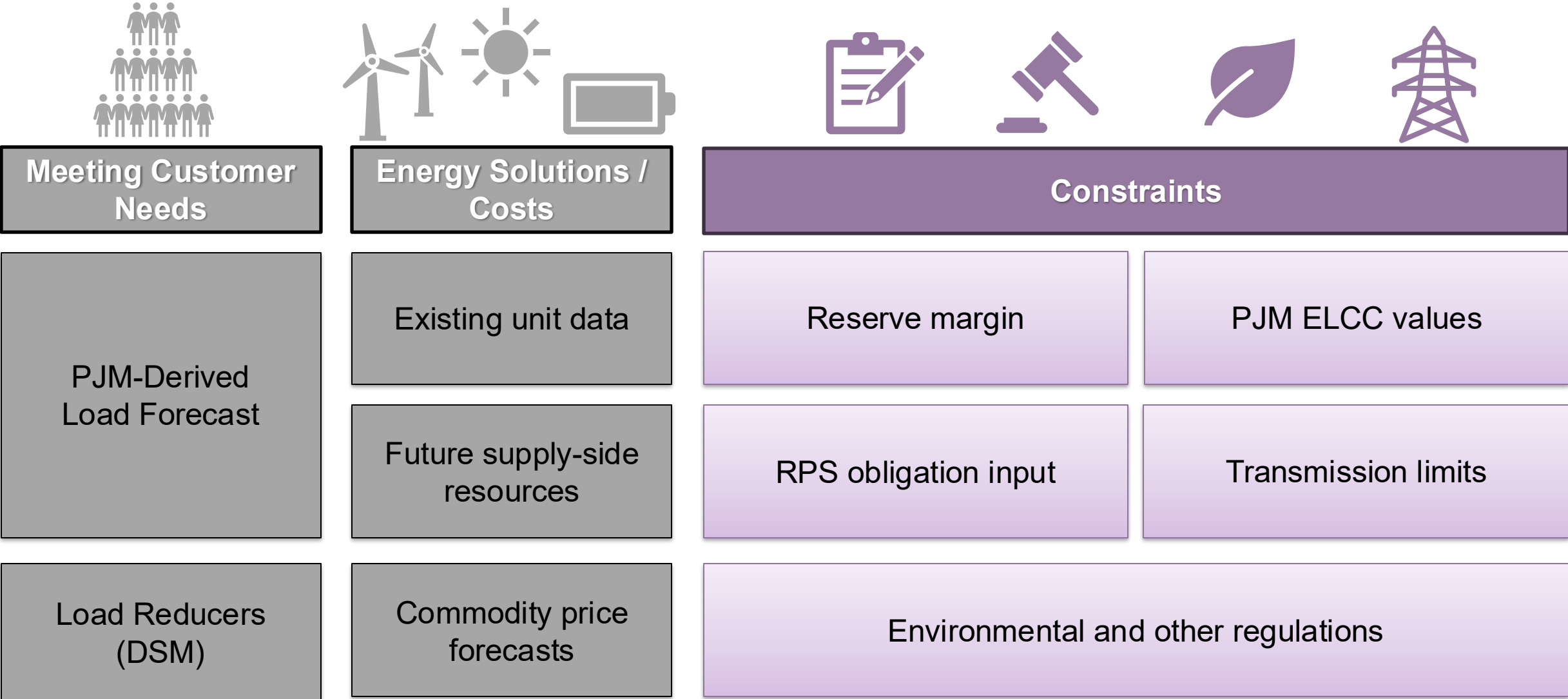




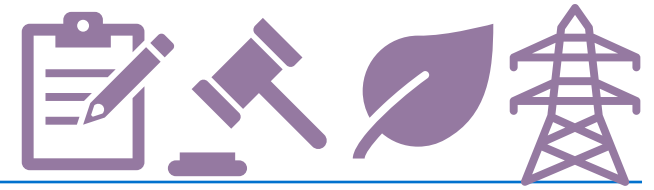
Questions?



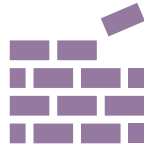
IRP Modeling Process



Model Constraints – Reserve Margin



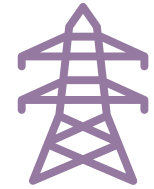
The Company follows **PJM reserve requirements**, which are based on loss of load expectation. PJM's capacity market is also known as the **Reliability Pricing Model (RPM)**.



In a capacity market, utilities or other electricity suppliers are required to purchase adequate resources to meet their customers' demand, **plus a reserve amount.**



Suppliers offer supply- or demand-side resources into the capacity market **at a price.**



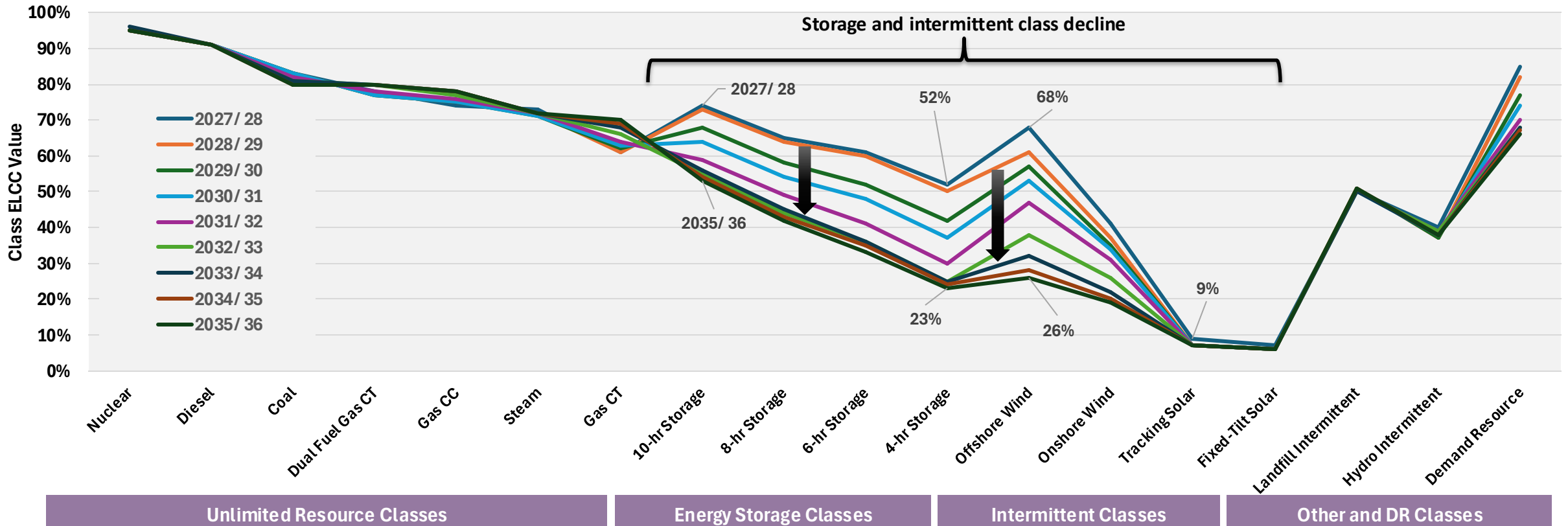
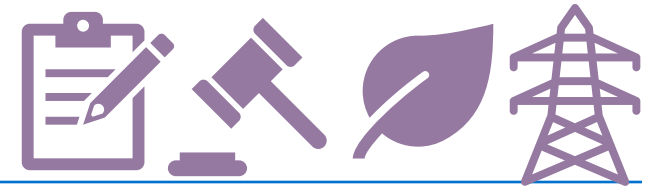
To the extent the supply offer clears the market, then those **capacity resources are obligated to supply energy** (or reduce energy, in the case of demand-side resources) when dispatched, **or pay penalty fees.**

