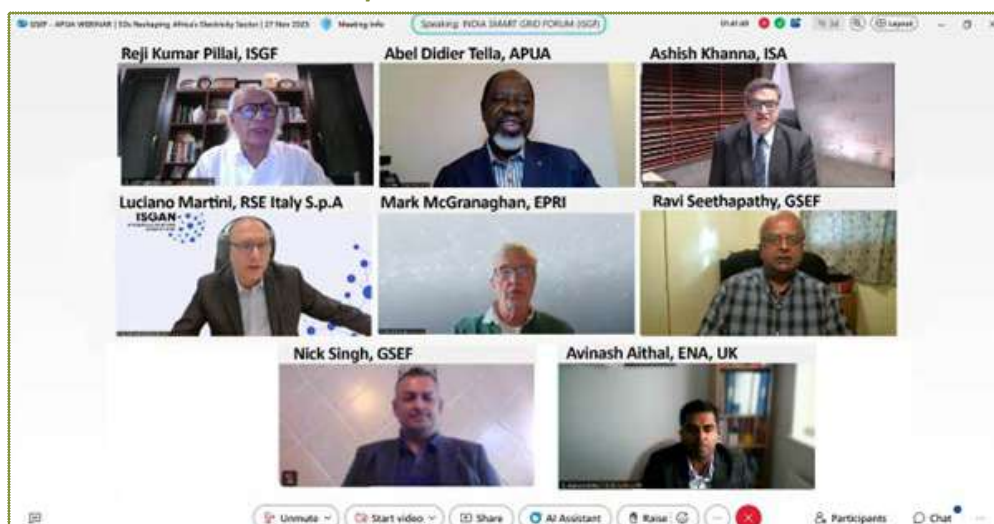




GSEF AND APUA'S JOINT WEBINAR ON 5 DS RESHAPING AFRICA'S ELECTRICITY SECTOR: DECARBONIZATION, DIGITALIZATION, DECENTRALIZATION, DISINTERMEDIATION, AND DECREASING CONSUMPTION

Global Smart Energy Federation (GSEF) and the Association of Power Utilities of Africa (APUA) jointly organized an international webinar on “5 Ds Reshaping Africa’s Electricity Sector” on 27 November 2025. The event drew strong participation from utility leaders, regulators, technology experts, development partners, and clean-energy innovators, reflecting the growing shift towards modern and sustainable power systems across the continent.



The key message of the webinar was Africa now has a unique opportunity to skip outdated power systems and move directly toward a cleaner, smarter, and more customer focused electricity future driven by the 5Ds.

Africa’s power sector is changing rapidly due to climate goals, fast urban growth, new technologies, and the rising need for reliable electricity. The 5Ds Decarbonization, Digitalization, Decentralization, Disintermediation, and Decreasing Consumption are transforming the way Africa will produce, distribute, manage, and pay for electricity in the future.

The webinar focused on what Africa needs to move forward; the right policies, fresh investments, new technologies, and stronger utility systems to build a power sector that is resilient, efficient, and sustainable.

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The Theme presentation was made by Reji Kumar Pillai, Chairman, GSEF and President, ISGF. The panel discussion was moderated by Mr. Abel Didier TELLA, Director General, APUA, and Mr. Ravi Seethapathy, GSEF Ambassador- Americas. Speakers included Mr. Ashish Khanna, Director General, International Solar Alliance, Mr. Luciano Martini, Chair of ISGAN, Mr. Avinash Aithal, Strategic Programme Director, Energy Networks Association (ENA), UK, Mr. Mark McGranaghan, Fellow, EPRI and Mr. Nick Singh, GSEF Ambassador - Anglophone Countries in Africa.

The webinar featured a distinguished panel of speakers from African utilities, global technology companies, regulatory bodies, and smart-energy organizations. Each speaker provided deep insights into one of the 5Ds and shared real-world lessons from across the African and global power sectors.

The recorded Webinar can be accessed at: <https://www.youtube.com/watch?v=EIITUM1XgYE>

GLOBAL STORIES ON SMART GRID

SP Group Signs Mou With Unvers to Develop Virtual Power Plant Platform in Singapore

SP Group has signed a memorandum of understanding (MoU) with Unvers to jointly develop and pilot a virtual power plant (VPP) platform in Singapore under the Energy Market Authority's regulatory sandbox. The initiative aims to aggregate and manage distributed energy assets across various sites, delivering grid services such as frequency regulation, contingency reserves, and energy optimization. The VPP will undergo deployment and integration testing in its initial phase, with plans for scalable national expansion in collaboration with key infrastructure and industrial partners.

