



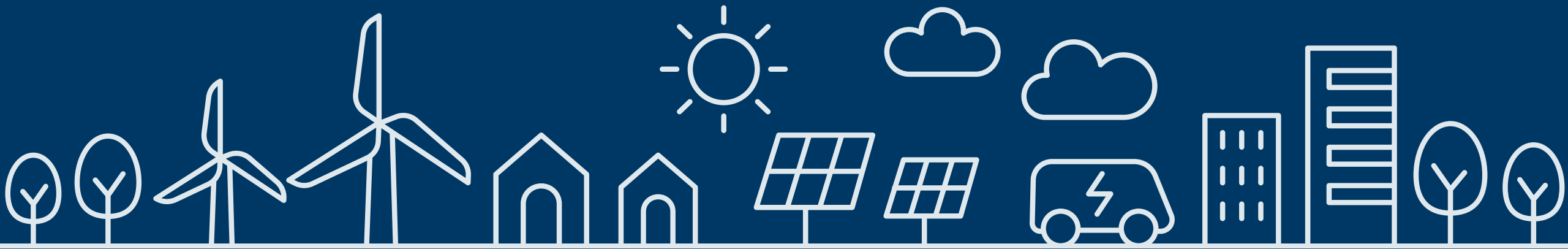
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Stakeholder Engagement IRP Conference 2

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

Friday, June 12th, 9 a.m. – 12 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 enable discussion around energy and capacity resources in an IRP context.
2. Establish an understanding of where we are in the engagement process, next steps, and the opportunities for informing the stakeholder input case.
3. Provide an opportunity for respectful dialogue on the items in scope for today.



Agenda

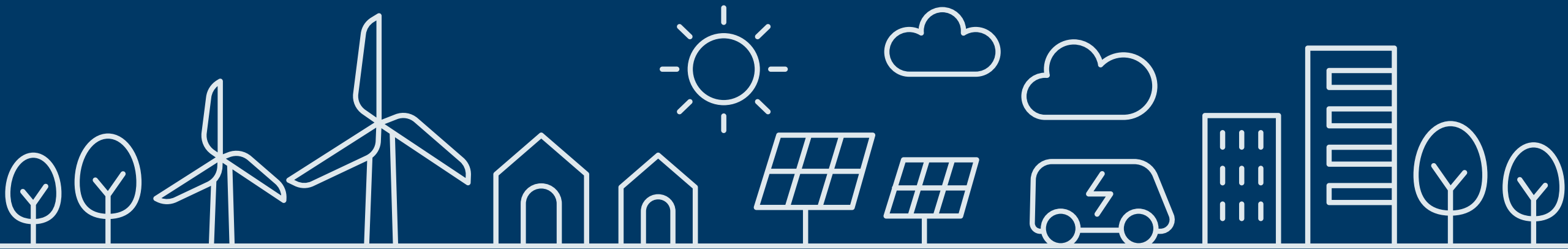
- 9:00 a.m.** Welcome, Introductions, Safety Moment
- 9:10 a.m.** Meeting Objectives and Ground Rules
- 9:15 a.m.** IRP Context & Upcoming Survey
- 9:30 a.m.** Energy Storage Considerations
- 10:30 a.m.** BREAK (15 minutes)
- 10:45 a.m.** Nuclear Considerations
- 11:15 a.m.** Demand-Side Management
- 11:45 a.m.** Next Steps
- 12:00 p.m.** Adjourn





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Introductions



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



Maria Pia Tamburri
Vice President,
Intergovernmental
Affairs



Amanda Prestage
General Manager,
Regulatory Affairs



Lisa Crabtree
Director,
Strategic Planning

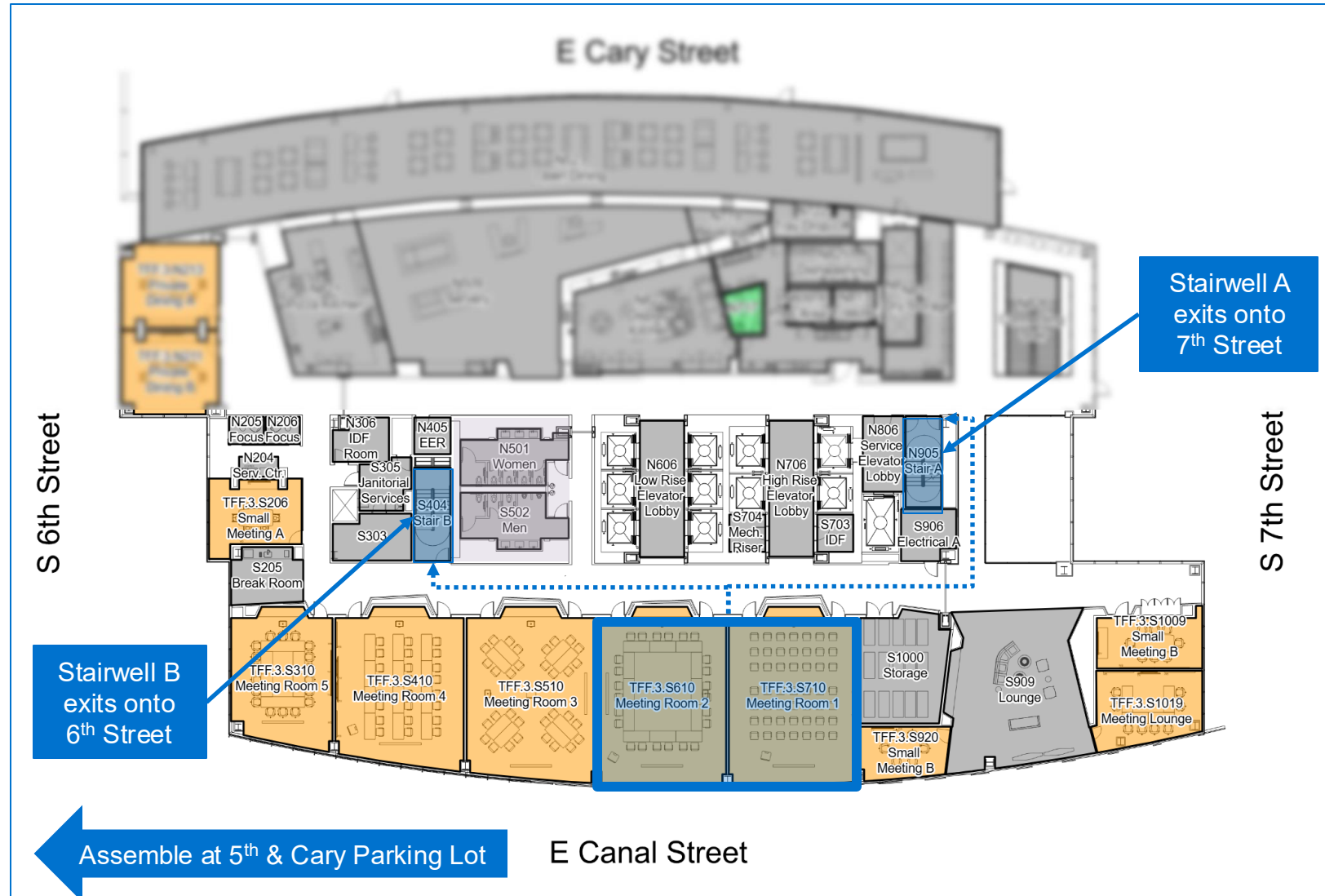


Jarad Morton
Manager,
Integrated Strategic
Planning

Safety Moment: Welcome to the Thomas F. Farrell II Building!

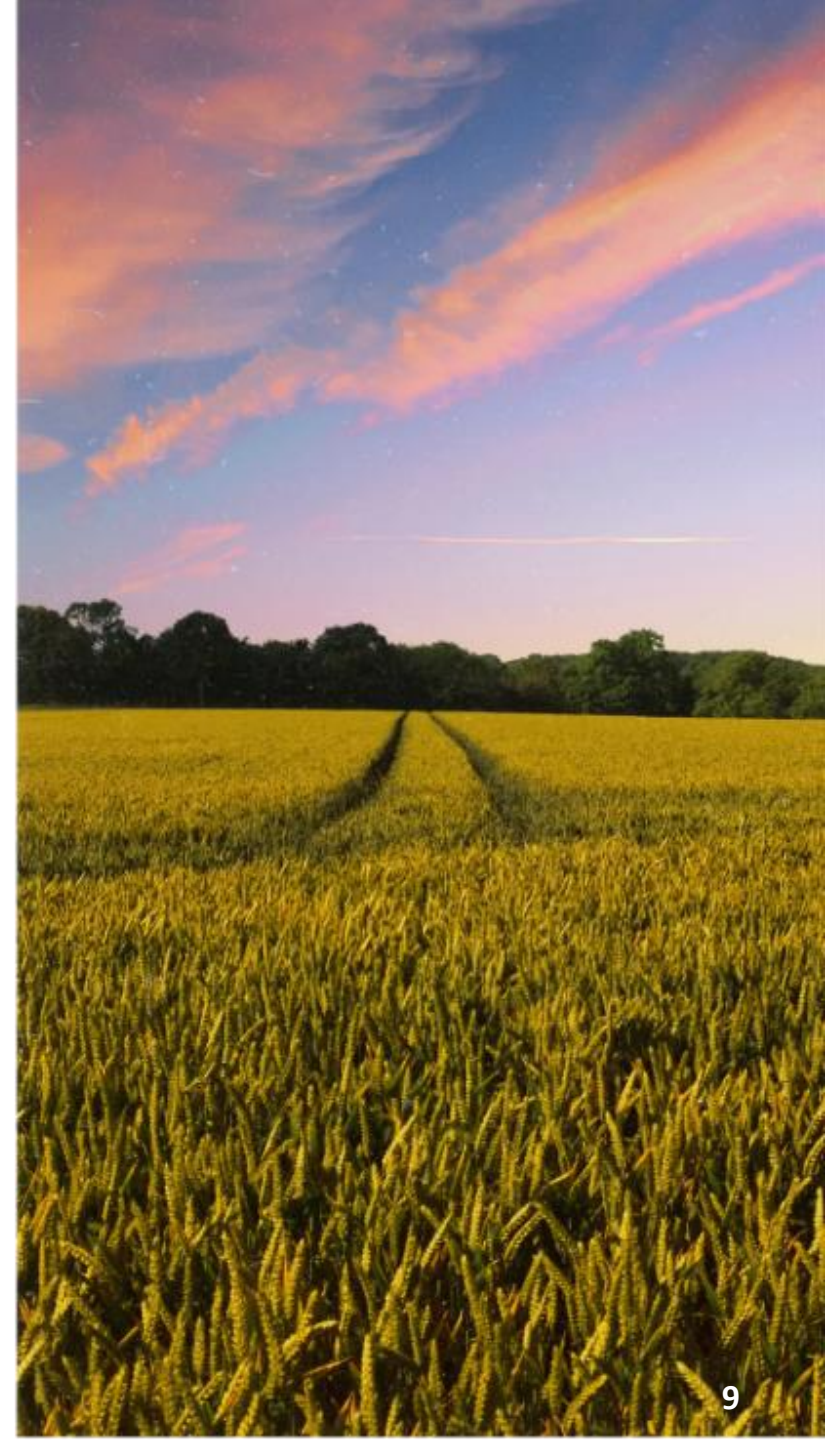
600 E. Canal St, Richmond, VA

- In the unlikely event of an emergency, **dial 911**. Dominion Energy may also activate our Threat Response and Analysis Center (TRAC) to assist as needed.
- In the event of an evacuation, please use the nearest stairwell, then proceed to the dedicated assembly area: the parking lot at **5th & Cary**.
- Public address (PA) announcements will be made for a drill in progress, weather-related events (e.g., tornado, hurricane, earthquake), or active shooter events.



