

PRESCOUTER

Forecasting Digital Demand to Future-Proof the Grid

Assessing the Impact of Data Centers, AI,
and Crypto Mining on Grid Load for EPRI
(2024–2030)



Business challenge

The EPRI, a leading nonprofit research institute advising utilities, regulators, and policymakers, needed clarity on a fast-emerging challenge.

Digital infrastructure, especially AI and crypto mining, was accelerating electricity demand in ways that traditional forecasts could not capture.

With projections scattered across inconsistent sources, the client needed a single, validated model to identify where and how grid pressures would intensify.

The goal was to enable more confident infrastructure, policy, and investment decisions across both mature and rapidly growing regions.



70+ regions

50

US states

**2**Canadian
provinces**1**Mexican
state**20 countries and 26 key cities in:**

Europe



Asia

Middle
EastLatin
America

Forecast Horizon

2024-2030

Data Sources

1000+ public reports, databases, and search engines
Interviews with subject matter experts

Model Inputs

Over 1 million
data points
analyzed

Strategic Output

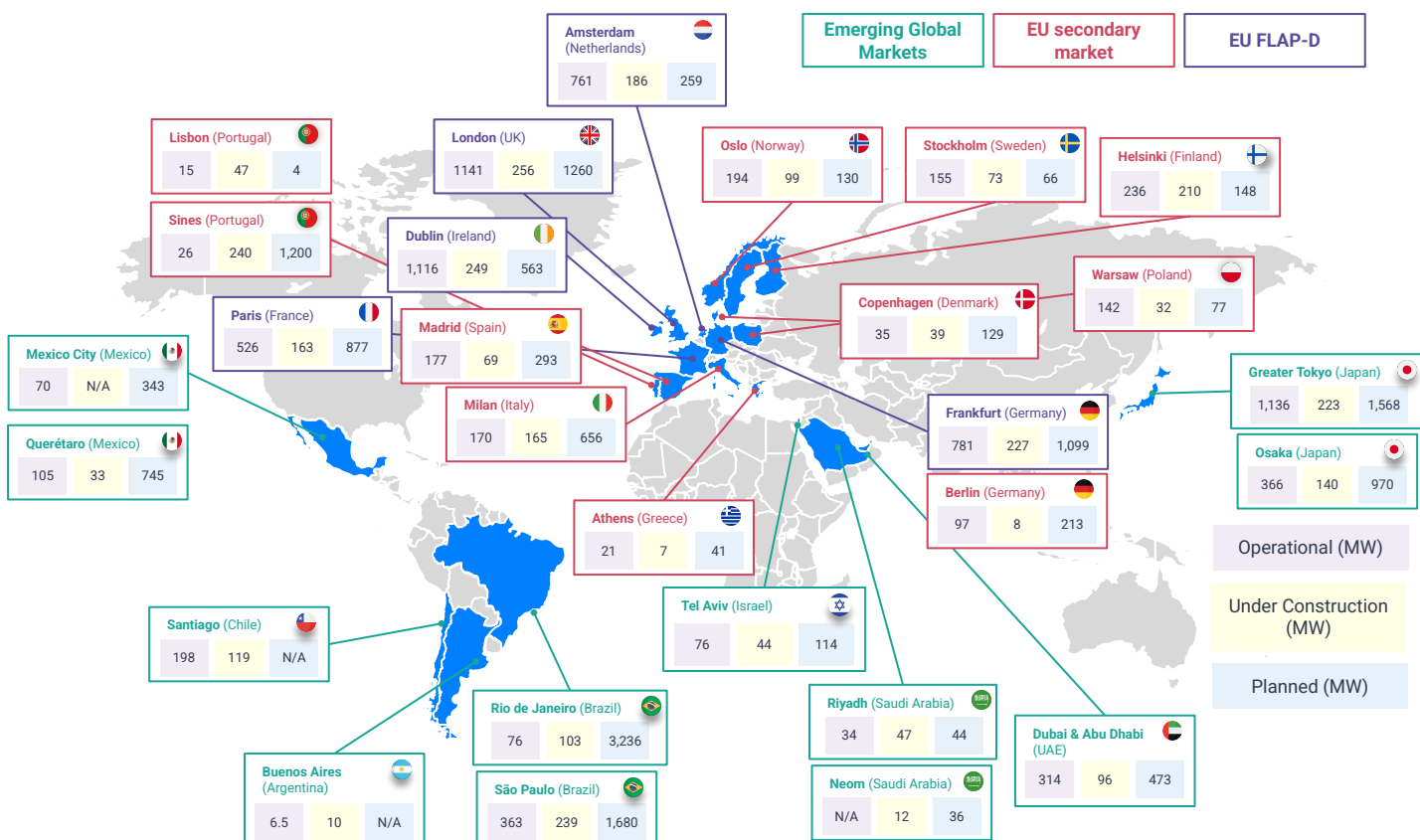
4 modular intelligence briefs
and two interactive dashboards
designed for scenario modeling
and cross-team alignment.

