



enignum

The Global Generative AI for
Energy Sovereignty and
Strategic Defense

2025

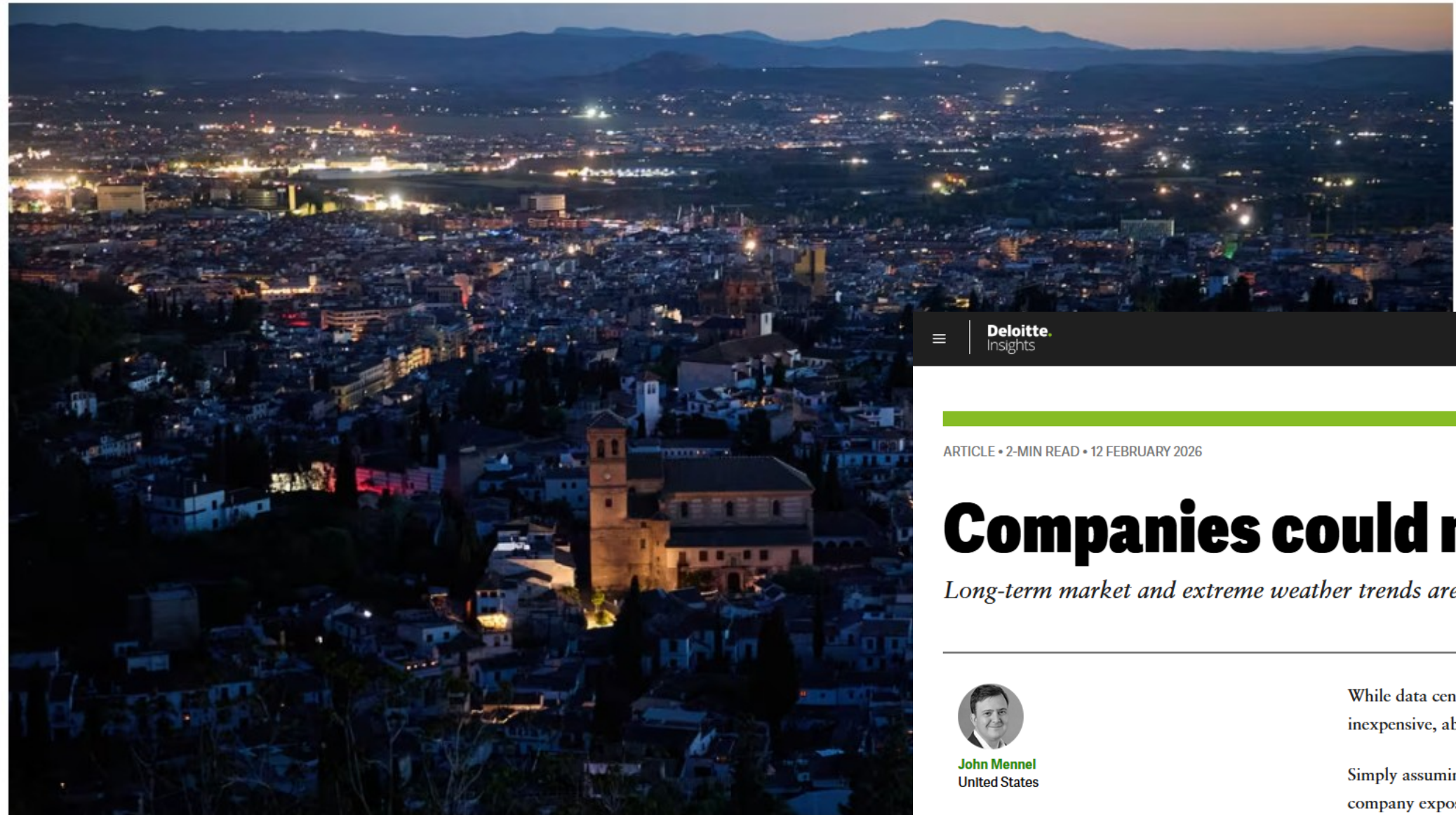
2026

World / Europe

Spain says April blackout was caused by grid failures and poor planning, not a cyberattack

Story by the Associated Press

3 min read · Updated 9:09 PM EDT, Tue June 17, 2025



A general view of the city of Granada, with the Alhambra, is plunged into outage that affects Spain nationwide in Granada, Spain on April 28, 2025.