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

In-Person Attendees:

Please position your name tent vertically and a facilitator will call on you to speak.

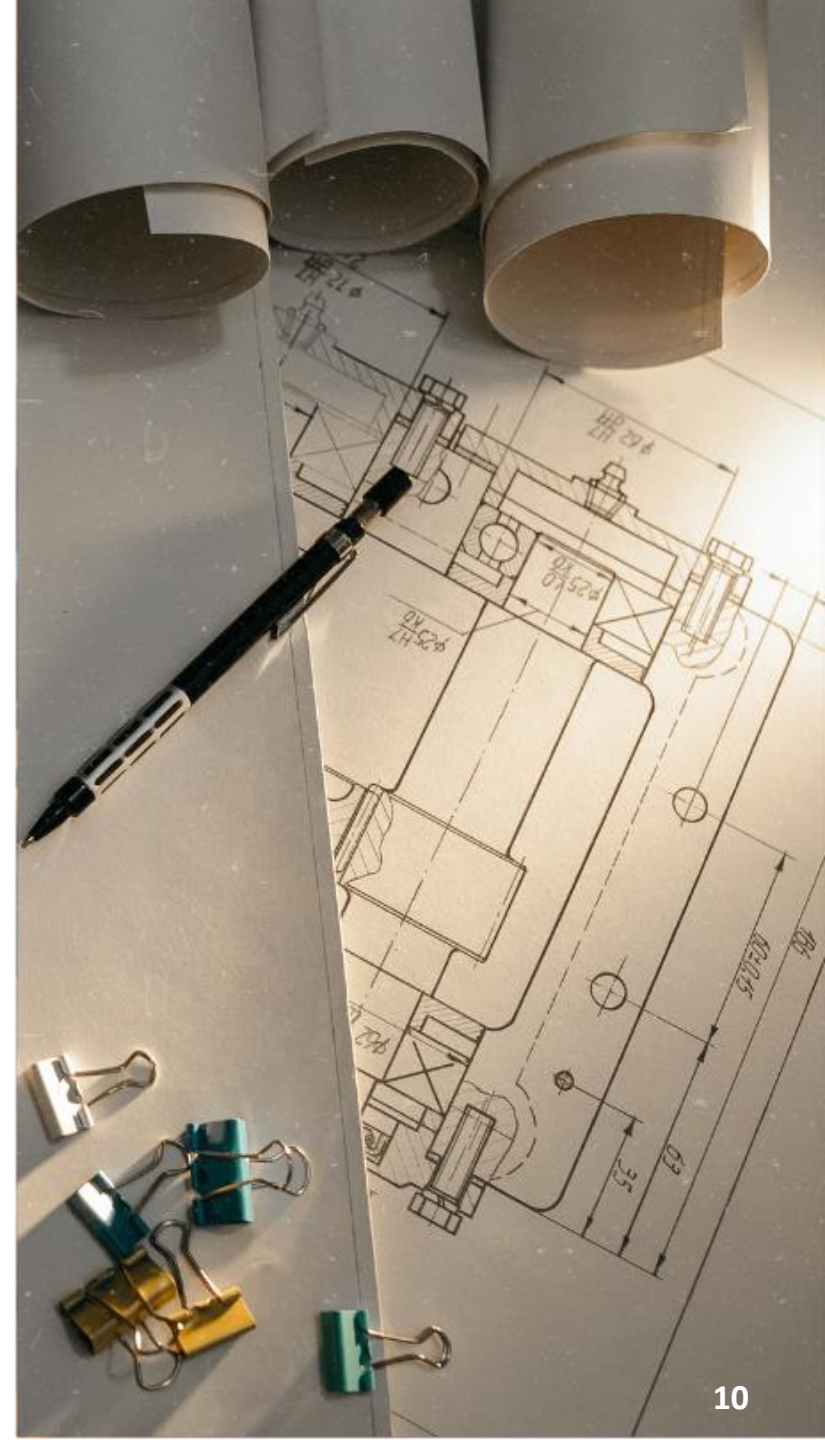
Virtual Attendees:

Please submit questions to presenters using the Q&A feature. Select “all panelists” and type your question into the Q&A box. You may also raise your hand and a facilitator may unmute you

An anonymized list of questions will be posted to the [IRP Stakeholder Q&A Website](#).

If you join WebEx via the browser, you may not have access to the Q&A.

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
April 17	Kickoff Webinar	Virtual	Introductions and scoping survey review
April 29	Modeling Meeting 1	Virtual	Modeling process and timeline, load forecasting
May 8	IRP Conference 1	Hybrid	Understanding cost and affordability drivers
May 27	Modeling Meeting 2	Virtual	Transmission & distribution considerations
→ June 12	IRP Conference 2	Hybrid	Energy and capacity resources
June 26	Modeling Meeting 3	Virtual	Energy and capacity resources, discussion of Stakeholder Input Case survey
TBD	Stakeholder Input Case Survey	N/A	Survey to inform the 2026 Stakeholder Input Case
August 14	Survey and Modeling Results Meeting	Virtual	Overview of stakeholder input survey results
October 22	IRP Post-Filing Meeting	Virtual	Overview of filed IRP



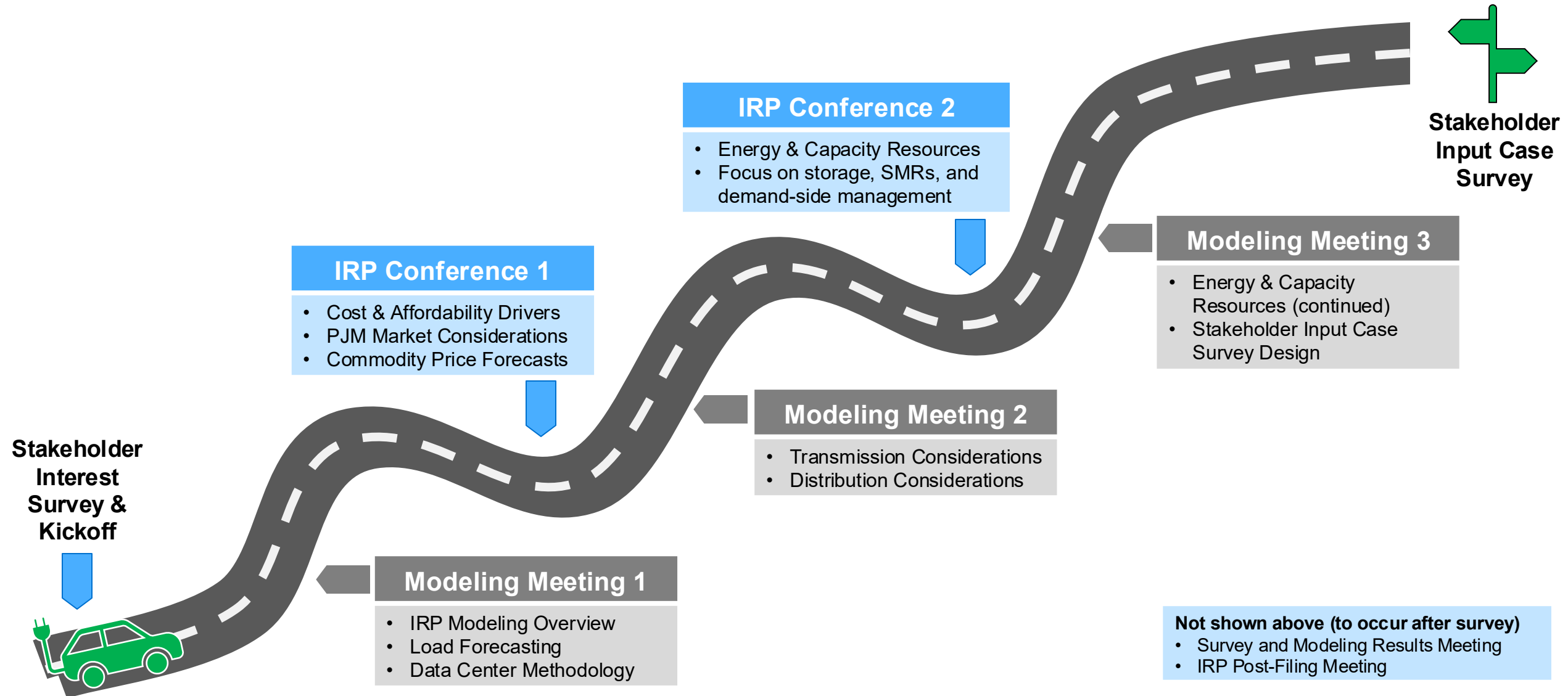
Dominion Energy Virginia & North Carolina 2026 Integrated Resource Plan (IRP)

