



Energy & Infrastructure Insight: Power Generation

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VOYA® Investment
Management

Letter from the energy and infrastructure team

Voya underwrote its first infrastructure transaction in 1990 and, since then, the energy & infrastructure team has remained a core pillar of our investment grade private credit offering.

We manage a circa \$13 billion portfolio that focuses on single or multi-asset secured financings through a traditional project finance structure, plus investments in corporations whose business models have infrastructure characteristics.

Since Voya began classifying deals into infrastructure, corporate, and ABF in 2002, the infrastructure team has maintained a zero credit loss rate—successfully preserving principal through commodity cycles, financial crashes, geopolitical shocks, and the pandemic, while also generating competitive returns.

The team has deep sector experience across the energy and infrastructure landscape developed over multiple decades of transaction underwriting. It is our pleasure to distill that expertise into this series of educational insights for our current and prospective clients.

As always, we are happy to answer any questions you might have.

Sincerely,

The Voya PCIG energy and infrastructure team

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The capital markets are looking to the building blocks that make AI possible—and this includes power.

Power generation's wake-up call

The Voya Private Credit Infrastructure team has been an active power generation investor for over 25 years. We've deployed client capital across a wide range of generation technologies, primary fuel types, locations, and regulatory environments.

Over the past few years, growing demand for clean power, significant emissions reduction targets, and generous tax incentives have also encouraged an enormous wave of renewable generation and storage development across the U.S., in which many of our clients are materially invested.

Power generation is a fascinating part of the energy industry. It resides at the intersection of multiple commodity markets, and both contributes to and depends on major macroeconomic variables—all while subject to continuous technological change.

Yet, apart from renewables, power has spent several years as something of a financial markets backwater. Slow-growth electric utilities seem boring alongside the Magnificent Seven, cryptocurrency ETFs, or whatever flavors-of-the-month the equity markets might otherwise offer.

Power demand growth in the U.S. has been flat for decades. ESG policies made it challenging to attract investor capital for non-renewable thermal generation. Independent power producers owning fossil-fuel generation lost the equity market's interest to such an extent that some took themselves private. So even though we enjoy thinking, talking and writing about power markets, our affection for the topic has not exactly won us invitations to flashy cocktail parties.

But recently, the winds of public opinion have changed. The financial press has been jammed with news, commentaries and think-pieces on artificial intelligence development—and the significant power resources necessary to support its deployment. The capital markets are

looking beyond AI's potential impact on corporate America to the “building blocks” that make AI possible in the first place: chip manufacturers, data centers—and, suddenly, power.

Tech industry missionaries are insistent that power capacity is a primary constraint on AI's growth and widespread application. Our inboxes are burgeoning with consultants highlighting parabolic power demand growth and investment bank conference calls on how to play the theme. It feels like this is power generation's wake-up call.

For this Energy & Infrastructure Insight, we will draw from our project financing experience to explain this renewed interest in power. After touching on recent market price signals, we cover some basics on how power is sourced and priced. We then move on to prevailing issues affecting supply and demand to explain the drivers of higher power prices and the concerns about supply adequacy.

Follow the money

The financial markets are paying attention to power companies. The few public equities which can favorably leverage higher power demand and prices are among the market's best performers for 2024, after years of mediocre returns.

Independent power producers Constellation Energy Corporation (NASDAQ: CEG) and Vistra Corp (NYSE: VST) each hold large merchant generation portfolios. Their recent equity market performance exemplifies how the market has responded rapidly to a new narrative around power demand (Exhibit 1).

Constellation was spun out of utility holding company Exelon in 2022 and owns a roughly 22,000-megawatt (MW) nuclear fleet (the nation's largest), in addition to 11,000 MW of renewable and thermal generation. It is the largest carbon-free power portfolio in the nation.

**Tighter supply/
demand is
driving higher
profitability
for owners
of efficient
generation
capacity.**

Vistra manages some 37,000 MW of nuclear, gas, coal, solar, wind and storage resources across multiple fuel sources and domestic markets. Neither company operates as a rate-regulated utility, although both have large retail electricity businesses that sell power to household, business and industrial customers in markets that permit competitive energy sales.

These two companies' outperformance since May 2023 is a response to clear signals of rising power prices from forward power markets. Exhibit 2 illustrates the change in forward power for 2025-28 in two large domestic markets: ERCOT (Texas) and PJM (widespread, but primarily the mid-Atlantic, where most data centers are located).¹

The greater slope of the forward power curve priced in May 2024 reflects a new expectation for rising power prices in both markets versus the more subdued forward pricing of May and November of 2023.

And, indeed, this came to pass—retail electricity prices rose 14% from May 2023 to present, over twice the rate of CPI. Due in large part to ongoing data center power demand, retail electricity prices are forecast to rise a further 15-40% by 2030 across various utility service areas.²

Power prices are determined primarily by natural gas prices, and the two are

closely correlated. Forward power and natural gas prices may be used to derive the implied future profitability of a natural gas-fired generator, or what the industry calls “spark spread” (Exhibit 3).