Values from the 2025 IRP Update are explained in

Appendix 5B: Cost Assumptions (Section III)
Appendix 2B-9: Required Reserve Margin

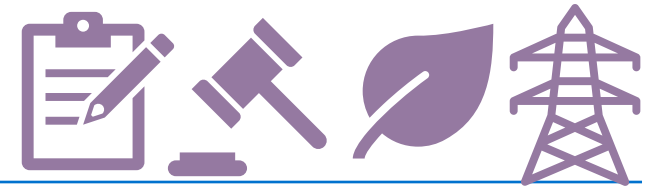
Model Constraints: ELCC Class Ratings

PJM Preliminary ELCC Class Ratings 2027/28 to 2035/36



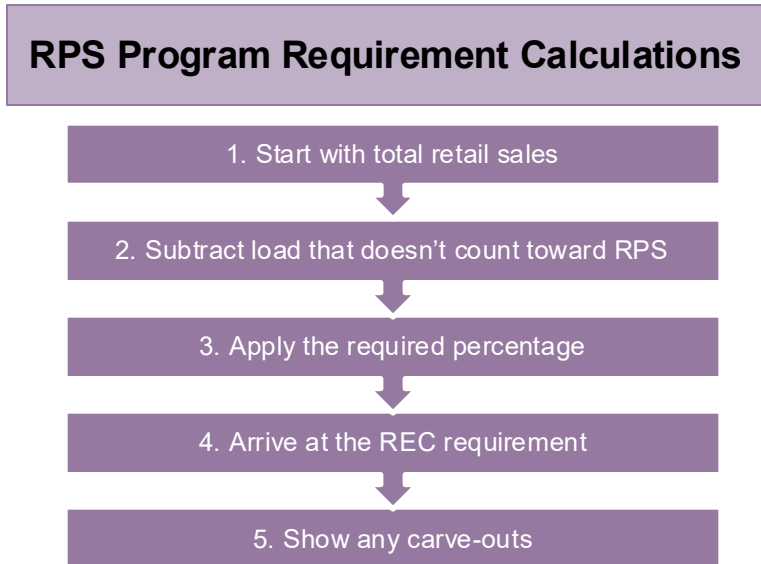
- According to PJM, study results are primarily impacted by:
 1. Acceleration in extreme winter peak values within PJM 2025 Load Forecast
 2. Change in resource mix from unlimited to intermittent resources
- Intermittent and storage class ELCC values most heavily impacted by shift towards winter risk

Model Constraints – RPS REC Requirements



RPS REC Requirements

- The Virginia Clean Economy Act (“VCEA”) instituted a mandatory renewable portfolio standard (“RPS”) Program in Virginia under which **Dominion Energy must meet annual requirements for the sale of renewable energy** based on a percentage of non-nuclear electric energy sold to retail customers in the Company’s service territory.



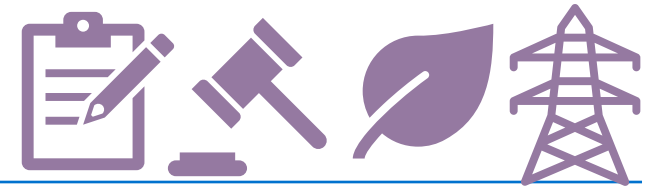
Process	Calculation Component	Compliance Year 2024
1	Retail Sales (MWh)	89,515,184
	Nuclear Output (MWh) ¹	26,173,941
	Exempt Customer Load (MWh) ²	12,385,814
2	Total Electric Energy (MWh)	50,955,429
3	Annual Percentage Requirement	23%
4	Total RPS Program Requirement (RECs)³	11,719,749
5	1% Carve Out	117,197

1. The nuclear output shown is based on the percent of output from Company-owned generation facilities located in the Commonwealth serving Virginia customers.
2. The exempt customer load represents load from certified accelerated renewable energy buyers and customers with a peak demand in excess of 100 megawatts in 2019 that elected to purchase from a competitive service provider prior to April 1, 2019.
3. One REC equals one megawatt-hour of energy generated by a renewable energy resource.

