WORLD POWER SYSTEMS REVIEW

15 November 2025

1 November 2025

Energy Department Announces $100 Million to Restore America's Coal Plants

The U.S. Department of Energy (DOE) today issued a Notice of Funding Opportunity (NOFO) for up to $100 million in federal funding to refurbish and modernize the nation's existing coal power plants. It follows the Department's September announcement of its intent to invest $625 million to expand and reinvigorate America's coal industry. The effort will support practical, high-impact projects that improve efficiency, plant lifetimes, and performance of coal and natural gas use.

"For years, the Biden and Obama administrations relentlessly targeted America's coal industry and workers, resulting in the closure of reliable power plants and higher electricity costs," said U.S. Secretary of Energy Chris Wright. "Thankfully, President Trump has ended the war on American coal and is restoring common sense energy policies that put Americans first. These projects will help keep America's coal plants operating and ensure the United States has the reliable and affordable power it needs to keep the lights on and power our future."

This effort supports President Trump's Executive Orders, Reinvigorating America's Beautiful Clean Coal Industry and Strengthening the Reliability and Security of the United States Electric Grid, and advances his commitment to restore U.S. energy dominance.

This NOFO seeks applications for projects to design, implement, test, and validate three strategic opportunities for refurbishment and retrofit of existing American coal power plants to make them operate more efficiently, reliably, and affordably:

Development, engineering, and implementation of advanced wastewater management systems capable of cost-effective water recovery and other value-added byproducts from wastewater streams. Engineering, design, and implementation of retrofit systems that enable fuel switching between coal and natural gas without compromising critical operational parameters.

Deployment, engineering, and implementation of advanced coal-natural gas co-firing systems and system components, including highly fuel-flexible burner designs and advanced control systems, to maximize gas co-firing capacity to provide a low cost retrofit option for coal plants while minimizing efficiency penalties.

DOE

http://www.energy.gov/

1 November 2025

J-Power to Shut Two Coal-Fired Power Plants, Committed to Offshore Wind Project

Japan's Electric Power Development Co. (J-Power) announced on Friday that it plans to decommission two coal-fired power plants by March 2029 as part of its strategy to achieve a 46% reduction in carbon dioxide emissions from 2013 levels by 2030. President Hitoshi Kanno confirmed that the move aligns with the company's broader goal of balancing emissions reduction with stable electricity supply.

The two facilities scheduled for closure are the No.1 and No.2 units at the Takasago thermal power station in Hyogo Prefecture, western Japan. Both units, each with a capacity of 250 megawatts, began operation in 1968 and 1969 and use subcritical-pressure technology. These older plants are considered less efficient compared with newer thermal facilities. J-Power, which supplies wholesale electricity, currently relies on coal-fired generation for more than half of its domestic sales.

Kanno said: "To achieve our 2030 target, we must shut down remaining inefficient thermal units, but we also must maintain supply capacity .... we will decide through discussions with the authorities." He identified two additional plants—the 700-MW No.3 unit

at Takehara in Hiroshima Prefecture and the 1,000-MW No.1 unit at Matsuura in Nagasaki Prefecture—as potential future closure candidates. If these units are also retired, J-Power's domestic generation capacity would fall by about 12%.

Japan's overall electricity demand is expected to rise in the coming years due to growing consumption from data centers and semiconductor facilities, reversing a previous downward trend. In response, Kanno emphasized the importance of expanding renewable energy, especially offshore wind power, to support both carbon neutrality and energy security.

J-Power remains committed to developing the Oga-Katagami-Akita offshore wind project in northern Akita Prefecture, part of Japan's second-round public auction framework. Kanno said: "We are pushing ahead with our Katagami project despite rising costs." The project is being developed by a consortium including JERA, J-Power, Itochu, and Tohoku Electric Power, and plans to begin operations in autumn 2028 using wind turbines supplied by Denmark's Vestas.