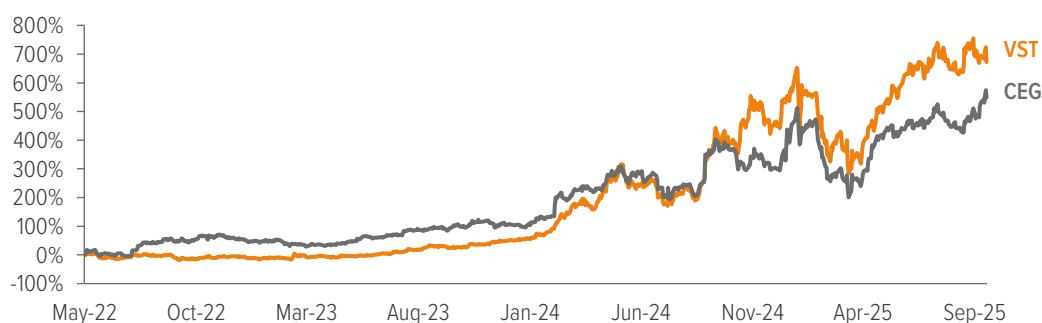
The forward spark spread has shown an even greater growth than forward power prices over the last six months, with the positive slope of these curves projecting even more price increases. This rising spark spread suggests market participants see a significant tightening of supply and demand in these markets, and therefore sharply improved profitability for owners of efficient generation capacity.

Our diversity is our strength

The domestic U.S. power market is sourced from a diverse combination of fuels. This diversity is critical to uninterrupted power supply, as each individual resource provides benefits and limitations. Electric utilities and independent grid operators count on the favorable characteristics of each resource to deliver an optimal combination of reliable, lowest-cost and low-emissions power supply. Maintaining grid stability is a complex exercise, and operators rely on this full range of tools to—literally—keep the lights on.

Before we dig into these sources, let's define some key terms.

Exhibit 1: Power producers' share prices have risen over 500% in the past three years



As of 10/15/25. Source: NASDAQ; NYSE.

¹ ERCOT stands for the Electricity Reliability Council of Texas and covers most of Texas except the Panhandle and some patches of East Texas; PJM stands for the Pennsylvania-New Jersey-Maryland Interconnection; it is the largest regional transmission organization in the U.S. and covers Pennsylvania, New Jersey, Maryland, Ohio, Virginia, West Virginia, Delaware, large parts of Kentucky, and bits of North Carolina, Illinois (Chicagoland), Indiana, and Michigan.

² As of 10/30/25. Source: BLS, ICF.

Baseload generation technology is designed to operate most or all of a 24-hour day. Baseload units are fuel-efficient but are slow to ramp to full capacity or vary their output.

Peaking generation can ramp from zero to maximum capacity in minutes, but it operates only during the few hours of daily peak demand. Peaking units are relatively fuel-inefficient, and their maintenance requirements can quickly elevate if they are run for longer periods than designed.

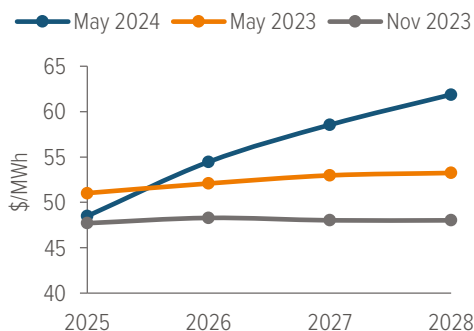
Capacity factor is the ratio of actual power generated to total potential generation assuming around-the-clock operations. Baseload resources will carry the highest capacity factors, while peaking power typically operates at a 10-20% factor. Renewable power generators

operate at low capacity factors due to the intermittent nature of their wind and solar resources. Coal-fired projects are designed to operate as baseload, but some have seen their capacity factors fall in recent years due to displacement by cheaper gas-fired generation.

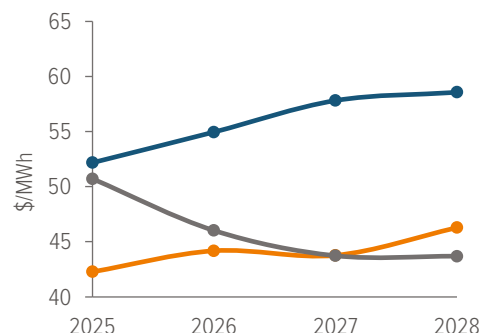
Generation volumes from each fuel type varies widely on an intraday basis. Exhibit 5 illustrates domestic generation over a week's time. The dominant share of total generation remains natural gas. Worth noting, too, is the predictable sunlight-following variability in solar generation (yellow line) versus the lesser predictability from wind (dark orange). Nuclear generation (dark blue line) operates continuously for up to 18-24 months and is the only non-variable resource.

Exhibit 2: Forward markets expect U.S. power prices to go up ...

