

# Grid Vision Plan

2026

# Our Grid Vision

**Optimizing** the grid we have **today**, and...

**Building** the grid we need for **tomorrow**



**Delivering** affordable, abundant, and reliable power

**Driving** American prosperity and AI leadership



# U.S. Grid Modernization Is an Economic And Security Imperative



Our grid was built in the 1800s and scaled post-WWII ...

- **Electrification began in the late 1800s** as local generation serving local customers
- Early electrification technology **limited long-distance transmission**
- Decentralized system **resulted in ~3,000 locally operating utilities, authorities, and RTOs**



... but it has struggled to evolve ...

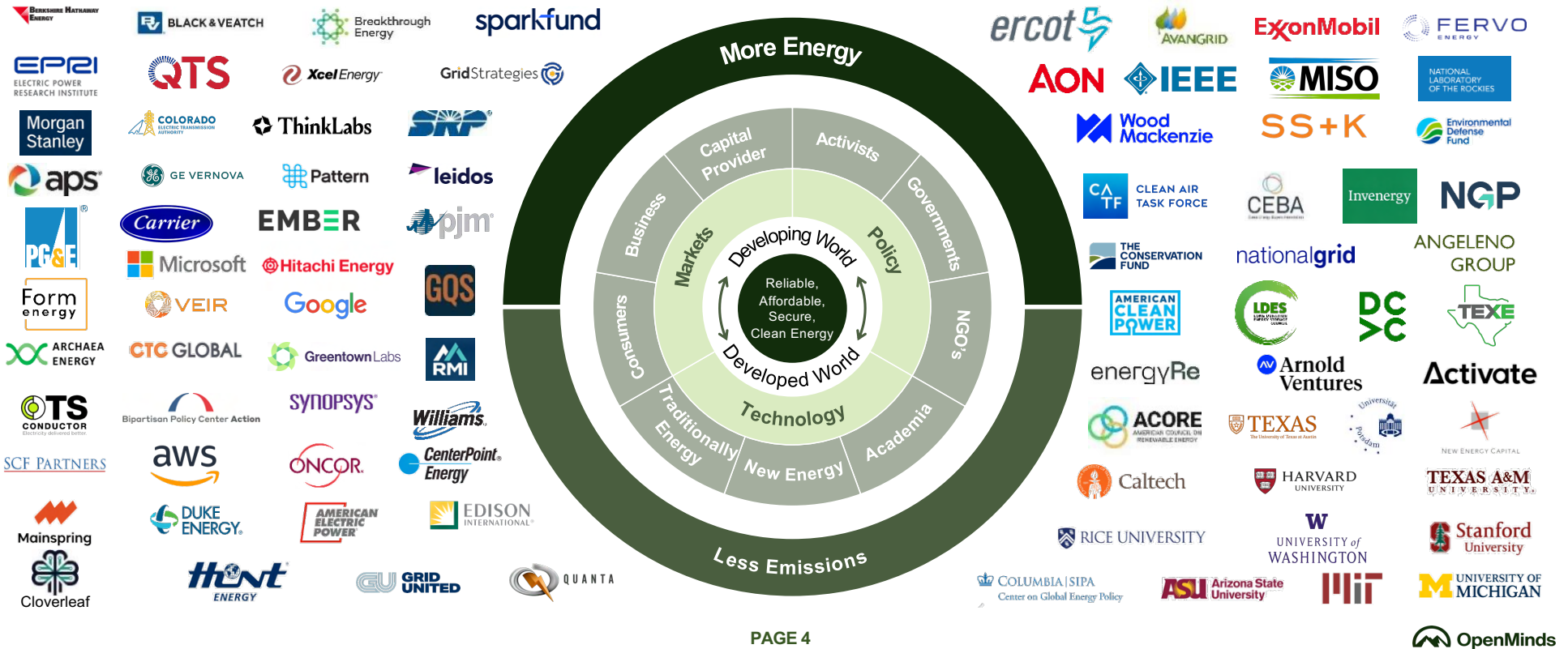
- **Long-distance transmission is now feasible**, but underutilized
- **Lowest-cost renewables are located far** from major demand
- Disconnected regions **increase cost and reduce reliability**
- **Limited incentives** constrain integration and connectivity



... and risks falling further behind

- **Electrification** is driving first sustained demand growth in decades
- **China's interconnected grid** shows the world that fast transmission build is possible
- **A connected, modern grid is needed to improve reliability, scalability,** and lower electricity prices

# OpenMinds Is Mobilizing Our Network to Solve Our Grid Challenge





# Our Grid Vision Plan Summary

## The Challenge

- Electricity demand will rise ~40% by 2035, but **today's grid is too outdated and fragmented to deliver optimal results**

## The Vision

- **Interconnected grid** that efficiently meets rapid and changing load growth
- **Reliable power** that withstands extreme weather and tolerates peak stress events
- **Affordable power** that protects ratepayers while investing for the future
- Electron-neutral system that **delivers America's lowest-cost power regardless of energy source**

### ● ————— How We Deliver ————— ●

- Optimize existing infrastructure with ATTs\*
- Demand-side efforts such as distributed generation and storage
- Build more transmission lines both in-region and across regional seams
- Enabled by policy, technology, and market actions

### ● ————— Who Must Act ————— ●






- Policymakers: Reform planning, permitting, and cost allocation
- Utilities & RTOs: Deploy ATTs, expand transmission, and integrate distributed assets
- Markets & Regulators: Align incentives to drive outcomes
- Tech Providers: Innovate to improve tech and showcase value

Note: \*ATT: Advanced transmission technology are technologies that increase the capacity, efficiency, or flexibility of existing transmission infrastructure, including technologies such as advanced reconductoring, dynamic line rating, advanced power flow control, etc.

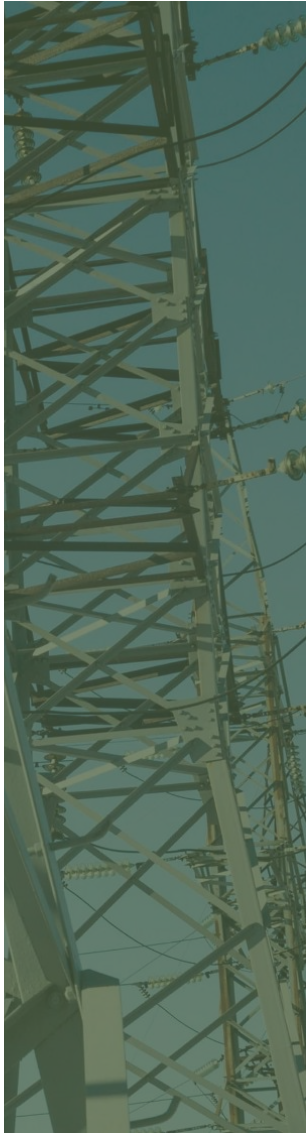


# Delivering Our 800GW Grid Vision with 5 Solutions

Added capacity by 2035 (GW)

		Added capacity by 2035 (GW)
Optimize	 <b>1 Deploy</b> – ATTs to increase transfer capacity on the existing grid	~120-170
	 <b>2 Develop</b> – on-site and local power generation to support load growth	~100-200
	 <b>3 Install</b> – storage and controllable load to shift demand and reduce peak strain	~120-250+
Build	 <b>4 Expand</b> – local transmission to relieve bottlenecks and connect new supply	~200-300
	 <b>5 Connect</b> – links between regional seams to improve reliability and reduce costs	~50-150

**Enablers:** Policy reform, technology acceleration, and market alignment are critical to building the future grid



## Grid Vision Context

- **Challenge** — How will the U.S. **meet rapid load growth affordably and reliably** to secure American future economic and geopolitical leadership?
- **Vision** — This document outlines a **shared vision to strengthen and expand America's grid** to support future economic growth, security, and innovation
- **Plan** — It presents a **practical and actionable plan** to improve grid connectivity, reliability, affordability, and national security, **fast**
- **Action** — It highlights critical bottlenecks and **how OpenMinds' network is mobilizing six specific projects** to accelerate grid transformation

# Glossary of Terms

Acronym	Meaning	Definition
<b>ATT</b>	Advanced transmission technology	Technologies that increase the capacity, efficiency, or reliability of electric transmission infrastructure
<b>APFC</b>	Advanced power flow control	Systems that actively manage and optimize the direction and magnitude of electricity flows on the grid
<b>AR</b>	Advanced reconductoring	Replacing existing transmission lines with higher-capacity conductors to increase power transfer without rebuilding structures
<b>BTM</b>	Behind-the-meter	Energy resources installed on the customer side of the electric meter, serving on-site load
<b>DER</b>	Distributed energy resources	Small-scale energy generation that can provide an alternative to large-scale generation, such as rooftop solar or batteries
<b>DLR</b>	Dynamic line rating	Method of adjusting transmission line capacity in real time based on weather and operating conditions
<b>DR</b>	Demand response	Programs that incentivize electricity consumers to reduce or shift usage during periods of high demand
<b>FERC</b>	Federal Energy Regulatory Commission	The U.S. federal agency that regulates interstate electricity transmission and wholesale power markets
<b>FTM</b>	Front-of-the-meter	Energy resources connected on the utility side of the electric meter, typically participating directly in wholesale markets
<b>HVDC</b>	High-voltage direct current	Transmission technology that uses direct current to efficiently move large amounts of electricity over long distances
<b>GET</b>	Grid enhancing technology	Technologies that improve the efficiency, flexibility, and capacity of the existing power grid without major new construction
<b>GW</b>	Gigawatt	Unit of power equal to one billion watts, commonly used to measure electricity generation or transmission capacity
<b>IPP</b>	Independent Power Producer	Privately owned entity that generates electricity for sale into wholesale power markets
<b>NERC</b>	North American Electric Reliability Corporation	Nonprofit organization responsible for developing and enforcing reliability standards for bulk power in North America
<b>NEPA</b>	National Environmental Policy Act	U.S. federal law requiring environmental review of major federal action that may significantly affect the environment
<b>RTO</b>	Regional transmission organization	An independent entity that operates and manages the electric grid and wholesale markets across multiple states
<b>Tx</b>	Transmission	High-voltage movement of electricity from generation sources to local distribution systems
<b>VPP</b>	Virtual power plant	Coordinated network of DERs that operates as a single power plant to supply or balance electricity on the grid



**1**

**U.S. Grid  
Challenges**

**2**

**The Grid  
Vision**

**3**

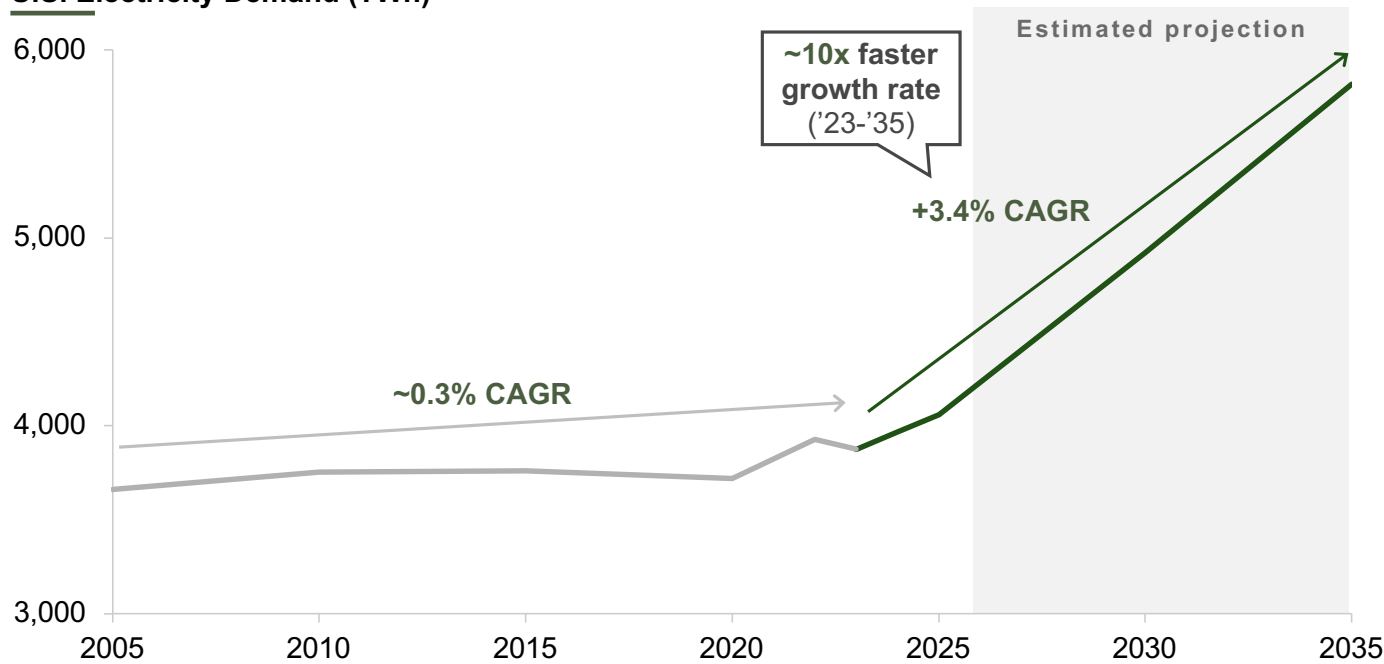
**Delivering The  
Vision**

**4**

**GV Impact  
Projects**

# Electricity Demand Growth Rate Is Up 10X!

**U.S. Electricity Demand (TWh)**



Note: Due to rapidly growing electricity demand (TWh), the grid will need 800GW of additional installed capacity to meet 2035 peak demand using a mix of power sources with varying capacity factors; Estimates for quantity of generation needed by power source use EIA's 2024 average capacity factors for nuclear (92.3%), combined-cycle natural gas (59.9%), and solar (23.4%)  
 Source: EIA Monthly Energy Review data, OpenMinds P50 model, DOE, EIA, SEIA

