

WEEKLY NEWSLETTER



6 to 12 october 2025

Power Regulatory & Policy:



India Overhauls Electricity Rules

India's Power Ministry released the Draft Electricity (Amendment) Bill, 2025 on October 9. It proposes open access for DISCOMs, clarifies ESS roles, and eases Captive Power rules to boost competition.

MNRE issues release mechanism for CFA under ULA model of PM Surya Ghar scheme

Funds will be disbursed only after rooftop solar systems are installed, inspected, and commissioned. Implementing agencies must use the national portal to initiate vendor-specific payments, ensuring transparency and uniformity across all proposals.

CEA Directs Utilities to Strengthen Quality Standards in Power Infrastructure

CEA has urged all power utilities to enhance quality assurance and adopt technologies like drone monitoring to ensure reliable, safe, and standards-compliant infrastructure..

CEA Drafts New Technical Rules for Solar, Wind, and BESS Construction.

The CEA drafted new regulations establishing technical standards for RE plants and BESS, including a 25-year life mandate for solar/wind and 70% minimum efficiency for battery storage.

Cyber Security Mandatory in Power Sector: CEA Draft

The CEA issued draft rules for power sector cybersecurity (CSIRT-Power) and updated technical standards for infrastructure, including renewable energy and battery storage systems. Andhra Pradesh's demand for transmission fee waiver troubles Adani solar deal

PM Modi Pushes for Fast-Tracking Arunachal's Dibang Dam Project

PM Modi reviewed the 2,880 MW Dibang Multipurpose Project, India's future highest dam, urging completion by 2032 for flood control and strategic security amid China's upstream dam. He stressed avoiding delays, cutting costs, and directed officials to ensure timely execution and reforms

Power Ministry Streamlines Residential Rooftop Solar Rules

The Power Ministry mandates a single digital application for residential rooftop solar, scrapping separate net-metering contracts. It also urged utilities to waive all application and testing fees, leveraging government incentives to drive the PM Surya Ghar program.

Maharashtra Launches SMART Solar Scheme with Extra Subsidy for Poor Households

Maharashtra has introduced the Swayampurna Maharashtra Residential Rooftop (SMART) Solar Scheme to support five lakh low-consumption and BPL households (with consumption less than 100 units) with up to 35% additional state subsidy for rooftop solar installations. Backed by ₹655 crore over two years, the plan complements the Centre's PM Suryaghar Yojana, aiming for near-zero bills and income from surplus power. MSSEDCL will implement and monitor the scheme till March 2027, prioritizing backward regions and promoting self-reliant, clean energy adoption

Renewables on a Roll: India Adds Record 25 GW in H1 FY26, Led by Solar

India's renewable energy sector achieved its highest-ever half-yearly capacity addition, hitting nearly 25 GW (excluding large hydro) between April and September 2025. Solar power was the biggest driver, contributing around 21.7 GW of the total, with wind adding 3.09 GW. Total cumulative RE capacity is expected to cross the 200 GW mark soon.

India power project taps captured carbon to make methanol

India's NTPC has produced methanol from CO₂ captured at its Vindhyachal coal power plant using Carbon Clean's technology. The system captures 20 tonnes of CO₂ daily, which is hydrogenated with green hydrogen using a custom catalyst to yield 99% pure methanol. Following success, a similar setup will produce ethanol at NTPC Simhadri, supporting India's net-zero and green hydrogen goals.

PM Surya Ghar Yojana Lights Up 5 Lakh Homes

The PM Surya Ghar Muft Bijli Yojana has reached 5.79 lakh applications with loans worth ₹10,907 crore sanctioned. Aimed at providing 300 units of free power monthly to on crore homes, the ₹75,000 crore scheme promotes rooftop solar adoption through collateral-free loans and easy digital access. It's boosting green jobs and advancing India's 500 GW renewable target by 2030.

India's Wind Turbine Exports Surge Elevenfold as Renewable Capacity Triples

India's clean energy exports are surging, with wind turbine exports growing elevenfold to USD 245 million (FY2025). Solar capacity reached 123 GW, confirming India as a global renewable hub.

Virudhunagar has highest solar power potential in Tamil Nadu

Virudhunagar leads Tamil Nadu in solar potential with 24 GW capacity; state holds 205 GW overall, ranking 7th nationally, per National Institute of Solar Energy report.