Read More: <https://shorturl.at/7t2jN>

World Bank Partners with PDT to Develop USD 6 Billion Renewable Energy Corridor in Malaysia

The World Bank has partnered with Permodalan Darul Ta'zim (PDT) and Ditrollic Energy to develop the USD6 billion Southern Johor Renewable Energy Corridor (SJERC) in Malaysia. The project forms a key component of the Johor-Singapore special economic zone and is aligned with the Johor Green Development Policy 2030. The initial phase of SJREC will include up to 4 GWp of solar capacity and 5.12 GWh of energy storage on a 10,000 acre site in Kota Tinggi and Mersing districts. The corridor will supply clean electricity to local and multinational consumers, including data centres and industrial units in Johor.

Read More: <https://shorturl.at/Neeni>

India Web 3.0 Summit: Maharashtra to Pilot Tokenisation of Land Assets Using Blockchain

Maharashtra is set to become the first Indian state to implement tokenisation of land and real estate assets using blockchain technology - a move aimed at unlocking underperforming real estate value, improving transparency, and creating new avenues for monetisation. The state government is currently developing a sandbox pilot to test the entire process of asset tokenisation.

Read More: <https://tinyurl.com/54ypmune>

Existing EU Crypto Rules Address Stablecoin Risk, Banking Regulator

Europe's existing crypto rules already contain safeguards against risks posed by stablecoins, the region's banking supervisor told Reuters, after the European Central Bank warned that the tokens could threaten financial stability. The ECB and the European Systemic Risk Board (ESRB) have urged Brussels to ban the "multi-issuance" model, where global stablecoin firms treat tokens they issue in the EU as interchangeable with those outside the bloc. The ESRB, chaired by ECB President Christine Lagarde, said in a report that a rush by non-EU holders to redeem EU-issued tokens could "amplify runs within the bloc."

Read More: <https://tinyurl.com/n5dpx4na>



GLOBAL STORIES ON SMART GRID

Web 3.0 Market Size, Share and Trends 2025 to 2034

The global web 3.0 market size was estimated at USD 4.62 billion in 2025 and is anticipated to reach around USD 99.75 billion by 2034, expanding at a CAGR of 41.18% from 2025 to 2034. The web 3.0 market is driven by the metaverse's ascent. A virtual environment called the metaverse allows users to communicate with digital items and one another. With web 3.0 technology at its core, it is frequently regarded as the next evolution of the internet. The metaverse may transform the way we work, learn, and play.

Read More: <https://tinyurl.com/4ws6hwmw8>

Eyeing EV top Spot, Maruti to setup 100K Charging Points, Launch New Range

Maruti Suzuki India on Tuesday said it aims to drive in multiple electric models across body styles and set up charging infrastructure across the country as it looks to attain leadership in the segment. The auto major, which is gearing up to introduce its first electric vehicle model e Vitara next year, plans to set up around 1 lakh charging stations by 2030 in partnership with its dealer partners and charging point operators.

Read More: <https://tinyurl.com/7n3kwrj3>

Smart Grids Can Save ASEAN Billions and Unlock Clean Energy Growth

Renewable capacity in the ASEAN region has more than doubled over the past decade, and national targets continue to rise. Yet this rapid buildout coincides with fast-growing energy-intensive sectors, such as data centres, industrial parks, and manufacturing hubs, which require reliable, uninterrupted and verifiably sourced from renewables.

Read More: <https://tinyurl.com/yc6p767a>

World Breaks Renewable Records But Must Move Faster to Hit 2030 Tripling Goal

New global progress report flags bottlenecks in investment, grids and supply chains, urging governments for bolder renewable targets before COP30.

The world is falling behind on its renewable energy and efficiency goals despite record progress last year, confirms a new report released today by the International Renewable Energy Agency (IRENA), the COP30 Brazilian Presidency, and the Global Renewables Alliance (GRA) during a pre-COP30 high-level event in Brasília.

Read More: <https://tinyurl.com/3au43jts>

China Leads Next Wave of Humanoid Robotics Innovation

The humanoid robotics race is showing no signs of slowing down, with companies continually releasing smarter and faster models with an ever-expanding range of use cases. In the past week alone, a series of new releases from Chinese developers Unitree, Deep Robotics and Agibot have highlighted rapid advances in mobility, environmental adaptability and human-robot interaction.