This is the equivalent of:



**220**

1 GW nuclear reactors

Or...



**430**

800 MW natural gas plants

Or...



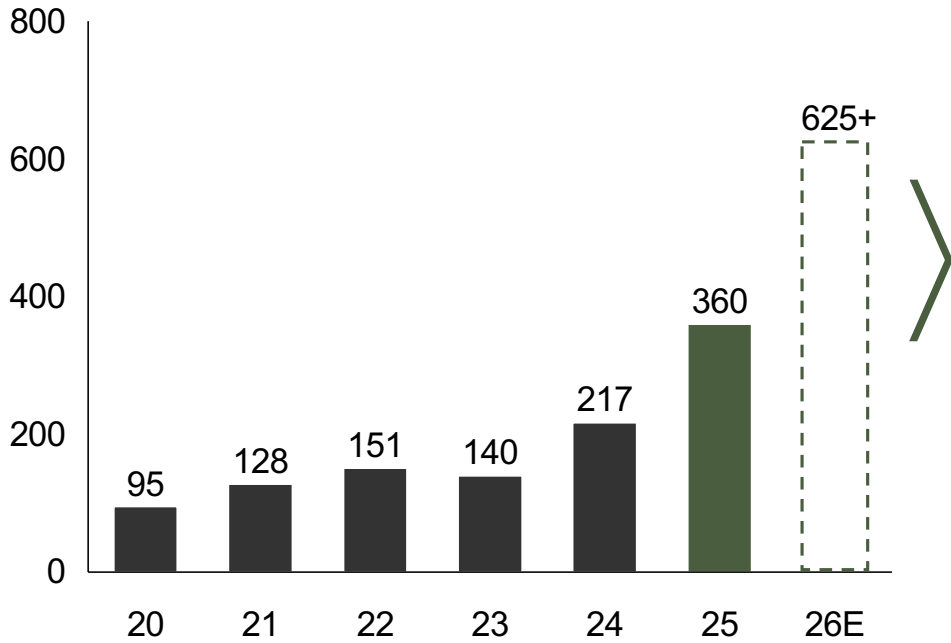
**9000**

100 MW solar farms

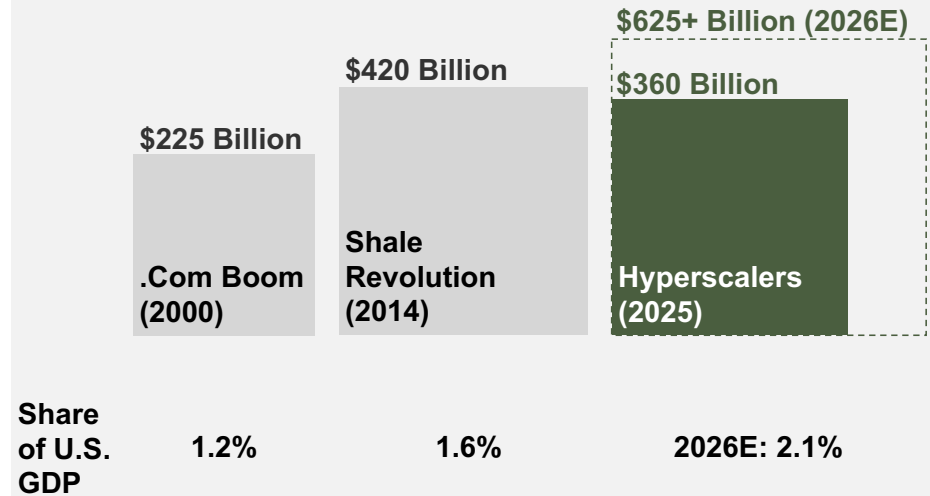
The grid uses diverse fuel resources – it doesn't care where electrons come from

# AI Is Projected to Drive the Largest CapEx Boom This Millennium

**Hyperscaler CapEx Commitments (\$bn, U.S.)**



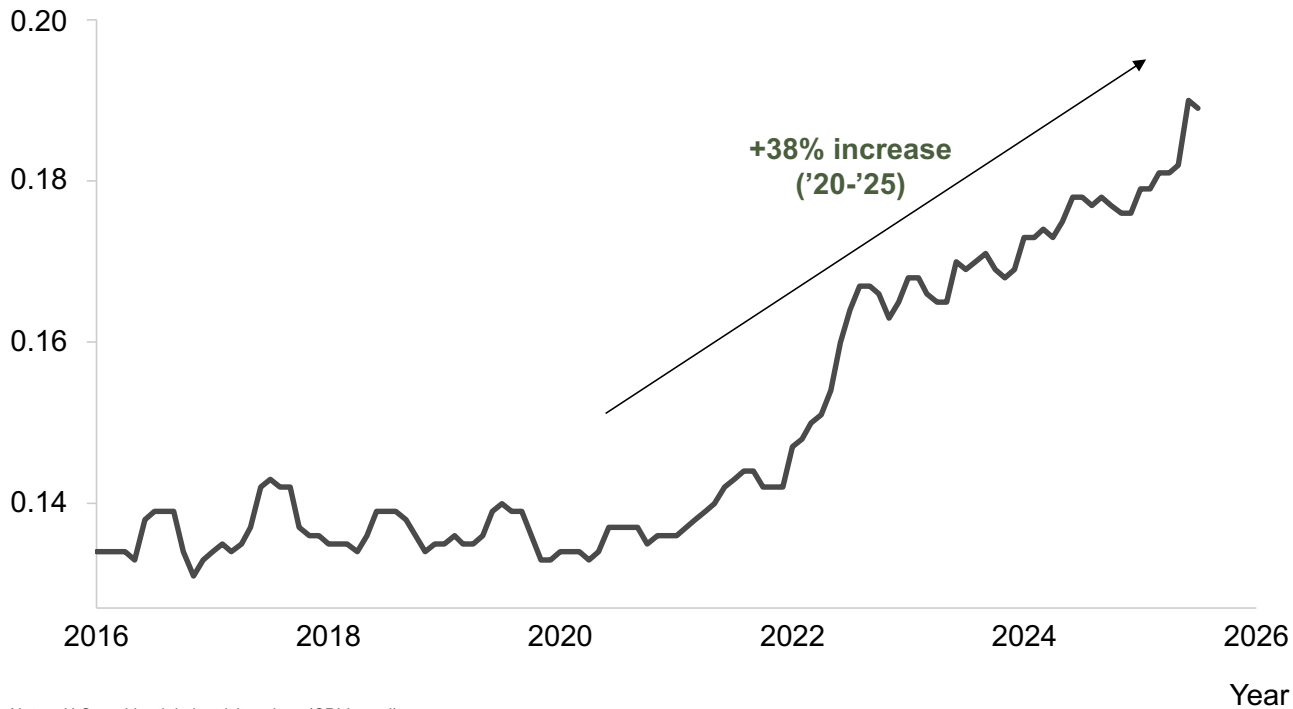
**12-Month CapEx, Peak Or Current Year (2025\$)**



Note: Hyperscalers includes Alphabet, Meta, Amazon, and Microsoft; the .Com Boom capex figure encompasses capex from listed telecoms, and the Shale Revolution figure encompasses NA onshore E&P, 12-month capex numbers are adjusted for inflation as of 2025  
 Sources: Individual company financial disclosures; Goldman Sachs, S&P Global, FRBSF, Federal Reserve Bank of Richmond; Halcyon, Futurum, Federal Reserve Bank of St. Louis

# U.S. Electricity Prices Are Rising Steeply

U.S. Cities Average Electricity Price (US\$/KWh)



Notes: U.S. residential electricity prices (CPI-based)  
Source: [Federal Reserve Bank of St. Louis](#)

## Key Drivers



Upgrading aging and building new infrastructure



Rising inflation exacerbated by supply chain constraints



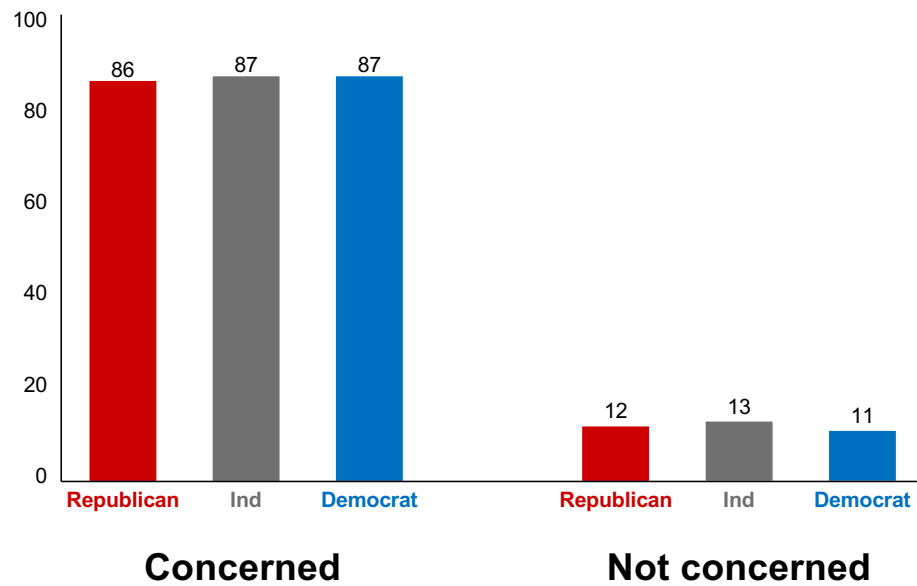
Extreme weather impacts



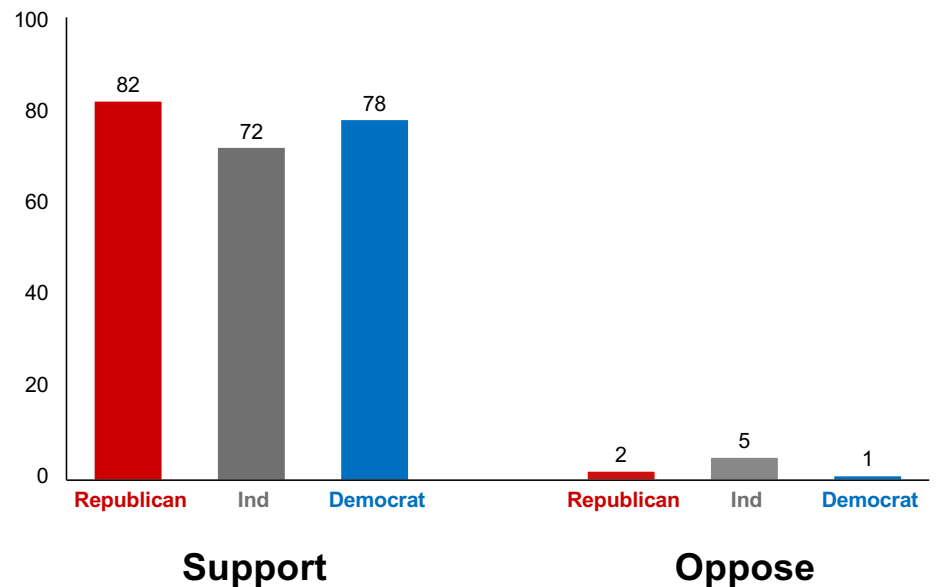
Rapidly increasing demand

# Americans Are Concerned about Costs & Support Grid Investment

How concerned are you about the affordability of your utility bills and rising energy costs? (%)