PJM forward power



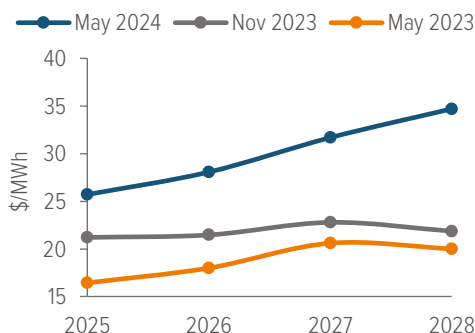
ERCOT forward power



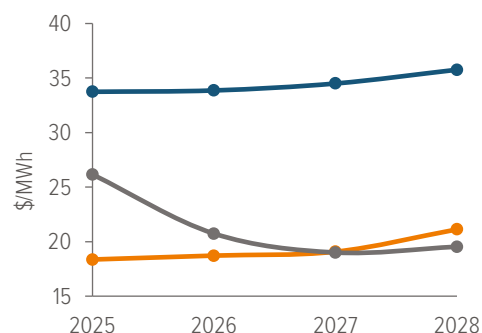
As of 06/01/24. Source: Bloomberg; prices are around-the-clock.

Exhibit 3: ... and power generation margins to increase

PJM spark spread



ERCOT spark spread



As of 06/01/24. Source: Bloomberg; spark spreads are around-the-clock and assume 7,000 mmbtu/MWh heat rate gas-fired generator.

Power prices are determined primarily by natural gas prices, and they are closely correlated.

Maintaining grid stability is a complex exercise requiring a broad range of fuels to—literally—keep the lights on.

Lastly, we highlight those resources which are **dispatchable**. This means that the grid operator can schedule when a resource does or does not generate power, and at a set volume and duration.

Dispatchability is critical to planning, sourcing and delivering power over the course of hours or days. Power demand varies continuously, and grid operators must respond to small and large real-time changes with concurrent changes in generator output. Dispatchable resources enable operators to dynamically manage supply and other critical variables in the face of this variable demand.

Exhibit 4: Fueling the U.S.' power appetite takes a village

Resource	Source	Fuel cost	Capacity factor	Emissions	Capital cost	Dispatchable
Natural gas, baseload	Domestic drilling	Moderate	High	Moderate	Moderate	Yes
Natural gas, peaking	Domestic drilling	Moderate	Low	High	Moderate	Yes
Coal	Domestic mining	Moderate	Moderate/high	High	High	Yes
Nuclear	Global mining	Low	High	None	High	Yes
Wind turbine	Atmospheric	None	Low	None	Low/moderate	No
Solar photovoltaic	Atmospheric	None	Low	None	Low	No
Hybrid (solar+BESS)	Atmospheric	None	Low/moderate	None	Low	Yes, limited
Hydropower	Precipitation	None	Low/moderate	None	High	Yes, limited
Fuel oil, peaking	Domestic drilling	High	Low	High	Moderate	Yes

Source: Voya IM.

Renewable resources are generally not dispatchable. The intermittency of their fuel—wind doesn't always blow; the sun goes down at night and can be hidden by clouds during the day—is such that operators cannot rely on renewables for certainty in volume, schedule or duration.

Renewable intermittency can also be regionally correlated. Wind, hydro or solar resources tend to be strong or weak for all assets of that resource type operating within the same area. This correlation means that all regional generation from a given renewable resource will concurrently underperform, requiring considerable backup resources to address shortfalls.

Thermal resources tend not to show similar geographic correlation unless there is a regional disruption to fuel delivery, which is typically only associated with extreme weather. Still, renewables

represent the cleanest and lowest-fuel-cost power available, so operators typically take renewable supply as it comes and use other resources to manage around this variability.

Utility-scale battery storage offers an attractive solution to renewables' intermittency. Batteries currently deployed alongside solar or wind projects can discharge for up to four hours at their peak capacity, which is sufficient to operate across most or all peak demand periods. Importantly, a charged battery is fully dispatchable. Batteries will typically charge during low-demand periods and discharge during peak demand hours.

Large-scale battery deployment is experiencing both widespread take-up and rapidly declining costs. Together, battery storage and hybrid solar/storage projects represent 47% of the U.S. interconnection queue.³ As such, we expect storage will eventually displace some portion of peaking thermal resources now in service.

³ As of 10/31/25. Source: Interconnection.fyi.

The building blocks of a healthy power system

Grid operators select generation resources for dispatch in ascending order of their variable operating costs. As fuel represents most of this cost, the cheapest fuel resource tends to be the lowest cost and the first to be called on by operators.

To meet expected demand, the operator will schedule the operation of each individual resource in order of sequentially higher operating cost until enough aggregate capacity is procured to meet demand. Generators “bid” their operating costs into the market on both a day-ahead and real-time basis.

Grid operators use day-ahead bids to schedule the operation of resources for each 24-hour day depending on projected power demand, plus a safety margin. Real-time bids are used to meet small changes in demand or address the unplanned outage of a scheduled resource.

The “dispatch curve” in Exhibit 6 illustrates the order in which generators are scheduled to operate in a hypothetical power market. The x-axis represents the capacity available in this market, with each individual generation resource plotted on

the supply curve in ascending order of its operating cost. The lowest-cost resources (renewables, hydropower, nuclear) appear on the leftmost portion of the curve, with successively more costly resources plotted as we move rightward.

