

KEIN BADESCHLAPPENTEHMA

The role of AI in Germany's road to zero emissions



UNETIQ



KI BUNDESVERBAND

Energy Transition
Potential

Predictions

Simplified Grid
Participation

Optimization

Predictive
Maintenance

Maintenance &
Repair

Safety
Measures

Technical
Maturity

Gridhound GmbH

Making Grids Smart

- Automatically learns behavior of power distribution grids
- 95% reduction in necessary sensors for grid monitoring
- Recommendations on expansion of existing grids

An aerial photograph of a wind turbine in a field, with the turbine's shadow cast long across the ground. The image is darkened to serve as a background for the text.

EnergyCortex GmbH

Optimising Usage

- Platform that combines multiple data sources (providers, smart meters, etc.)
- Automatically detects anomalies & saving potentials
- Forecasts energy production and consumption

The background of the slide is a photograph of several solar panels tilted at an angle, silhouetted against a sky with soft, orange and yellow light from a low sun, likely during sunset or sunrise. The panels are connected by thin cables and are part of a larger solar farm installation.

Digital Twin Solar

Leveraging Data

- Cooperation of Start-Ups, Corporates and Universities
- Digital Twin of Solar and Battery Components
- Exploration of possibilities, like predictive maintenance or increased efficiency

**Strom-
Einspeisungs-
gesetz**



1991

Worlds
first green
electricity
law

**Erneuerbare
Energien
Gesetz**



2000

Priority for
green
electricity

**Fukushima
Catastrophe**



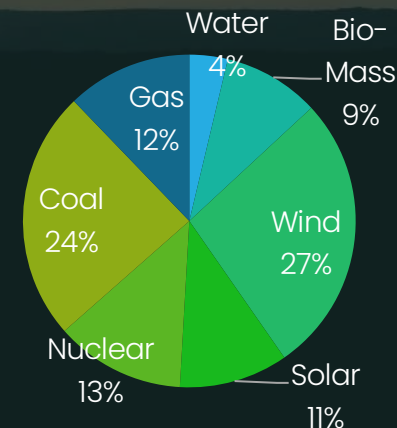
2011

Turning
away from
nuclear
energy

**50.5%
Renewables**



2020



**Nuclear Power
Stop**



2022

**-55% GHG
reached**



2030

**Coal Power
Stop**



2038

**>80%
renewables,
Climate-neutral**



2050





- > 400 universities
- > 100 new AI professorships until 2025
- University – StartUp cooperation programs



- Growing Start-Up Ecosystem
- Strong Industry and collaboration hubs
- Corporate Accelerator Network



- 5 Billion German federal investment until 2025 into AI
- Lighthouse projects to accelerate climate projects
- Regional investments in every federal state

Lucas Spreiter

✉ lucas@unetiq.com

in linkedin.com/in/lucas-spreiter

M medium.com/unetiq