Do you support making investments in America's "electricity transmission grid" to improve reliability, reduce costs, unlock economic growth in communities, and meet power needs? (%)

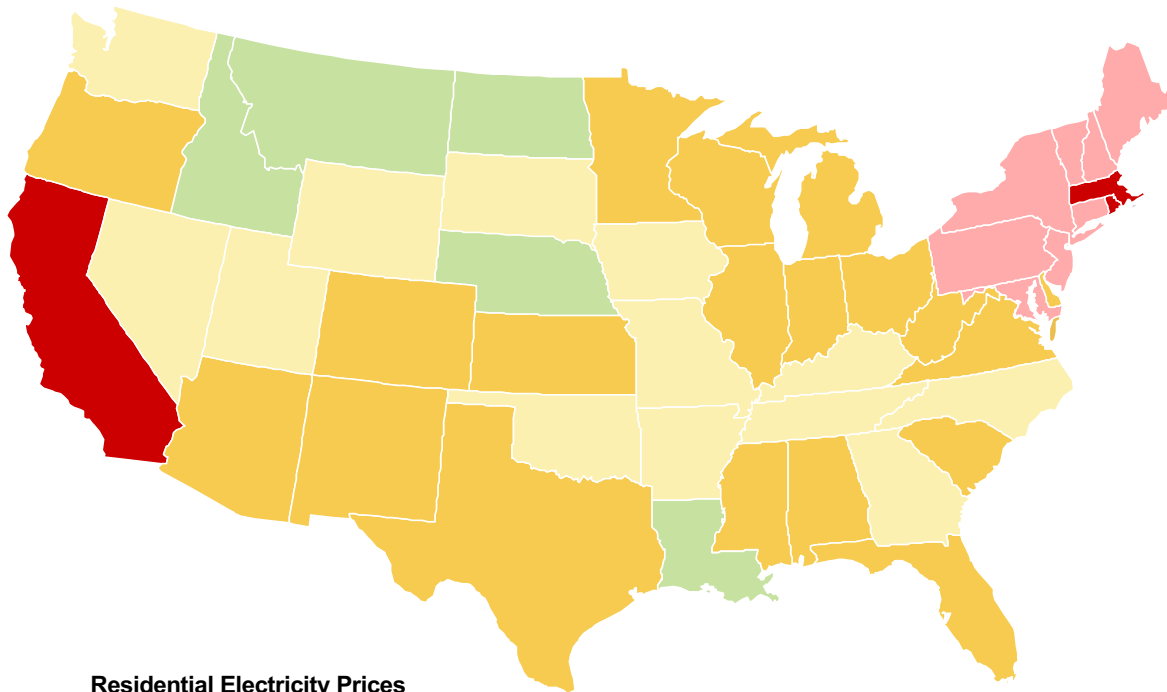


Source: Cygnal, August 2025: Survey of likely general election voters in MISO & PJM regions



# Our Outdated, Fractured Grid Is Straining Ratepayers

Residential electricity prices ( $\phi$ /kWh)



Residential Electricity Prices  
(Nov '25,  $\phi$ /kWh)

Least (<12 $\phi$ )  Most (>30 $\phi$ )

## Drivers of higher electricity prices



Surging demand

Fuel cost volatility



Extreme weather



Supply chain constraints



Tariffs on raw materials

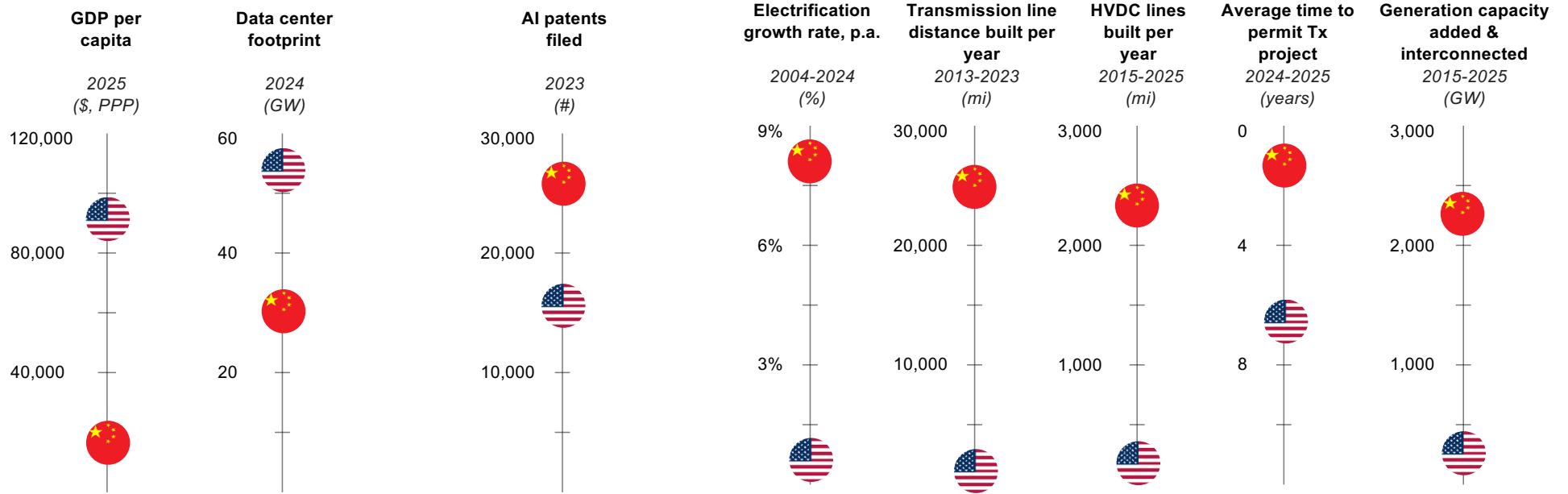


# But China Is Playing to Win And Is Betting on Modern Electrification

The U.S. has a stronger competitive position

But China is gaining ground...

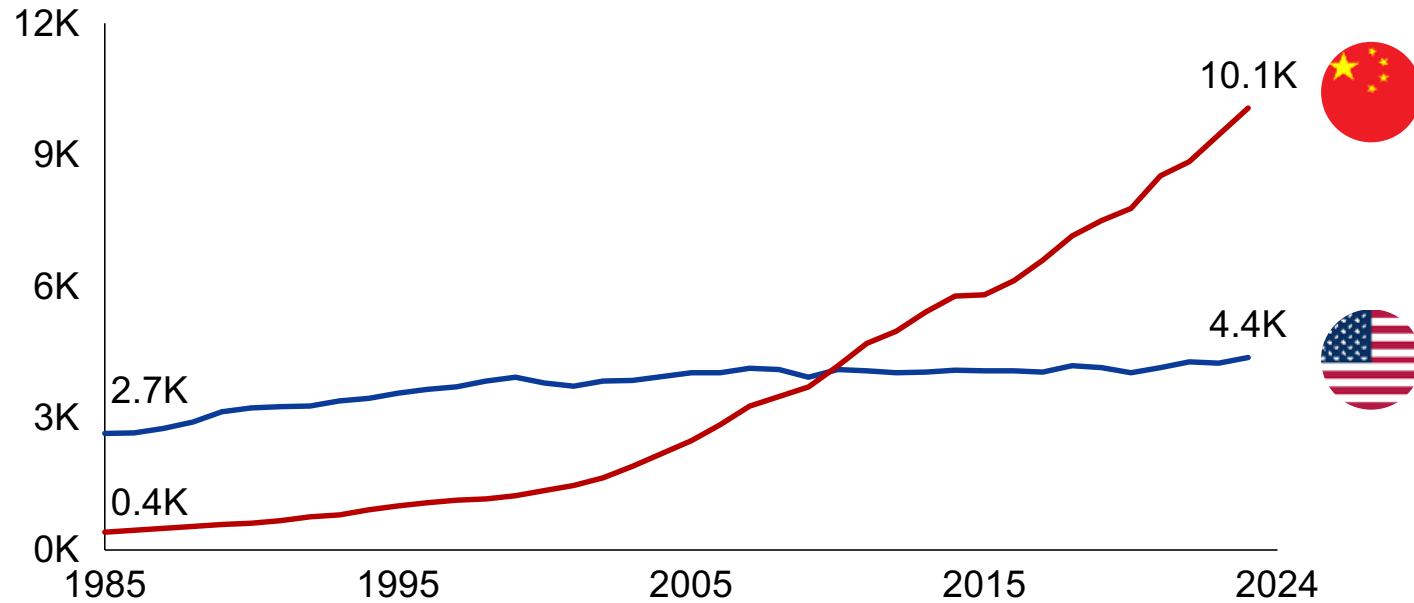
...and is materially accelerating affordable electricity as the backbone for future growth



Notes: Charts show the top 8 countries per category; the unlabeled top slice is the smallest of those eight and not the rest of the world:  
Sources: Crunchbase, CB Insights, BP, Global Data, Dealogic, EFAMA, BIS, World Bank, [FERC](#), [NLR](#), [DOE](#);

# China Is Electrifying Quickly

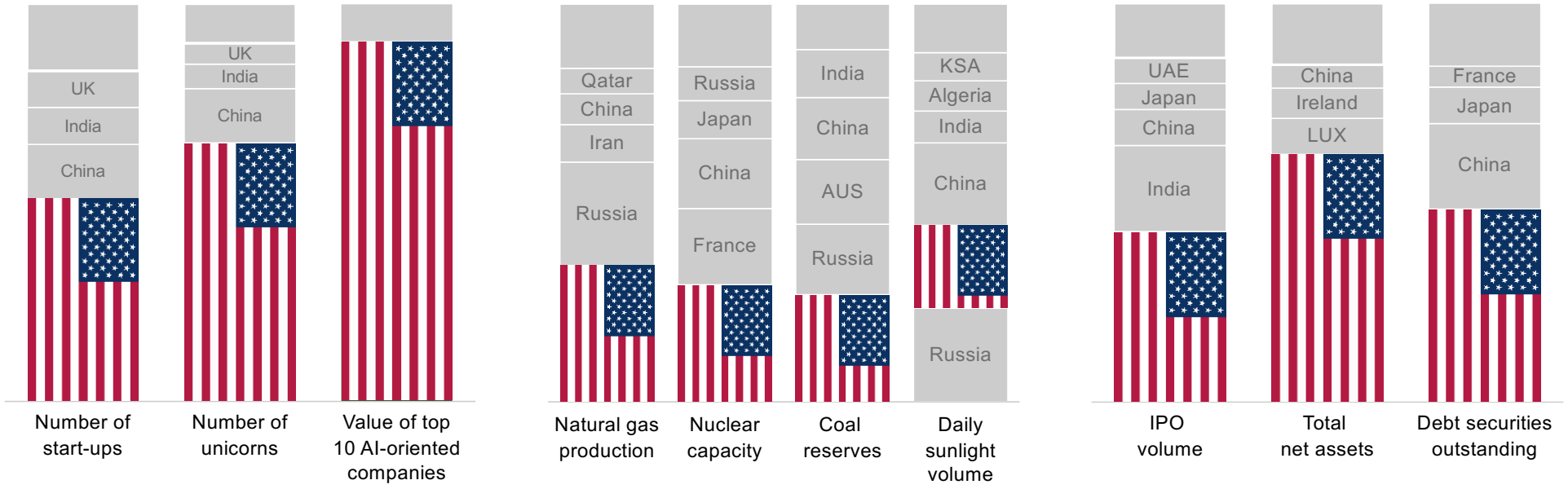
China vs U.S. Electricity Generation (TWh), 1985-2024