Resources plotted in the middle of the curve tend to be a blend of coal- and gas-fired generators. The relatively inefficient gas- and petroleum-fired peaking projects appear on the rightmost part of the curve, with their operating cost increasing at an accelerating rate.

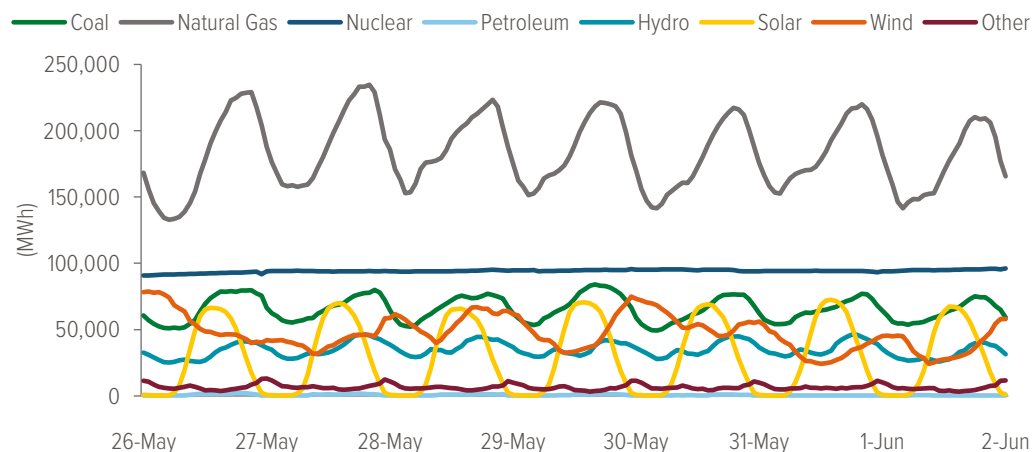
The steepness at this point along the curve implies that prices will increase rapidly should demand require the dispatch of these high-cost units. It is this dynamic which results in rapid price spikes seen during extreme weather or other conditions which drive power supply shortages.

The two vertical lines represent typical low and high demand. The point on the y-axis corresponding with the intersection of the supply curve and these vertical lines shows the market-clearing price for power in each of these two demand scenarios.

In this hypothetical market, the low-demand price is less than \$50/megawatt-hour (MWh)

Renewable resources are cheap but intermittent, solvable with utility-scale battery storage.

Exhibit 5: A week of power generation shows wide variance among fuel types



As of 06/04/24. Source: Energy Information Agency.

Rapid price spikes during extreme weather are due to utilities needing unexpected amounts of peaking capacity.

while the peak demand price is roughly \$100/MWh. The generation resources to the left of the vertical line will operate, while those to the right will not.

All operating resources will receive the market-clearing price, demonstrating the attractive profitability of operating renewable and efficient baseload assets in this hypothetical market.

Notably, the resource setting the clearing price operates at breakeven; the peaking capacity provides the final megawatts critical to reliability yet earns little or no profit in doing so.

Natural gas resources dominate the portion of the supply curve between the low- and high-demand scenarios and will therefore most frequently set the clearing price for power. This is why gas and power prices are highly correlated.

This correlation breaks down as successively less-efficient resources set the clearing price and the slope of the dispatch curve increases.

The large increase we previously noted in forward spark spreads illustrates how the more efficient / low-cost resources benefit handsomely as power demand rises. As demand rises the vertical line

moves rightward, deriving higher prices as it climbs the steeper-sloped portion of the curve.

Yes, it's different this time

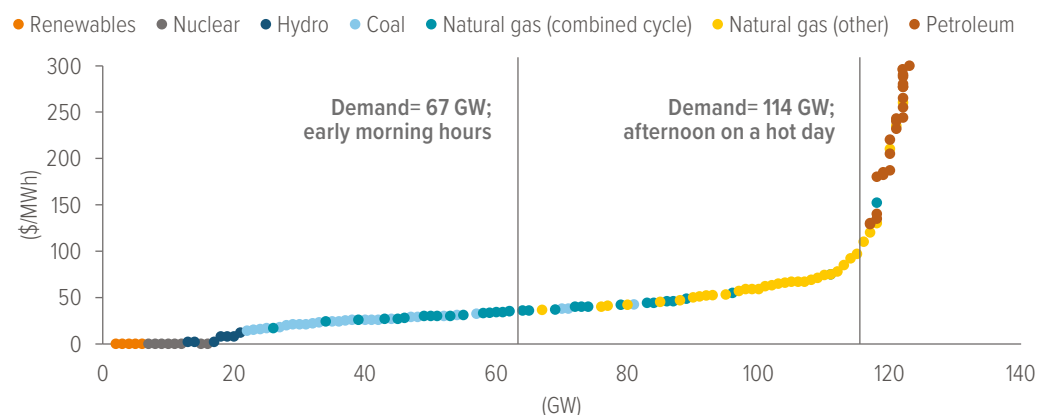
Domestic power demand growth was steady and strong from 1970 through the early 2000s, at which point the growth rate hit a wall (Exhibit 7). Economic conditions plus advances in energy efficiency in household and industrial consumption are partially responsible for this, as is conservation and growth in rooftop solar capacity.

So what is driving the renewed attention to power demand?