However, Japan's offshore wind sector faces challenges from higher material, equipment, and labor costs, which have affected global projects. Mitsubishi Corp recently withdrew from three first-round auction projects, adding to market uncertainty. Kanno noted that the government is currently reviewing bidding rules for reopening the first-round auction and stated: "Any decisions should apply retroactively to second- and third-round projects."

Through these developments, J-Power aims to advance its energy transition while maintaining a stable power supply. The company's plan reflects Japan's broader efforts to balance environmental objectives with energy reliability amid changing industrial and consumption trends.

World Energy
http://www.world-energy.org/

3 November 2025

Project to advance ocean renewables launches in Orkney

The European Marine Energy Centre (EMEC) has launched a project to increase the advancement of ocean renewable energy systems. The FOREST (Future Ocean Renewable Energy System Technologies) project is funded with a grant from the European Commission for €4m (£3.5m). It brings together partners from the UK, Portugal, Spain and Sweden to drive advancements in subsea components and digital technologies in the sector of ocean renewables, like wave energy devices.

"This project and its investment in advancing cutting-edge subsea technologies will help to catalyse the advancement of the renewable marine energy sector," said energy secretary Gillian Martin. "It is particularly heartening to see that this project is coordinated by Scotland's European Marine Energy Centre in Orkney, supported by Horizon Europe. This international collaboration highlights the importance of sharing expertise and innovation to accelerate market readiness in order to realise the potential of marine energy in supporting our transition to net zero." The FOREST project aims to enhance the performance of ocean energy like tidal and wave systems by reducing the cost, increasing their longevity and accelerating their development as viable energy sources.

"The FOREST project marks a major step forward for ocean energy, bringing together leading expertise from across Europe to tackle some of the sector's most persistent challenges," said Matthew Finn, the managing director at EMEC.

"By developing and testing next-generation subsea technologies here in Orkney, we're advancing the reliability and efficiency of the ancillary systems crucial for ocean energy array deployments and helping to drive down costs. This collaboration demonstrates

the power of innovation and partnership in accelerating the transition to clean, sustainable energy."

The project will aim to develop three main innovations for the sector, focusing on connectivity for ocean energy. Common problems revolve around the ability for energy generated by ocean systems to be transferred from the ocean onto land.

The FOREST project will also look at generating in-depth knowledge on operating ocean energy farms and improving their availability, maintainability, reliability, survivability and sustainability. Innovations from the project will be tested at the EMEC's wave and tidal test sites in Orkney for compliance and safety testing.

Holy Rood
http://www.holyrood.com/

4 November 2025

Australia to offer three hours free solar per day to millions

Australia will offer at least three hours of free solar power every day to households including those without solar panels under an energy-saving programme that is expected to go live in 2026, energy minister Chris Bowen said on Tuesday.

The Solar Sharer programme will begin in the states of New South Wales and South Australia as well as southeast Queensland before it is expanded elsewhere. Users will get the free solar power when generation capacity is highest in the middle of the day.

"People who are able to move electricity use into the zero-cost power period will benefit directly, whether they have solar panels or not and whether they own or rent, and the more people take up the offer and move their use, the greater the system benefits that lower costs for all electricity users will be," Bowen said.

The share prices of two of Australia's largest electricity suppliers AGL, opens new tab and Origin Energy, opens new tab fell 3% by late afternoon.

About four million households in Australia have rooftop solar panels on their homes and peak time sunny afternoons can supply so much power that electricity prices swing into the negative, while peak demand is often several hours later, putting strain on the grid. Households, including apartment dwellers, will be able to access the programme even without their own solar panels.

In 2022, Bowen set a target of 82% renewable electricity by 2030 in addition to the legislated target of a 43% reduction in emissions over the levels in 2005. Customers who choose the deal must have a smart meter and will only benefit if they shift their peak usage to the middle of day and run appliances and charge vehicles then.

Reuters
http://www.reuters.com/

5 November 2025

SPP board advances regional transmission plan to keep pace with accelerating growth and ensure grid reliability

Southwest Power Pool (SPP) today reaffirmed its commitment to ensuring a reliable, affordable, and resilient electric grid through its Integrated Transmission Planning process — a collaborative effort that has identified transmission solutions to meet the region's evolving energy needs.