CAGR ('00-'24)	
China	8.7%
U.S.	0.6%

Since 2000, China's growth rate has exceeded the U.S. by ~15x annually

# But the U.S. Has What It Takes to Win

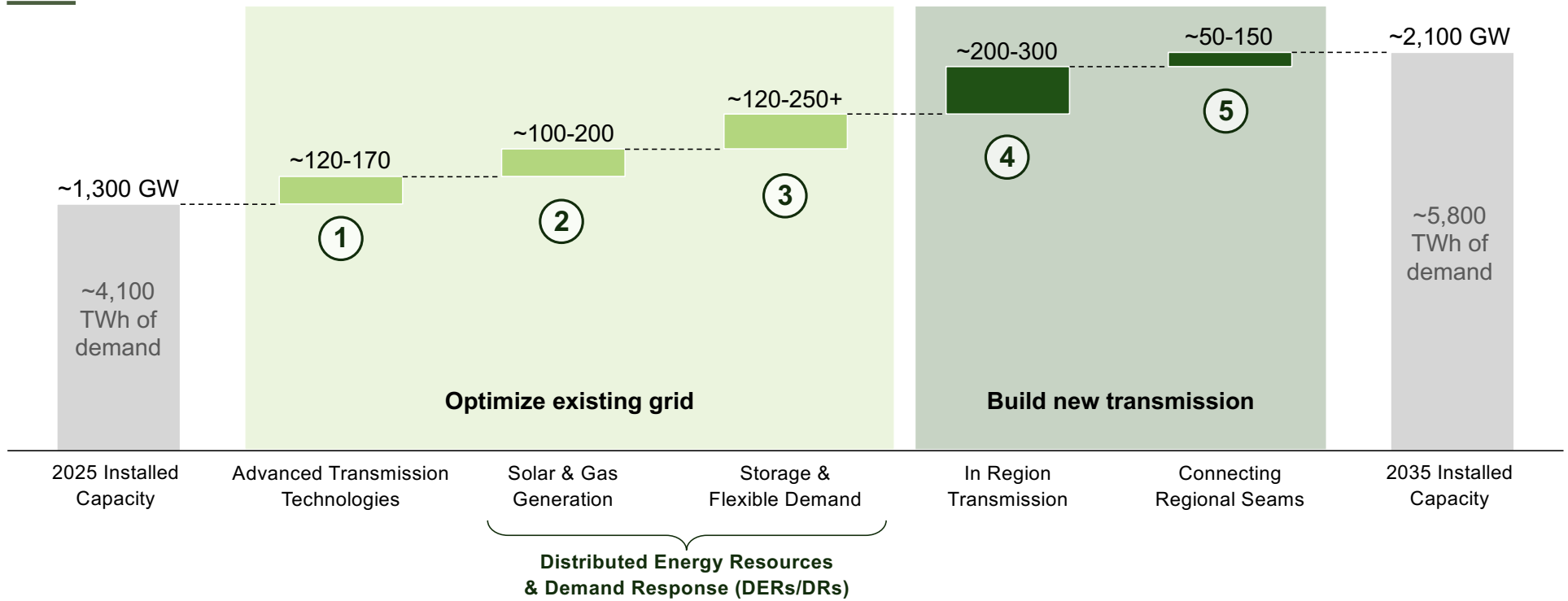


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 Sources: Crunchbase, CB Insights, BP, Global Data, Dealogic, EFAMA, BIS, World Bank

# The Right Types of Investment Can Unlock 800+ GW by 2035

## Required Additional Installed Capacity, 2025-2035 (GW)

/ DIRECTIONAL



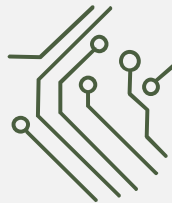
# Key Challenges Facing the U.S. Grid



**Accelerating  
Demand Growth**



**Amplifying grid  
congestion**



**Outdated  
Technology**



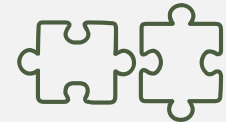
**Limiting line  
efficiency**



**Aging / Inadequate  
Infrastructure**



**Increasing  
reliability risks**



**Lack of Grid  
Connectivity**



**Inhibiting access  
to lower cost**



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U.S. Grid  
Challenges

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**The Grid  
Vision**

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Delivering The  
Vision

4

GV Impact  
Projects

# The Grid Must Fundamentally Change over the Next 10 Years

The U.S. grid must meet future load growth while delivering affordable energy to ratepayers

The 2035 grid must be...



Connected



Flexible



Reliable



Scalable

Change will be driven by...



Policy



Technology



Markets

# Core Beliefs for the 2035 U.S. Grid

## Cost allocation must be fair

Ratepayers should not bear disproportionate costs from hyperscaler-driven load expansion

## The grid must be bi-directional

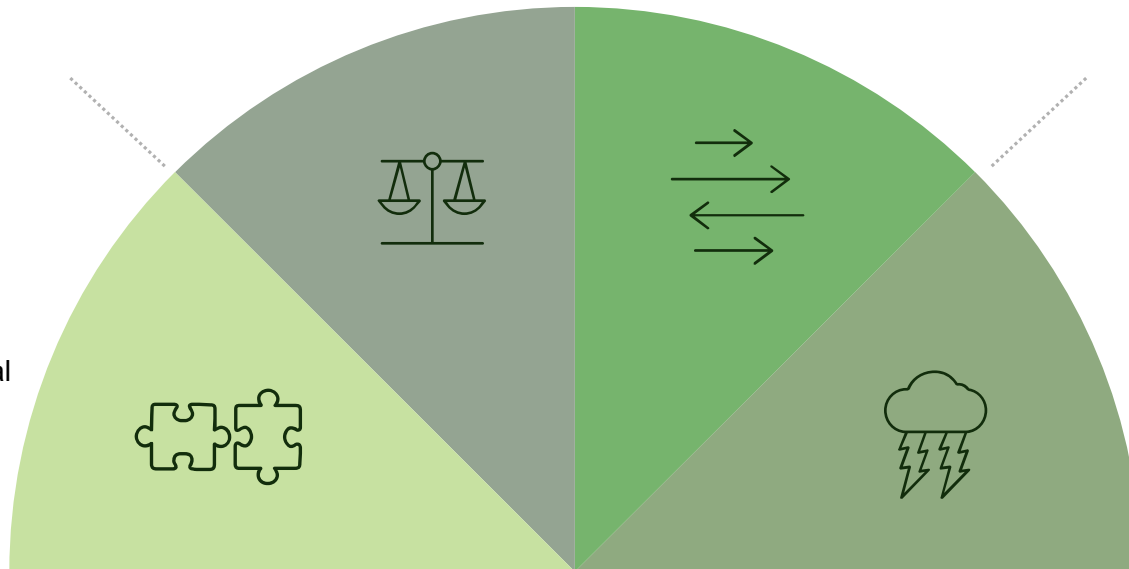
Planning must integrate distributed resources, enabling two-way power flows and real-time flexibility

## The grid must be better connected

More inter- and intra- regional connections will move power efficiently, regardless of source, lowering congestion and prices

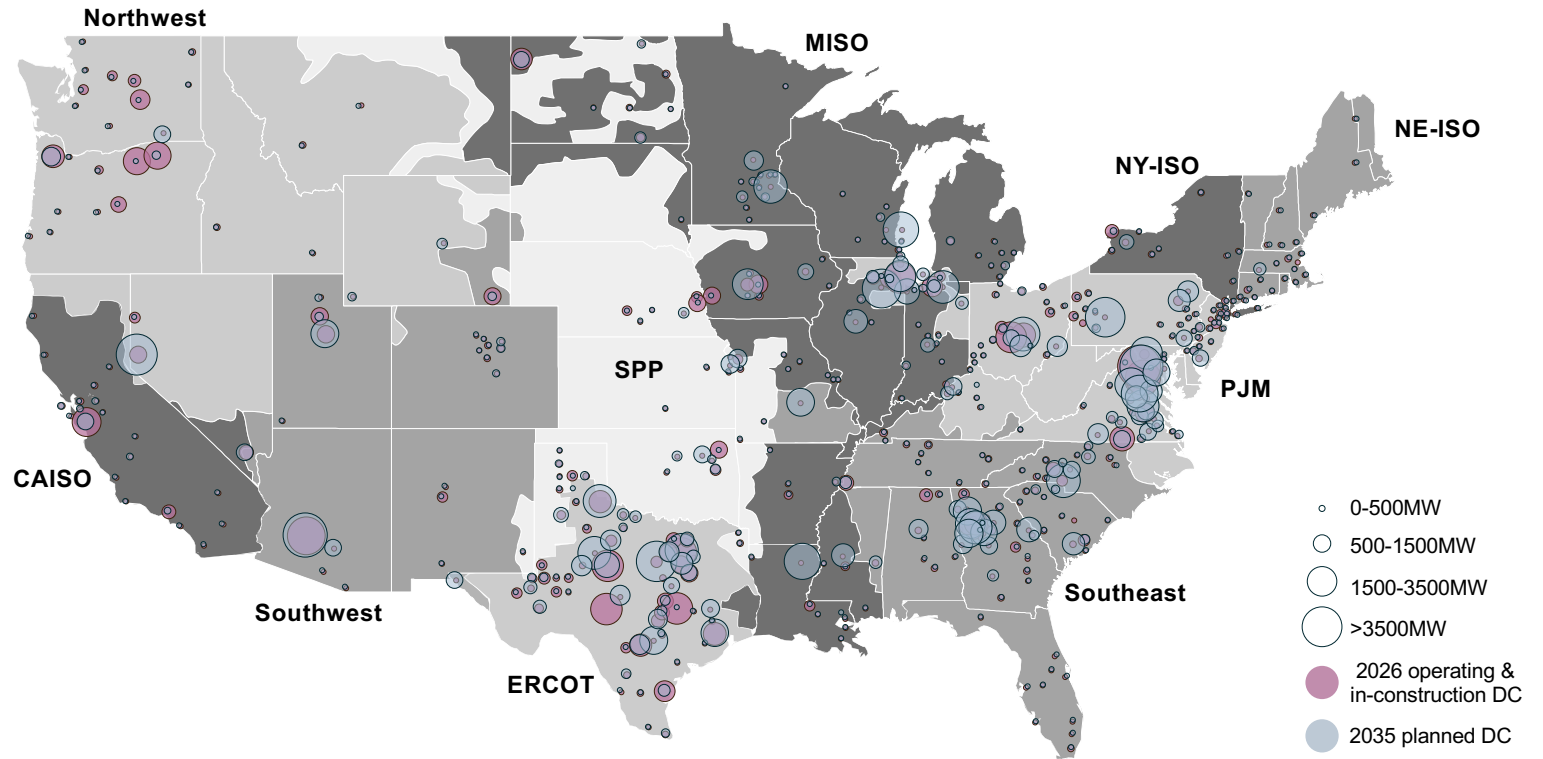
## Reliability is non-negotiable

System planning must prioritize resilience and firm capacity to withstand extreme weather, rapid load growth, and operational uncertainty