Assumptions from the 2025 IRP Update are explained in

**Appendix 5B:
Cost Assumptions**

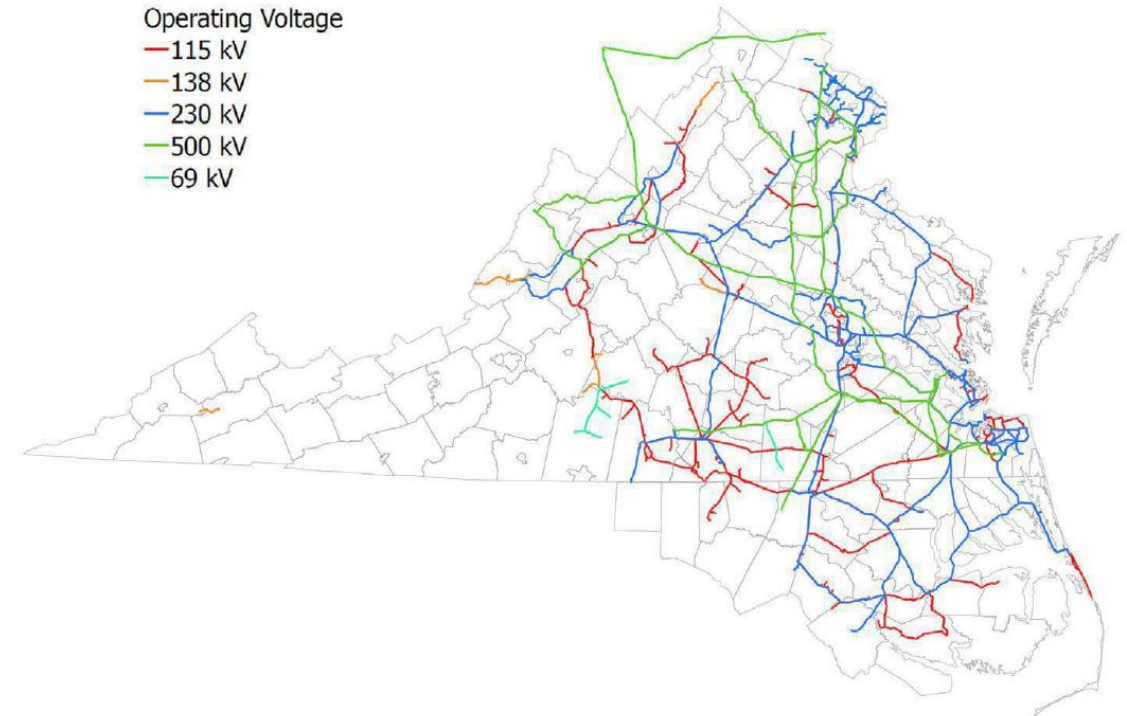
Model Constraints – Transmission Limits



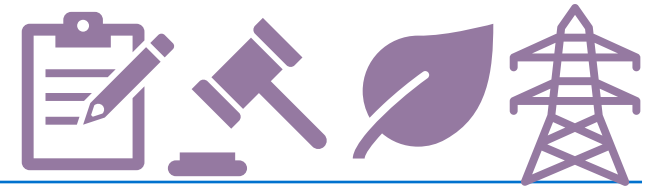
- Improvements in the transmission system can alleviate constraints and lead to better power flows for import into the DOM Zone. Additionally, these improvements lead to lower price volatility while minimizing uneconomic generation dispatch. Inadequate transmission resources can result in energy import constraints.

2025 IRP Update	Name of Section
Chapter 2.3	Transmission Considerations
Chapter 3.6.3	The Five-Year Reliability Plan: Transmission
Appendix 2C-1	List of Transmission Projects Under Construction
Appendix 2D	Transmission System Reliability Analyses
Appendix 2E	Renewable Energy Interconnection and Integration Costs

Figure 2.3.2.1: Dominion Energy’s Existing Transmission Lines ≥ 69 kV



Model Constraints – Environmental Regulations



- The IRP represents a “snapshot in time,” incorporating the laws and regulations in effect at or near the time of filing. These conditions are updated with each filing.
- VCEA, RGGI, and air quality standards are a few examples of such regulations impacting IRP planning.