The 2025 Integrated Transmission Plan (ITP) identifies new and upgraded high voltage lines needed throughout the SPP footprint and which will produce the highest benefit-to-cost ratios in SPP's planning history. For every dollar invested in transmission infrastructure through these projects, the region is projected to gain between $12 and $18 in benefits — clear demonstration of the portfolio's value to the broader system and

economy. The SPP Board of Directors' approval of $8.6 billion in 2025 ITP projects builds on decades of collaborative planning across SPP's 14-state footprint. As the electric grid faces increasing demands from new technologies, economic growth, and extreme weather, SPP's planning process is designed to safeguard reliability while helping member utilities supply lower cost energy to consumers.

"The 2025 ITP addresses grid reliability, enables economic growth and supports strategic national interests," said Lanny Nickell, President and CEO of SPP. "The plan reflects the power of collaboration and will deliver significant measurable benefits while readying our grid for the future." The approved plan includes high-voltage transmission projects that address rising electricity demand, enhance reliability, and support economic growth across the region. Central to the portfolio is the development of a regional 765 kilovolt (kV) backbone: an efficient, scalable solution for long-distance power delivery. A single 765 kV line can carry four times the power of a 345 kV line while using less land and losing less energy over long distances, making it a more efficient, cost-effective and forward-looking solution for a growing grid.

The portfolio also supports the interconnection of new generation resources which are critical to maintaining reliability as demand grows. This includes many dispatchable resources such as natural gas units queued in SPP's generator interconnection study process. Electricity use across SPP's 14-state region is expected to double over the next decade as economic growth and new demand from homes and businesses accelerate. Even under conservative assumptions, SPP forecasts a 35% increase in demand, making timely transmission investment essential.

"We're building today for the demands of tomorrow," said Casey Cathey, Vice President of Engineering at SPP. "This portfolio ensures we have the infrastructure in place to support new generation, meet accelerating demand, and enable economic growth while maintaining the reliability our region depends on."

The portfolio was shaped through extensive stakeholder input, engagement, and scenario-based modeling. The approved plan reflects a balanced set of critical infrastructure investments that address the most urgent needs today and creates a path for future grid evolution. SPP remains committed to working closely with stakeholders, regulators, policymakers, and the public to build understanding of the region's transmission needs and to foster broad support for the investments required to keep the grid strong, reliable, and ready for the future.

SPP
http://www.spp.org/

6 November 2025

Koeberg unit 2 approved for extended operation

The regulator said the decision by its board of directors comes after a "comprehensive and transparent regulatory process", which included a third set of public hearings held in the Northern and Western Cape provinces in late September and early October "so that public concerns could be considered in the decision".

"The NNR's primary mandate is to protect persons, property, and the environment against the harmful effects of radiation. This licence approval was granted after a rigorous safety assessment which confirmed that all regulatory requirements for the period of long-term operation have been met for Unit 2 and relevant public representations were considered in the decision-making process," NNR Board Chairperson Protas Phili said.

Koeberg, near Cape Town, is the only currently operating nuclear power plant on the African continent. Unit 1 entered commercial operation in 1984 and unit 2 in 1985. Both units have undergone extensive maintenance and upgrades to enable their long-term operation:

unit 2 was reconnected to the South African grid on 30 December 2024 after the completion of extensive maintenance to extend the unit's operational lifespan by an additional 20 years.

Nationally owned utility Eskom submitted its application to extend the operating lives of the two pressurised water reactors by an additional 20 years beyond their initial 40-year operating lives to the regulator in May 2021. In July 2024, the NNR granted the utility a licence to continue operating unit 1 until 21 July 2044: it will now be able to continue operating unit 2 until 9 November 2045.

Eskom Chief Nuclear Officer Velaphi Ntuli said the extension is a result of "hard work, focus and dedication" from employees at the plant, across the company and throughout South Africa's nuclear value chain.