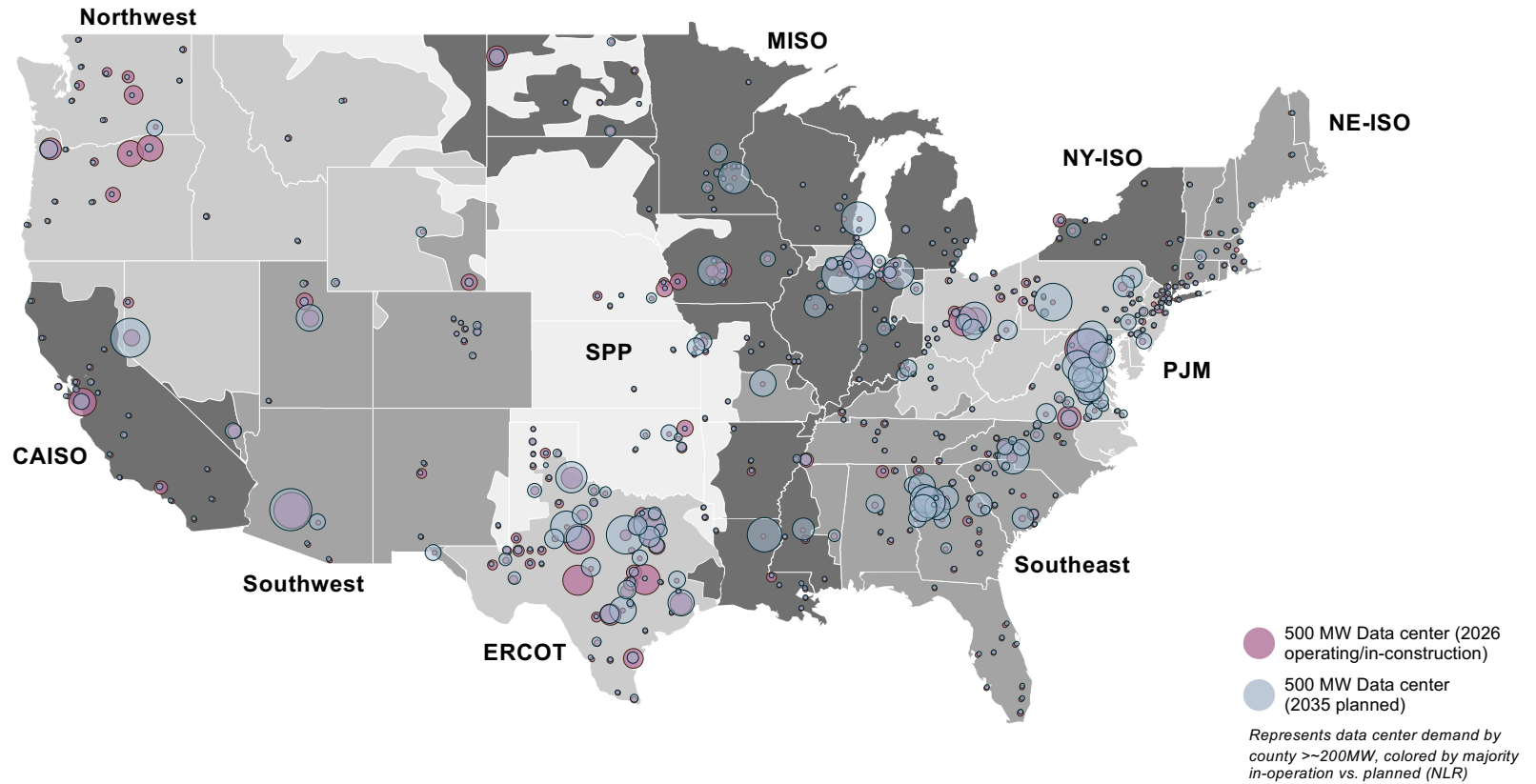
# New Data Centers



Source: US Department of Energy  
<https://openminds203x.org/>



# GV Plan: Data Centers Are Driving Power Demand



Source: NLR

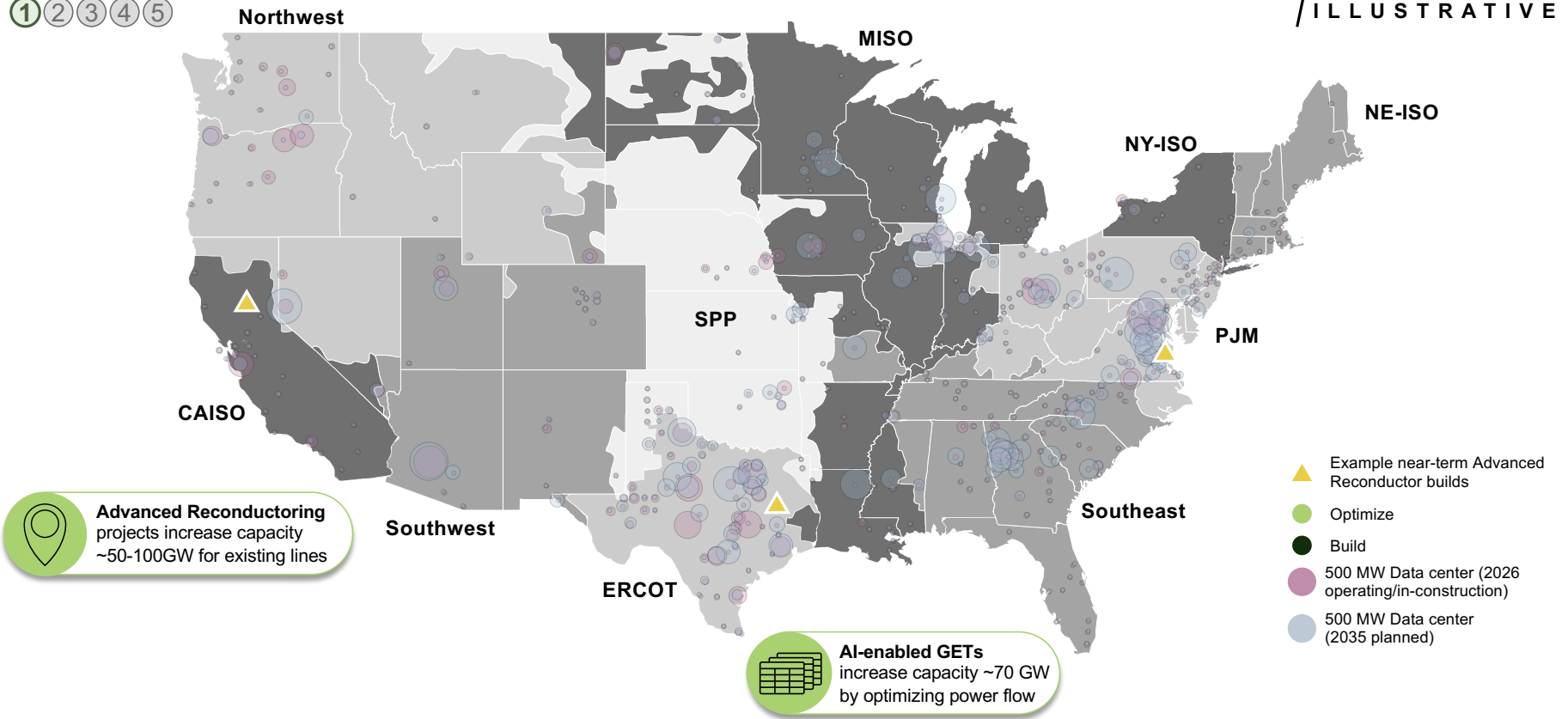
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# GV Plan – Solution 1: Deploy ATTs at Scale

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/ ILLUSTRATIVE



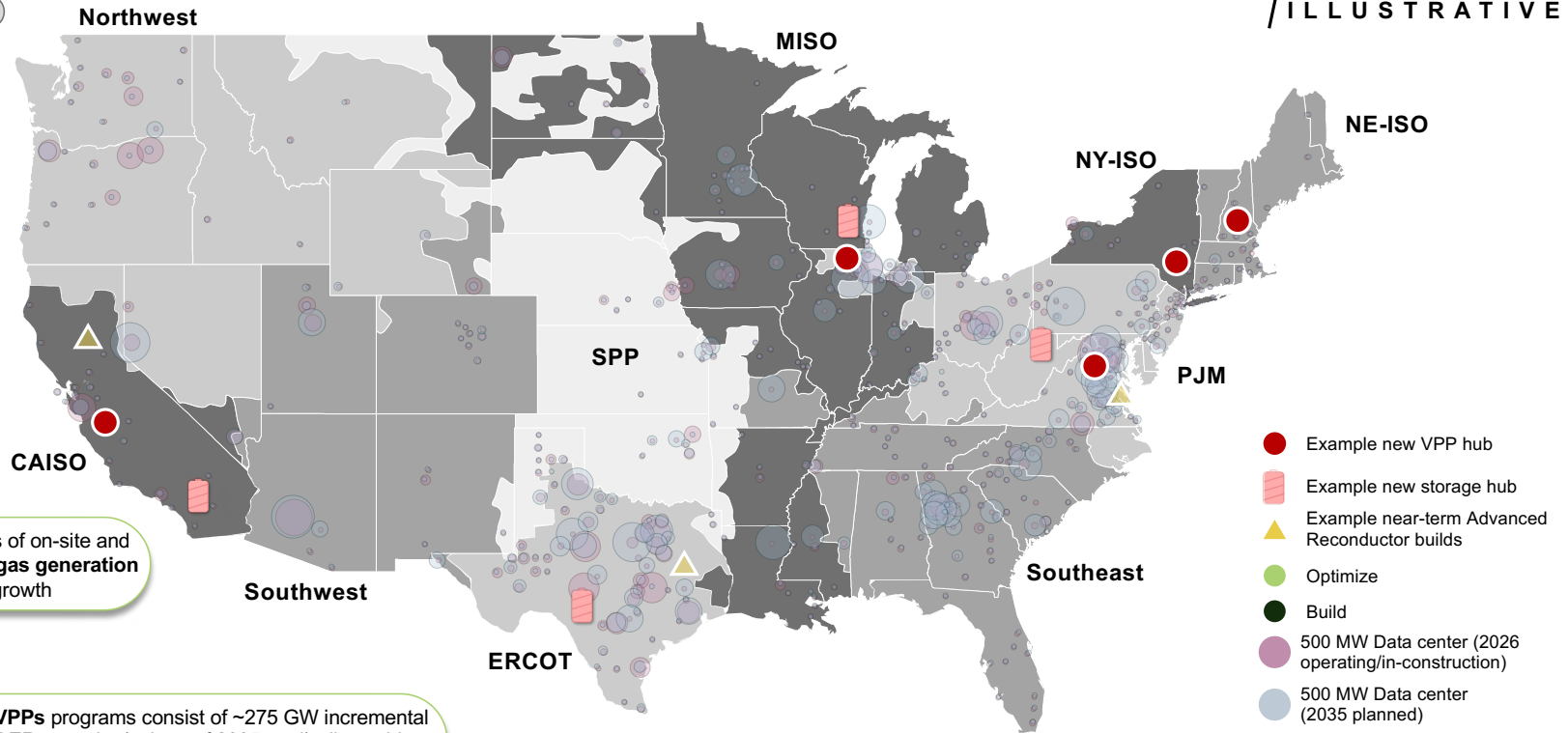
Source: NLR

<https://openminds203x.org/>

# GV Plan – Solutions 2&3: Scale Distributed Energy Resources

①②③④⑤

/ ILLUSTRATIVE



Up to ~200 GWs of on-site and local **solar and gas generation** to support load growth

VPPs programs consist of ~275 GW incremental DER capacity (subset of 2035 total), dispatching distributed resources to reduce congestion