ERCOT and PJM attribute sharply higher long-term demand projections to a blend of population movements, expected data center construction, and new manufacturing & industrial capacity. PJM expects net energy load growth to average 4.8% a year over the next decade, while ERCOT expects an extraordinary 8.9% annual load growth from 2025-2031.⁴

Single-digit industry growth rates don't typically excite our readers; however, these growth rates have caught the industry flat-footed in terms of supply response to this new demand.

Exhibit 6: The dispatch curve: a day in the life of a hypothetical power market



As of 08/17/12. Source: Energy Information Agency, Voya IM estimates.

⁴PJM, 2025 Long-Term Load Forecast Report; ERCOT 2025 Adjusted Load Forecast.

Peaking capacity earns little to no profit, despite its high prices.

Utility-scale power supply takes time to develop and construct. Sudden increases in demand can only be met with short-term, high-cost fixes and elevated concerns about generation adequacy and reliability.

The capacity requirements necessary to meet this projected new load are remarkable. McKinsey forecasts that data center demand will grow from 178 terawatt-hours (TWh) in 2024 to 513 TWh by end 2029. Not only is this a 23.6% compound annual growth rate, the 2029 estimate is over 10% of total forecast U.S. electricity demand.

There are numerous new and growing calls on existing power capacity: Domestic manufacturing, cryptocurrency mining, EV and hybrid vehicles, the “electrification of everything.” However, data center expansion is central to the new supply/demand narrative across the industry and the capital markets.

Technology companies are investing aggressively in data center capacity supporting AI deployment as well as their other online services. McKinsey estimates that data centers consumed 178 TWh of power in 2024, equivalent to 4.3% of total U.S. demand. This is already a lot—to put it into perspective, it’s more than the entire 2024 electricity consumption of the state of New York (140 TWh).⁵

AI is particularly energy intensive. Power consumption of a single ChatGPT query is estimated to be more than 20x higher than that of a routine Google text search.⁶ Data centers are increasing in size to match.

Data center sizes are expressed in terms of their power consumption, and a couple years ago the largest would have been around 300 MW, equivalent to that of a utility-scale generation project powering a moderately-sized city. Now, there are five data centers scheduled to hit over 1,000 MW each in 2026.⁷ A large state-of-the-art data center can consume up to 300 MW of generation capacity, equivalent to that of a utility-scale power project serving a moderately-sized city.

Development for these centers is under way across the country, with concentrations expected in the PJM, ERCOT, California and Georgia power markets.

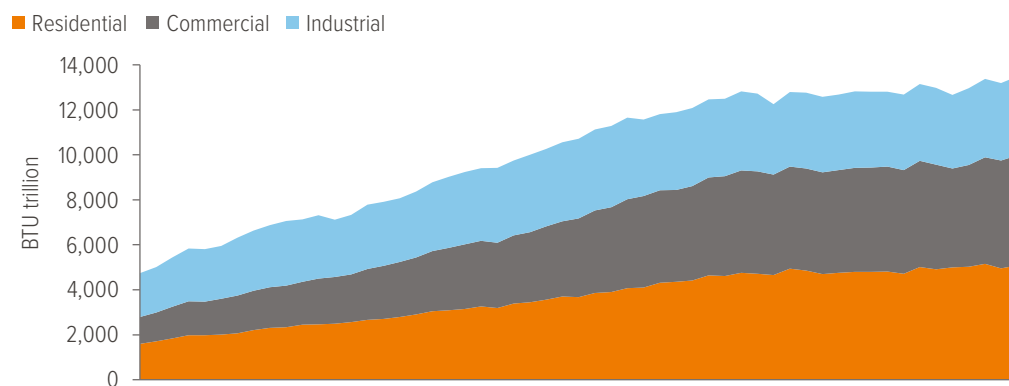
You can’t always get what you want

Renewable power development remains elevated in the face of this new demand.

AI-focused technology companies maintain aggressive clean energy targets in powering their data centers. Data centers operate around the clock and target “seven nines” reliability (99.99999%; this works out to downtime

Sudden increases in demand can only be met with short-term, high-cost fixes and concerns about grid reliability.

Exhibit 7: U.S. power demand has been broadly flat since the early 2000s ... but no longer



As of 10/24/25. Source: Energy Information Agency/.

⁵Energy Information Administration.

⁶As of 11/06/25. Source: Epoch AI, “Frontier Data Centers.”

⁷Wim Vanderbauwhede, “Emissions from ChatGPT are much higher than from conventional search,” 11/17/2023.

U.S. data center power demand is already more than the entire electricity consumption of New York.

of 3.16 seconds per year) from their power source, and this reliability doesn't come cheap. For example: Amazon recently agreed to co-locate a new center adjacent to an existing dual-unit nuclear project, striking a 10-year, 120 MW+ power purchase agreement (PPA) with the power producer at well above market prices to ensure access to continuous zero-emission power.

Since not all new data center capacity can be built adjacent to a large nuclear plant, other means of meeting clean energy requirements will be necessary. Co-location of a data center with a wind or solar project is not feasible due to their intermittency.