Stakeholder Engagement Process Update

June 12, 2026

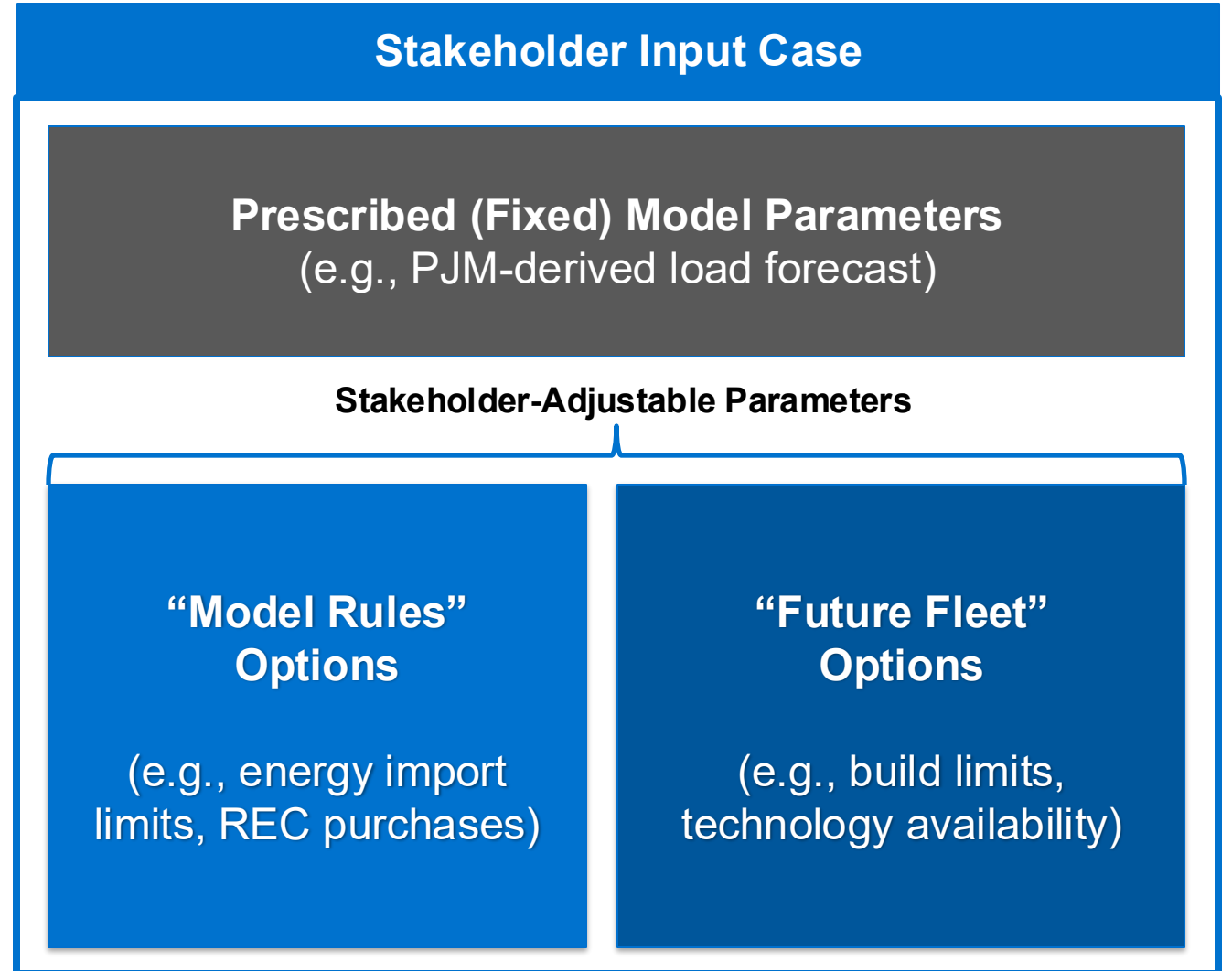
2026 VA/NC IRP Stakeholder Input Case Journey

Stakeholder Input Case Roadmap



Coming this Summer: The Stakeholder Input Case Survey

- The **Stakeholder Input Case** survey will be sent following the conclusion of the IRP Conferences and Modeling Meetings.
- As in prior years, stakeholders will weigh in on **model parameters**. The Stakeholder Input Case will reflect the majority opinions reflected in the survey.
- While inexhaustive, stakeholder-adjustable parameters can be considered either “Model Rules” or “Future Fleet” options.



Stakeholder Input Case Selections: 2024 & 2025 Review

Prescribed Parameters	Load Forecast	PJM	
	EE	Aligned with goals est. in SCC’s pending target setting proceeding; Beyond 2028 based on proposed targets w/reasonable increase based on savings potential.	
“Model Rules”		2024 Stakeholder Case	2025 Stakeholder Case
	Meets RPS Program (i.e., REC retirements) Requirement?	Yes	Yes
	Forced VCEA Development Targets?	Yes	Yes
	Renewable Utility/PPA	65/35	65/35
	REC Purchases	30%	30% *
	EPA Environmental Regulations	Yes	Yes
	Capacity Imports (Purchases) (MW)	5,000	5,000
	Energy Imports	20% of Annual	20% of Annual *
	Retirements	Least Cost Optimized	Split **
	Solar Build Limits (MW)	2,040	2,040
“Future Fleet”	Storage Build Limits (MW)	700	700
	Onshore/Offshore Wind (MW)	60 / 6,000	60* / 6,000
	Nuclear Build Limits (starting in 2034) (MW)	536	Large-scale and SMR resources selectable
	Natural Gas Resources	None	None
	2025 stakeholders requested long-duration energy storage (LDES) and hybrid solar plus storage resources be selectable resources		

*or align with Primary Portfolios
 **even split between least-cost and VCEA-forced retirements

IRP Conference 1: Menti Prioritization Poll Results

- In IRP Conference 1, stakeholders voted on a Menti poll to prioritize energy and capacity resources to be discussed in IRP Conference 2.
- The top-ranked choices included:
 1. Long-duration energy storage (10+ hr)
 2. Battery storage (4 hr)
 3. Solar+storage
 4. Demand-side management
 5. Nuclear (incl. SMRs)
- **Today's meeting will discuss each of these considerations.**

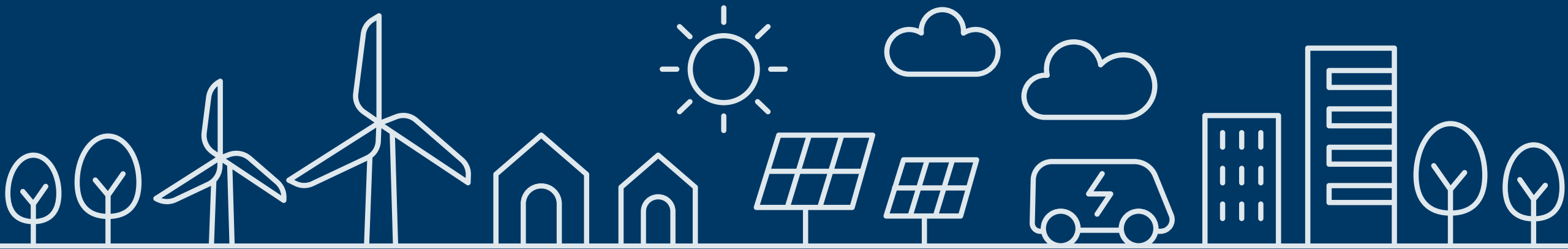


Screenshot from IRP Conference 1 meeting recording, May 8, 2026.



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Questions?



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

Energy Storage Considerations

June 12, 2026

Short Duration Energy Storage (< 10 hours)

Short Duration Energy Storage Key Take-aways

1. What is a battery energy storage system (BESS)?
2. How does it work and why is it important?
3. What is Dominion doing with BESS?