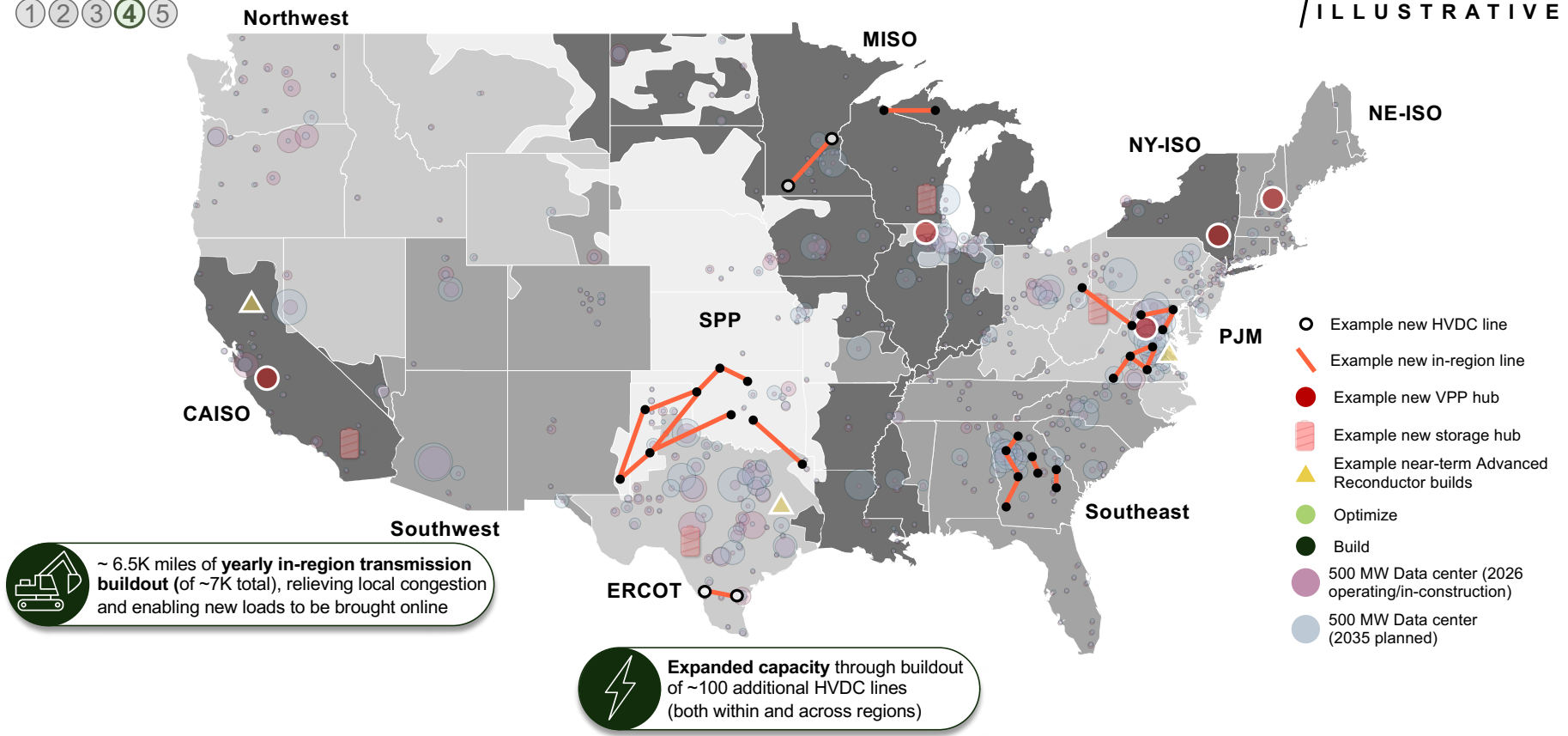
Up to ~250+ GWs of **storage and flexible demand** shaving peak load and supporting reliability



# GV Plan – Solution 4: Expand In-Region Transmission Rapidly

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/ ILLUSTRATIVE

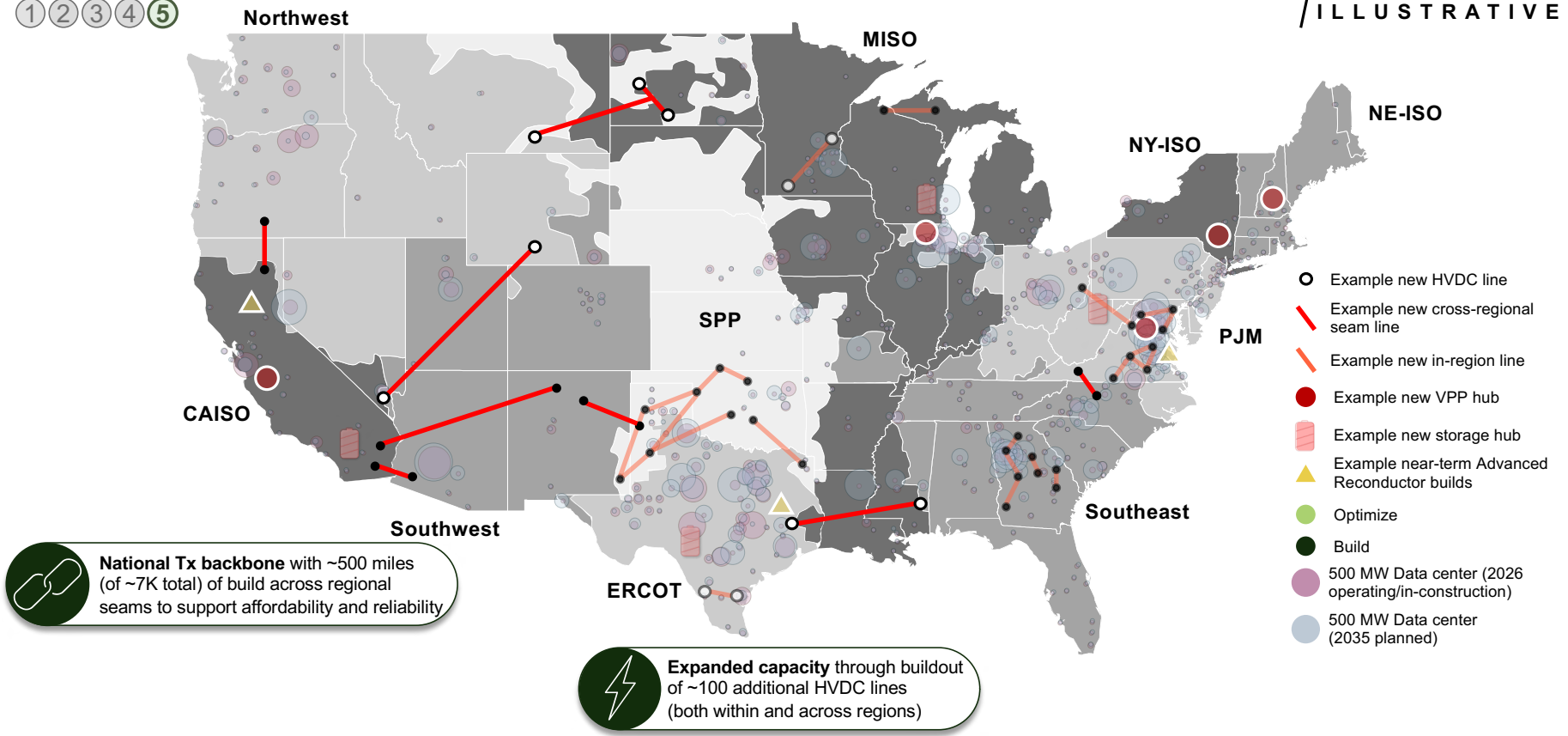




# GV Plan – Solution 5: Connect Regional Seams

①②③④⑤

/ ILLUSTRATIVE



# Grid Vision 2035: Connected, Flexible, Reliable, And Scalable

①②③④⑤

Northwest



VPPs programs consist of ~275 GW incremental DER capacity (subset of 2035 total), dispatching distributed resources to reduce congestion



AI-enabled GETs increase capacity ~70 GW by optimizing power flow

NE-ISO

NY-ISO



Expanded capacity through buildout of ~100 additional HVDC lines

- Example new HVDC line
- Example new cross-regional seam line
- Example new in-region line
- Example new VPP hub
- Example new storage hub
- ▲ Example near-term Advanced Reconductor builds
- Optimize
- Build
- 500 MW Data center (2026 operating/in-construction)
- 500 MW Data center (2035 planned)



~ 6.5K miles of yearly in-region transmission buildout (of ~7K total), relieving local congestion and enabling new loads to be brought online



Advanced Reconductoring projects increase capacity ~50-100GW for existing lines



National Tx backbone with ~500 miles (of ~7K total) of yearly lines across regional seams to support affordability and reliability

CAISO

SPP

PJM

Southwest

Southeast

ERCOT



Up to ~200 GWs of on-site and local solar and gas generation to support load growth



Up to ~250+ GWs of storage and flexible demand shaving peak load and supporting reliability

## Key enablers:

### POLICY

Coordinated national and local policy that establishes cost allocation frameworks, planning authority, and permitting certainty

### TECHNOLOGY

AI-enabled planning and harmonized grid data standards to reduce lead times, optimize power flows, and improve forecasts

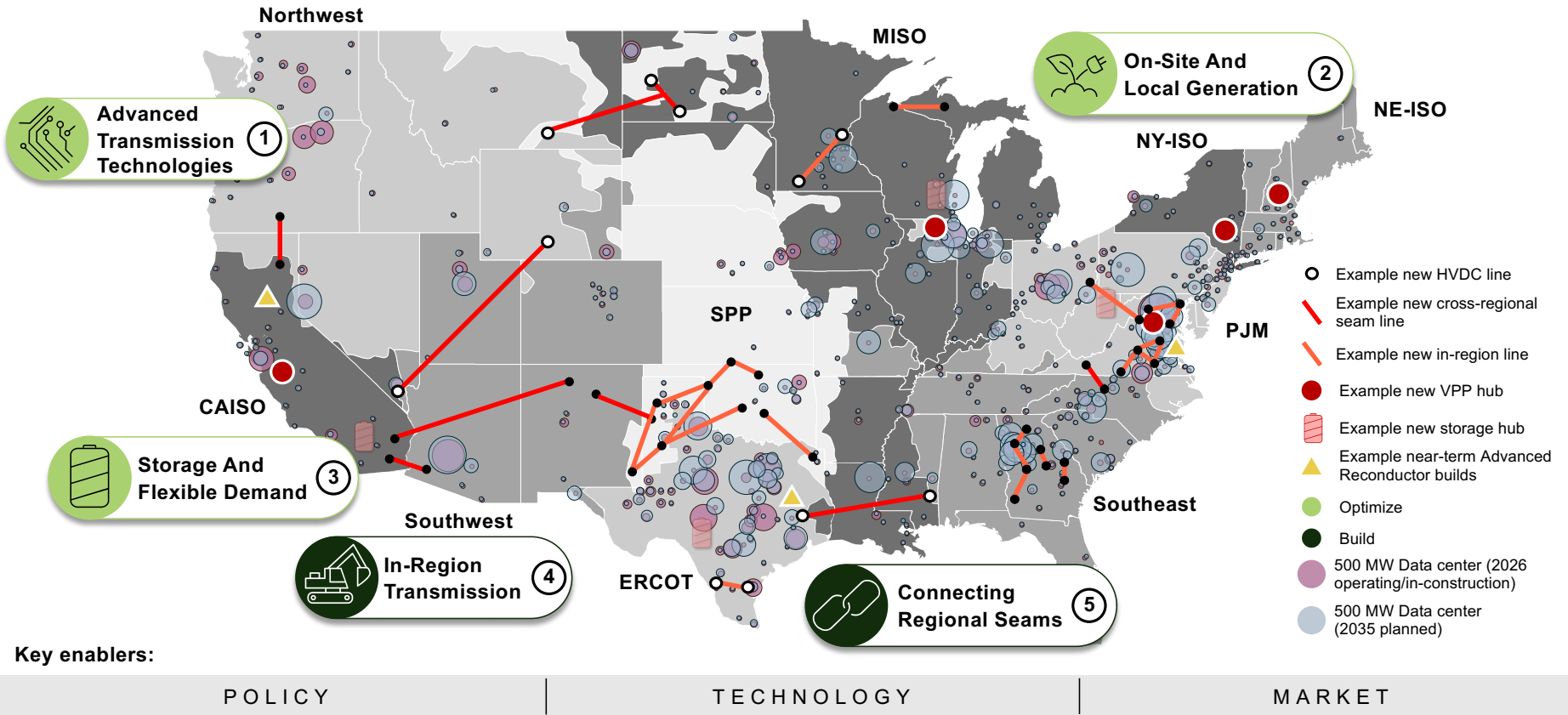
### MARKET

Outcome-based rate recovery congestion-driven price signals that direct capital toward high value grid upgrades

