



LUMINARY STRATEGIES
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Architecting the AI Grid: Arushi Sharma Frank Unveils Global Flexibility Blueprint in Paris

Held in conjunction with CIGRE Paris at Rethink Electricity, Luminary Strategies Founder presents a masterclass on ERCOT's world-first Provisional Controllable Load Resource (PCLR) architecture and releases landmark technical paper.

PARIS & AUSTIN, TEXAS — Category Creator, Tech and Grids Architect **Arushi Sharma Frank** has originated the world's first technology-neutral, open-access load flexibility program. Designed for artificial intelligence factories, bitcoin/cryptocurrency mining, and large-scale industrial loads, this breakthrough framework allows load-seeking firms connecting in highly networked grid areas in Texas (ERCOT) to energize in under two years by registering on a provisional basis as a nodal controllable load resource [cite: 1].

In Paris, delivering her masterclass in conjunction with **CIGRE Paris** at [Rethink Electricity](#), Sharma Frank is sharing a global blueprint for replicating this approach [cite: 1]. Her session makes the critical case for why grid operators worldwide must transition from punitive administrative curtailment to automated, market-integrated operational dispatch [cite: 1].

Mastering the Architecture at Rethink Electricity Paris

Held in conjunction with CIGRE in Paris, [Rethink Electricity](#) is the premier executive forum from the International Rethinking Electricity Forum (IREF) focused on scaling electric power to AI, computing, and IT facilities faster, larger, at lower societal cost, and in alignment with the sustainability expectations of the next economy.

As detailed in her [confirmed speaker bio](#), Sharma Frank is a featured keynote speaker and masterclass leader demonstrating how global grid planners can preserve planning certainty while offering private market participants dynamic operational headroom [cite: 1].

Technical Paper Release: "PCLR Builds the Moat for AI Loads"

Coinciding with her Paris presentation, Sharma Frank has published a seminal technical paper documenting the journey and execution of this landmark framework: ["Prosperous Infrastructure Technical Value Stacker No. 1: PCLR Builds the Moat for AI Loads"](#) [cite: 1].

Key Takeaways from the Paper:

- **The Core Principle:** *"The grid provides the floor. The private sector must firm the rest."* [cite: 1]
- **Decoupling Planning from Operations:** Establishes Low Power Consumption (LPC) as the grid-backed, firm planning floor, while allowing conditional consumption up to Maximum Power Consumption (MPC) dispatched through Security-Constrained Economic Dispatch (SCED) [cite: 1].
- **"Bring Your Own Everything":** Replaces static flexibility classifications with dynamic, market-based private firming, inviting batteries, generation, software controls, and workload management to compete around grid obligations [cite: 1].

Luminary Strategies & Advised Venture Portfolio

Sharma Frank's infrastructure venture studio platform, **Luminary Strategies**, designs technical market policy while backing companies building the next generation of power and compute infrastructure [cite: 1]. Luminary has assembled a master portfolio ready to participate in this flexible architecture, connecting compute flexibility and power control system planes to build an indelible solution for powering critical US technology and human infrastructure [cite: 1]:

- **Emerald AI:** An Nvidia-backed unicorn specializing in AI workload computational flexibility.
- **Base Power Company:** A modern energy venture re-engineering distributed power systems.
- **Agentic Infrastructure:** A first-of-a-kind (FOAK) power development platform.
- **V-Wire:** A virtual firming and netting platform.
- **Powertown:** A commercial and industrial (C&I) battery startup.

About Arushi Sharma Frank

Arushi Sharma Frank is a Category Creator and Tech and Grids Architect who specializes in first-principles grid dispatch architecture [cite: 1]. She has pioneered multiple first-of-their-kind efforts in the energy sector, having authored and championed landmark energy policies, including:

- **ERCOT Provisional Controllable Load Resources (PCLR)** for rapid large-load energization (2025–2026) [cite: 1].
- **Aggregated DERs (ADER)** dispatch in ERCOT SCED (2022–2023).
- Auxiliary-integrated battery energy storage system (BESS) wholesale grid connection and microgrid switching rules [cite: 1].
- **Virtual Power Plant (VPP)** programs in Puerto Rico for residential solar/battery storage and the **Together New Orleans** Solar Battery Program in Louisiana.
- Independent advisory on grid resilience and rebuilding policy frameworks for **Ukraine**.

Her expertise is built on an elite career spanning the full arc of how technology powers America. Previously, she led **Tesla's** strategic market entry to launch its first US wholesale and retail energy businesses (advancing VPP and Megapack grid frameworks), built **Exelon-Constellation's** multi-market operator compliance program across nuclear, thermal, and renewable assets, and directed power policy at the **American Gas Association (AGA)** and **Electric Power Supply Association (EPSA)**.

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- White Paper Link:** [PCLR Builds the Moat for AI Loads](#)
- Conference Link:** [Rethink Electricity Forum \(Paris\)](#)
- Speaker Profile:** [Arushi Sharma Frank Bio](#)