Read More : <https://tinyurl.com/3tjzrbvw>

ABB Group to Sell ABB Robotics to Softbank for \$5.375b

SoftBank beefs up robotics portfolio — again - “SoftBank's next frontier is physical AI,” asserted Masayoshi Son, chairman and CEO of SoftBank Group. “Together with ABB Robotics, we will unite world-class technology and talent under our shared vision to fuse artificial super intelligence and robotics —driving a ground breaking evolution that will propel humanity forward.

Read More: <https://tinyurl.com/mt552sbt>



GLOBAL STORIES ON SMART GRID

Hyundai Motor Group Expands EV Energy Services With Vehicle-to-Grid and Vehicle-to-Home

Hyundai Motor Group is accelerating the worldwide rollout of its advanced Vehicle-to-Everything (V2X) services. These solutions enable electric vehicles (EVs) to store, supply and share electricity with homes and power grids, redefining the role of EVs as essential components of the global energy ecosystem. The expanded services include Vehicle-to-Grid (V2G) services in Korea and Europe and Vehicle-to-Home (V2H) service in the United States. The Group also announced the launch of a commercial V2G pilot in Jeju Island, Korea, and outlined plans for expansion into Europe and the US. The technology allows the new IONIQ 9 and Kia EV9 models to discharge battery power back into the grid during peak hours, effectively turning the EV fleet into a distributed Virtual Power Plant (VPP).

Read More: <https://url-shortener.me/2E5M>

World's First Large-Scale Semi-Solid State Battery Storage

The Wuhai 200MW/800MWh semi-solid-state battery ESS project of Lvfa Group achieved grid connection, becoming the world's first semi-solid-state ESS project to enter large-scale commercial operation, serving as a significant demonstration.

Read More: <https://shorturl.at/fWfBR>

ECFR Warns of Chinese Control over European Inverters

The European Council on Foreign Relations (ECFR) issued a report warning that Chinese-manufactured solar inverters—the “digital brains” of the grid—pose a remote-control security risk, urging the EU to treat them as critical cyber assets.

Read More: <https://url-shortener.me/2E50>

Massive 20 GWh Sodium-Ion Gigafactory in China

Sodium-ion technology is breaking out of the “pilot” phase into massive commercial scale, offering a cheaper, lithium-free alternative for stationary storage and low-range EVs. Guangde Qingna Technology officially signed an agreement for its 20 GWh sodium-ion battery production project in the Suining Economic and Technological Development Zone, Sichuan Province.

Read More: <https://shorturl.at/mWUv3>



ENERGY MARKET TRADING SOFTWARE: PRODUCT MANAGEMENT IN DEREGULATED ELECTRICITY MARKETS

Energy market product management represents one of the most technically sophisticated specializations within financial technology, yet remains largely invisible to the public. While most people imagine the electricity grid as straightforward—power plants generate electricity and send it down wires—the reality of modern deregulated electricity markets involves a complex ecosystem of algorithmic trading, real-time settlement mechanisms, and cutting-edge software systems that collectively manage billions of dollars in daily transactions. This analysis explores the product management discipline within energy market trading software, examining how professionals operationalize the intersection of electricity economics, regulatory frameworks, computational complexity, and user-centric design.

The Tech Reality: How Modern Energy Teams Build

There is a stereotype that energy companies are stuck in the past, managing everything via legacy mainframes. But if you shadowed a contemporary energy software team, you would realise that they operate exactly like a modern fintech engineering pod.

They are not just maintaining old systems; they are actively building new solutions.

Complex Business Logic: Teams don't simply "build forms." They define the mathematical models and logic that govern how trades are captured and settlements are calculated. They must ensure that software can handle complex deal structures and regulatory rules that change frequently. A single calculation error in settlement logic can cascade across hundreds of counterparties and represent millions in financial impact.

Frontend & Dashboards: Teams are constantly iterating on user interfaces. They design complex dashboards that allow traders to visualise massive datasets in real time. It is not just about aesthetics; it is about information architecture and fitting thousands of data points onto a screen so critical decisions can be made in seconds. The challenge is presenting density without overwhelming expert users.