**A comprehensive
market intelligence
suite delivered in
under 3 months.**

Key findings

Mapping the global landscape, we identified that the current data center landscape is marked by the rise of Type B and Type C markets*.

Global Data Center Map



*The types of markets are masked due to client confidentiality.

5 Key Market Drivers



Grid
Reliability



Power
Availability
Specially
renewable energy



Land
Availability



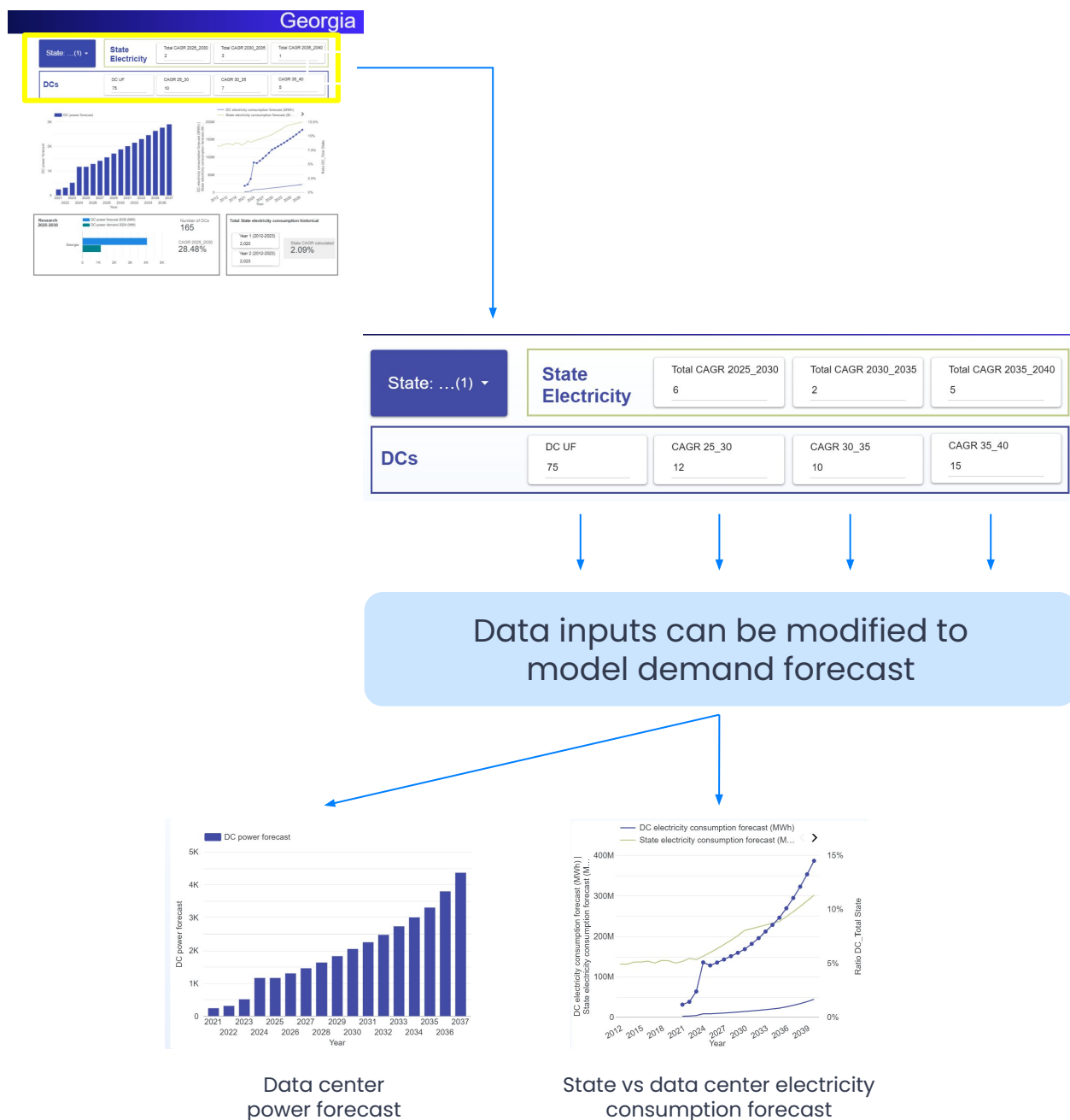
Connectivity
and Strategic
Location



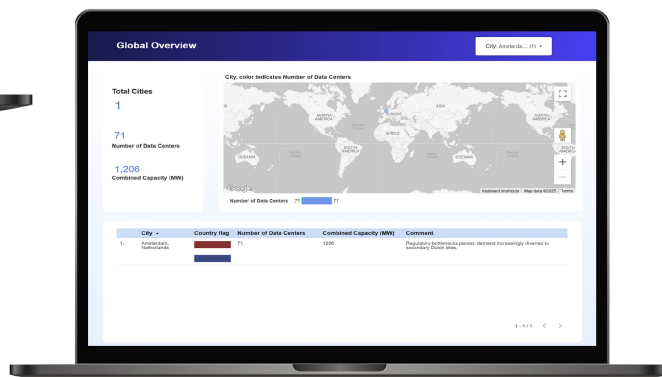
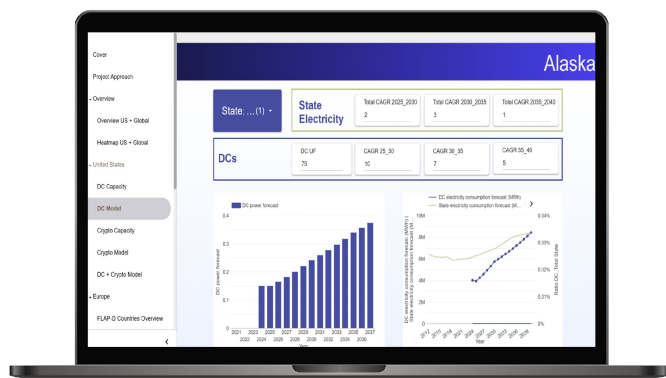
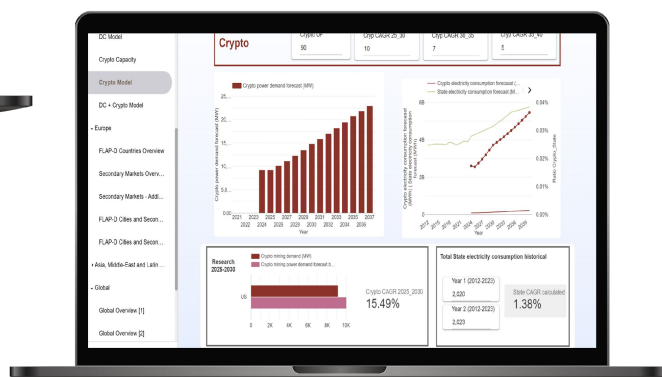
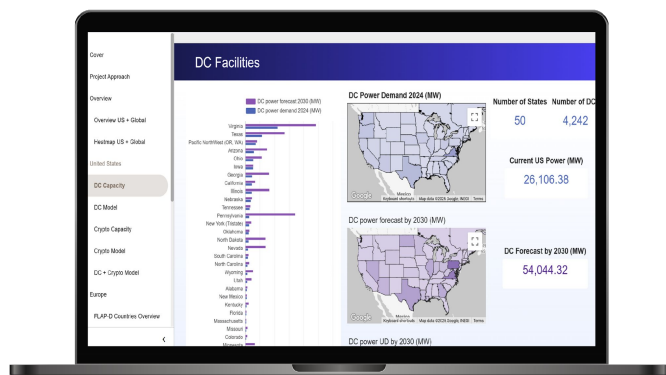
Supportive
Policy and
Regulatory
Environment

Key findings

For the US market, PreScouter created an interactive dashboard for scenario planning and forecasting of data centers and crypto mining.



The dashboards and reports were quickly adopted across multiple internal teams and are now being used to support infrastructure planning, regulatory strategy, and investment prioritization.



Client feedback

With data center markets and techs evolving so quickly, forecasting their impact on our members and energy demand in general is very complex. PreScouter's ability to identify, ingest, and interrogate real-time intelligence, analyze the key trends, and provide expert guidance enhanced the confidence in our model of this space. With PreScouter's support we were able to prepare for our live events faster and have richer insights to share with our members.

--- EPRI Team