"The rigorous safety assessments and regulatory requirements Eskom had to meet to achieve the long-term operation demonstrate the depth and pipeline of nuclear engineering talent available in South Africa that delivers high-quality jobs," he said. "We continue to maintain and develop this talent through investing in Science, Technology, Engineering, and Mathematics (STEM) education as we look to build new nuclear capacity in the coming years in line with the integrated resource plan recently published," he added, referring to the latest version of the government's plans to transform the energy sector to jump-start development and economic growth, including 5200 MW of new nuclear capacity as the country rebuilds its nuclear supply chain.

WNN
http://www.world-nuclear-news.org/

6 November 2025

US installed nearly 26 GW of new generating capacity from January to August

The U.S. installed nearly 26 GW of new generation capacity between January and August 2025, up slightly from the approximately 23 GW installed over the same period last year, according to the most recent monthly infrastructure report from the Federal Energy Regulatory Commission.

As it has for most of the past two years, solar continued to dominate new generation resources, accounting for 2.7 GW out of 4 GW brought online in August alone, and 19 GW — about three-quarters — of generation capacity additions this year.

The report also says FERC reissued a certificate for Williams Companies to construct and operate its Northeast Supply Enhancement Project. That expansion of the Transco gas pipeline from New Jersey to New York was revived following talks between President Donald Trump and Gov. Kathy Hochul in May after the Trump administration briefly froze the Empire Wind project. The White House and the developer of the wind project have told journalists the two sides reached a gas-for-wind deal, while Hochul has denied striking such a bargain.

The report shows momentum for renewables continuing, despite the federal government’s emphasis on fossil fuels and nuclear. FERC lists 136 GW of “high probability additions” through August 2028, with renewables, led by solar and followed by wind, accounting for nearly 84%. Natural gas accounts for about 15% of high probability additions.

“Notwithstanding impediments created by the Trump Administration and the Republican-controlled Congress, solar and wind continue to add more generating capacity than fossil fuels and nuclear power,” the Sun Day Campaign’s executive director Ken Bossong said in a statement. “And FERC foresees renewable energy’s role expanding in the next three years while the shares provided by coal, oil, natural gas, and nuclear all contract.”

Large renewable projects that began operating in August include Hecate Energy’s 517-MW Outpost solar and storage project in Webb County, Texas; Gibson Solar’s 280-MW

project in Gibson County, Indiana; and expansions at the Roadrunner Crossing Wind Farm in Eastland County, Texas, totaling 254 MW.

While solar and wind made up most of the new generation added in August, a number of smaller gas generators also came online that month, totaling 888 MW. They include: Southern Indiana Gas & Electric Co's 248-MW A.B. Brown expansion project in Posey County, Indiana; Basin Electric Power Coop's 245-MW Pioneer Generation Station expansion in Williams County, North Dakota; and Lower Colorado River Authority's 188-MW Maxwell Peaker Plant in Caldwell County, Texas.

Utility Dive
http://www.utilitydive.com/

8 November 2025

China releases white paper on low-carbon development

China's State Council Information Office on Saturday released a white paper titled "Carbon Peaking and Carbon Neutrality China's Plans and Solutions."

The white paper presents a comprehensive overview of China's major achievements in pursuing peak carbon and carbon neutrality over the past five years, and shares China's approaches, actions, and experience.

State Council Information Office
http://english.scio.gov.cn/

10 November 2025

In the Philippines, almost 3 million consumers were left without electricity due to the typhoon

Nearly three million households suffered from power outages Sunday due to the impact of Super Typhoon Uwan (international name Fung-wong) but the National Electrification Administration (NEA) on Monday assured that assessments are ongoing.

NEA, in a press release, said at least 20 electric cooperatives in 12 affected regions declared total power interruptions, as Uwan lashed the Bicol region as well as the provinces of Aurora, Nueva Ecija, Nueva Vizcaya, Quirino, Northern Samar and Samar. Quoting NEA Administrator Antonio Mariano Almeda, NEA said around 2,931,220 member-consumer-owners are waiting for electricity services to be restored after the super typhoon.