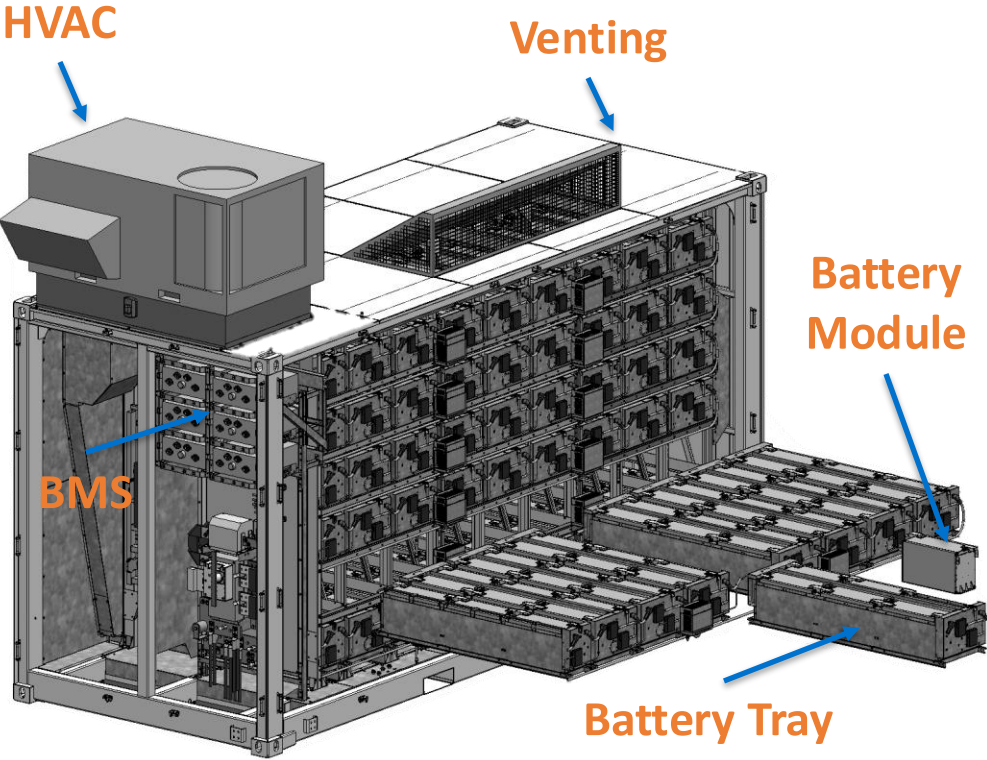
Energy Storage Systems

Lithium-Ion Battery System Components

Cell

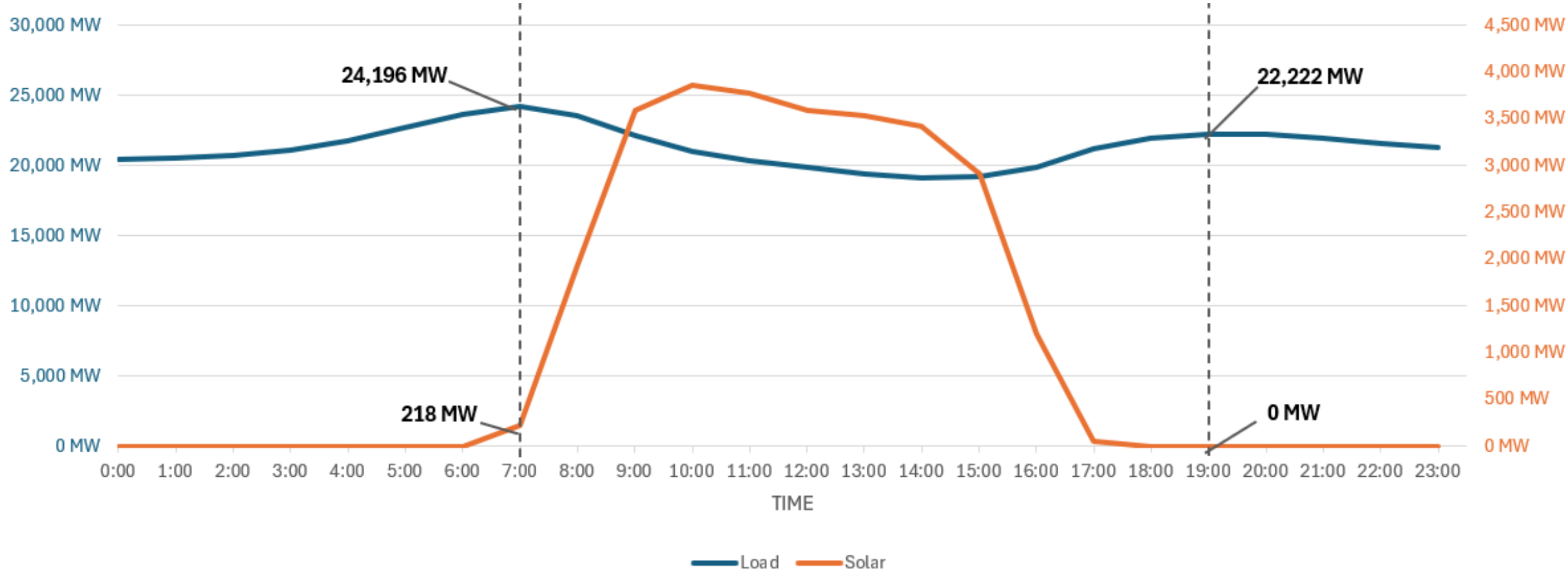


Module



Enclosure

Energy Storage Use-Case



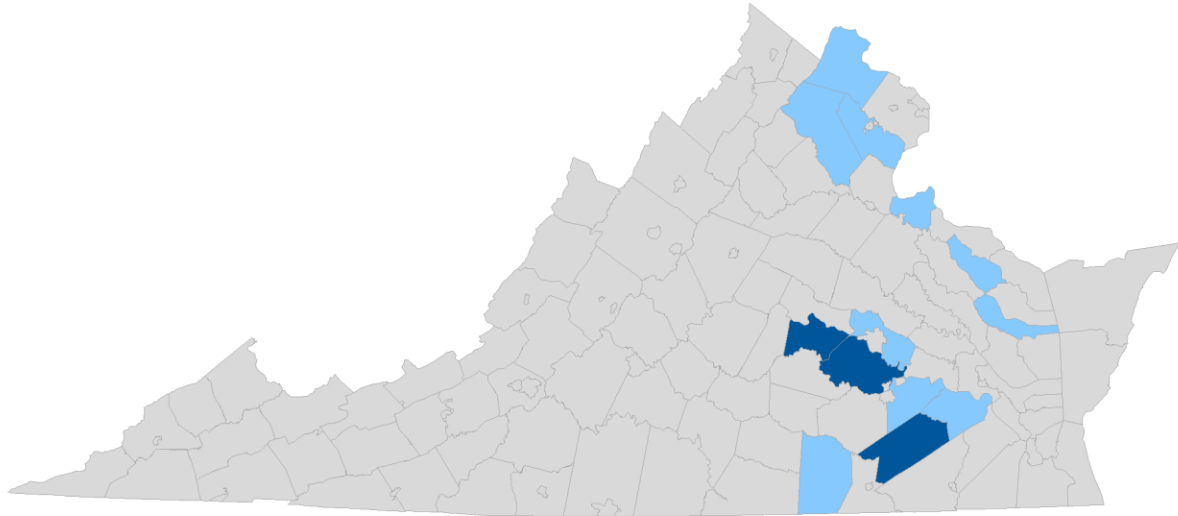
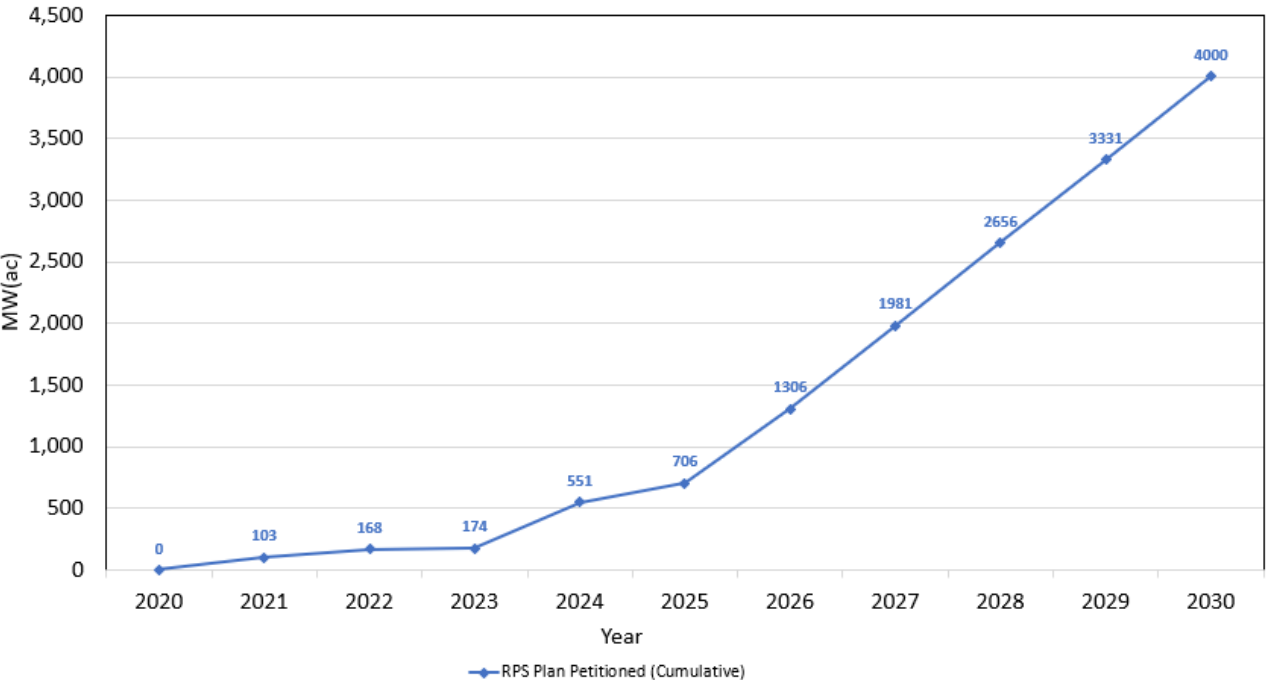
Solar Plus Storage

	Potential Benefits	Potential Drawbacks
Hybrid Resources	<ul style="list-style-type: none"> • Has the potential to reduce interconnection costs 	<ul style="list-style-type: none"> • Decreased dispatch flexibility • Potential REC impacts if charging directly from the solar • Increased round trip efficiency losses • ELCC values assigned on a case-by-case basis
Co-Located Resources	<ul style="list-style-type: none"> • Provides greatest dispatch flexibility • Lessens round trip efficiency losses 	<ul style="list-style-type: none"> • Potential for increased interconnection costs

Energy Storage In Virginia Overview through 2030

Short Duration Energy Storage

DEV Energy Storage Growth Plan: Company Owned + PPAs Through 2030



Powered by Bing
© GeoNames, Microsoft, TomTom

In Development/Construction | >1,000MW

In Operation | ~48MW

BESS in Virginia Overview

Dominion Owned

Dry Bridge Storage

20MW / 80MWh | Chesterfield | COD: 2023



Dulles Solar + Storage

50MW / 200MWh | Loudoun | COD 2026



Shands Storage

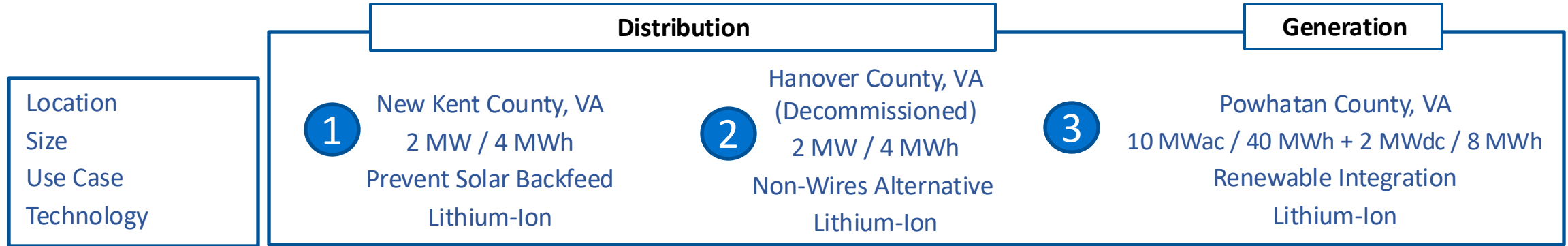
15.7MW / 62.8MWh | Sussex | COD 2026



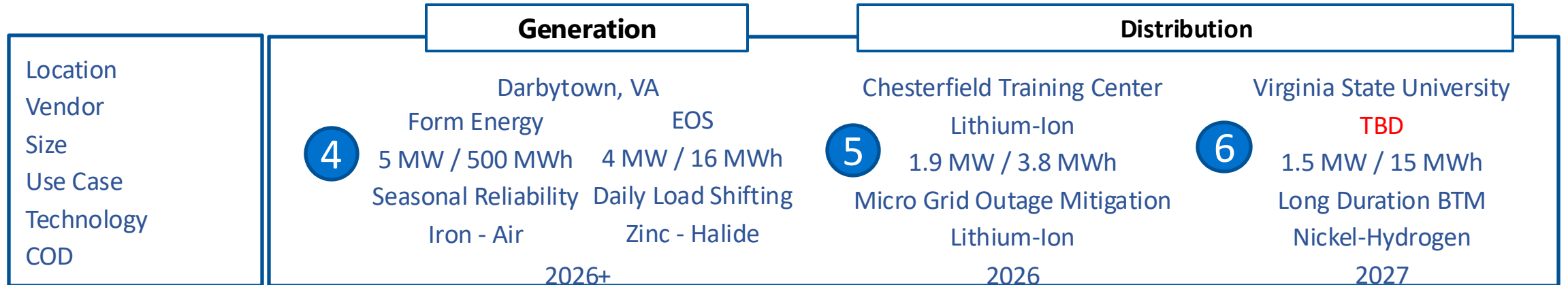
Battery Storage Pilots

GTSA Phase I and II Overview

Phase I - Pilot Project CODs - Q4 2021/2022 (BESS 1, 2 & 3)



Phase II - Pilot Project COD – Q3 2026 (BESS 4, 5 & 6)



Long Duration Energy Storage (\geq 10 hours)

Long Duration Energy Storage Key Take-aways

1. What is a long duration energy storage system (LDES) and how is it different from BESS?
2. What is Dominion doing with LDES?
3. What is the state of development of LDES?