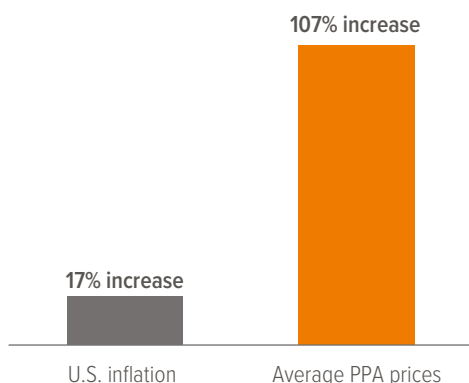
To meet their clean power commitments, technology companies are striking long-term PPAs supporting addition of new solar or wind capacity to the grids from which data centers will draw their power.

Power prices paid under these PPAs continue to rise much faster than inflation, and we see this corporate demand growth continuing unabated for several years (Exhibit 8).

Driven by AI, data center demand is forecast to more than triple in the next five years.

Exhibit 8: Renewable PPA prices have risen much faster than inflation

PPA prices vs CPI and retail electricity prices, 1Q20-3Q25



As of 11/01/25. Source: Level10, BLS, Voya IM estimates.

PPAs generate stable cash flow streams which support long-term financing for project development and construction. Their prices are driven by both construction cost and competition amongst buyers to procure clean power. High component and materials costs, interest rates and lingering supply chain issues are all drivers of the cost side of this dynamic.

Transmission access—interconnection to the grid—is the most significant constraint on renewable power development. The U.S. interconnection queue is currently over 90% renewables and storage, with a robust pipeline of some a robust development pipeline of some 9,000 projects representing 1,783 GW of renewable generation and storage capacity.⁸

These projects are subject to regulatory and utility reviews to determine both transmission improvements necessary for interconnection, and allocation of related costs. These costs can be high, and physical improvements subject to extended completion times. Projects sit in so-called “interconnection queues” pending these reviews.

Wait time in the interconnection queue for the typical project can reach up to five years. A recent Federal Energy Regulation Commission order is intended to speed projects through these queues, but execution remains dependent on grid operator and/or utility implementation.

Federal policy has also recently shifted against clean energy, sunseting the investment tax credits that have been in operation since the Carter administration legislated them in 1978. However, this has not had as much of a chilling effect on renewable development as might be expected, for a few reasons.

⁸ As of 11/06/25. Source: Interconnection.fyi.

Data centers' need for high reliability will likely result in premiums for guaranteed continuous power.

The first is that the economics of renewable energy projects have improved to the point that most remain attractive even without tax credits.

The second is the rapid rise in electricity demand. On the popular level, the accompanying spike in retail electricity prices (Exhibit 8) is causing renewed focus on cheaper electricity sources at a state and local level, where the bulk of permitting happens.

For corporate customers needing to contract large loads so new data centers can be up and running in time to meet Wall Street forecasts, this has meant prioritizing the types of generation that are able to get up and running the fastest—which tends to be renewables and storage (Exhibit 9).

New renewable capacity growth continues to outpace that of new transmission, with some projects facing significant curtailment, producing only what they can move through a constrained transmission network. Curtailments have proven especially problematic in moving power from western Texas wind and solar projects to meet demand in eastern population centers.

Where were you when we needed you?

While renewable power development pushes forward, interest in other forms of generation has also increased. This is both necessary and important, as meeting the U.S.' surging electricity demand will require an all-energy solution.

The current administration's preference for fossil fuel generation has caused the popularity of natural gas projects to come roaring back. There are currently 693 natural gas generation projects in the interconnection queue, up from 455 before the current administration took office. While this is positive for U.S. electricity supply, much of this newly-planned capacity may take significant time to become operational

due to supply chain constraints—the waitlist for natural gas-fired generation turbines is currently 5-7 years long.

Nuclear is also experiencing a renaissance in interest, since its high capacity factor and consistent output profile dovetails well with the way data centers consume power. However, much like new combined cycle natural gas capacity, nuclear is likely to be more of medium to long term solution.

In the face of this rapid rise in power demand, grid operators are overtly signaling concerns about the retirement of large thermal resources and the impact on grid reliability. PJM projects that roughly 40 GW of its market capacity will retire by 2030, representing 21% of the market's 2023 fleet. The majority of these are coal retirements due to pending environmental policy, although their economic returns could improve via rising power prices.

While an implementation delay in these policies would extend lifetimes, coal-fired plants have recently been minimally maintained in expectation of decommissioning, so higher power prices alone may be insufficient to economically justify such extensions.

The PJM interconnection queue is dominated by renewables. PJM notes that multiple megawatts of intermittent capacity will be necessary to replace a single megawatt of dispatchable thermal resource due to differing capacity factors and dispatchability.

New gas-fired peaking capacity offers the best short-term solution to counter this increased intermittency. Over the medium term, batteries will be an important supply-firming resource. They are regularly paired with solar or wind projects, exposing them to interconnection queue delays. Peaking gas can be added more rapidly and with lower interconnection cost on brownfield sites in proximity to existing transmission.

Renewable capacity growth continues to outpace the buildout of new transmission.