What PreScouter provided me in 4 months could have taken us a year to complete. Their agile process and quick responses allowed me to more confidently understand the Data Center market at a granular level by segmenting individual countries and states as well as the impact of AI and Crypto on these regions. I trust PreScouter to provide data-based insights on not just what is happening today, but what the coming years will look like in this complex area.

--- Poorvi Patel, former Strategic Insight Manager, EPRI

About PreScouter

Strategic Intelligence Through Stage-Gated Research Excellence

Our Proven Approach



Intelligence Briefs

Break topics into focused research segments



Bi-Weekly Reviews

Progress reviews & objective setting for next iteration



Actionable Insights

Strategic recommendations for immediate implementation

What Clients Rely On Us For



Technology Intelligence

- Technology & company landscaping
- Market trends, analysis & research
- Market sizing & forecasting
- Supplier identification
- Sample procurement



Research & IP

- IP landscaping & analysis
- Regulatory landscape mapping
- Academic literature reviews
- Partner vetting & due diligence



Competitive Intelligence

- Competitive landscape mapping
- Trends identification & analysis
- Early warning & monitoring systems
- Industry expert consultations



Data & Analytics

- Custom dashboards & platforms
- Anonymous market outreach
- AI consumer insights
- Data analysis & recommendations

Comprehensive Primary & Secondary Research Sources

Technology & Company Landscaping

Supplier Identification

Sample Procurement

Market Trends, Analysis, Research, & Sizing

Regulatory Landscape

Trends Mapping

Anonymous Outreach

Academic Literature Review

Partner Vetting & Due Diligence

Early Warning, Monitoring, & Detection Systems

Consult With Industry Subject Matter Experts

500+ Subject Matter Expert Interviews Annually