<https://edition.cnn.com/2025/06/17/europe/spain-april-blackout-not-cyberattack/index.html>

POLITICS | GERMANY

Berlin blackouts cast light on infrastructure in Germany

Ben Knight
01/10/2026

An attack that knocked out power in a Berlin suburb raises concern about German infrastructure and disaster readiness. What can and should the country be doing?

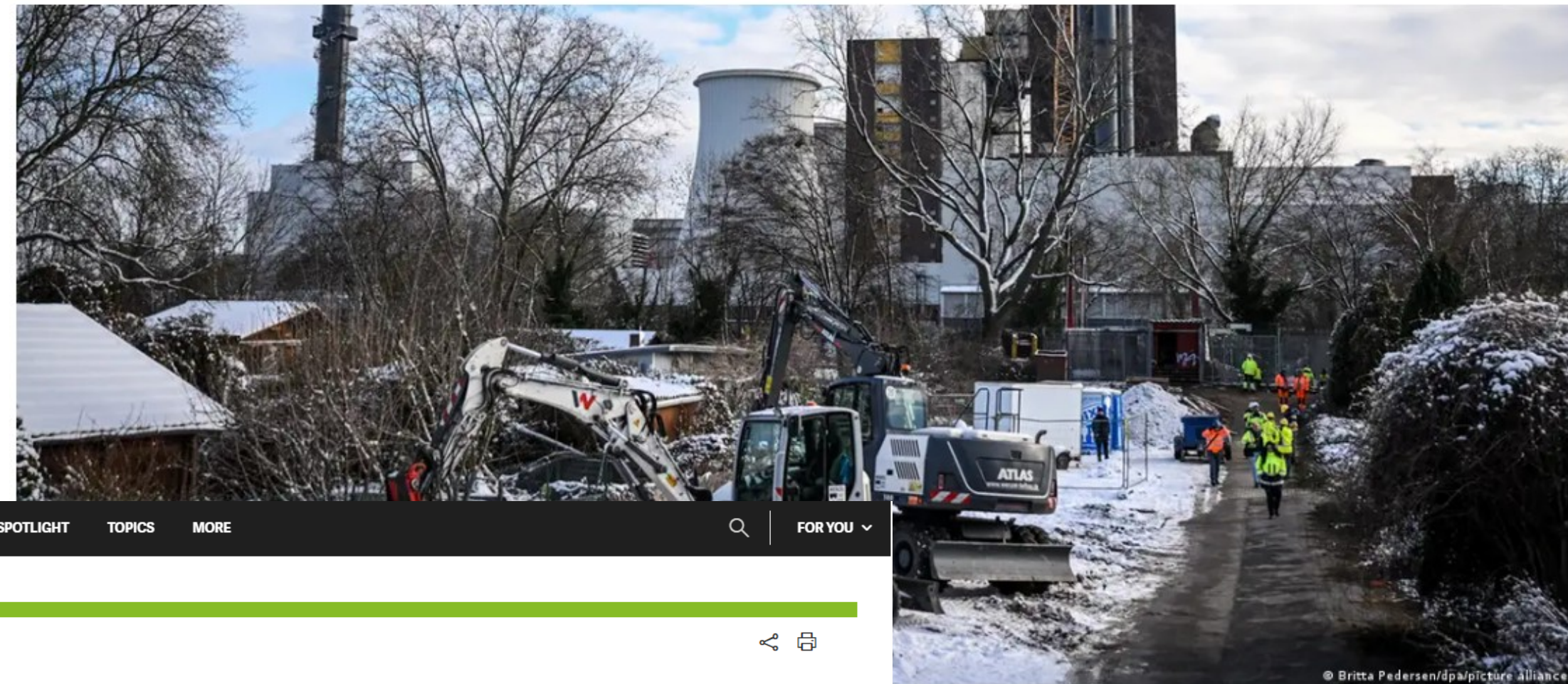


Image: Britta Pedersen/dpa/picture alliance

h-germany/

ARTICLE • 2-MIN READ • 12 FEBRUARY 2026

Companies could need energy sovereignty, too

Long-term market and extreme weather trends are putting some companies' energy supplies—and growth strategies—at risk