Clarke Energy Commissions First Membrane-Based Biogas Upgrader in India

Clarke Energy has commissioned its first membrane-based biogas upgrading plant in India at a Chennai waste site, aligning with the UK-India trade delegation. Locally designed and manufactured, the system supports India's SATAT bio-CNG initiative by converting 600 Nm³/hr of biogas into 97.4% pure biomethane.

Eastman introduces integrated inverter-battery system for solar users

Eastman Auto & Power Ltd launched Solar Access LIB — a 1,000-VA inverter with a built-in 150-Ah lithium battery, MPPT charging, remote monitoring, and plug-and-play solar-grid operation.

Dilip Buildcon JV Wins 100 MW Captive Solar Project from MP Jal Nigam

Dilip Buildcon's JV secured a 100 MW captive solar project for Madhya Pradesh Jal Nigam (MPJNM). The plant in Mandsaur will supply power at ₹2.09/unit for 25 years, diversifying DBL's portfolio.

Land-Saving Power: Punjab Expands Canal-Top Solar Capacity with New 40 MW Project

Punjab plans a 40 MW canal-top solar project on its irrigation network for optimal land use and to boost its 3,000 MW solar target by 2030. Power will be procured by PSPCL at a ₹3/unit benchmark tariff.

MNRE Orders Scrapping of Solar Tenders Issued to Bypass Domestic Cell Mandate.

MNRE ordered agencies to scrap recent solar tenders with short bidding times. This action prevents them from bypassing the domestic ALMM mandate for solar cells and ensures compliance with procurement rules.

UP hits 800 MW rooftop solar capacity, eyes 1,000 MW goal

Uttar Pradesh has reached 800 MW of rooftop solar capacity by September 2025, nearing its 1,000 MW year-end goal under NEDA. With over 2.39 lakh installations, UP leads India's rooftop solar push, favoring distributed systems over land-intensive solar farms. This space-efficient strategy supports urban and rural adoption, positioning UP as a national renewable energy frontrunner.

Rajasthan Greenlights 2,000 MWh BESS for Peak Hours

Rajasthan approves a 2,000 MWh Battery Energy Storage System to store excess solar power and supply it during evening peak hours, completing the state's current 6,000 MWh BESS plan and boosting grid stability.

TANFAC Doubles Solar Chemical Production Capacity

TANFAC Industries commissioned the second phase of its Solar Grade Dilute Hydro Fluoric Acid (DHF) plant, doubling its total capacity to 10,000 TPA. TANFAC is now India's only company producing this key chemical for solar energy customers.

Power Generation::

PGCIL to Re-conductor 400kV Lara–Raigarh Line under ISTS Scheme

PGCIL will re-conductor the 400kV Lara–Raigarh line in Chhattisgarh with HTLS conductors to resolve high loading issues. The ₹100.53 crore project includes NTPC's switchyard upgrades.

Six Private Companies Show Interest in India's Small Modular Nuclear Reactor Projects

Reliance, Tata Power, Adani, and three others have expressed interest in NPCIL's Bharat SMR projects across six states, aiming for captive low-carbon power using 30–300 MWe small modular reactors.

Arunachal Pradesh Launches First Commercial Coal Mine

Arunachal Pradesh launched its first commercial coal mine at Namchik- Namphuk, expecting \$100 crore+ annual revenue and jobs, overseen by Union Minister G Kishan Reddy.

Delhi to Strengthen VVIP Power Supply with New Substation and BESS

Delhi govt will set up a new substation and Battery Energy Storage System (BESS) in Civil Lines to ensure uninterrupted power to VVIP residences and key govt buildings. The plan reduces dependence on the 400 kV Mandola substation, adds a 220 kV backup at Timarpur, and includes SOPs for rapid outage restoration, enhancing grid resilience across north Delhi.



Bidding and PPA:

Prepare power purchase plan for winter: Sukhu

Himachal Pradesh Chief Minister Sukhvinder Singh Sukhu directed the state's Energy Management Centre to prepare a detailed action plan for power purchase during the upcoming winter season to ensure efficient management, maximize revenue, and minimize procurement costs.

Juniper Green, Tata Power sign PPA for 70-MW firm and dispatchable renewable energy Project

Juniper Green signed a 25-year PPA with Tata Power for a 70 MW hybrid renewable energy project in Maharashtra. The project combines solar, wind, and battery storage to provide reliable, on-demand power starting in 2027.