Data is the Product: In many tech companies, "Big Data" is buzzword for analysing user behaviour. In energy trading, data is the most important factor. Teams ingest massive amounts of time-sensitive data and use advanced data engineering pipelines and visualisation stacks to make sense of this volatility. Latency requirements are measured in milliseconds, and data accuracy directly translates to financial stakes.

The Product Layer and Strategy

While engineering teams build the technology, the product manager's role is to ensure organisations are building the right things in a chaotic market. The process mirrors what you would find in any high-growth fintech company.

Discovery & Research: Product teams don't guess what features to build. They conduct deep user interviews with customers and operators to understand pain points. They observe how practitioners work to find bottlenecks in trading workflows, settlement procedures, and risk management processes.

MVPs & Iteration: When entering new market jurisdictions or supporting new products, teams don't build the entire solution immediately. They define an MVP (Minimum Viable Product)—getting the critical workflows live first and then iterating based on real-world feedback from traders, analysts, and compliance teams.

Prioritization: The hardest part of the job is not the technical work; it is the backlog. Teams must constantly prioritise feature requests from different stakeholders. Should they build a new settlement report for the finance team, improve the deal-capture workflow for traders, or enhance compliance controls for risk management? Balancing these competing needs is core to strategic product management.

The Core Challenges: Reliability and Data Density

The actual product problems solved in this domain are among the most difficult in the software industry.

The "Reality Gap": In most software roles, the data is static or predictable. In wholesale electricity markets, data is derived from physical reality—which is chaotic. The price of power changes if cloud cover shifts over a solar farm, if a transmission line fails, or if an unexpected demand surge occurs. Product teams must build systems that are resilient to this inherent chaos. They cannot design only for the "happy path." They must handle extreme scenarios: negative pricing events, massive data spikes, regulatory changes, and system stress conditions—all without breaking. In typical SaaS applications, a bug is an inconvenience. In energy markets, a calculation error has direct financial consequences for customers.

The UX Challenge—Designing for Experts: Users of these systems are power traders, settlement analysts, and risk managers—experts who need to process massive amounts of information instantly. The design paradigm differs fundamentally from consumer applications.

In consumer apps, the goal is often engagement (keeping users scrolling). In professional energy systems, the goal is efficiency: helping users find the answer and execute it in seconds.

The execution principle is counterintuitive: teams don't simplify data by hiding it. Instead, they simplify complexity through intelligent organisation. They design for data density, creating interfaces that allow expert users to scan through thousands of data points, spot anomalies, identify patterns, and execute actions in seconds without cognitive overload. This requires



sophisticated information architecture, visual hierarchy, colour coding, and adaptive layouts that work across different user workflows.

Conclusion

Product management in energy market software represents the frontier of financial technology complexity, combining distributed systems engineering, regulatory framework mastery, real-time computational demands, and sophisticated stakeholder management. These systems coordinate grid operations, determine how participants profit or incur losses, and influence how utilities and large consumers procure power.

For product managers seeking high-stakes problems where software directly impacts infrastructure reliability and energy policy, wholesale electricity markets represent the highest expression of contemporary product management—orchestrating extraordinarily complex systems at the intersection of physical electricity flow, economic market design, regulatory compliance, and cutting-edge software architecture.

By Shreya Naswa, Product Analyst at a Major U.S. Energy Firm

About the author: Shreya Naswa is a Product Analyst specializing in wholesale electricity markets and energy trading systems at a leading U.S. energy company. She works on software products that support real-time power trading, settlement operations, and grid reliability.

SOUTH AFRICA'S PATH TO RENEWABLE ENERGY: PROGRESS AND CHALLENGES IN 2025

In a significant pivot toward sustainable energy, South Africa has ramped up its renewable energy initiatives in 2025, as the country continues to grapple with the challenges of power shortages and the need for a reliable energy infrastructure. The drive towards green energy is a top priority for the South African government, which aims to reduce dependence on coal and address the climate crisis while creating jobs and fostering economic growth.

By the end of November 2025, Minister of Mineral Resources and Energy, Gwede Mantashe, announced that South Africa had achieved a milestone with renewable energy contributing more than 30% to the national grid. This report comes in the wake of the country's long-term energy plan, the Integrated Resource Plan (IRP), which aims for 50% of the energy mix to come from renewable sources by 2030. The shift has been propelled by substantial investments in wind and solar projects, with the government encouraging both domestic and foreign investments in the sector.

