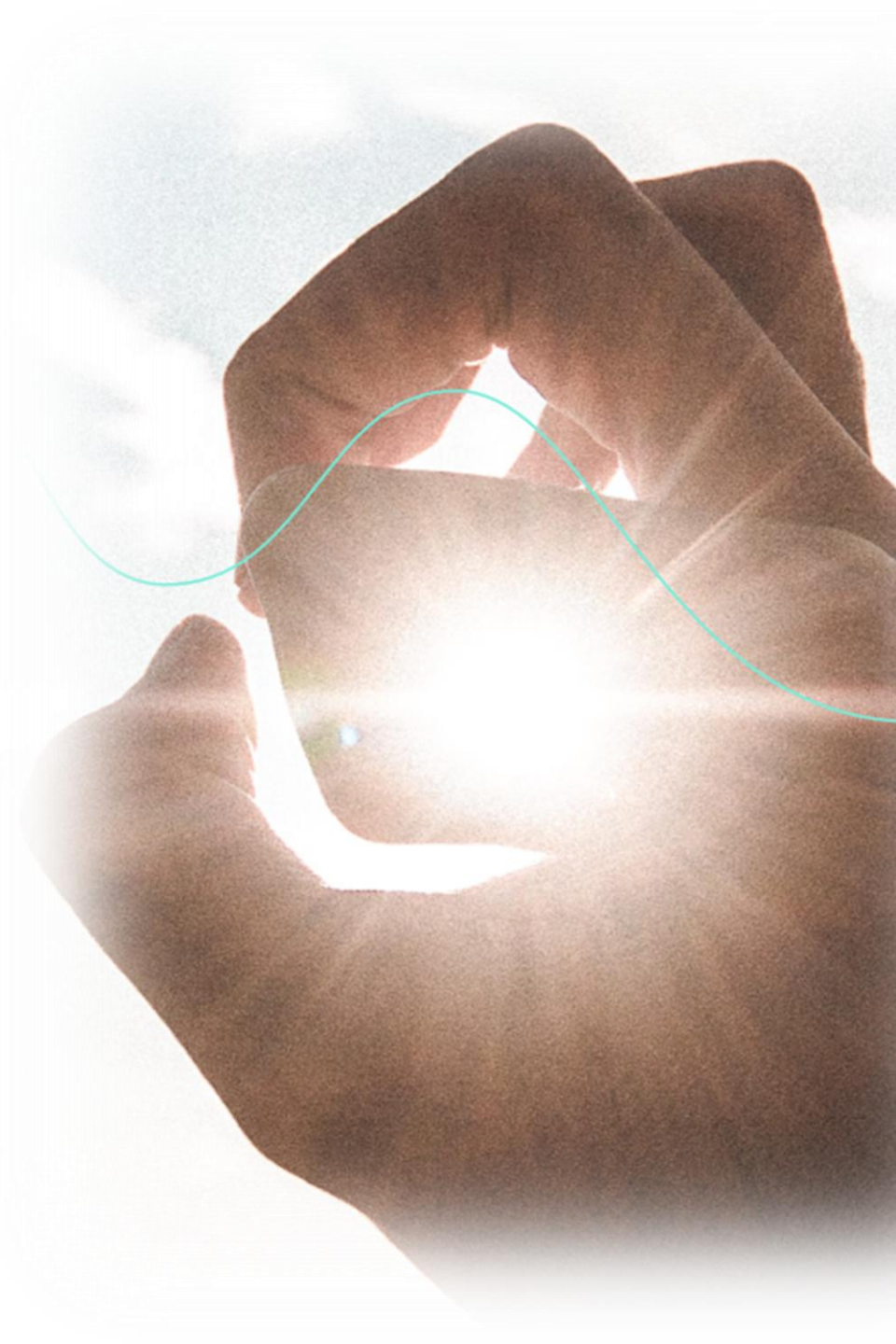
alitiq

Innovative AI-based forecasts

of weather-dependent processes

for the energy industry



6 CLEAN WATER AND SANITATION