Almeda said some of the outages occurred after electric cooperi closeatives implemented safety protocols to cushion the impact of the heavy winds on the power lines and facilities. "Humihingi po kami ng konting understanding at pasensya... Hindi po madaling magbalik ng kuryente pag lagpas ng typhoon (We ask for a bit of understanding and patience… It is not easy to bring electricity back after a typhoon passes)," he said during a radio interview.

"Lahat po yan ay i-i-inspect at gagawa ng line assessment ang mga electric cooperative to make sure wala pong disgrasya, lalong-lalo na po doon sa mga metro na lumubog sa baha. Masinsin po nilang ini-inspect po 'yan just to make sure na walang madidisgrasya (Everything will be inspected, and the electric cooperatives will conduct line assessments to ensure safety, particularly for meters under floodwaters. They're carrying out thorough inspections to prevent accidents)," he added. Based on the 8 a.m. bulletin of the weather bureau, Uwan was last estimated at around 125 km. west northwest of Bacnotan, La Union, moving west-northwest at 20 km/h and packing maximum sustained winds of 150 km/h near the center and gustiness of up to 185/km/h.

Philippine News Agency
http://www.pna.gov.ph/

11 November 2025

India's Modi expands energy ties with Bhutan, extends $450 million credit line

India and Bhutan expanded their energy ties on Tuesday during Prime Minister Narendra Modi's visit to the Himalayan nation where he extended a 40 billion rupee ($455 million) line of credit and inaugurated a hydroelectric power project.

India's outreach to Bhutan is seen as an effort to grow its influence in the region and draw the country wedged between China and India closer to New Delhi as Beijing steps up its engagement to resolve a long-running border dispute with Bhutan and establish diplomatic relations.

Modi is on a two-day visit to the country and on Tuesday addressed a gathering to mark the birthday celebrations of Bhutan's King Jigme Khesar Namgyel Wangchuck's father. "The partnership of trust and development between India and Bhutan stands as a model for the entire region," he said. "As both our countries progress rapidly, our energy partnership is further accelerating this growth."

Later in the day, he inaugurated the India-funded 1,020-megawatt Punatsangchhu-II hydroelectric power project, which he said would increase Bhutan's hydropower generating capacity by nearly 40%. It is the fifth Indian-backed hydropower project in the country which altogether generate a total of nearly 3,000 megawatts of power. The line of credit extended by India on Tuesday is also aimed at funding energy projects, the Indian government said.

Lok Nath Sharma, a former minister for energy in Bhutan, said the excess energy will be exported to India after meeting local demand which is about 1,000 megawatts. Indian private companies like Tata Power, opens new tab, Adani Group and Reliance Power, opens new tab have signed agreements with Bhutan's Druk Green Power Corporation for building hydroelectric projects.

Reuters
http://www.reuters.com/

12 November 2025

SSE unveils £33bn investment plan to unlock clean, secure, affordable energy and support economic growth

SSE plc has announced a £33bn fully-funded five-year investment programme, to transform the UK's electricity infrastructure and deliver long-term benefits for society.

The "Transformation for Growth" plan will see a major ramp-up of SSE's capital investment over the next five years, with 80% directed towards regulated electricity networks and the remainder into renewables and flexible generation technologies.

SSE plans to invest around £22bn in its electricity transmission network in the north of Scotland, the majority of which will support 11 well-established projects, part of the Pathway to 2030 programme, that will expand and strengthen the existing infrastructure. These vital network upgrades will eliminate bottlenecks and connect clean, homegrown energy to the areas where it's most needed.

Around £5bn will be invested in SSE's distribution networks in the north of Scotland and central southern England. This investment will help to support huge centres of growing demand from homes, businesses and communities, as well as enabling the connection of low-carbon technologies in these areas.