John Mennel
United States

While data centers often get blamed for straining US grids these days, the quest for inexpensive, abundant electrons is as old as Edison's Pearl Street Station.

Simply assuming that power will be there when you flip the switch could leave your company exposed to outages and price spikes. It could be a good time to think about pursuing your own version of energy sovereignty—a term first used in the 1970s but that has now become a hot topic as governments and communities look to make their energy supply less dependent on market shifts and geopolitical tensions.

The rising severity and frequency of extreme weather, combined with fraying energy infrastructure, is leading to more frequent and prolonged outages. The average length of the longest US power outages jumped more than 60% between 2022 and 2025.¹ The annual costs for US businesses most affected by reduced power quality events were estimated at nearly \$60 billion in 2022—before the average length of power outages increased.² Those numbers are likely going to get worse before they get better with demand and extreme weather events expected to increase.

<https://www.deloitte.com/us/en/insights/topics/business-strategy-growth/companies-could-need-energy-sovereignty-too.html>

- Suche
- Topographie
- Erneuerbare Energien
- Konventionelle Energien
- Speichertechnologien
- Infrastruktur
- Administrative Gebiete
- Gebäude
- Sonstige Gebiete

AI Center

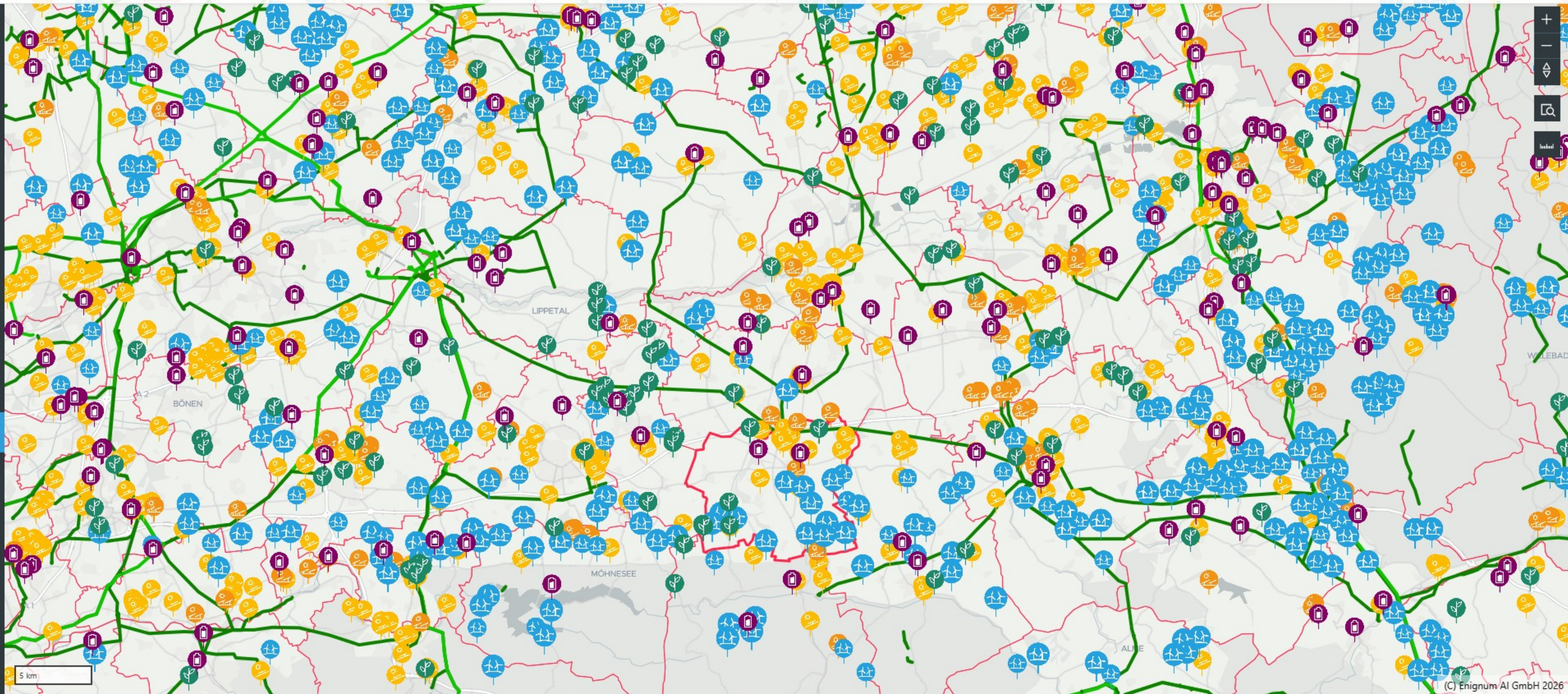
AI Assistant

Image Recognition

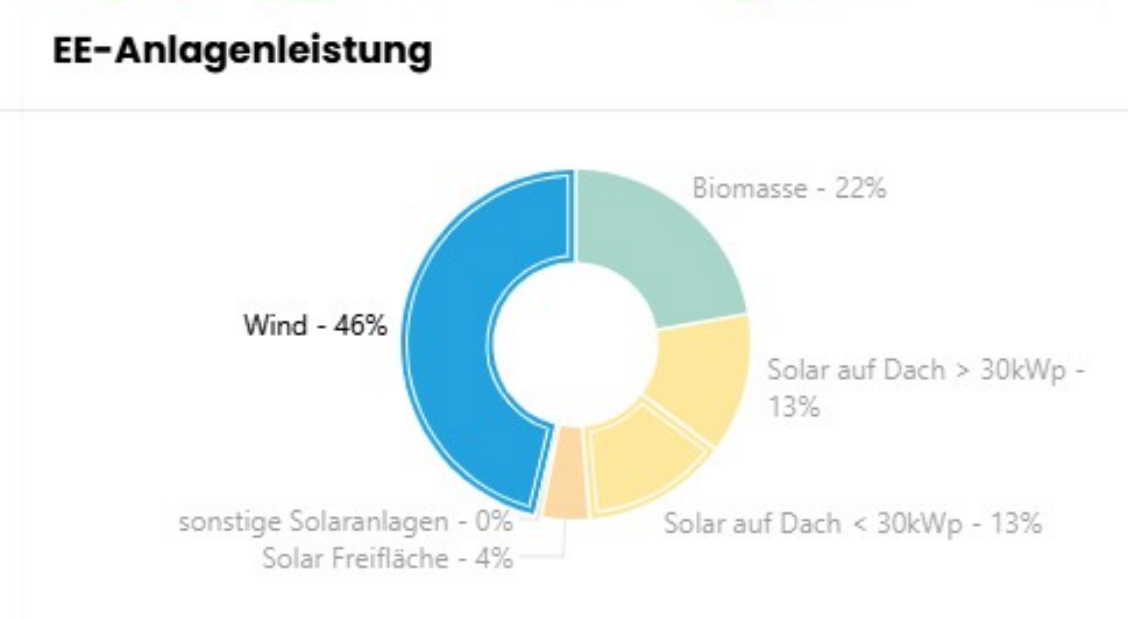
- Roof types
- Flat roof
 - Gable roof
 - Shed roof