PVV Infra Secures ₹799 Cr Solar Projects, Signs 25-Year PPA in UP

PVV Infra has bagged two solar power projects totaling 209 MW in Uttar Pradesh, worth ₹799 crore. Its subsidiary, PVV EVTech, signed a 25-year PPA with UPNEDA for a 100 MW project in Baghpat and Moradabad, expected to generate ₹53 crore annually. Another subsidiary, PVV Housing, won an EPC contract for a 109 MW project in partnership with Nacof Oorja. The firm will expand through SPVs to enhance efficiency and focus on clean energy growth. advancement.

China built the world's first solar thermal power station with 27,000 mirrors

China's new solar thermal plant in Guazhou uses two towers and 27,000 mirrors to concentrate sunlight, storing heat at 570°C to generate electricity even after sunset. The dual-tower design boosts efficiency by 25% and reduces costs. Integrated into a clean-energy hub, it complements PV and wind, powering 500,000 homes and expanding China's renewable capacity.

Global Renewable Capacity Set to Double by 2030, Driven by Solar PV Boom, IEA Report Finds

IEA's Renewables 2025 report forecasts global renewable capacity to double by 2030 (adding 4,600 GW), with Solar PV (80% of growth) dominating. Renewables will surpass coal as the largest electricity source by 2026.

Clean Energy Technologies installs ORC systems for global industrial manufacturers in the United States.

Clean Energy Technologies and RPG Energy Group commissioned a Clean Cycle II Organic Rankine Cycle system at a Martin, Tennessee manufacturing site to convert residual process heat into electricity, reduce external power dependence, improve energy efficiency, and lower operating costs; the project is positioned as a replicable U.S. industrial heat-recovery model.

Green stocks are beating big indices, even Gold

The S&P Global Clean Energy Transition Index has surged nearly 50% since April, outperforming the S&P 500, gold, and oil benchmarks. Investors are betting on renewables to meet soaring AI-driven energy demand. Despite U.S. policy headwinds, global commitments remain strong. Lower interest rates and major fund launches are fueling capital inflows into green sectors.

New World Record Achieved for Efficiency in Large Triple-Junction Perovskite Solar Cells

Australian-led researchers achieved a new world record for efficiency in a large demonstration of triple-junction perovskite and silicon solar cell technology. The breakthrough involves a new design and more durable chemicals, improving the capability and durability of the cells and moving next-generation solar technology closer to commercial use and rooftop applications.

Japan's Aomori Prefecture Links Renewable Energy Tax to Land-Use Zoning.

Aomori Launches Variable Tax on Big Renewables to Protect Nature
.- Aomori, Japan, launched a new tax on large-scale wind (>500 kW) and solar (>2,000 kW) projects, with rates up to JPY 1,990/kW to protect the environment.

Renewables and Nuclear Surpass Coal as World's Top Power Source

For the first time (H1 2025), renewables (including nuclear) surpassed coal as the largest global electricity source, driven by strong solar and wind growth. This new clean power met all new demand, cutting fossil fuel use in China and India, despite increases in the US and EU.

Apollo Funds to Acquire Eagle Creek Renewable Energy

Apollo-managed funds are acquiring Eagle Creek Renewable Energy's 85 U.S. hydro plants (700 MW). The deal strengthens Apollo's energy transition portfolio, supporting clean power for rising demand.

Power Trading :

National Manufacturing Mission mitigates supply chain risks for India's clean energy transition.

India's National Manufacturing Mission (NMM) aims to reduce heavy import dependency for clean energy components like solar modules and batteries, which currently ranges from 20% to 90%. By promoting domestic production and onboarding over 500 MSMEs and startups, the mission seeks to retain capital investment, boost employment, and position India as a global cleantech exporter. Effective implementation is key to securing supply chains and meeting 2030 decarbonization goals.

Exchange price cap key risk for decarbonisation in India

India's utility-scale battery storage market faces uncertainty as exchange price caps threaten returns. With daily spreads at ₹7.5-₹9.1/kWh, a possible cut from ₹10 to ₹8/kWh could deter ₹6.6 trillion in investments needed for 2030 decarbonisation.

Tripura to Supply 40 MW Power to Mizoram for Christmas

Continuing their power exchange tradition, Tripura will supply 40 MW to Mizoram during Christmas, after Mizoram provided the same to Tripura for Durga Puja.