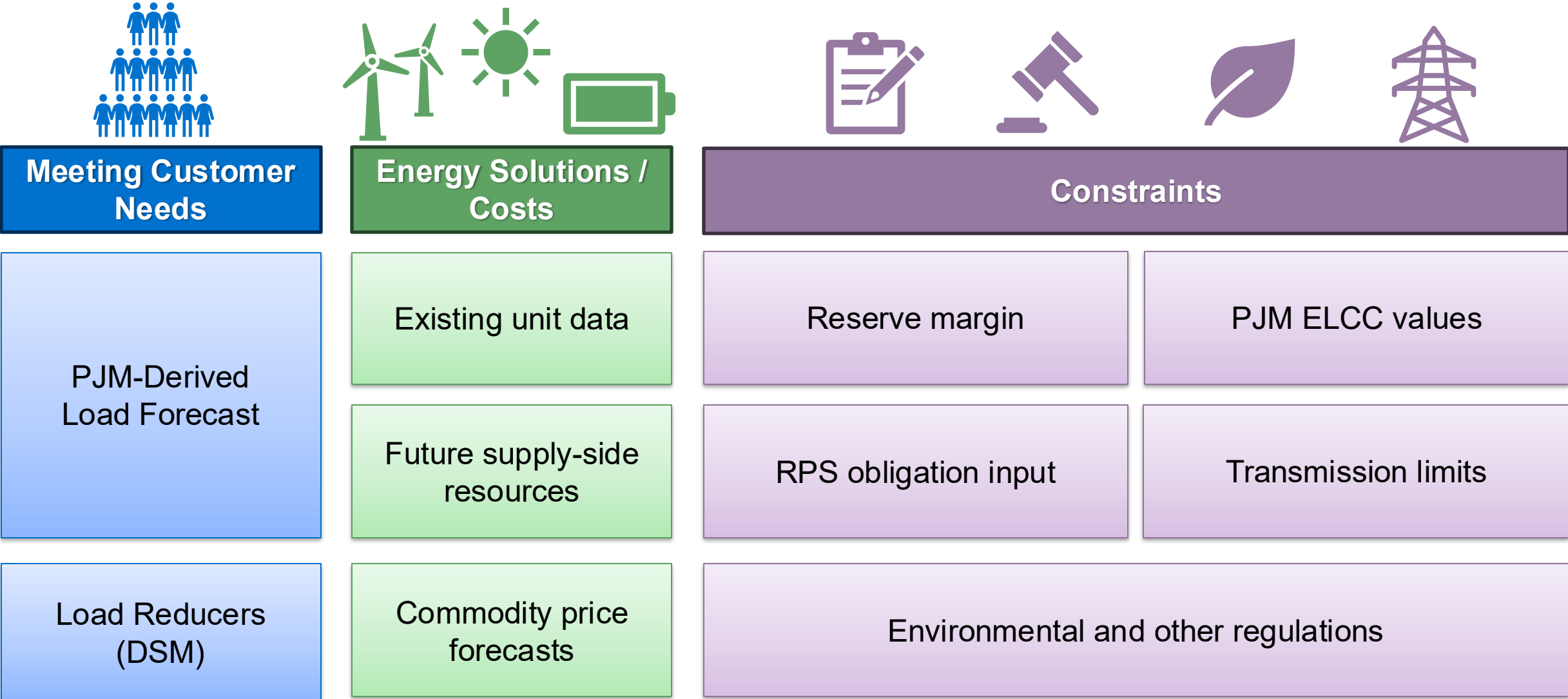


Environmental Regulations and Assumptions

2025 IRP Update
Appendix 5A

2024 IRP
Appendix 5A Table 1

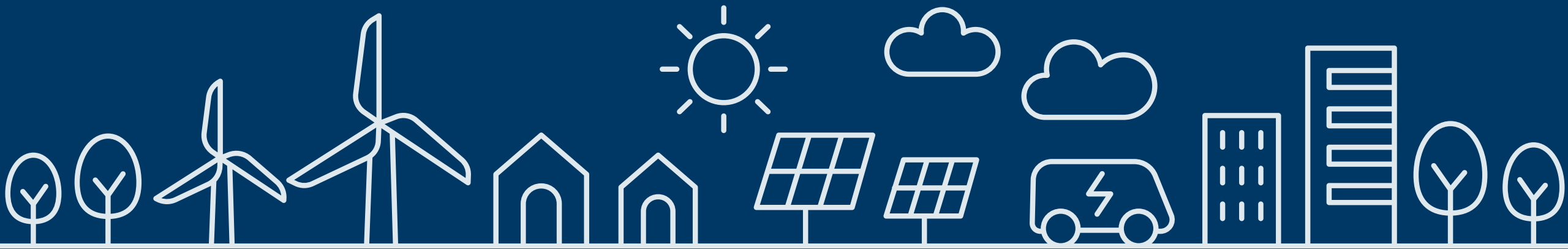
IRP Modeling Process





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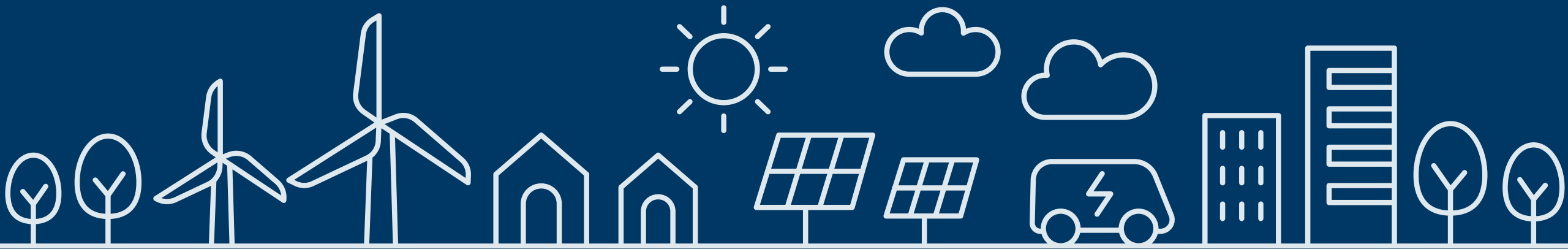
Mentimeter In Progress





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Questions?

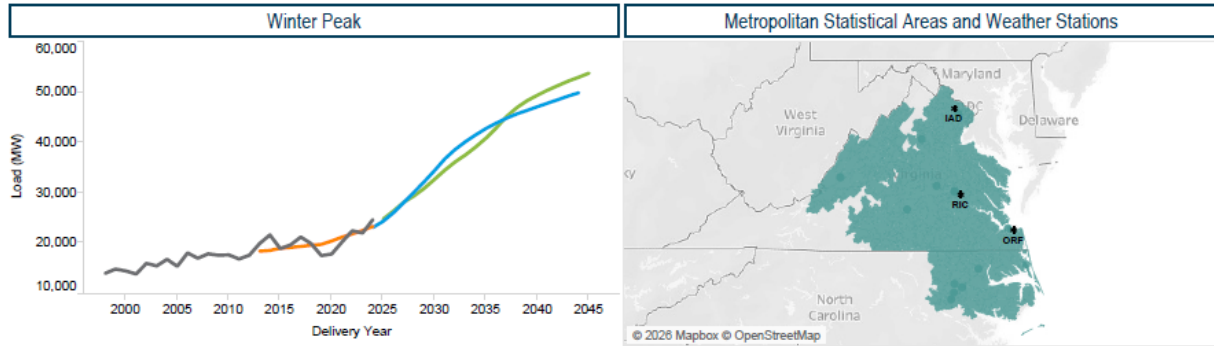
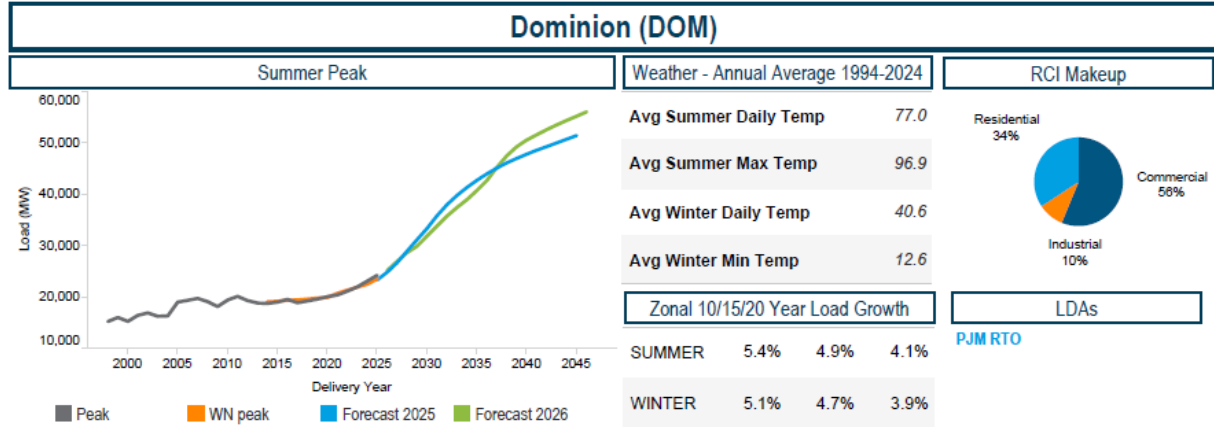