The remainder of the investment will support renewables and flexible generation technologies, including delivering projects such as Dogger Bank, which is currently under construction and will become the world's largest offshore wind farm when operational. Over the next five years, SSE's "Transformation for Growth" plan will help to unlock wider

economic growth. SSE already supports 67,000 jobs directly and through its supply chains and with this ramping up of investment, that number is expected to increase significantly.

SSE
http://www.sse.com/

12 November 2025

As risks multiply in a world thirsty for energy, diversification and cooperation are more urgent than ever

In an increasingly complex energy security context spanning a wide range of fuels and technologies, the World Energy Outlook 2025 identifies key choices, opportunities and trade-offs for governments

Countries around the world are contending with pressing energy security threats and growing longer-term risks across an unprecedented range of fuels and technologies, thrusting energy into the heart of geopolitical tensions and elevating it as a core issue of economic and national security. In this context, the latest edition of the IEA's World Energy Outlook underscores the need for governments to pursue greater diversification of supplies and increased cooperation with one another to help navigate the uncertainties and turbulence ahead.

The 2025 edition of the World Energy Outlook (WEO), the most authoritative global source of energy analysis and projections, covers a broad range of trajectories, highlighting different opportunities and vulnerabilities – but also commonalities. It does this through three main scenarios, none of which are forecasts. Each maps out a distinct energy future, enabling an analysis of the implications of different policy, investment and technology choices for energy security, affordability and emissions.

Among the many trends common to all the scenarios in this year's WEO is the world's growing need for energy services over the coming decades – with demand rising for mobility; for heating, cooling, lighting and other household and industrial uses; and increasingly for data and AI-related services.

In particular, a group of emerging economies – led by India and Southeast Asia and joined by countries in the Middle East, Africa and Latin America – comes to increasingly shape energy market dynamics in the years ahead. Collectively, they take up the baton from China, which accounted for half of global oil and gas demand growth and 60% of electricity demand growth since 2010, although no country or group of countries comes close to replicating China's energy-intensive rise.

Amid these shifts, traditional energy risks affecting the security of oil and gas supply are now accompanied by vulnerabilities in other areas, most visibly in supply chains for critical minerals due to high levels of market concentration. A single country is the dominant refiner for 19 out of 20 energy-related strategic minerals, with an average market share of around 70%. The minerals in question are vital for power grids, batteries and EVs, but they also play a crucial role in AI chips, jet engines, defence systems and other strategic industries. Geographic concentration in refining has increased for nearly all key energy minerals since 2020, and particularly for nickel and cobalt. Analysis in this year's WEO of the pipeline of announced projects suggests that reversing this process is set to be slow, calling for stronger action by governments.

"When we look at the history of the energy world in recent decades, there is no other time when energy security tensions have applied to so many fuels and technologies at once – a situation that calls for the same spirit and focus that governments showed when they created the IEA after the 1973 oil shock," said IEA Executive Director Fatih Birol. "With energy security front and centre for many governments, their responses need to consider the synergies and trade-offs that can arise with other policy goals – on affordability, access,

competitiveness and climate change. The World Energy Outlook's scenarios illustrate the key decision points that lie ahead and, together, provide a framework for evidence-based, data-driven discussion over the way forward."

Electricity is at the heart of modern economies, and electricity demand grows much faster than overall energy use in all scenarios in WEO-2025. Investors are reacting to this trend: spending on electricity supply and end-use electrification already accounts for half of today's global energy investment. For the moment, electricity accounts for only about 20% of final energy consumption globally, but it is the key source of energy for sectors accounting for over 40% of the global economy and the main source of energy for most households.

"Analysis in the World Energy Outlook has been highlighting for many years the growing role of electricity in economies around the world. Last year, we said the world was moving quickly into the Age of Electricity – and it's clear today that it has already arrived," Dr Birol said. "In a break from the trend of the past decade, the increase in electricity consumption is no longer limited to emerging and developing economies. Breakneck demand growth from data centres and AI is helping drive up electricity use in advanced economies, too. Global investment in data centres is expected to reach $580 billion in 2025. Those who say that 'data is the new oil' will note that this surpasses the $540 billion being spent on global oil supply – a striking example of the changing nature of modern economies."