The recent progress is largely attributed to the government's successful bid windows, allowing independent power producers (IPPs) to contribute energy into the national grid. Notably, the latest round of bidding saw an overwhelming response from various stakeholders, with several private companies winning contracts to develop large-scale solar and wind projects across the country. Major cities like Cape Town and Johannesburg have seen numerous solar panels installed on homes and businesses, creating a visible testament to the renewable energy drive.

Despite these successes, there remain considerable obstacles. Eskom, the state-owned electricity supplier, has struggled to provide consistent power due to maintenance issues and aging infrastructure. Load shedding remains a critical issue affecting households and businesses alike. In response, the government is working on plans to strengthen Eskom while simultaneously integrating more renewable sources into the grid to alleviate some of these pressures.

Environmental advocates in South Africa have applauded the renewed focus on renewable energy but have also expressed concerns regarding the speed of transition. "While we welcome the increased investment in renewables, we cannot lose sight of the need for a just transition," said Tasneem Essop, CEO of WWF South Africa. "We need to ensure that communities reliant on coal and fossil fuels are supported as we shift our energy sources."

Furthermore, local communities are concerned about the socio-economic impacts of this transition. This has led to calls for more inclusive policies that consider the livelihoods of those employed in the coal industry. The government has promised ongoing consultations with communities to ensure all voices are heard in the energy transition process.

One exciting development is the government's partnership with international organizations to enhance grid resilience through advanced technologies. This includes energy storage solutions that can help balance supply and demand, which is crucial for handling the intermittent nature of renewable energy generation.

As South Africa moves closer to its renewable energy goals, the interplay of social equity, economic opportunity, and environmental sustainability will dictate the success of this transition. Policymakers and stakeholders must prioritize collaboration to build a more sustainable energy future that benefits all South Africans.

As 2025 draws to a close, South Africa stands at a crossroads, hoping to leverage the momentum gained in renewable energy while addressing the challenges that lie ahead. For ongoing updates, stay connected with SABC News on all social media platforms. For more in-depth reports, visit [sabcnews.com](https://www.sabcnews.com).

Article contributed by Nick Singh, GSEF Ambassador - Anglophone Countries in Africa





DECAGRID INTERNATIONAL SYMPOSIUM 2025: DRIVING THE TRANSFORMATION TOWARDS A SMART ENERGY NATIONAL

The DECAGRID International Symposium 2025, organized by the Indonesia Smart Grid Association (PJCI) and held on 21 October 2025 at PT PLN (Persero) Headquarters in Jakarta, marked a significant milestone in Indonesia's journey towards a smart, resilient, and sustainable energy system. With the theme "Empowering Smart Grids with Mission-Critical Networks," the symposium brought together policymakers, utilities, technology providers, academia, investors, and youth representatives to reflect on a decade of smart grid development and to chart a strategic roadmap toward 2035 DECAGRID International Symposium.

The symposium highlighted Indonesia's progress in renewable energy adoption, digitalization, and smart grid deployment while acknowledging persistent challenges such as funding constraints, national energy security, cybersecurity risks, and inter-island grid integration. Through the DECAGRID initiative, PJCI emphasized accelerating digital energy transformation using AI, IoT, data analytics, and advanced grid management systems to support Indonesia's Net Zero Emissions 2060 vision DECAGRID International Symposium.

The opening ceremony underscored strong institutional commitment, featuring senior leaders from the Indonesian Parliament, PT PLN, the Ministry of Energy and Mineral Resources, and PJCI. Speakers stressed that technology alone is insufficient—success depends on synchronized policy, investment, innovation, and human collaboration. The ceremonial Crystal Placing symbolized a shared long-term commitment to building a globally competitive smart energy ecosystem DECAGRID International Symposium.

A major highlight was the Grid Talk Series, which served as a strategic dialogue platform. Grid Talk 1 focused on smart grid outlooks, investment opportunities, and roadmap challenges, emphasizing regulatory alignment, renewable integration, and digital infrastructure. Grid Talk 2 addressed national energy defense, inter-island interconnection, and cybersecurity, reinforcing the importance of resilient infrastructure, secure digital systems, and cross-sector coordination to safeguard Indonesia's electricity network DECAGRID International Symposium.

Industry participation played a critical role. Companies such as Siemens, Huawei, and Schneider Electric showcased digital, AI-driven, and cybersecurity-enabled solutions for modern power systems. The Industry Smart Grid Awards 2025 recognized these firms for tangible contributions to Indonesia's digital energy infrastructure, reinforcing the importance of public-private collaboration in energy transition efforts DECAGRID International Symposium.