Long Duration Energy Storage (LDES) Technologies

Electrochemical

Involves the conversion of electrical energy into chemical energy and vice versa

- Fuel cells, rechargeable batteries, and electrochemical capacitors

Thermal

Stores thermal energy by cooling/heating a storage medium:

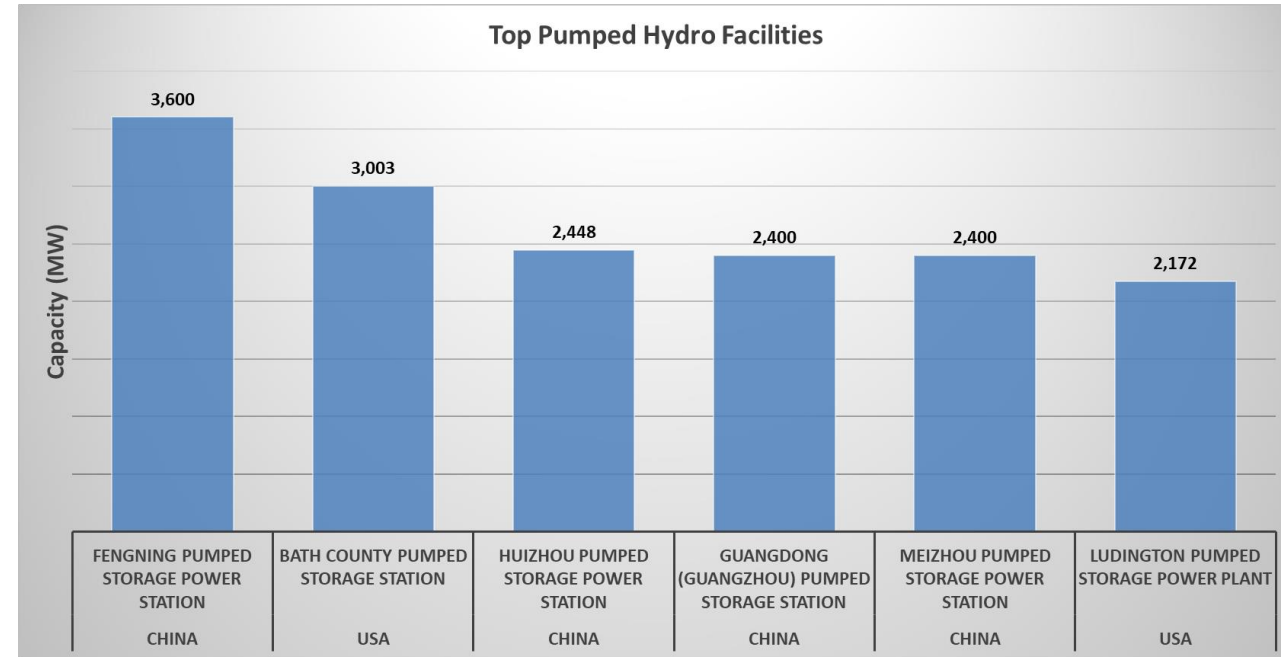
- Sensible heat (e.g., water, molten salts, solid materials)
- Latent heat (e.g., cryogenic)
- Thermochemical heat (e.g., chemical looping) – very early stage

Mechanical

Uses movement of materials to store and release energy, including gravity (potential energy) storage and compressed air energy storage

Bath County Pumped Hydro Energy Storage

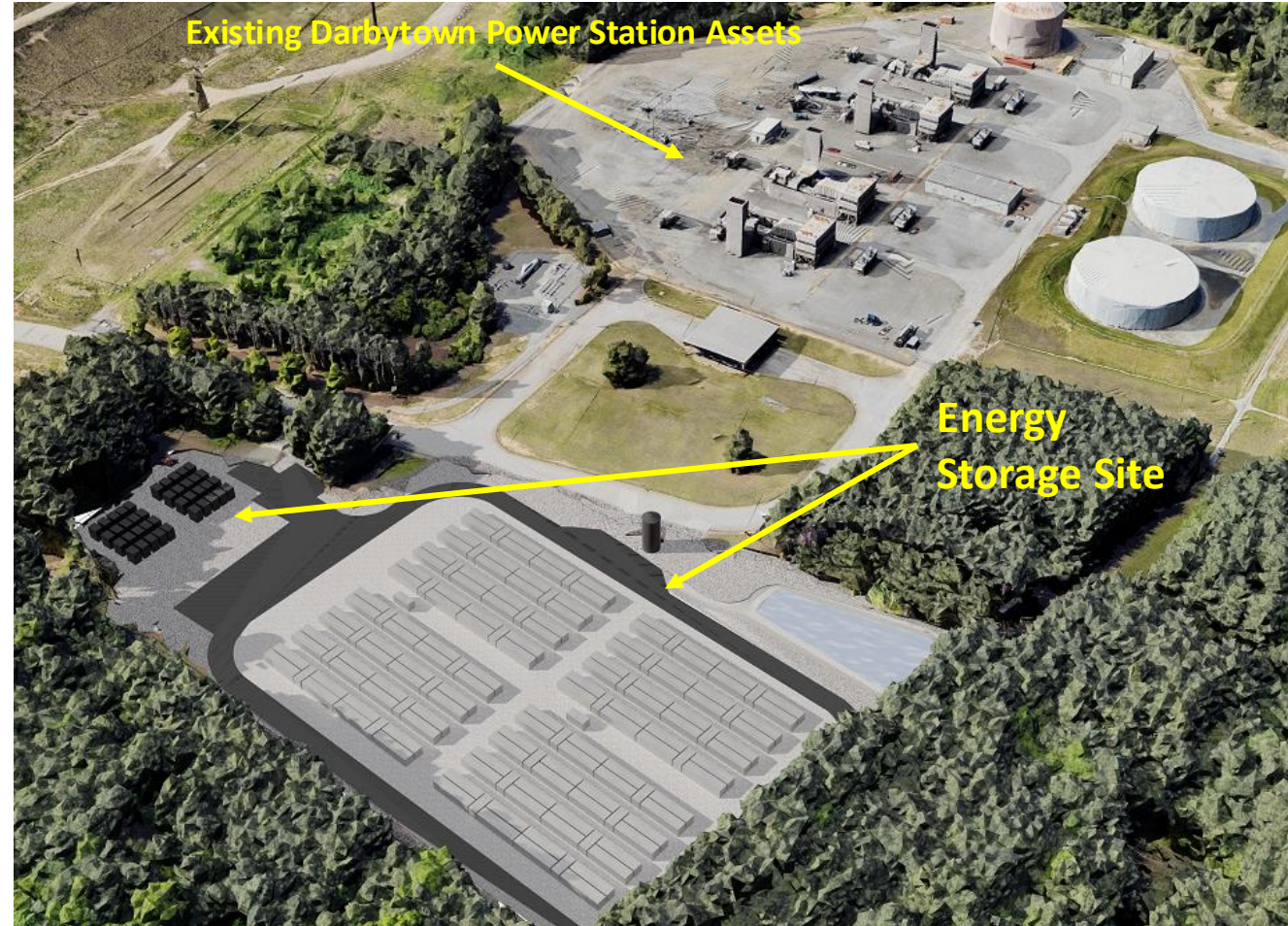
- Commissioned in 1985, Bath Co. Pumped Hydro Energy Storage (PHS) provides grid-scale energy storage and load balancing for PJM Interconnection
- Installed Capacity: 3,003 MW (6 × 500.5 MW Francis pump-turbines)
 - ~13% of pumped storage capacity in the U.S.
- Storage Capacity: 24,000 MWh (approx. 11 hours of full output)
 - Overall Efficiency: ~79%
- Powers approximately 750,000 homes
- Supports grid reliability and renewable integration across 13 states via PJM
- Environmental Considerations: Enhances stream flow during droughts, supports aquatic life, and occupies minimal land area



Bath County PHS is operated by Dominion Energy (DEV) and owned by DEV (60%), LS Power (24%), FirstEnergy (16%)