Despite renewed enthusiasm for gas generation, the waitlist for turbines is 5-7 years long.

Meanwhile, ageing thermal and coal resources are being retired, straining grid reliability.

Let's look at how PJM's expected developments would affect the typical dispatch curve.

- Brisk renewable development would add clean, inexpensive capacity at the leftmost points on the curve. Healthy demand and aggressive renewable power standards will assure that a portion of projects in development pipelines will survive interconnection review and reach commercial operation. These additions will tend to push the steep-slope portion of the curve further rightward.
- Base- and intermediate-load coal and aging gas capacity will remove dispatchable capacity between the minimum and peak demand. This will tend to draw the steep slope leftward.

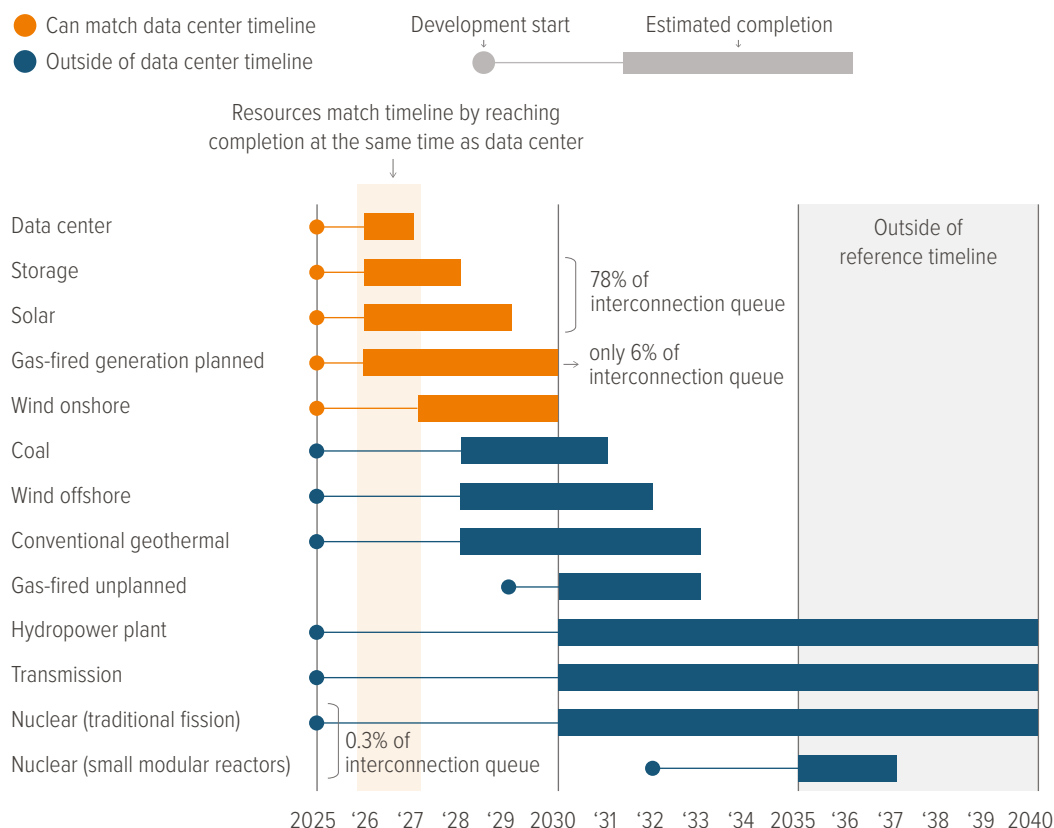
The net effect on aggregate capacity from these changes is to be determined, but we do know greater intermittency will result

from greater renewable penetration. We are already seeing peaking capacity called on for this purpose.

Nationally, the capacity factor for quick-ramping gas has nearly doubled in the last ten years due to baseload retirements being replaced by new intermittent capacity (Exhibit 10). PJM is simply highlighting the risks to reliability as this dynamic proceeds.

PJM and other markets look to improve incentives for peaking capacity development. As we noted earlier, these resources are critical to reliability, but since they dispatch at or close to the clearing price for power, they earn low margins on their generation. In markets where generation is typically not carried in a utility rate base (PJM, ERCOT, others) these margins have proven too low to support adequate returns on capital.

Exhibit 9: Few energy resources align with data center timelines



As of 07/15/25. Source: Deloitte; interconnection.fyi.

Battery storage will be an important resource over the medium term.

Grid operators in PJM, New England, California and elsewhere employ mechanisms to compensate peakers simply for maintaining available capacity; however, returns under these schemes have not always encouraged the development of significant new peaking capacity.

PJM has altered capacity market rules with the clear purpose of driving higher capacity prices. ERCOT does not offer a capacity payment, but the state government is offering subsidized financing to support construction of new gas resources and other mechanisms to encourage development of new gas-fired capacity.

Where do we go from here?