Youth engagement and innovation were equally emphasized. The Clash of Youth Energy Champion (COYEC) 2025 and the PJCI Paper Symposium provided platforms for young professionals and students to demonstrate knowledge, creativity, and research excellence in smart energy and sustainability. Additionally, PJCI's Innovation for Energy (PIE) 2025 honored start-ups and innovative ideas with strong potential for real-world implementation DECAGRID International Symposium.

In conclusion, the DECAGRID International Symposium 2025 reaffirmed PJCI's role as a catalyst for Indonesia's smart energy transition. By integrating policy dialogue, technology innovation, industry leadership, and youth participation, the symposium laid a collaborative foundation for achieving a resilient, digital, and sustainable national energy future DECAGRID International Symposium

Article contributed by Perkumpulan Jaringan Cerdas Indonesia (PJCI)



ELECTRICITY-WATER NEXUS: WILL TEST THE LIMITS OF URBAN GROWTH



Over the last few years, I have been thinking as to how future urban energy and water infrastructure would need to be built to cater to the burgeoning cities and their migratory influx. As cities expand, such infrastructure needs to keep pace. Water infrastructure needs power to treat and pump it. Thus, the electricity-water nexus.

A 2023 report published by UNESCO for UN-Water titled, "Imminent Risk of Global Water Crisis", describes 2 billion people (26% of global population) do not have safe drinking water and 3.6 billion (46%) lack access to safely managed sanitation. Another 2025 report by United Nations Department of Economic and Social Affairs (UN DESA, 2018) titled, "Global Urban Population

Far Higher Than Reported", projects 81% of the global population lives in cities and towns, compared to 58% reported using conventional definitions and 90% of the addition of 2.5 billion people (3.9 billion to 6.3 billion) by 2050, will occur in Asia and Africa.

Only 3% of the water on earth is fresh water, and of this less than 1% is readily accessible. Agriculture and industries account for 90% of water withdrawal with the latter segment dominated by textiles, beverage, automotive, and meat production. Per the IEA March 2023 report titled, "Global Water Consumption in the Energy sector by Fuel and Power generation type in the Stated Policies Scenario, 2021 and 2030", the largest fresh water use in the energy sector is (a) primary energy production/extraction (70%); (b) fossil-fuel power production (20%); (c) nuclear power production (7%); and (d) Renewables and Hydrogen power production (3%).

The water treatment sector consumes about 5% of global electricity consumption (desalination, wastewater and drinking water). The greatest consumer of electricity in cities is the water and sewerage sector, which accounts for 40% of total urban electricity consumption. Treatment facilities account for 35% (pumping 26% and aeration 9%) while water/sewage transport in pipelines accounts for the balance 5%.

Un-Water Report 2021 cites the number of city inhabitants lacking safe drinking water has increased by more than 50% since 2000. Most cities in developing countries do not provide water from their municipal infrastructure. Due to unplanned sprawls, drinking water is trucked into residential colonies by water-tankers and sanitation/sewage waste disposal is also pumped and trucked out. Often residential building complexes of 300 apartments see 8-10 water tanker supplies/day and 4-5 sewage pump trucks/day. Many building complexes have local RO (reverse osmosis) and filtration plants and processed grey water is used for toilet flushing.

Urban electricity demand is closely linked to (a) urban population growth and (b) economic activity and lifestyle. In other words, a stagnant urban population could still drive higher electricity demand due to increased economic activity and lifestyle choices. Annual average urban electricity demand growth is 5-7% in most developing nations. This growth does not factor potential increases in urban water/sanitation plants and supply lines.

To put the above electricity-water nexus in perspective, safely managed urban municipal drinking water and sewage treatment plants and piping systems would need to expand by 10x to meet this urban population growth by 2050. With 40% of the urban electricity demand driven by water/sewage infrastructure, the urban electricity demand needs to grow by 4x by 2050. This amounts to an annual electricity growth rate of 16% (400% over 25 years) which is unachievable. Urban utilities today are struggling with 7% electricity growth rates. This electricity growth of 16% would again drive up water requirements by 3.2% (20% of 16%) for power production. This water-electricity nexus never ends.