A pivotal issue for energy security in the Age of Electricity is the speed at which new grids, storage and other sources of power system flexibility are put in place. For the moment, some of these elements are lagging. Investments in electricity generation have charged ahead by almost 70% since 2015, but annual grid spending has risen at less than half that pace.

Although the pace varies across the different WEO scenarios, renewables grow faster than any other major energy source in all the scenarios, led by solar PV. Notably, fresh analysis for the WEO-2025 maps the new geography of demand onto the distribution of global energy resources, showing that, by 2035, 80% of global energy consumption growth occurs in regions with high-quality solar irradiance. Another common element across scenarios is the revival of fortunes for nuclear energy, with investment rising in both traditional large-scale plants and new designs, including small modular reactors. After more than two decades of stagnation, global nuclear power capacity is set to increase by at least a third by 2035.

In WEO-2025, all the scenarios indicate ample global supplies of oil and gas in the near term. Oil markets already reflect this, with today's geopolitical fragility coexisting with oil prices in the $60-$65 per barrel range. A similar easing of market balances for natural gas appears imminent, as new projects for liquefied natural gas (LNG) exports come online.

Final investment decisions for new LNG projects have surged in 2025, adding to the expected wave in natural gas supply in coming years. Around 300 billion cubic metres of new annual LNG export capacity is scheduled to start operation by 2030, leading to a 50% increase in available global LNG supply. Around half the new capacity is being built in the United States, and a further 20% in Qatar. Natural gas demand has been revised up in this year's WEO, but questions still linger about where all the new LNG will go.

Easing near-term market balances for oil and gas are no cause for complacency, the report notes. Both markets remain exposed to geopolitical risks, and faster demand growth – in response to weaker energy transition policies or lower prices – could quickly erode what buffers they have.

In two critical areas of longstanding WEO analysis, the world is falling short on the goals it set for itself: universal energy access and climate change. Around 730 million people still live without electricity, and nearly 2 billion rely on cooking methods that are detrimental to human health. A new scenario in WEO-2025 outlines a country-by-country pathway to

reaching universal access to electricity in 2035 – and to clean cooking in 2040, with liquid petroleum gas (LPG) playing the biggest role.

With climate risks rising, WEO-2025 shows the world surpassing 1.5°C of warming in any scenario, including those with very rapid emissions reductions. The energy sector will need to prepare for the security risks brought by higher temperatures, but there is still scope to avoid the worst climate outcomes. The updated scenario in which the world reaches net zero emissions by mid-century brings temperatures back below 1.5°C in the long term.

At the same time, energy systems around the world are contending with the impacts of climate change today, underscoring the urgent need to build greater resilience to rising weather-related risks, as well as to cyberattacks and other malicious activity. New data analysed in this year's WEO shows that disruptions to critical energy infrastructure in 2023 affected more than 200 million households around the world. Power lines proved particularly vulnerable, with transmission and distribution grid damages accounting for about 85% of incidents.

IEA
http://www.iea.org/

13 November 2025

MISO to Include Southeastern Texas in South Long-range Tx Planning

MISO announced it will honor a request from Texas regulators and include southeastern Texas in its first long-range transmission study for MISO South. The grid operator earlier said it would start the process of drawing up planning studies for areas of Louisiana with heavy load pockets, marking the first long-range transmission plan for MISO South. (See MISO Kicks off South's Long-range Tx Plan with More Restrained Approach.) Now a portion of Texas will be part of the equation.

MISO Executive Director of Transmission Planning Laura Rauch confirmed that Texas regulators approached MISO to request that part of the state be included in the study and that MISO agreed. Speaking at a Nov. 11 Entergy Regional State Committee meeting, Rauch told South state regulators that MISO's approach to South long-term system planning would differ from the planning conducted in MISO Midwest.