Darbytown Energy Storage Technology Pilot

Project Location: Henrico County, VA



Battery Technologies



Project Size

5 MW/500 MWh

4 MW / 16 MWh

Chemistry

Iron-Air

Zinc Halide

Duration

100 hour

4 hour

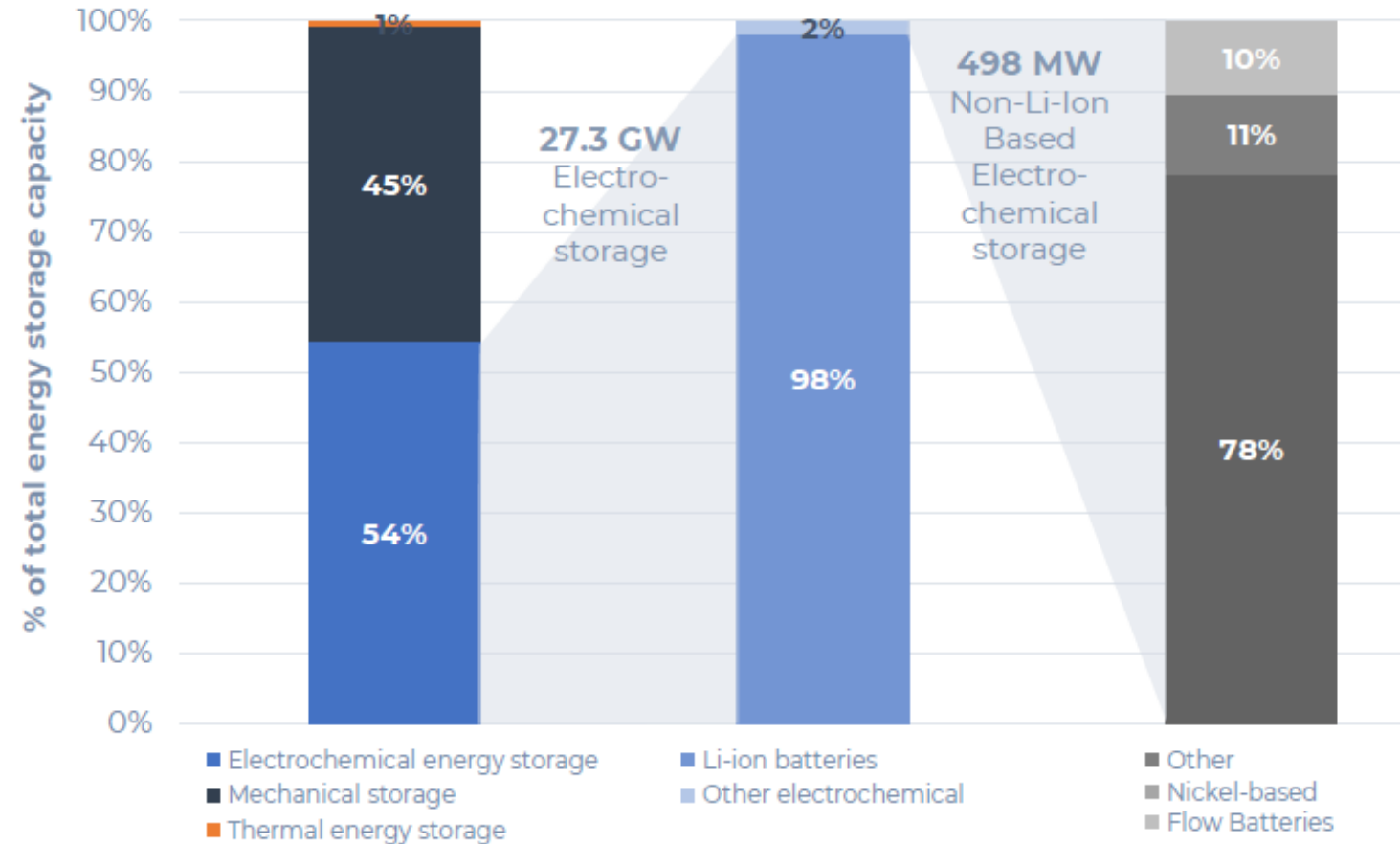
Use Case

Seasonal
reliability

Daily load shifting

State of the U.S. Energy Storage Market

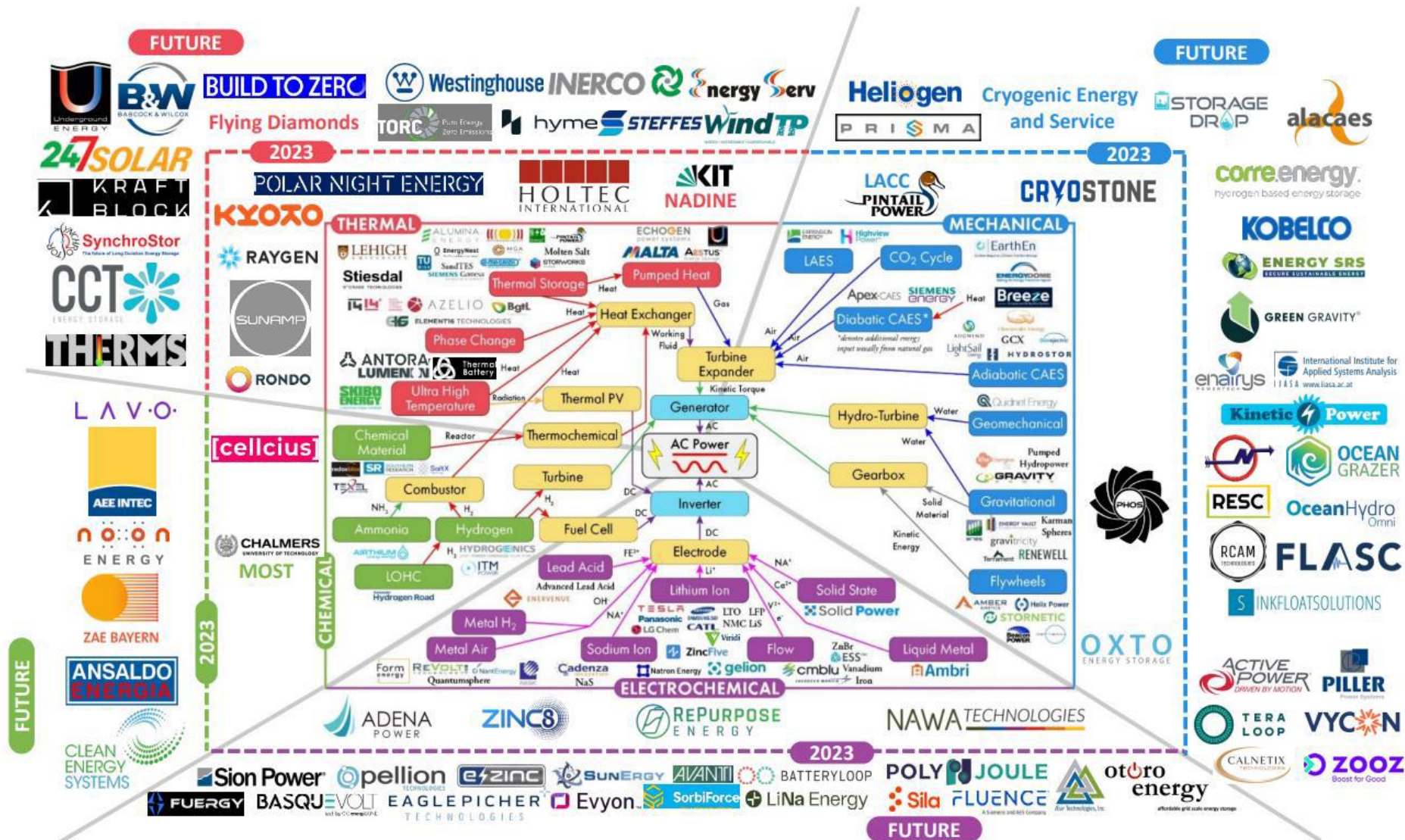
Total power capacity of energy storage (2024)



- Electrochemical storage (BESS) has experienced an annual growth of 107%, expanding from an installed nameplate capacity of 1GW to 27.1 GW (2019 to 2024)
- By end of 2025, BESS led the energy storage power capacity (62% installed capacity)

Darcy Partners

State of the LDES Market

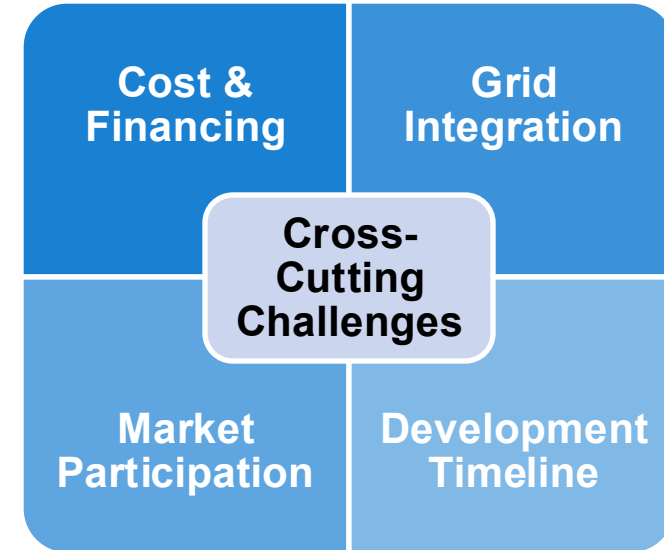


State of the LDES Market

Technology category	Technology	Nominal duration (h)	LCOS (USD/MWh)	Min. deployment size (MW)	Average RTE (%)	TRL range
Mechanical	Flywheels	0 – 4	140 – 190	0.5 – 20	80 – 95	6 – 9
	Traditional pumped hydro (PSH)	0 – 24	70 – 170	200 – 400	70 – 85	9
	Gravity-based	2 – 100	90 – 180	20 – 100	70 – 85	6 – 8
	Compressed air (CAES)	2 – 24	80 – 150	200 – 500	40 – 70	7 – 9
	Liquid air (LAES)	2 – 24	175 – 300	50 – 100	60 – 75	6 – 9
	Liquid CO2	6 – 100	50 – 60	10 – 500	70 – 80	4 – 6
Thermal (power-to-power)	Sensible heat	2 – 200	50 – 300	10 – 500	55 – 90	6 – 9
	Latent heat	4 – 100	50 – 300	10 – 100	20 – 50	3 – 5
	Thermochemical heat	10 – 100	100 – 300	-	-	3 – 7
Electrochemical	Flow batteries	2 – 24	100 – 140	10 – 100	60 – 80	4 – 9
	Hybrid flow batteries	4 – 12	100 – 150	> 100	60 – 80	4 – 9
	Emerging batteries	2 – 100	50 – 200	10 – 100	40 – 85	4 – 9

LDES Technologies

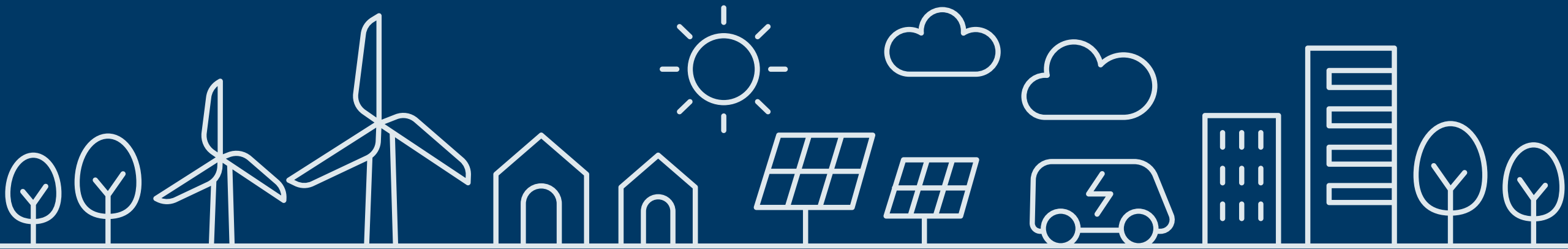
Technology Type	Technologies	Key Advantages	Main Challenges
Electrochemical	<ul style="list-style-type: none"> • Lithium-ion (long-duration use) • Flow batteries • Sodium-ion / metal-air batteries • Emerging Chemistries 	<ul style="list-style-type: none"> • Modular and scalable • Fast response time 	<ul style="list-style-type: none"> • High cost for long durations (Li-ion energy scaling) • Supply chain constraints • Degradation
Mechanical	<ul style="list-style-type: none"> • Pumped hydro storage (PHS) • Compressed air energy storage (CAES) • Liquid air energy storage (LAES) 	<ul style="list-style-type: none"> • Long lifetimes (often decades) • Large-scale capacity • Proven technology components 	<ul style="list-style-type: none"> • Geographic constraints • High upfront capital cost • Round-trip efficiency • Permitting and construction • Infrastructure-heavy deployment
Thermal	<ul style="list-style-type: none"> • Molten salt storage • Solid media (concrete, sand, bricks) • Cryogenic thermal systems 	<ul style="list-style-type: none"> • Lower material cost potential • Long-duration (multi-day) capability 	<ul style="list-style-type: none"> • Round-trip efficiency • Limited electricity-only business cases • Heat-to-power conversion/idle energy losses • Less mature commercial deployment (non-CSP systems)





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

Nuclear Considerations

June 12, 2026

What are Small Modular Reactors (SMRs)?