In my opinion, we need to rethink urban water/sewage infrastructure systems. The answer lies in mirroring last-mile, smart microgrid concepts (energy efficiency, smart metering, smart load-management). A few thoughts are given below:

1. Central large water/sewage treatment plants are conceptually simple, but they do not scale well and fail beyond a certain maximum load (water quality, pressure, leakage). Hence, distributed water treatment infrastructure with limited centralized architecture is potentially the answer. Technology is now available to effectively treat (and reuse water) on-site, with minimal sewage discharge. In-pipe disinfection solutions (UV, RO, ozone, microwave, etc.) exist to treat intake water, gray-water reuse and outgoing sewage. The discharged sewage could be as little as 10% of water intake, if processed/reused effectively.
2. Allow each commercial/apartment complex to have their own water/sewage mini plants. If done at a distributed level (even within each apartment or a wing) and aggregated to the housing complex level, the electrical power required for disinfection would be much smaller (like a small microwave per apartment). The levelized cost will be much less than large central systems that do not scale.
3. Water use must be regulated. Every dwelling should have a metered limit per month. Deploy smart water meters that do multiple roles - meter consumption, telemeter readings and even reduce or shut-off supply for excess consumption. This also limits dwelling expansions.



4. Provide incentives for saving water (say 5% reduction year over year). This will ensure market-based investments (low-flush toilets, low-flow shower/faucet, aerators, etc.).

In the olden days, each community managed its own water treatment systems. Technology is available now to make that happen at a lower cost than large central plants that cannot scale up. As illogical as it may sound, "Moving Back to the Future" is perhaps the best strategy, particularly for managing urban growth in developing nations. The electricity-water nexus will indeed test the limits of urban growth.

Article contributed by Ravi Seethapathy, GSEF Ambassador for Americas




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For Further Information, Please Contact
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Email: reena.suri@indiasmartgrid.org
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US - India Smart Energy Roundtable at DISTRIBUTECH

ISGF INVITES DELEGATES FOR DISTRIBUTECH 2026 IN SAN DIEGO

ISGF invites senior officials to join the Indian Delegation to DISTRIBUTECH 2026, scheduled from 02-05 February 2026 at the San Diego Convention Center, California, USA.

Since 2014, ISGF has been organizing delegations to DISTRIBUTECH offering Indian utilities, regulators, and technology companies an opportunity to engage with global experts and explore advancements in transmission, distribution, smart grids, AI-ML, DER management, cybersecurity, and grid modernization.

DISTRIBUTECH is North America's premier platform for utilities and technology providers, enabling unparalleled exposure to emerging solutions, business opportunities, one-to-one meetings, and site visits.

Please send your confirmation by 30 December 2025; for further details, kindly contact Ms. Reena Suri, Executive Director, ISGF, at reena.suri@indiasmartgrid.org



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International Events

07th – 08th October, 2025

Innovation for Cool Earth Forum, Tokyo
<https://www.icef.go.jp/>

30th Sept - 02nd October, 2025

APUA Annual Event, New Cairo, Egypt
www.congresasea.com

27th - 31st October 2025

Singapore International Energy Week,
Marina Bay Sands
<https://www.siew.gov.sg/>

18th - 20th November, 2025

Enlit Europe, Bilbao, Spain
<https://www.enlit-europe.com/>

18th - 20th November, 2025

Enlit Europe, Bilbao, Spain
<https://www.enlit-europe.com/>

02nd – 05th February 2026

Distributech International, San Diego, CA, USA
<https://www.distributech.com/>

10th - 14th March 2026

12th India Smart Utility Week
(Isuw 2026), New Delhi
<http://www.isuw.in/>

17th – 19th March 2026

EN26 Conference & Exhibition, Adelaide
Convention Centre, South Australia
[https://www.energynetworks.com.au/
events/en26-conference-exhibition/](https://www.energynetworks.com.au/events/en26-conference-exhibition/)

17th - 19th March 2026

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30th March - 1st April 2026

Egypt Energy Show – Egypes
Cairo, Egypt
<https://shorturl.at/tahpe>

25th – 27th March 2026

ASEAN (Bangkok) Smart Energy & Energy
Storage Expo 2026, Bangkok, Thailand
<https://www.aseancleanenergyexpo.com/>

26th – 30th April 2026,

25th WPC Energy Congress, Riyadh,
Saudi Arabia
<https://wpcenergy.org/>

19th – 21st May 2026

World Utilities Congress, Abu Dhabi
<https://www.worldutilitiescongress.com/>



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Texas State University



Arab Renewable Energy Commission



Association of Power Utilities of Africa

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