Source: NLR

<https://openminds203x.org/>

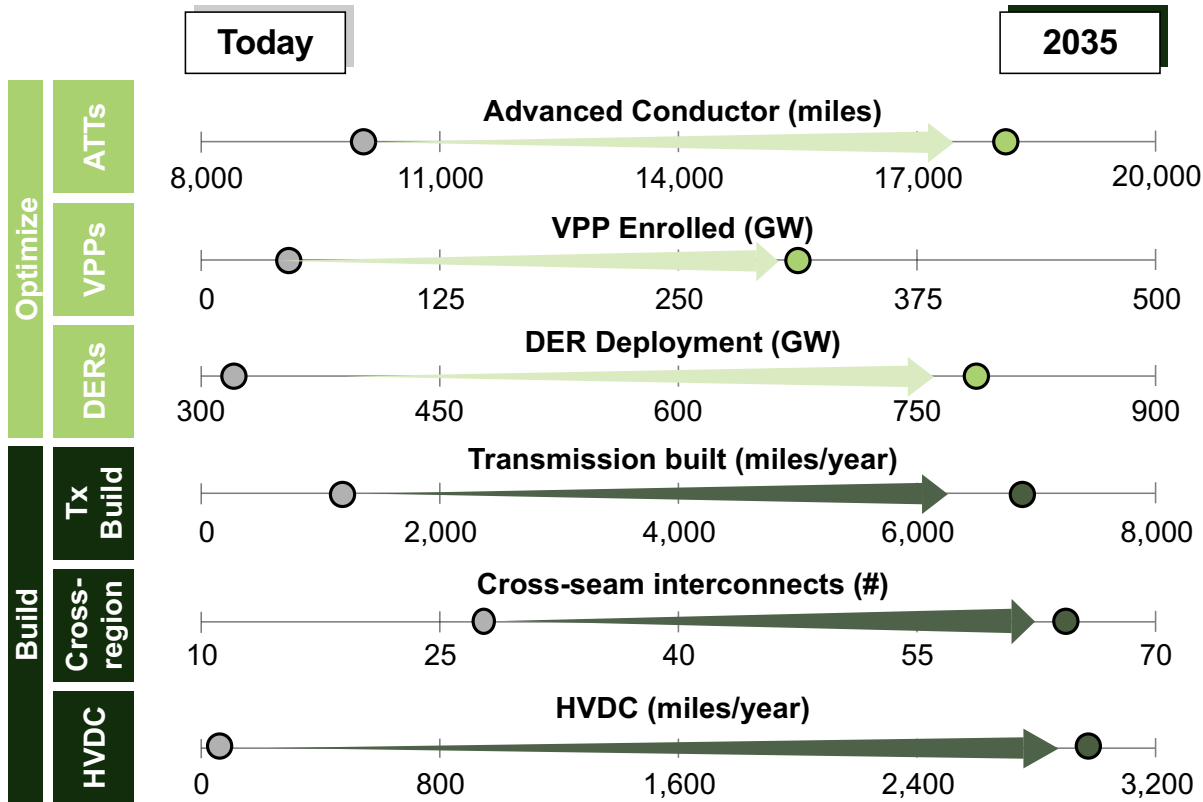
# The GV Plan Needs All Five Solutions to Meet 2035 Demand...



Source: NLR

<https://openminds203x.org/>

# Grid Imperatives by 2035



## Key outcomes

~8k mi of state-of-the-art reconductoring

~7x VPP capacity

~2.5x DER capacity

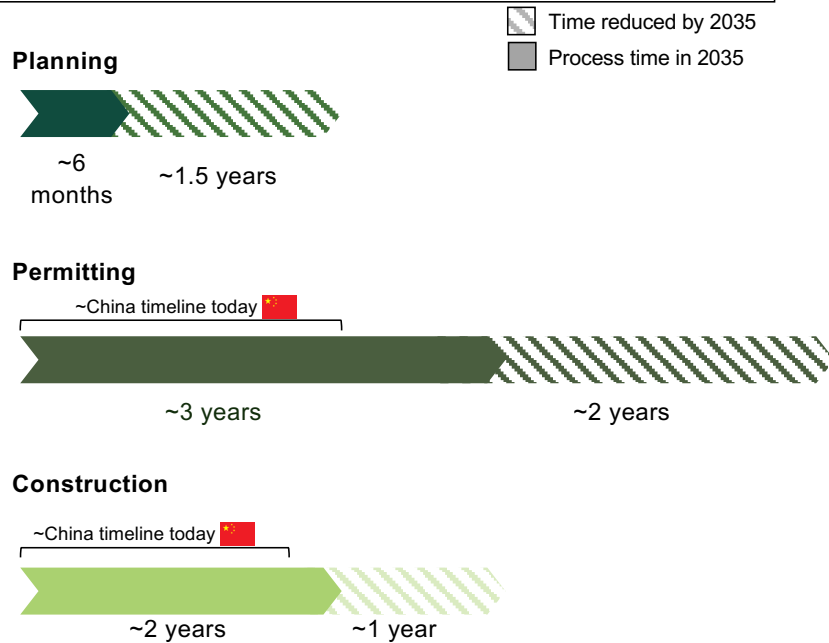
~7x more transmission build

Double cross-seam interconnections

~3,000 more HVDC miles per year

# Reducing New Line Build from 10 Years to 5 Years

## Transmission Build Timeline Improvements by 2035



## Example Enablers

AI Integration	Standardization	Policy
Digital twin creation and integration	Pre-approved transmission designs for corridor type	Mandated regional planning
AI assisted proposal drafting, risk modeling, environmental impact analysis	Legally enforced review timelines	Permitting certainty
AI integrated machine control and scheduling	Offsite manufacturing with standardized substation and component designs	FPA NEPA + CWA reform

Source: [National Energy Administration China](#), [Oncor](#), [DOE](#).



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**U.S. Grid  
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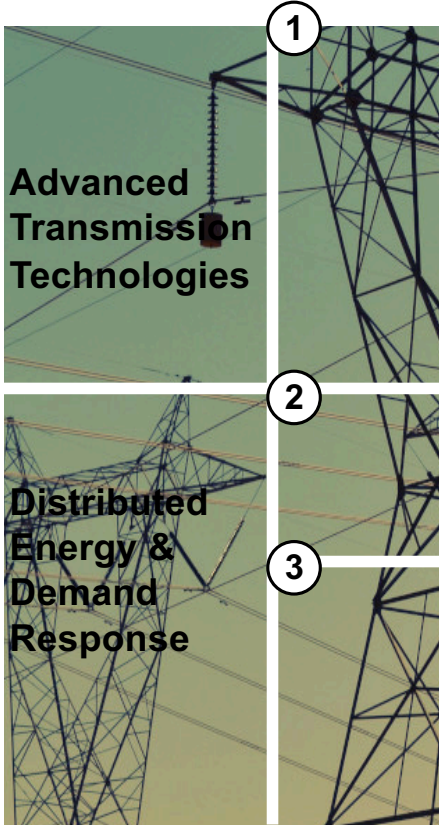
**Delivering The  
Vision**

4

**GV Impact  
Projects**

# 'Optimize' Includes Key ATTs And Demand Flexibility Levers

## The Key Optimize Measures



**Dynamic Line Rating:** Uses real-time weather/operating conditions to determine the maximum safe power capacity of a transmission line, reducing congestion

**Advanced Power Flow Control:** Modular power devices that actively redirect electricity on T&D lines to ensure lines do not become overloaded

**Topology Optimization:** Software optimization tool to determine efficient grid configuration and reduce generation dispatch costs

**Advanced Reconductoring:** Replacing current transmission lines with higher capacity and more efficient conductors

### Solar & gas generation

**Large Load Distributed Fuel Generation:** Meeting load on-site or local fuel-based generators

**Distributed Solar Generation:** Meeting load with on-site and local solar generation

### Storage & flexible demand

**Flexible load:** Adjusting electricity use in response to grid needs to improve efficiency

**FTM Storage:** Utility-controlled batteries deployed near load supporting reliability/capacity needs

**BTM Storage:** BTM battery storage charges during off-peak and dispatches during peak

2035 GW  
unlock

~20

~30

~20

~75

~120

~30

~60

~80

~50

Total

~485+

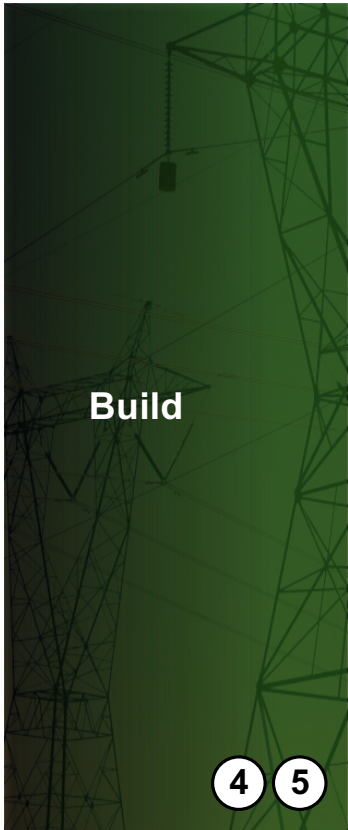
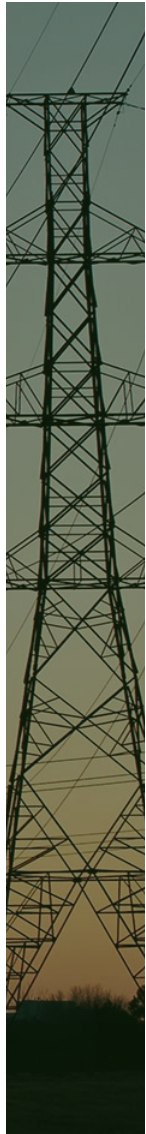
Large majority of ATT build should happen in the next 5 years



# Key Barriers across 'Optimize' Must Be Addressed

	Key barriers	Solutions
<b>Optimize</b> <b>ATTs</b> ①	Unclear ATT value proposition	Showcase value through real case studies and measurable evidence
	Perceived technology, warranty, and installation risk	Widespread standardized testing and compliance
	Rate basing incentivizes large CapEx new-build over lower capital initiatives	Encourage ATTs via incentives or rate base reform; require evaluation with deployment triggers
<b>DERs/DRs</b> ② ③	'Who pays' gap limits BTM adoption: adopters bear upfront costs for system-wide benefits	DER adoption incentives; standardized cost allocation
	Limited widespread real-time telemetry constrains BTM qualification as firm, dispatchable capacity	Real-time telemetry and digital twins to provide dispatch visibility and reliability
	Unclear ownership and cost recovery for FTM storage	Clarify asset classification and establish consistent rate-base eligibility

# Key Barriers across 'Build' Must Be Addressed



## Key barriers

Lengthy and fragmented planning processes

Limited impetus from regulators

Misaligned incentives and coordination for inter-regional projects

Lengthy and fragmented federal, state, and local permitting processes, with high litigation risk

Lengthy build times

## Solutions

Streamlined and standardized planning, leveraging AI tools

Showcase ratepayer benefits; targeted incentives


















Standardized cost allocation across states and regions

Advance federal permitting reform (e.g., simplify NEPA, shot clocks, override state-level permitting)

AI-driven project scheduling and predictive logistics speed up construction times


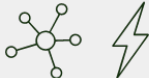



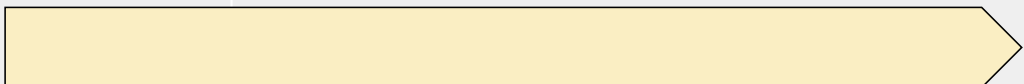


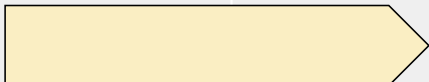







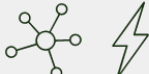

# Roadmap Actions to Building a Faster And More Reliable 2035 Grid

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- 5

Lever	Outcome	OM Rep	Owner	Near-term actions 2026-2030	2035 outcome
Optimize 	ATTs		     	<div style="background-color: #e0e0e0; padding: 5px; margin-bottom: 5px;">Enforceable ATT evaluation</div> <div style="background-color: #fff9c4; padding: 5px; margin-bottom: 5px;">AI implementation into ATTs</div> <div style="background-color: #fff9c4; padding: 5px; margin-bottom: 5px;">Digital twins to simulate ATTs</div> <div style="background-color: #fce4ec; padding: 5px; margin-bottom: 5px;">Outcome-based rate recovery</div> <div style="background-color: #fce4ec; padding: 5px; margin-bottom: 5px;">Testing / training revamp</div> <div style="background-color: #fce4ec; padding: 5px; margin-bottom: 5px;">Showcase ATT value</div>	<p><i>Up to ~150 GW of incremental capacity added due to widespread ATT adoption</i></p>
	DERs / VPPs		   	<div style="background-color: #e0e0e0; padding: 5px; margin-bottom: 5px;">Standardized cost allocation for DERs</div> <div style="background-color: #fff9c4; padding: 5px; margin-bottom: 5px;">Real-time telemetry</div> <div style="background-color: #fff9c4; padding: 5px; margin-bottom: 5px;">Digital twins to simulate DERs</div> <div style="background-color: #fce4ec; padding: 5px; margin-bottom: 5px;">Rate-base eligibility</div>	
Build 	Transmission build (including HVDC and regional seams)		    	<div style="background-color: #e0e0e0; padding: 5px; margin-bottom: 5px;">Standardized cost allocation</div> <div style="background-color: #e0e0e0; padding: 5px; margin-bottom: 5px;">Permitting shot clock; backstop authority</div> <div style="background-color: #fff9c4; padding: 5px; margin-bottom: 5px;">AI Planning tools</div> <div style="background-color: #fce4ec; padding: 5px; margin-bottom: 5px;">Financial incentives</div> <div style="background-color: #fce4ec; padding: 5px; margin-bottom: 5px;">Prioritize high-value projects</div>	<p><i>Up to ~70,000 incremental miles of transmission lines built across the U.S., including HVDC and regional seams</i></p>