Focus Topic: Load Forecasting Methodologies

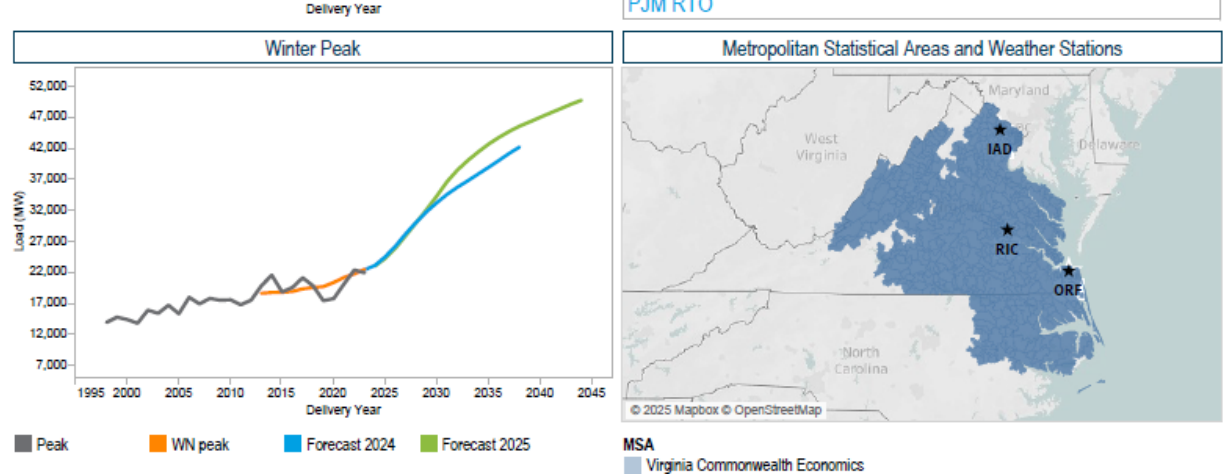
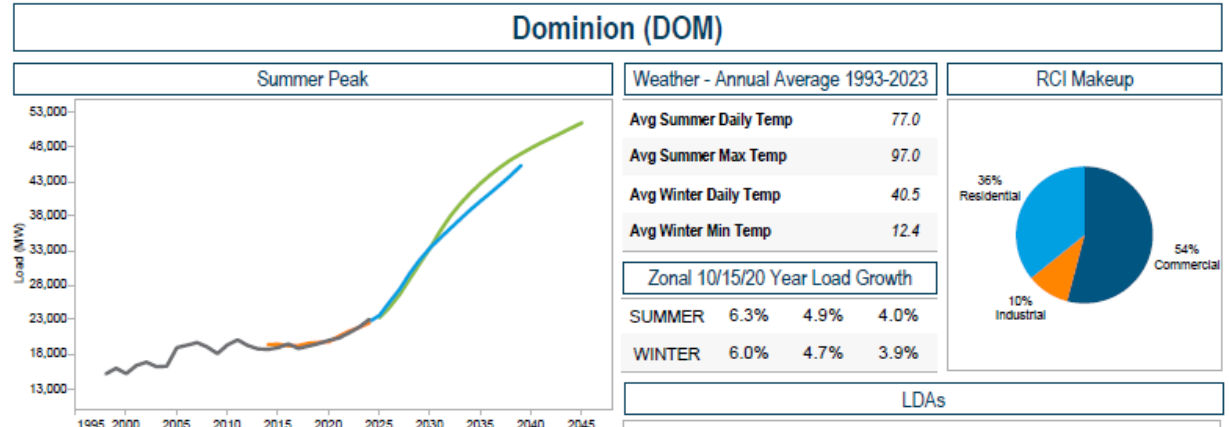
Load Forecasting Methodologies:

PJM Derived IRP Forecast

2026



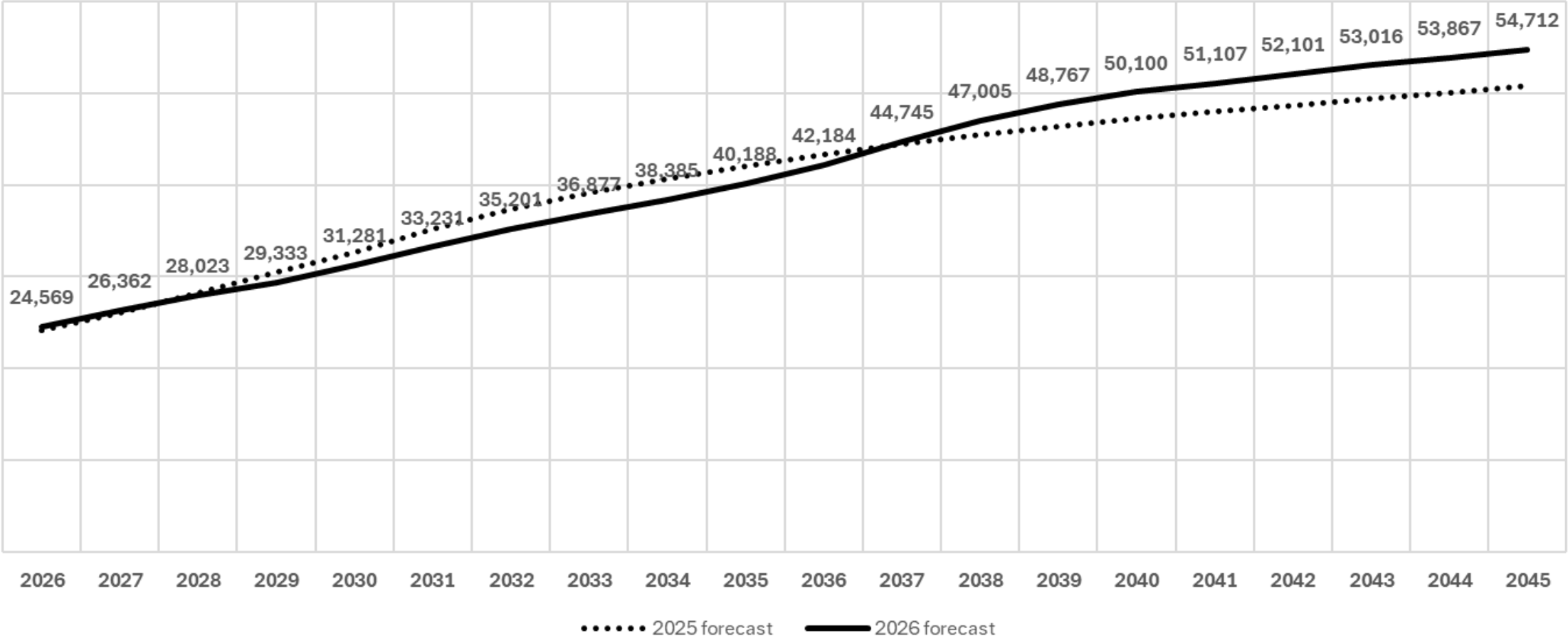
2025



Source: <https://www.pjm.com/-/media/DotCom/library/reports-notice/load-forecast/2026-load-report.pdf>