Small

- Fraction of the size of a conventional reactor.
- Electrical power output around 300 MWs.



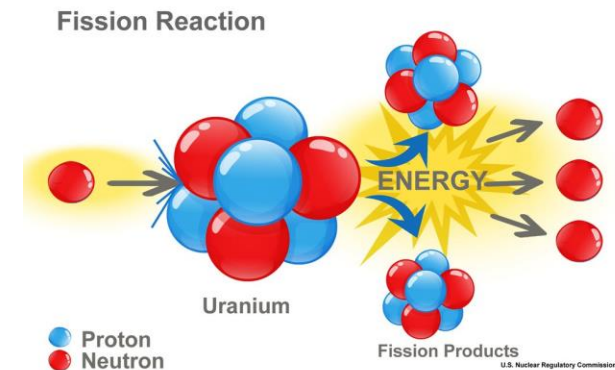
Modular

- Factory built systems, modules, and components.
- Factory-assembled and transported as a unit to a location for installation.

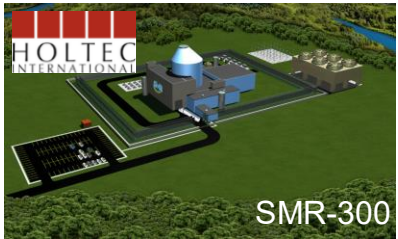
Reactors

- Harnessing nuclear fission to generate heat to produce energy.
- Builds upon nuclear power generation technology with improvements enhance safety and security.

	Current Nuclear Fleet	General SMR Characteristics
Output	~1000 MW per unit	~300 MW per unit
Site	> 1,000 acres	50 - 70 acres
EPZ	10 mile radius	Site boundary
Staffing	~1,000 personnel	~100 personnel

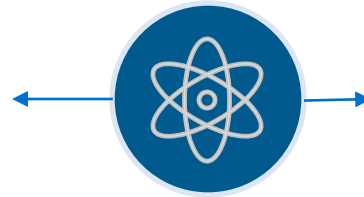


Various SMR Technologies in Development



Potential SMR technologies offer a varying range of technological advantages.

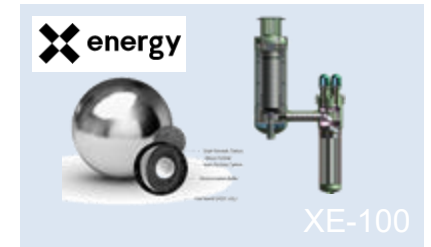
Light Water Technologies



Non-Light Water Technologies






Technologies in Development

- Light water more closely resemble the existing commercial nuclear fleet.
- Non-light water technologies build on years of experience, research, and other non-commercial applications.



North Anna Site Selection

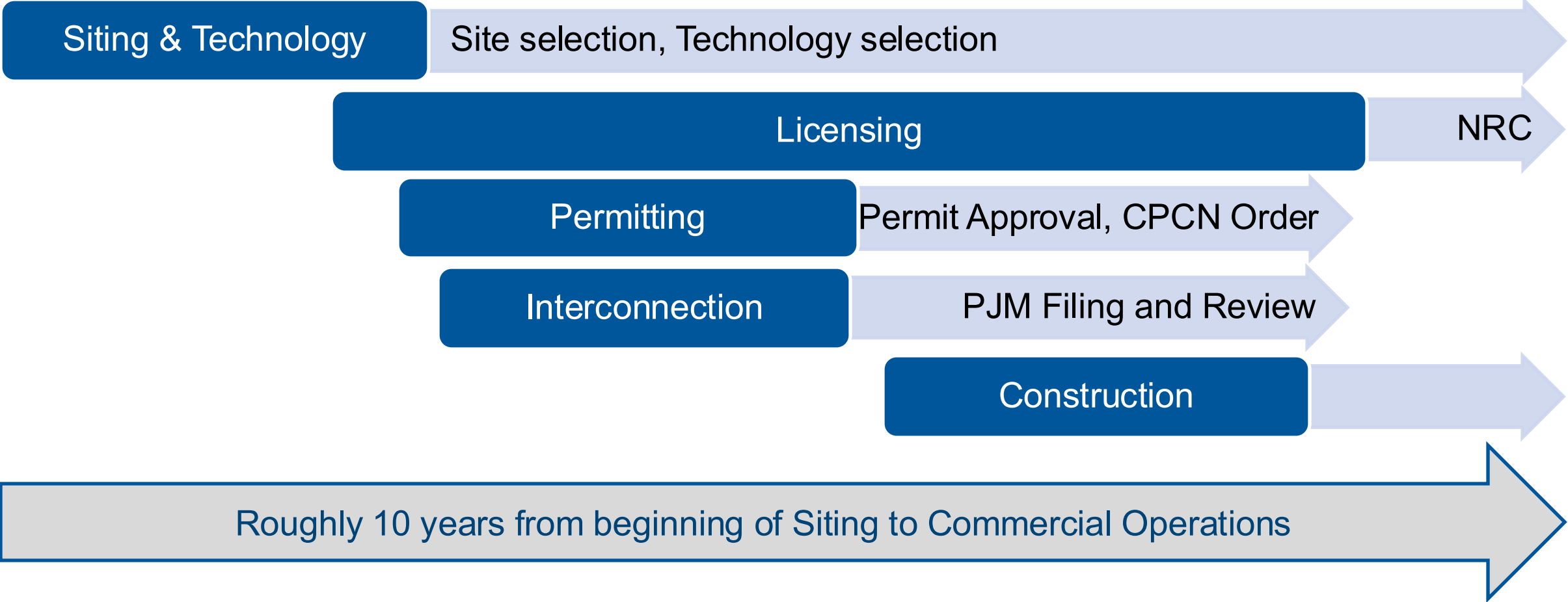
Key Benefits of the North Anna Site

-  North Anna has a current Early Site Permit (ESP) from the Nuclear Regulatory Commission
-  Extensive environmental and site studies conducted presents a well characterized location
-  Site separation conducted for previous initiatives
-  Ideal transmission grid interconnection
-  Strong local community support for new nuclear



The current state of site characterization, development, and licensing at the North Anna site presents the fastest pathway to construction of an SMR which will serve as a springboard to future deployments.

General SMR Development Timeline



The 1st SMR could be placed in service as soon as the end of 2034

Update on SMR Deployments

Advanced Reactor Demonstration Program (ARDP) Projects



TerraPower Natrium Reactor

-- Under Construction --

Type: Sodium-cooled fast reactor with molten salt energy storage

Location: Kemmerer, WY

Licensing Status:

- March 2024: CPA submittal
- March 2024: NRC approval

Target Operation: 2030



X-Energy XE-100 Reactor

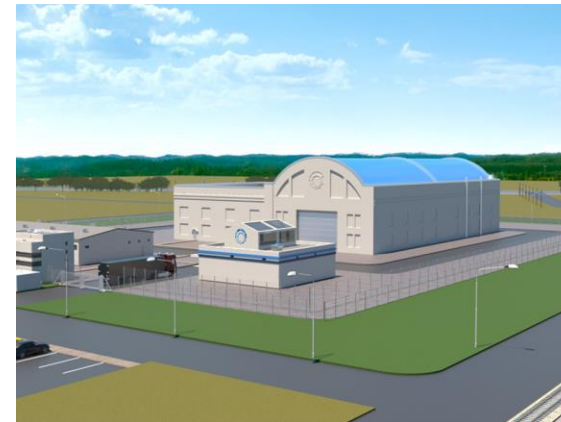
Type: High-temperature gas-cooled reactor using TRISO fuel

Location: Seadrift, TX

Licensing Status:

- March 2025: CPA submittal
- Late 2026: Expected NRC acceptance

Target Operation: Early 2030s



Kairos Hermes Reactor

-- Under Construction --

Type: Advanced molten salt-cooled reactor (demonstration unit)

Location: Oak Ridge, TN

Licensing Status:

- Sept 2021: CPA submittal
- Dec 2023: NRC approval

Target Operation: 2028

Provincially owned



GE Hitachi BWRX-300 Reactor

-- Under Construction --

Type: a light-water, boiling water reactor (4 units)

Location: Darlington, Ontario, Canada

Licensing Status:

- Oct 2022: License submittal
- April 2025: Regulator approval

Target Operation: 2029 (1st unit)

The Potential for Fusion Energy

Commonwealth Fusion Systems (CFS)

- Headquartered in Devens, Massachusetts
- Spun-out of **MIT Plasma Physics Lab in 2018**
- Developing **tokamak based fusion power plant**
- Raised **~\$3B** and **>1000 employees**, the largest private fusion company in the world

SPARC® Fusion Pilot Machine

- Located in Devens, Massachusetts
- Under construction with operations planned in 2027
- 150 MWth (no electricity to be produced)
- 75% complete

The Fall Line Fusion Power Station

- World's 1st commercial fusion power plant
- Located in Chesterfield, VA
- Received its Conditional Use Permit in September 2025
- PJM Grid Interconnection application filed April 2026
- Operation planned for early 2030s
- Net 400 MWe



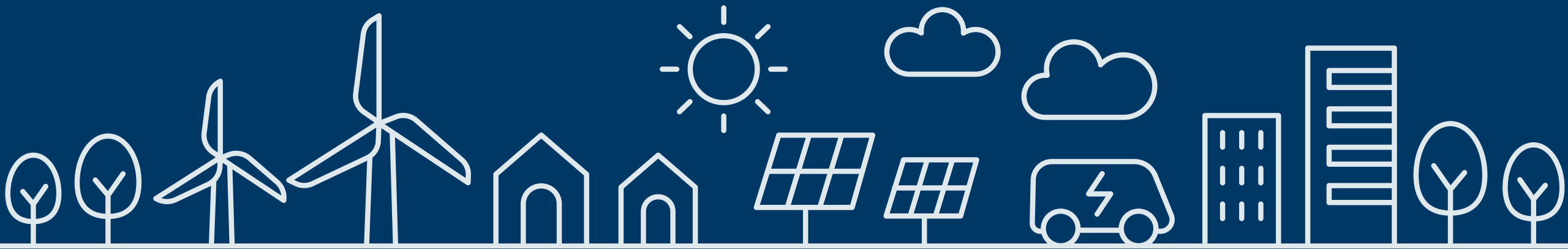
Dominion Energy will lease the site and provide collaborative support for the development of the project.