Despite numerous uncertainties, the following four issues are likely to shape the short- and medium-term generation landscape:

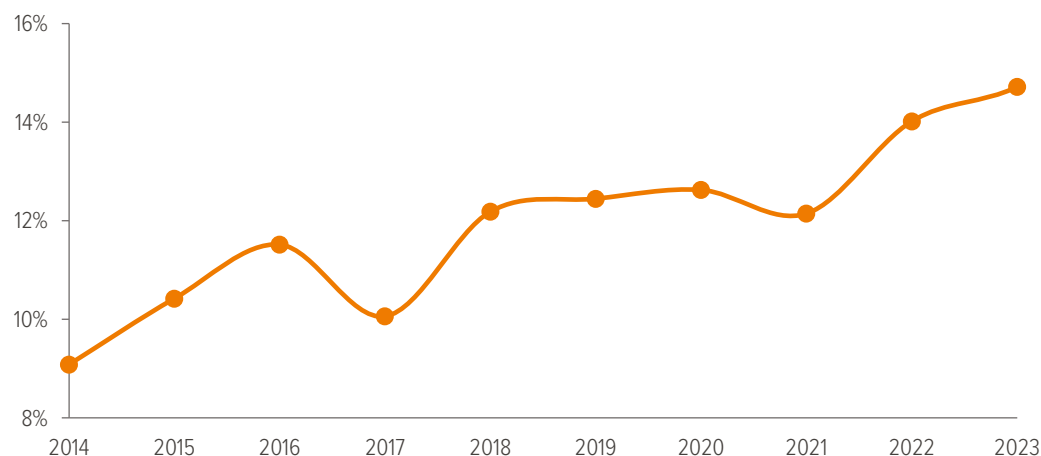
- **Power prices will continue to rise.** Alongside the changes we've described in generation resource, we see increasing calls on domestic gas supply. Despite plentiful reserves, conditions are favorable for rising natural gas prices, due to incremental demand for domestic

power, as a manufacturing feedstock and for LNG export. This inflation will be realized across all electricity consumers.

- **Regional demand concentrations will give rise to reliability concerns in some markets.** The combination of population migration, industrial growth, and data center expansion will drive a push for additional generation resources to maintain grid reliability.
- **Progress on energy transition will be driven by improvements in battery storage** in order to mitigate reliability and intermittency concerns. We also see a growing partnership between experienced renewable developers and data center developers.
- **Meanwhile, new natural gas generation capacity will be increasingly in demand,** if constrained by supply chain issues in the short to medium term.
- **The reconsideration of new nuclear capacity is a wild card.** Well-funded research and development on small modular reactors remains under way. Successful domestic commercialization at scale could offset many of the issues we have outlined, although timelines for any significant development will be long.

Something's gotta give: **Peaking capacity's lackluster economics** has dampened development of significant capacity additions.

Exhibit 10: Gas peaking capacity factors have nearly doubled over the last decade



As of 10/24/25. Source: Energy Information Administration.

Implications for electric utility and power project financings

As with any meaningful change in industrial status quo, there are a few things creditors and investors in this sector should consider regarding their current holdings and future allocations.

- 1. Existing generation assets of all kinds will benefit.** Power prices will continue to move in line with natural gas, but we do believe that power supply stack is tightening and that efficient assets will see higher margins. Projects currently under fixed-price PPAs will not see immediate benefit although prospects are improved for either their recontracting negotiations or their move to merchant operation.
 - 2. The outlook for existing natural gas projects will improve greatly.** These projects were until recently thought to have limited lifetimes. Peaking generation development will depend on improved compensation for providing available capacity. Market mechanisms for pricing this capacity need further improvement, but we see consensus on this point as well as recent bilateral capacity contracts signaling improved value for peaking capacity.
 - 3. There is a groundswell of interest in developing new gas power projects, but risks remain.** Capacity mechanisms have proven fickle in supporting peaking projects, and capital costs are high and supply chains difficult for all natural gas generation. Concerns linger about the long-term competitiveness of natural gas, and the potential retrenchment of support by future administrations. New gas generation projects carry 30+ year economic lifetimes. Improved battery storage technology and/or a nuclear renaissance deploying smaller modular reactors could all push gas further to the dispatch curve's margins.
 - 4. The pipeline for renewable project financings should remain robust.** Projects will be rushing to begin construction before the tax credit deadlines and/or meet data center development timelines, providing attractive opportunities for private capital over the short to medium term. Experienced sponsors will be at an advantage.
 - 5. There is potential for greater frequency and size of transmission project financings outside of the traditional utility framework.** Investors should also consider their appetite for financing natural gas-fired capacity, for both existing projects and new developments.
 - 6. Utility regulators in high-demand markets will face greater challenges.** Large load demands from data centers and/or industrial users will require new generation and transmission capacity. While these new customers offer attractive regional economic development, cost allocation for these projects will prove difficult as rate payers may see no direct benefit offsetting their higher electric bills.
 - 7. Difficult rate cases and greater uncertainty around allowed equity returns and credit quality are likely in the face of elevated capital expenditure in a "higher-for-longer" rate environment.**
- Over the last 20 years our infrastructure team has successfully invested through volatile power markets and an ongoing energy transition. We utilize these experiences to selectively establish new investments in power assets that are well-positioned to navigate the sector's changing dynamics.
- Note: Investment opinions are as of the original date of this insight (December 2025) and are subject to change.*

A note about risk

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