Load Forecasting Methodologies: PJM Derived IRP Forecast

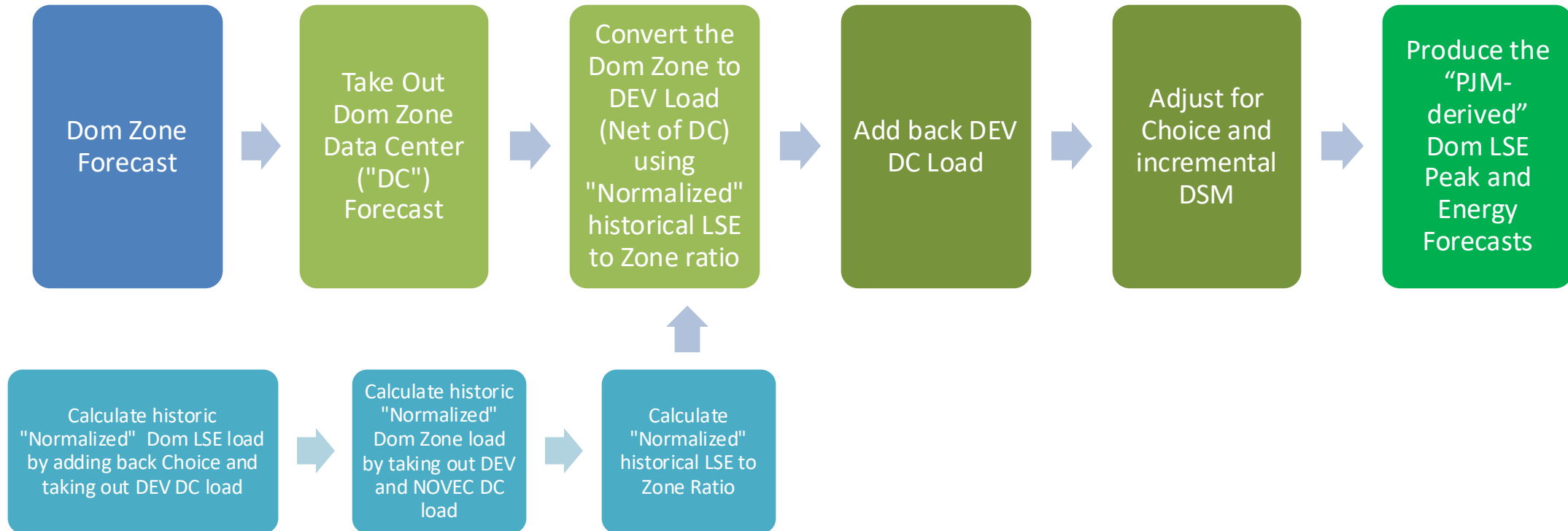
DOM Zone CP (MW)



Data Source: <https://www.pjm.com/-/media/DotCom/planning/res-adeq/load-forecast/2026-load-report-tables.xlsx>

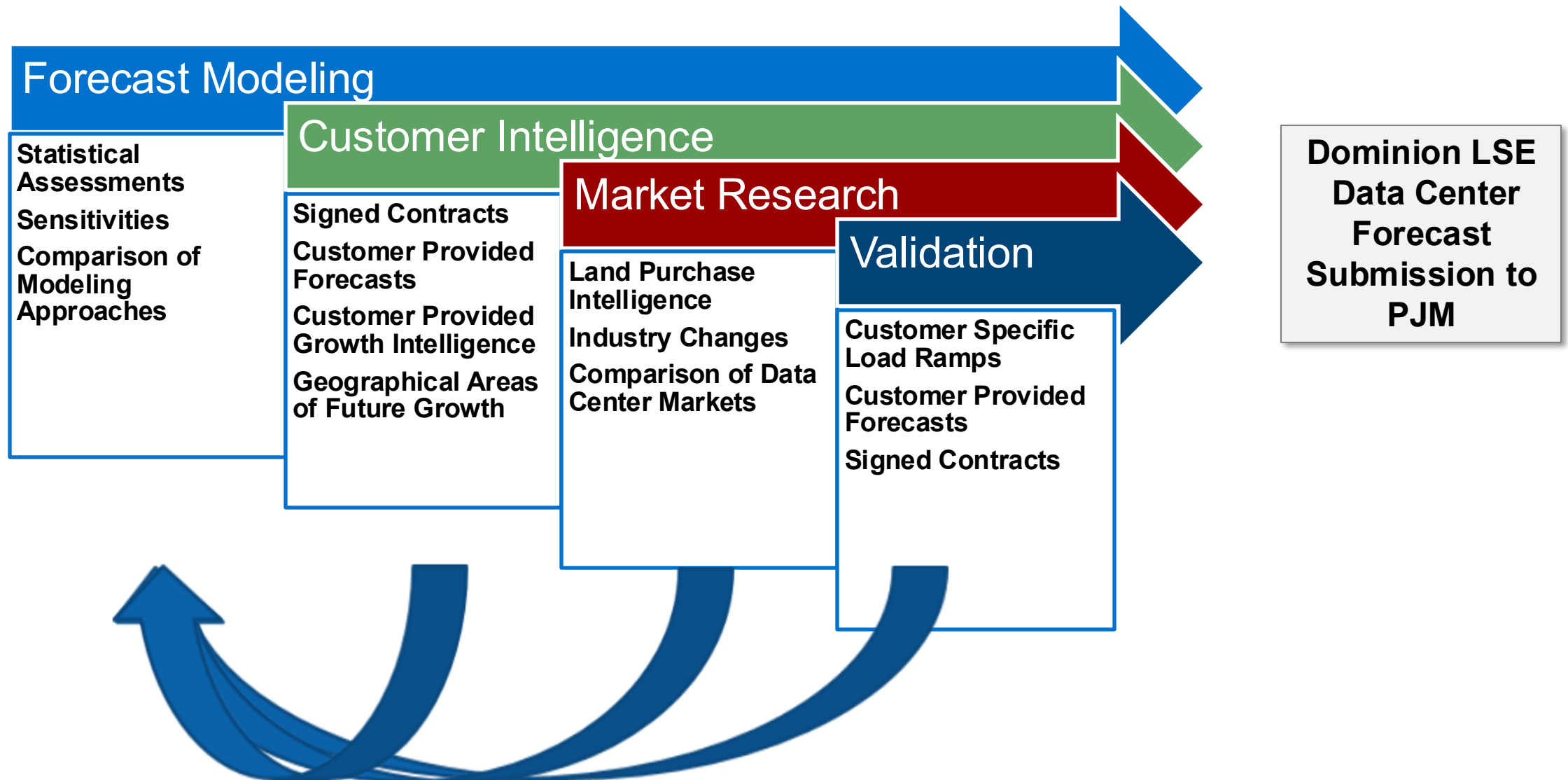
Load Forecasting Methodologies:

PJM Derived IRP Forecast



Focus Topic: Data Center Modeling Methodology

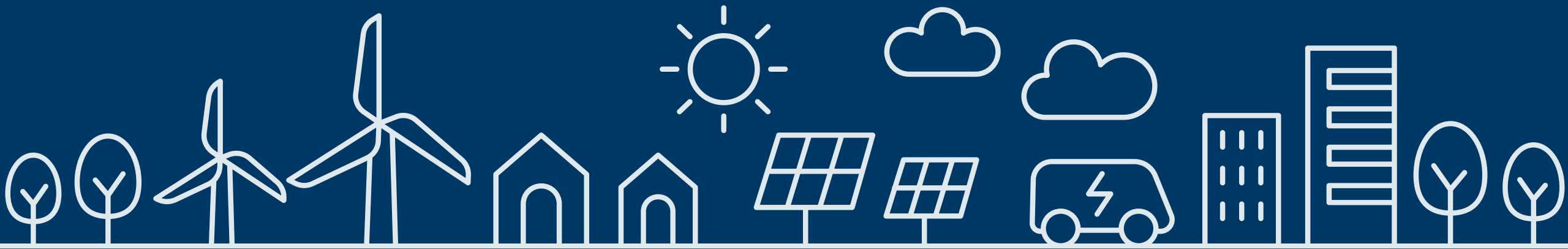
Data Center Modeling Methodology





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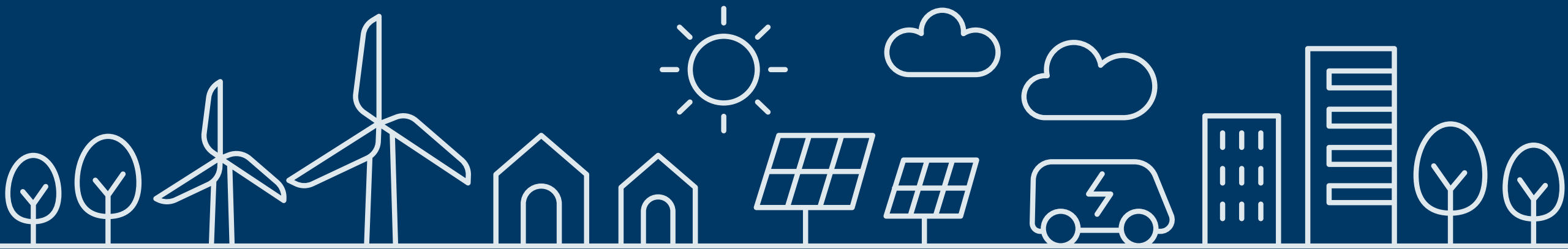
Questions?





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Preview and Solicit Feedback on Next Meeting