Although fusion energy is not currently modeled in the IRP, the company is tracking its development as a potential future energy source.



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

DSM Update

June 12, 2026

Residential & Income Qualifying Energy Efficiency Programs

Residential

- Behavioral (Customer Engagement Report)
- Home Energy Audit (Virtual Audit, Home Eval, Smart Homes, Multifamily, Manufactured Housing, Smart Kits)
- Products (ENERGY STAR® Marketplace)
- Residential New Construction

Income and Age Qualifying (IAQ)

- Residential IAQ Bundle
- Residential IAQ Home Energy Report

Non-Residential Energy Efficiency Programs

Products

- Lighting, Prescriptive EE measures

Building Energy Services

- Building Optimization & Automation, Virtual Recommissioning, Strategic Energy Mgt. / Engagement

Non-Residential New Construction

Specialty

- Agriculture, Hotel, Healthcare, Data Centers, Custom, Small Business

Demand Response Programs

Residential

- Peak Time Rebate
- Smart Thermostat

Non-Residential

- Curtailment
- Distributed Generation

Proposed Programs

- EV Managed Charging
- Battery Storage & IAQ Battery Storage Pilots
- Aggregator Res
- Aggregator C&I
- HVAC Thermostat for Small & Mid-sized

DSM Program/Pilot Timeline

Q1-Q2

Q2-Q3

Q3-Q4

Q4

Q1-Q3

Q3-Q1

Year 1: Planning Cycle

Year 2: Proceeding

Years 2 – 3: DSM Roll Out

Ongoing

Generate Ideas

DSM RFP

Program Evaluation and Modeling

SCC DSM Filing

SCC Proceeding

Approved Programs Roll Out

Evaluation Measurement & Verification (EM&V)

Key Legend:

Q1 (First Quarter): January, February, March

Q2 (Second Quarter): April, May, June

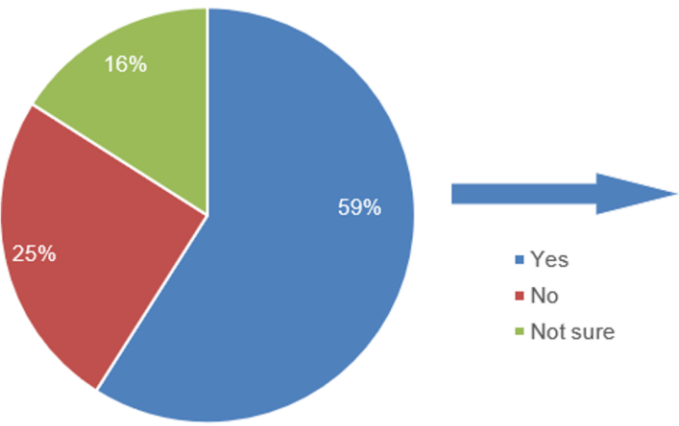
Q3 (Third Quarter): July, August, September

Q4 (Fourth Quarter): October, November, December

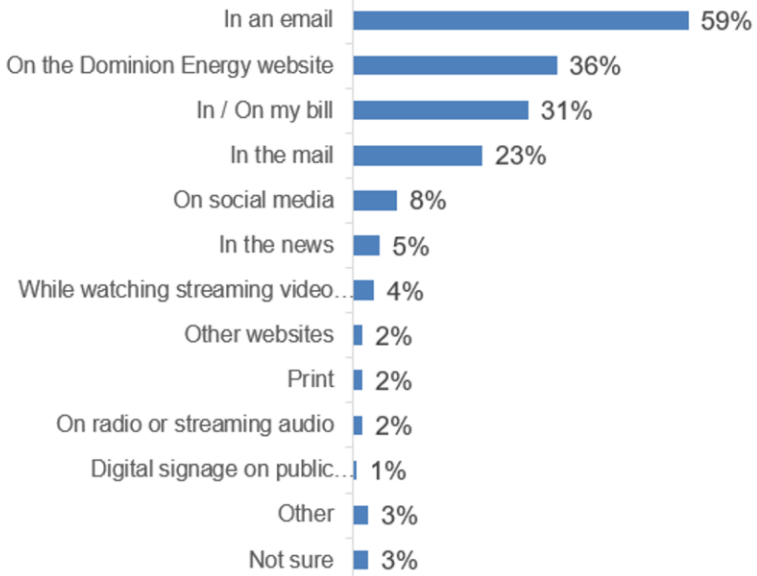
Increasing Customer Awareness

59% of customers are aware Dominion Energy offers energy conservation programs

Over the past year, have you seen or heard any communications or advertisements about Dominion Energy programs or rebates that help customers reduce their energy use and save money on their energy bills?



Where did you see such communications or advertisements about Dominion Energy programs or rebates?



Note: Multiple responses allowed

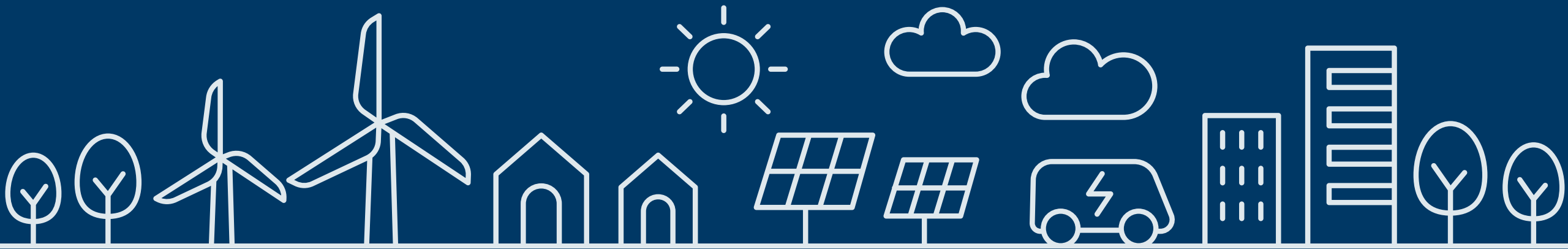
Source: Dominion Energy Voice of the Customer Survey 2025





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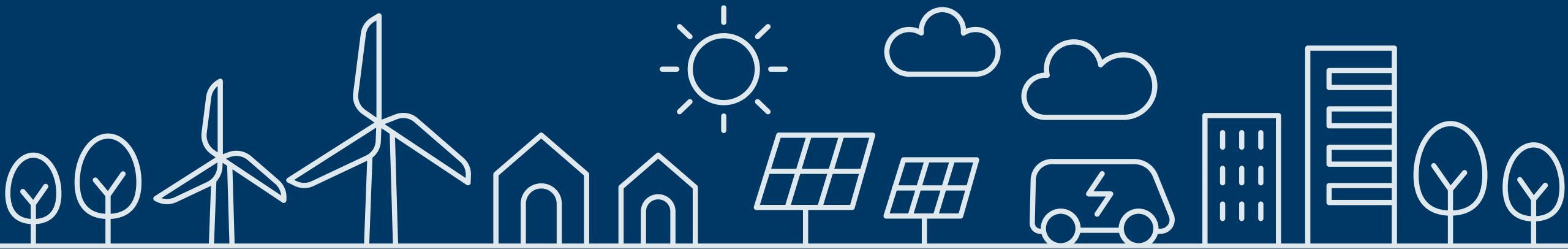
Questions?





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Discussion and Next Steps



Engagement Schedule

Date	Event	Format	Topic
March	Topics of Interest Scoping Survey	N/A	Stakeholder feedback on IRP outcomes and engagement process outcomes
April 17	Kickoff Webinar	Virtual	Introductions and scoping survey review
April 29	Modeling Meeting 1	Virtual	Modeling process and timeline, load forecasting
May 8	IRP Conference 1	Hybrid	Understanding cost and affordability drivers
May 27	Modeling Meeting 2	Virtual	Transmission & distribution considerations
June 12	IRP Conference 2	Hybrid	Energy and capacity resources
June 26	Modeling Meeting 3	Virtual	Energy and capacity resources, discussion of Stakeholder Input Case survey
TBD	Stakeholder Input Case Survey	N/A	Survey to inform the 2026 Stakeholder Input Case
August 14	Survey and Modeling Results Meeting	Virtual	Overview of stakeholder input survey results
October 22	IRP Post-Filing Meeting	Virtual	Overview of filed IRP



Wrap-Up and Next Steps

- Questions about the stakeholder engagement process? Contact DEVIRP2026@gpisd.net.
- Other questions can be submitted via the contact form on Dominion Energy’s website: <https://devirp.dominionenergy.com/stakeholder-questions-and-answers>.
- **Modeling Meeting 3: Friday, June 26, 10 am - 12 pm ET**
- **2026 Stakeholder Input Case Survey: July (TBD)**
- **Overview of Stakeholder Input Case Survey Results: Friday, August 14**

Stakeholder Process Information Meetings & Materials Stakeholder Q&A [Submit Feedback](#)

Stakeholder Questions and Answers

Stakeholder Questions and Answers Answers to stakeholder questions regarding Dominion Energy’s Virginia and North Carolina Integrated Resource Plan (IRP) 2026 will be anonymized and added to the list below on an ongoing basis. If substantially similar questions are asked by more than one stakeholder, they will be combined into a single question/answer. Answers to questions may be updated as the stakeholder process progresses.

To submit a question, please use the feedback form [here](#) and check back soon for updates.



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INSTITUTE

Thank you!

devirp2026@gpisd.net

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