Rauch said MISO Midwest had several years of membership before MISO proposed the first, $10 billion long-range transmission portfolio in 2022 followed by the second, $22 billion portfolio in 2024. "That journey took many, many years in the Midwest. … While I can't guarantee the outcome, I know the outcome will look very, very different in the South than in the Midwest," said Rauch, who emphasized different planning needs in MISO South.

Rauch said that over the course of 2026, MISO will assemble a study scope for Louisiana and Texas, build system models and hold discussions around potential needs in the South. "It's very likely that we'll need to do additional analysis," Rauch said. "Really, the goal is to practice the conversation around long-term needs." Rauch said MISO "may have to divide and conquer on" which issues to tackle first and could focus first on Louisiana before turning its attention to possible projects in southeastern Texas.

"My goal is for information at this point, not necessarily a certain amount of transmission approved," Rauch said. Arkansas Public Service Commission consultant Keith Berry asked if MISO has considered how to divide the costs of the projects.

Rauch said cost allocation negotiations "realistically" arise only when transmission needs are named. However, she said the first MISO South long-range planning — being limited to Louisiana and Texas — likely won't require the region-wide postage stamp to load cost allocation used in MISO's other long-range transmission portfolios.

"I will say with a focus on two states, I don't see a need for a multivalue project cost allocation," Rauch said. Rauch said she doubted that "engineering studies won't show

sufficient value spread" across the entire South region. Texas utilities Commissioner Courtney Hjaltman previously said she intended to ask the MISO board to include Entergy's Texas footprint when it begins work on a long-range MISO South plan.

"My request will be to include Texas, as we obviously have load growth that we need to have included in that study," Hjaltman said at the Oct. 23 Texas Public Utilities Commission meeting. Asked by an audience member why MISO's focus is on Louisiana, she said, "They are trying to really home in on certain areas and include Louisiana, and specifically New Orleans, which obviously had a load shed event this past summer, and that might be why, but there's just no reason that Texas shouldn't be included." At the Entergy meeting, Berry asked where MISO stands on launching a planning study aimed at increasing transfer capability between MISO South and MISO Midwest.

Rauch said at this point, MISO believes operational fixes and increased coordination on the transmission contract path are the best way forward. MISO no longer talks about a fourth long-term transmission plan portfolio, which it once said might result in an expansion of Midwest-South transmission.

RTO Insider
http://www.rtoinsider.com/

13 November 2025

2.4-GW New Jersey offshore wind project canceled by developer

An attorney representing Invenergy told the New Jersey Board of Public Utilities in a Friday filing that the company's 2.4-GW offshore wind project, Leading Light Wind, is canceled.

Invenergy "has determined it cannot move forward with the project under the terms and conditions set out" when the BPU awarded it offshore wind renewable energy certificates in January of last year, the filing said. Invenergy "regrets this decision … and looks to the future for possible solicitations."

"The [BPU] is well aware that the offshore wind industry has experienced economic and regulatory conditions that have made the development of new offshore wind energy projects extremely difficult," the filing said. Invenergy says it's North America's largest privately-held developer, owner and operator of clean energy solutions, with 36 GW of projects under its belt. Leading Light Wind was being developed off the coast of New Jersey and was set to become operational in 2030.

The filing cites financial, supply chain and regulatory obstacles as reasons the project is no longer viable. Invenergy and the project's co-sponsor, energyRe, sought several delays from the BPU as they failed to meet filing deadlines due to issues like an inability to find a turbine supplier, it said. Invenergy was granted a stay last September, then extended that stay three more times before filing about its intention to abandon the project.

In its May filing, Invenergy said that "given ongoing market and policy uncertainty, Leading Light Wind will continue to focus on meeting its lease obligations." The Friday filing said the company since concluded that it doesn't see a path forward for doing so. "The Company has invested considerable time and financial resources in the development of [Leading Light Wind] and remains firmly of the view that [Leading Light Wind], and offshore wind energy development, can provide significant benefits to New Jersey and its residents," the filing said.

Utility Dive
http://www.utilitydive.com/