Investment & Funding:

Waaree Energies Announces ₹8,175 Crore Expansion Across Energy Storage, Electrolyser, and Inverter Manufacturing

Waaree Energies to expand energy storage (3.5→20 GWh), electrolyser (300→1,000 MW), and inverter (3→4 GW) capacity; invests ₹8,175 cr. Faces U.S. CBP probe on alleged duty evasion but pledges full cooperation.

Vedanta Pushes Demerger to March 2026 on Pending NCLT and Govt Approvals

Vedanta Ltd. has extended the deadline for its major demerger into six separate entities from September 2025 to March 31, 2026. The restructuring delay is due to pending statutory requirements, specifically the necessary approvals from the NCLT and certain government authorities.

Norfund Boosts Investment in SAEL Ahead of IPO

Norfund adds \$20 million to SAEL Industries, backing its solar and biomass expansion and signaling strong global confidence in India's renewable sector.

India's CleanMax Targets USD 586M IPO, Taps Markets to Clear Debt and Fund Expansion

CleanMax is preparing a ₹52 billion (USD 586 million) IPO slated for November. The offering includes ₹15 billion in new shares, designated for debt repayment, and a ₹37 billion secondary sale.

Delhi Minister Seeks Feasibility Report to Redevelop Defunct Rajghat Power Plant Site for New Secretariat

Delhi's PWD Minister Parvesh Verma requested a feasibility report on redeveloping the defunct 45-acre Rajghat Power Plant near ITO for the proposed new Secretariat. The site, which was shut down in 2015 due to pollution, is centrally located and is being considered alongside other options.



STOCKS AND SHARES:

Saatvik Solar secures ₹707 Cr order, validating 4 GW Odisha manufacturing expansion.

Newly-listed stock, Saatvik Green Energy, soared after announcing new orders worth Rs 707 crore for supplying PV modules. India's renewable energy capacity crossed 233 GW as of June 2025.

Technology:

MSEDCL and GEAPP Sign Agreement to Deploy AI and Storage for Grid Optimisation

The Maharashtra State Electricity Distribution Company Limited (MSEDCL) collaborated with the Global Energy Alliance for People and Planet (GEAPP) to enhance power infrastructure using Artificial Intelligence (AI) and Battery Energy Storage Systems (BESS). The focus is on digitisation, predictive analytics, and better integration of distributed renewable energy resources.

Shell, QAES Launch World's First Immersion-Cooled BESS

Shell (Shanghai) and QingAn Energy Storage (QAES) unveiled the world's first direct-cooled immersion Battery Energy Storage System in Chongqing. The technology, adapted from data centers, offers a safer, more energy-efficient alternative to traditional cooling methods for large-scale lithium ion systems.

Zoho's Sridhar Vembu Warns AI Boom Could Strain India's Power Grid

Zoho founder Sridhar Vembu cautioned that AI's surging power demand could overwhelm India's grid, with electricity costs rising sharply and data centers set to consume up to 50 TWh annually by 2030. He urged a shift toward more energy-efficient AI and sustainable digital infrastructure as India's generation capacity hits 777 GW but risks regional power deficits.

DENSO's Electrification Products Adopted for TOYOTA's New "bZ4X"

DENSO announced the development of new electrification products for the Toyota bZ4X electric vehicle, including a newly developed inverter featuring world-leading power density and a new Battery Management System with a 28-channel cell voltage monitoring IC, aiming to improve energy efficiency and driving performance.

Nominations Open for ISGF Innovation Awards 2026

ISGF invites nominations for its 2026 Innovation Awards recognizing excellence in smart grids, renewable energy, e-mobility, AI, and waste-to-energy projects.

EV Prices in India to Match Petrol Vehicles Within 6 Months: Gadkari

Union Minister Nitin Gadkari announced that electric vehicle prices will match petrol vehicles within 4–6 months. This aims to cut India's massive fuel imports and help the auto industry become the world's largest.

Toshiba to deploy AI-driven monitoring system at 165 power plant of NTPC, JVs

Toshiba JSW, the Indian arm of Toshiba Energy Systems, will deploy an AI-based monitoring system using EtaPRO for 165 NTPC plants to detect issues early, automate maintenance, and reduce downtime. Operations begin Spring 2027.

Smart meter drive helping bust myths, build user trust

A smart meter drive in Varanasi and Prayagraj verified 818 meters with 100% accuracy. Consumers can test meters via the DISCOM app, which also provides usage tracking and recharge options.