Energy infrastructure

- Power plants
- Substations
- Transformer stations
- Power lines



Objektinfo			
Gemeinde			
Name:	Anröchte	Bundesland:	Nordrhein-Westfalen
Landkreis:	Soest	zuletzt aktualisiert:	25.04.2023
Fläche:	7.383,8 ha	EE-Gesamtleistung (in Betrieb):	100,84 MW
Einwohner:	10.397	Gemeindeschlüssel:	05974004
Regionalschlüssel:	059740004004	NUTS:DE:	DEA5B
Anzahl Ladesäulen:	5	Leistung Ladesäulen:	171 kW



Suche

Topographie

- Karte
- Satellit 1
- Satellit 2
- Satellit 3

Erneuerbare Energien

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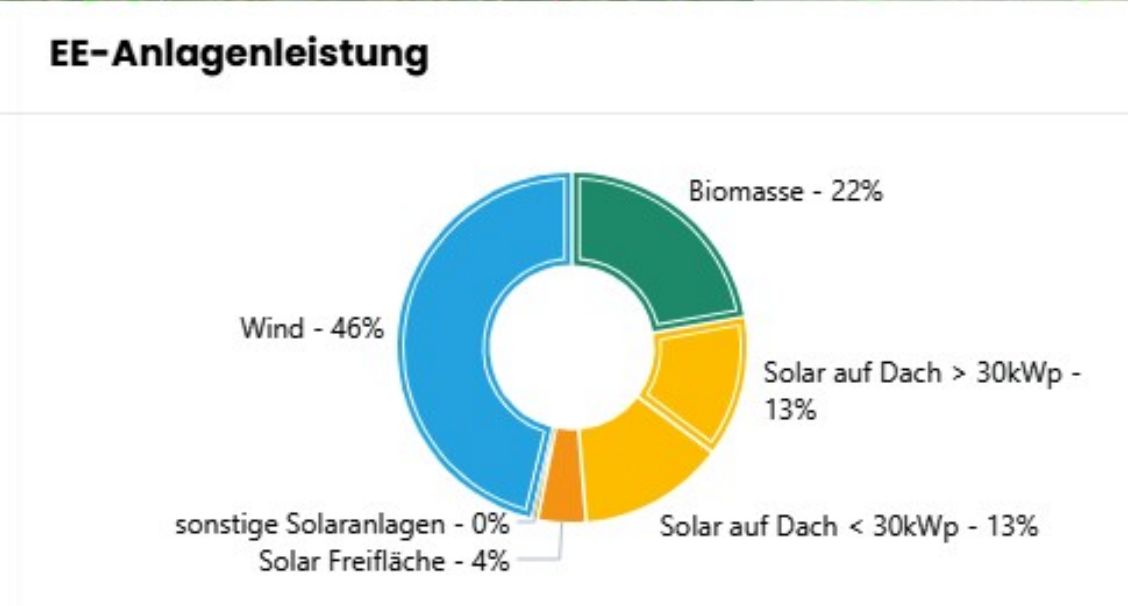
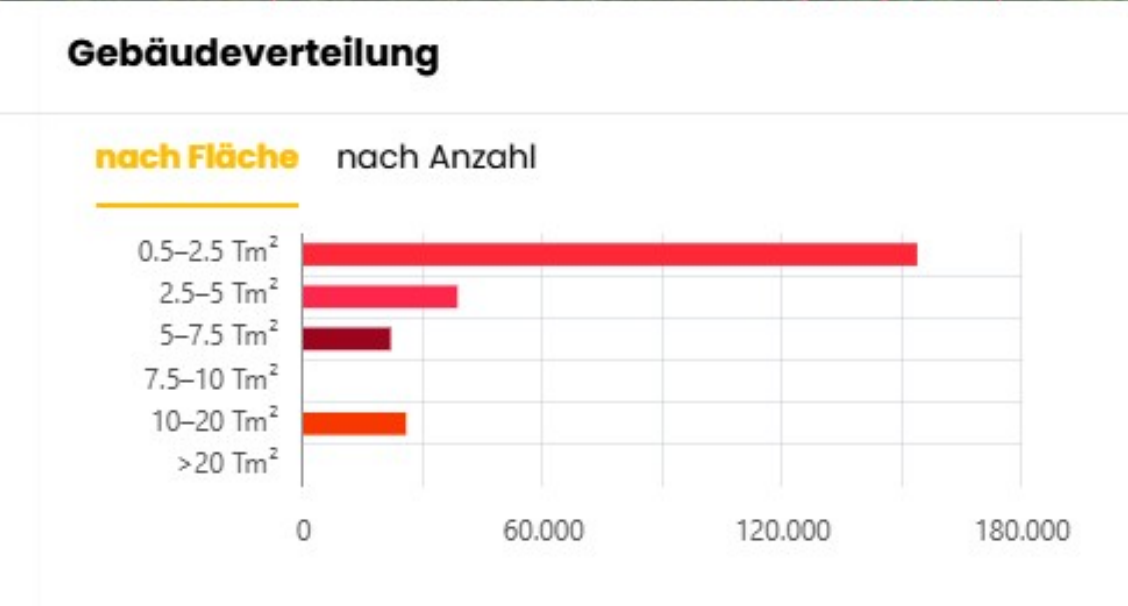
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Improvement

