

Resources —

Use AI Agents to Analyze Power Grid Optimization

Thanks for watching the session! Here are a few resources that are particularly relevant to what we covered:

Session Files

- [Create an account with Zerve and get 100 additional credits!](#)
- Session Prompt:

Build a synthetic power grid (~75 nodes, ~120 lines, ~18 generators) with realistic time-varying regional demand. Ensure total generation exceeds peak demand and is geographically distributed to avoid infeasibility. Include generator costs, capacity, ramp limits, and transmission constraints with losses.

Optimize generation and power flows over time to minimize total cost while meeting demand.

Create visualizations for: grid topology, demand over time, generator cost curves, unconstrained vs optimized peak flows, congestion heatmaps, ramp constraints, and nodal prices.

Also build an interactive dashboard focused on total cost, with controls for regional demand, generator capacity/cost, transmission limits, and outages. Show real-time impact on total cost as inputs change.

More Resources:

- [\[COURSE\] Introduction to AI Agents](#)
- [\[COURSE\] Building Agentic Workflows with LlamaIndex](#)
- [\[COURSE\] Building AI Agents with Google ADK](#)
- [\[COURSE\] Introduction to Optimization in Python](#)
- [\[COURSE\] Exploratory Data Analysis in Python](#)
- [\[SKILL TRACK\] Developing Large Language Models](#)
- [\[CAREER TRACK\] Data Analyst with Python](#)
- [\[TUTORIAL\] Optimization in Python: Techniques, Packages, and Best Practices](#)
- [\[TUTORIAL\] OpenAI Agents SDK Tutorial: Building AI Systems That Take Action](#)
- [\[TUTORIAL\] Haystack AI Tutorial: Building Agentic Workflows](#)
- [\[TUTORIAL\] Optimizing with Pyomo: A Complete Step-by-Step Guide](#)
- [\[BLOG\] LLM Agents Explained: Architecture, Frameworks, and Use Cases](#)
- [\[BLOG\] Agentic AI: How It Works, Benefits, Comparison With Traditional AI](#)
- [\[BLOG\] Top 10 AI Agent Projects to Build in 2026](#)
- [\[WEBINAR\] Data Science in the Energy Industry](#)
- [\[CODE ALONG\] Introduction to Creating AI Agents in Python \(Part 2: Hands on\)](#)

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