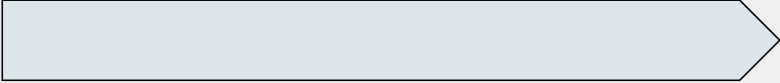









# Optimize Roadmap: Delivering Accelerated ATT Implementation

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	Critical Change Actions	Owner	Contributor	2026	2027-2030
<b>Policy</b>	Require <b>ATT evaluation in planning, triggering deployment</b> when economic and reliability thresholds are met				
<b>Tech</b>	<b>Implement AI into ATTs</b> (DLR, APFC) to optimize congestion management and dispatch				
	RTOs incorporate digital twins, <b>simulating ATT deployment</b> before implementation				
<b>Market</b>	Market rules reform to mandate <b>outcome-based rate recovery</b> models, incenting OpEx spend				
	Revamped and standardized <b>testing / aging / training</b> for advanced conductors				
	<b>Showcasing value of ATTs</b> through success stories and national study				


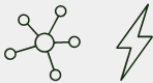









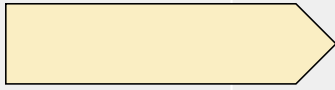






# Optimize Roadmap: Delivering Accelerated DER Implementation

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	Critical Change Actions	Owner	Contributor	2026	2027-2030
<b>Policy</b>	Policy reform to establish <b>standardized cost allocation frameworks for DERs</b> , clarifying how capacity and congestion are valued				
<b>Tech</b>	<b>Implement real-time telemetry</b> for optimized VPP dispatch				
	RTOs integrate AI-enabled forecasting through <b>digital twins to simulate DER impacts</b>				
<b>Market</b>	Clarify asset classification and <b>establish consistent rate-base eligibility</b>				

# Build Roadmap: Delivering Accelerated Transmission Buildout

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	Critical Change Actions	Owner	Contributor	2026	2027-2030
Policy	Establish <b>standardized cost allocation models</b> to eliminate cross-state and region disputes				
	Set clear permitting <b>decision timelines</b> and <b>strengthen federal backstop authority</b>				
	Allow <b>developers to apply directly</b> to FERC				
Tech	<b>Deploy AI planning tools</b> across RTOs to accelerate timeline				
Market	Offer <b>incentives for large-scale inter-regional and HVDC projects</b> in the most congested corridors				
	Educate stakeholders about Tx benefits and <b>prioritize high-demand projects</b>				



# Stakeholder Actions in the Next 12 Months to Catalyze Progress

Stakeholder	Action
<b>Utilities</b>	<ul style="list-style-type: none"><li>• <b>Commit to a dual-track optimize and build strategy:</b> deploy ATTs and AI-enabled planning at scale <i>now</i> while advancing at least one transmission project with accelerated timelines</li></ul>
<b>Tech vendors</b>	<ul style="list-style-type: none"><li>• <b>Innovate, prove and scale:</b> Innovate technologies (AI, ATTs) to mitigate today's barriers, deliver bankable, utility-grade deployments with quantified capacity unlock and cost savings so that system-wide adoption becomes low risk and routine</li></ul>
<b>Equipment OEMs</b>	<ul style="list-style-type: none"><li>• <b>Remove the future bottleneck:</b> Lock-in transformer, conductor, and critical component capacity now through standardized designs, dual sourcing, and forward production commitments so part shortages don't become a bottleneck to build</li></ul>
<b>Developers</b>	<ul style="list-style-type: none"><li>• <b>Prioritize and accelerate:</b> Lead the drive to advance high-impact, in-region and cross-region projects that relieve major congestion, embrace new tech to accelerate</li></ul>
<b>Data center operators</b>	<ul style="list-style-type: none"><li>• <b>Put capital and demand signals on the table:</b> Work with utilities / owner operators on innovative models / partnerships to co-invest in transmission and distributed energy solutions and provide long-term, load commitments to de-risk builds and minimize affordability impacts</li></ul>
<b>Investors</b>	<ul style="list-style-type: none"><li>• <b>Invest in the transmission backbone:</b> Actively fund first-of-their-kind interregional transmission, storage, and ATT-enabled projects.</li></ul>
<b>RTOs</b>	<ul style="list-style-type: none"><li>• <b>Rewire planning to optimize outcomes:</b> Mandate ATT and non-wires alternative evaluation as the first step in every regional transmission plan</li></ul>
<b>Federal</b>	<ul style="list-style-type: none"><li>• <b>Induce speed and certainty into the system:</b> Pass permitting reform with shot clocks, ensure federal backstop authority, mandate standardized interregional cost allocation and set clear direction for supply chain expectations</li></ul>
<b>State</b>	<ul style="list-style-type: none"><li>• <b>Reward outcomes, standardize inputs:</b> Set permitting targets, align on standardized cost allocation frameworks and approve reforms that favor congestion relief, resilience, and speed, including ATTs, storage —not just traditional steel-in-the-ground investment</li></ul>
<b>Nonprofits</b>	<ul style="list-style-type: none"><li>• <b>Lean in to solve the dual challenge of energy and emissions:</b> Mobilize public, policy, and business coalitions to drive action that helps meet energy demand and reduces emissions</li></ul>
<b>Thought leaders</b>	<ul style="list-style-type: none"><li>• <b>Change the Narrative:</b> Publish independent affordability and reliability evidence, identify real success stories, and make grid modernization a mainstream competitiveness and national security agenda</li></ul>



1

**U.S. Grid  
Challenges**

2

**The Grid  
Vision**

3

**Delivering The  
Vision**

4

**GV Impact  
Projects**

# OpenMinds and Partners Are Focusing on Six Catalyzing Projects

## 1 The U.S. Grid Vision Plan

Communicate compelling, impactful grid vision plan



## 2 Federal and State Policy

Inform policy to expedite transmission optimization and build

## 3 AI Planning

Encourage AI planning adoption



## 4 ATTs

Deploy ATTs at a higher frequency



## 5 Shovel Ready Interconnects

Accelerate specific and high value high-value transmission projects

## 6 Speed to Power Loop

Initiate the development of multi-region transmission project

Utilities IPPs

**Project Selection:** Existing 6 projects selected for highest near-term OM impact  
Projects for future consideration include nuclear, geothermal, storage, etc.

# Grid Action #1: The Grid Vision Plan



**Goal:** Influence nationwide grid optimization and buildout priorities

**Barriers:** Lack of prioritization of the Grid as a National Strategic Asset; Absence of a clear roadmap to deliver affordable and reliable load growth

**Solution:** Targeted distribution of a clear, actionable, and measurable Grid Vision Plan to align, engage, and educate stakeholders



## OM's Role

Develop the Plan through coordinated expert input, synthesized insights, and compelling storytelling to drive stakeholder alignment and changemaker education



## Implementation Partners

Provide expert input, expand network, and enable more effective Plan circulation



## Results

1) 100+ critical stakeholders in possession of the GV Plan, who are informed and mobilized to Action

# Grid Action #2: Federal And State Policy Action



**Goal:** Shape federal and state policy to support transmission buildout and grid optimization

**Barriers:** Divergent views; Lack of clear, data-driven roadmap to solve for affordable and reliable growth; untrusted messengers

**Solution:** Educate key policymakers on key barriers and potential solutions to shape legislative action and EOs



## OM's Role

Convene experts, **distill insights into high-impact materials**, identify key policymakers and opportunities, and **educate** to shape policy



## Implementation Partners

- **Provide industry insights** to inform data-driven policy
- **Pinpoint key stakeholders** for gathering data/insights and sharing perspectives



## Results

- 1) **Increased policymaker understanding** of issues and potential solutions
- 2) **Policymaker support and action** for transmission buildout and grid optimization

# Grid Action #3: Scale Adoption of Advanced AI Planning Tools



**Goal:** Better and faster planning through scale adoption of advanced planning tools by utilities/RTOs

**Barriers:** Limited awareness of technology and value potential; Structural challenges to adoption at pace

**Solution:** Host working session to showcase success stories and future-oriented solutions to tackle today's barriers to encourage AI adoption



## OM's Role

Identify and package success stories from end-users and tech vendors, facilitate RTO/utility meeting, showcase findings, and encourage partnerships to implement technology



## Implementation Partners

Identify and solicit end-users, help develop success stories, jointly develop POV on AI tools, facilitate workshop, and assist in identification of viable adopters



## Results

- 1) 2+ RTO/utility commitments to deploy AI planning tools
- 2) Increased awareness and understanding of tools and willingness to deploy them
- 3) Accelerated planning timelines; unlocked critical grid capacity

# Grid Action #4: Scale ATT Adoption



**Goal:** Accelerate deployment of ATTs across utilities

**Barriers:** Utility-perceived technology risk, limited awareness of performance/value and best practices, and insufficient financial incentives

**Solution:** Convene key stakeholders to share success stories and solutions to common barriers, increasing utility buy-in



## OM's Role

Organize success stories/best practices, engage utilities to develop list of shovel-ready projects, facilitate working session including barrier/solutions discussion, and assess working session impact



## Implementation Partners

Help convene right stakeholders, support deployment success stories/barriers/solutions, and help facilitate working session/dinner



## Results

- 1) Utilities report clearer understanding of deployment value
- 2) Developed list of priority, shovel-ready ATT projects to unlock capacity across the country

# Grid Action #5: Shovel Ready Interconnects



**Goal:** Accelerate buildout of high value, large-scale transmission projects

**Barriers:** Lengthy timelines, federal, state, & local opposition due to cost allocation disputes, and (perceived) lack of benefits

**Solution:** Produce a Critical Interconnects Overview with a visual tool to align stakeholders on high value priority projects



## OM's Role

Share Shovel Ready Interconnects Overview with an added visual tool (map) and **identify stakeholders who can spearhead high impact projects**



## Implementation Partners

**Provide policy and market context to identify Critical Interconnects:**  
Targeting projects that deliver significant GW unlock, are 'shovel ready' and deliver ratepayer affordability benefits



## Results

- 1) Visual tool highlighting **high-value interconnects**
- 2) Key stakeholder **commitments to advance high priority projects**
- 3) **Clear action pathways** to implement the Critical Interconnects Overview



# Grid Action #6: The Speed to Power Loop



**Goal:** Accelerate deployment of essential transmission infrastructure

**Barriers:** Slow and fragmented processes across planning, permitting, and cost allocation

**Solution:** Facilitate the build of a new innovative, high-value, large-scale transmission backbone



## OM's Role

Facilitate engagement with key stakeholders and support strategic decision-making



## Implementation Partners

Build Speed to Power loop with best planning, permitting, and cost allocation practices, aligning with other stakeholders for expedited buildout

Select group of Utilities/IPP/RTO partners



## Results

- 1) Announcement and eventual completion of a **high-value**, large-scale **transmission backbone**
- 2) Data center engagement in **planning process/project design**
- 3) Utility commitment to implement **best technologies** (e.g., ATTs)



OpenMinds