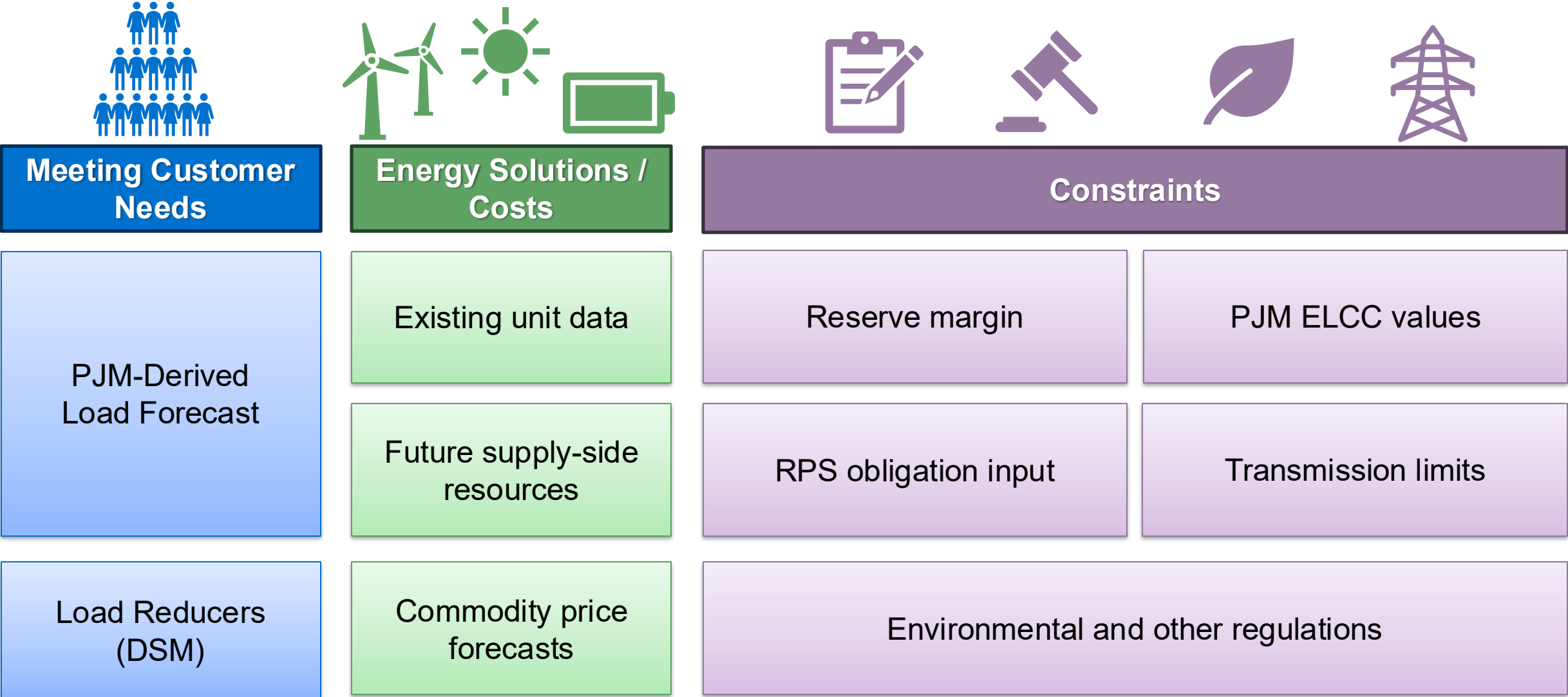


Engagement Schedule

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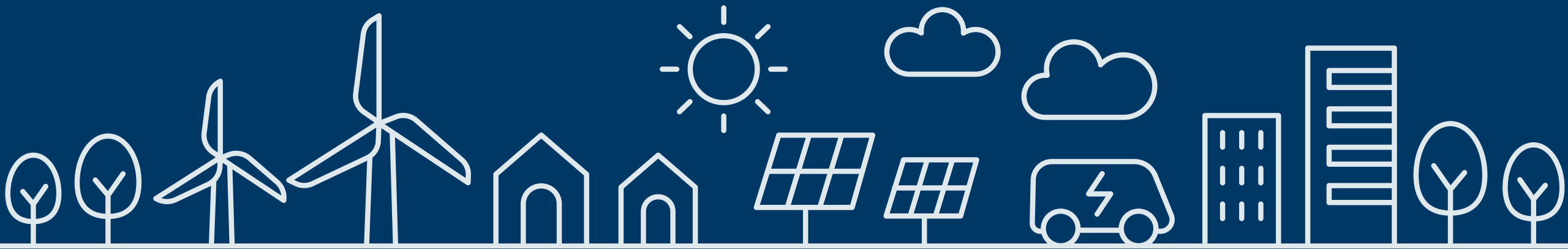


IRP Modeling Process



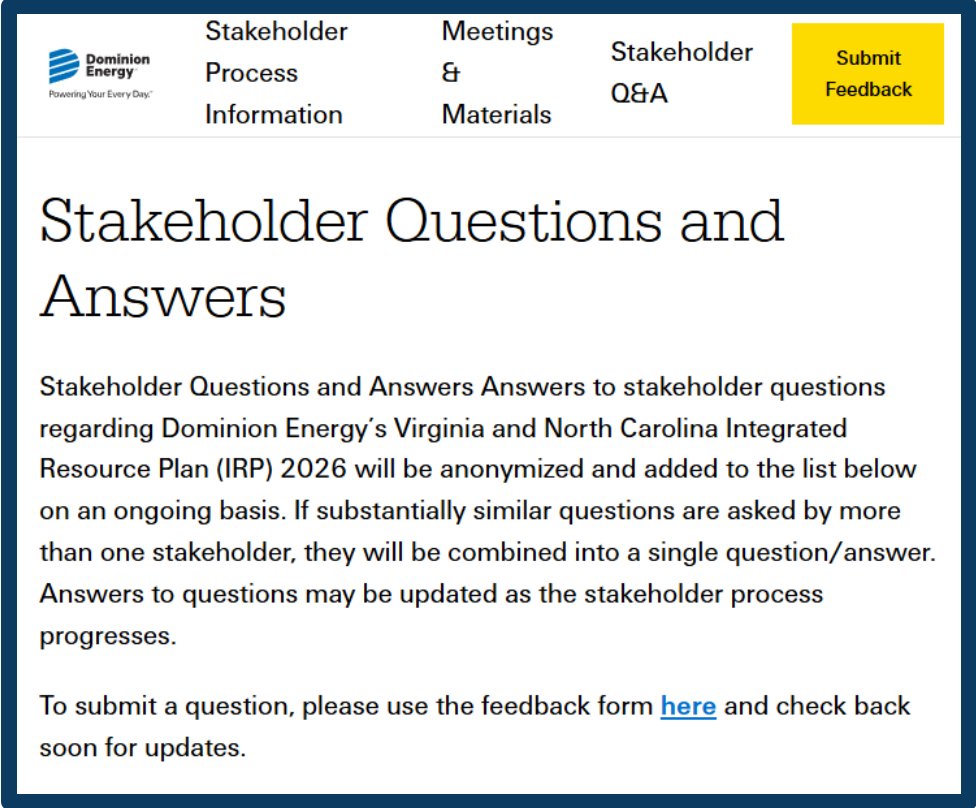


Q&A and Discussion



Wrap-Up and Next Steps

- 1. Questions about the stakeholder engagement process? Contact DEVIRP2026@gpisd.net.
- 2. Other questions can be submitted via the contact form on Dominion Energy’s website: <https://devirp.dominionenergy.com/stakeholder-questions-and-answers>.
- 3. **IRP Conference 1: Friday, May 8th, 9 am – 12 pm ET**
- 4. **Modeling Meeting 2: Wednesday, May 27th, 1 – 3 pm ET**



The screenshot shows a navigation bar with the Dominion Energy logo (Powering Your Every Day) on the left. The navigation items are: Stakeholder Process Information, Meetings & Materials, Stakeholder Q&A, and a yellow Submit Feedback button. The main content area has the title "Stakeholder Questions and Answers" and a paragraph explaining that answers to stakeholder questions regarding Dominion Energy's Virginia and North Carolina Integrated Resource Plan (IRP) 2026 will be anonymized and added to a list on an ongoing basis. It also notes that similar questions will be combined and that answers may be updated as the stakeholder process progresses. At the bottom, it instructs users to submit questions via a feedback form [here](#) and to check back for updates.



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Thank you!

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<https://devirp.dominionenergy.com/stakeholder-questions-and-answers>