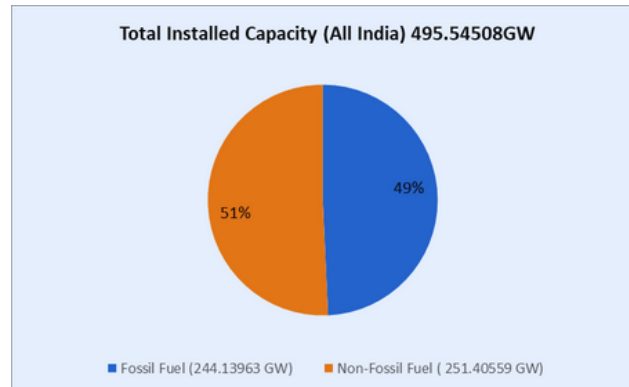
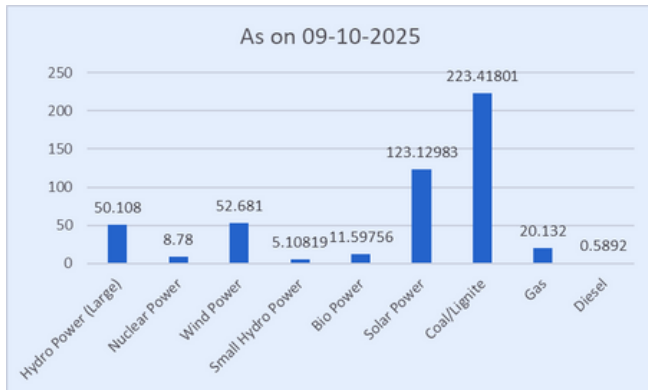
India's EV Sales Grow 12.5% YoY in Q3 2025, Crossing 7 Million Registrations

India sold 560,637 electric vehicles in Q3 2025, up 12.5% YoY, with two-wheelers leading at 56% and three-wheelers at 34.5%. EVs now make up 8% of total vehicle sales, supported by incentives under the PM E-DRIVE program.

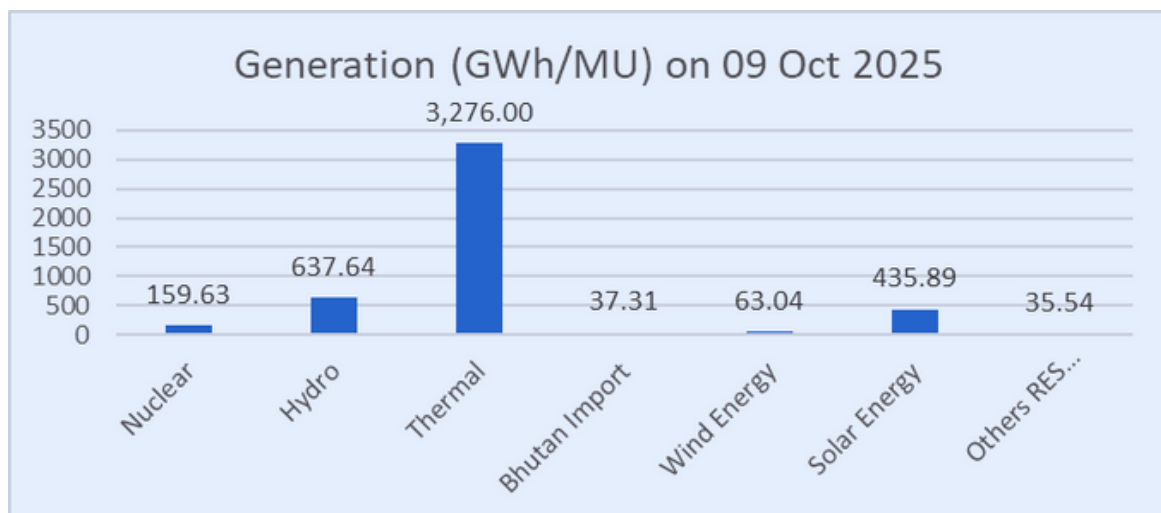


Facts & Figures:

Installed Capacity (GW)



Generation (GWh) on 02-Oct-2025



Power Exchange Market Snapshot (Week 42, 2025)

Day Ahead Market (DAM)



Green Day Ahead Market (GDAM)