From reactive firefighting to predictive energy sovereignty

Reduce outage losses: US businesses lost ~ **USD 60B** in 2022 from power disturbances – and rising¹

Outrun demand shock from AI/ data centers with spatial forecasting + scenario simulation²

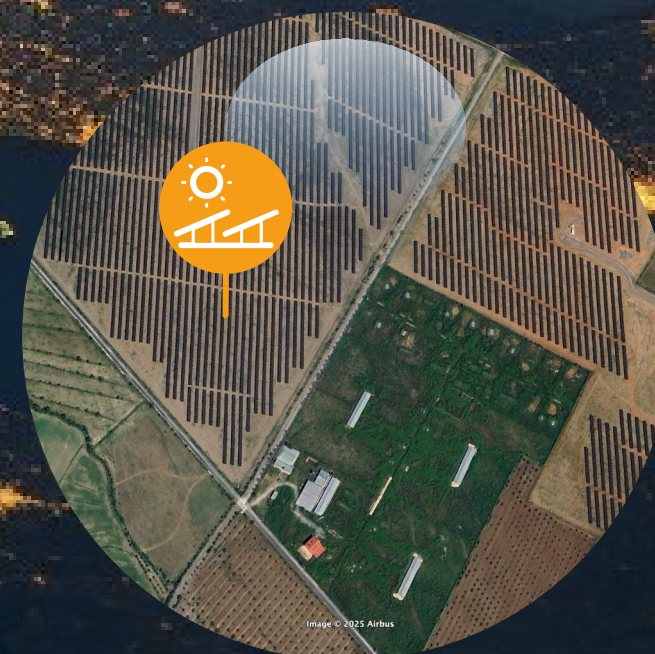
Unlock up to 40-50% lower electricity procurement costs by identifying and planning local generation + storage near industrial loads

¹ <https://www.deloitte.com/us/en/insights/topics/business-strategy-growth/companies-could-need-energy-sovereignty-too.html>
² <https://www.iea.org/reports/energy-and-ai/energy-demand-from-ai>

³ Range depends on load profile, self-consumption rate, local grid tariffs

Enignum® Technology

Space-Driven. Scalable. Secure.



Earth Observation (EO) powers ENIGNUM's high resolution digital twins of energy systems and infrastructure

The AI Backbone of Enignum®

Built to Simulate. Trained to Predict.

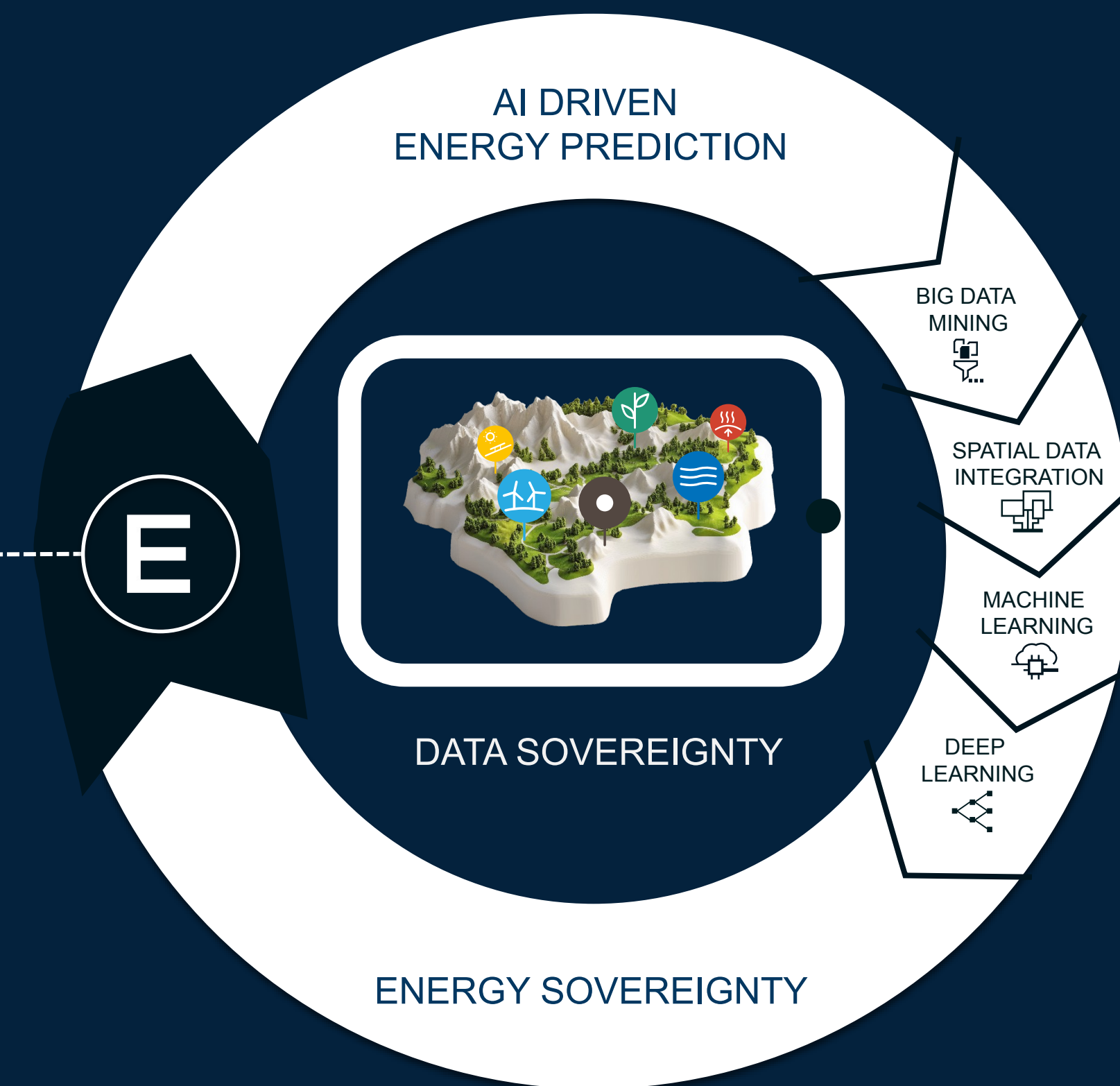


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ORACLE

Oracle is the global
technology partner of
Enignum®



Cumulative installed capacity GW	Power demand TWh	Population (million)	Number of power plants
270	550	84	5.000.000

Winner
Oracle AI Developer
Excellence Award
EMEA (2026)

Seamless integration of sovereign and third-party data - Earth Observation, satellite imaging, spatial data, economic indicators, grid telemetry, and national datasets – powers Enignum’s generative AI models



the future of energy belongs to those ready to command it

enignum

Intelligence for Energy Sovereignty

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Hamburg, Germany

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