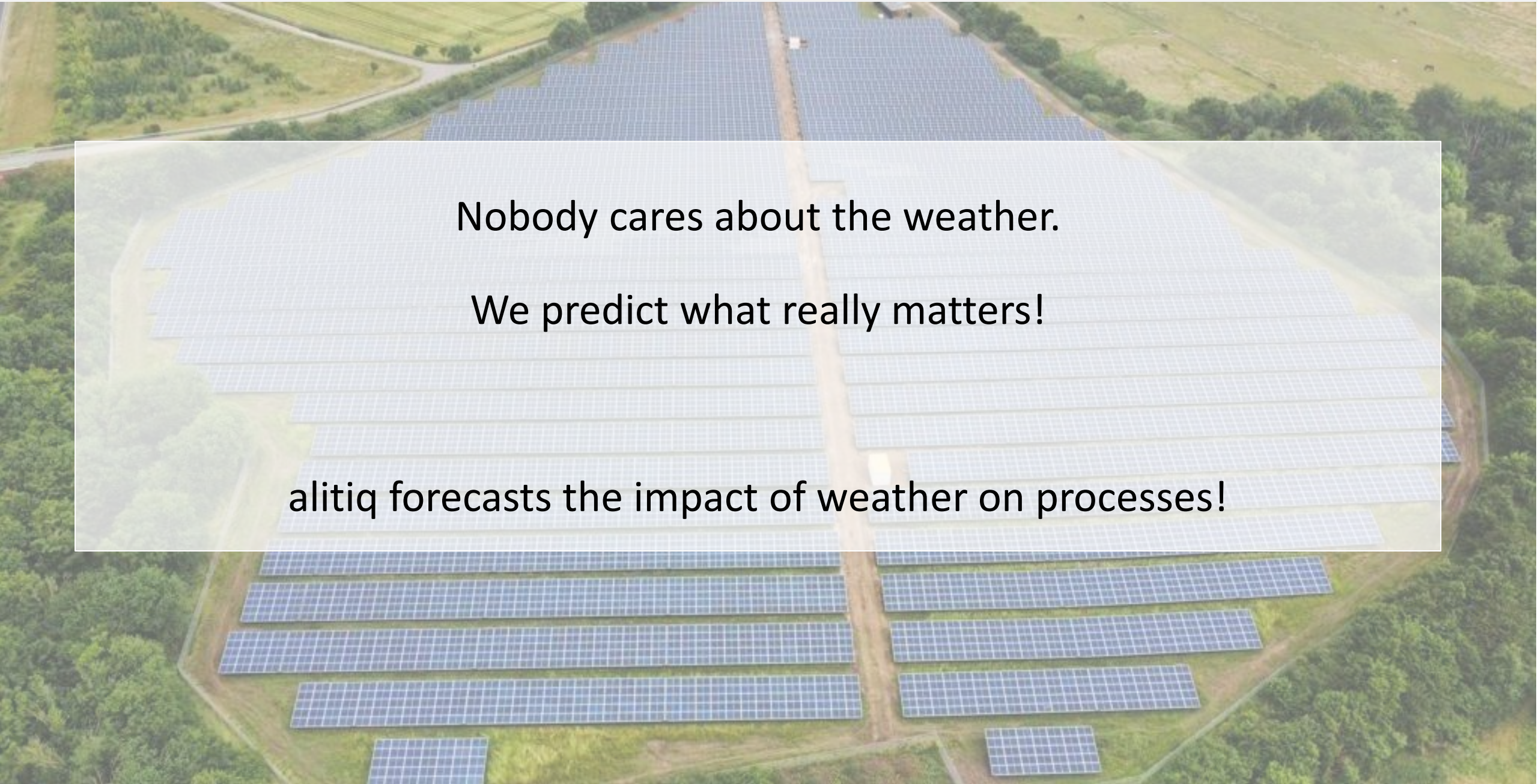
7 AFFORDABLE AND CLEAN ENERGY

11 SUSTAINABLE CITIES AND COMMUNITIES

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

13 CLIMATE ACTION

Our Idea

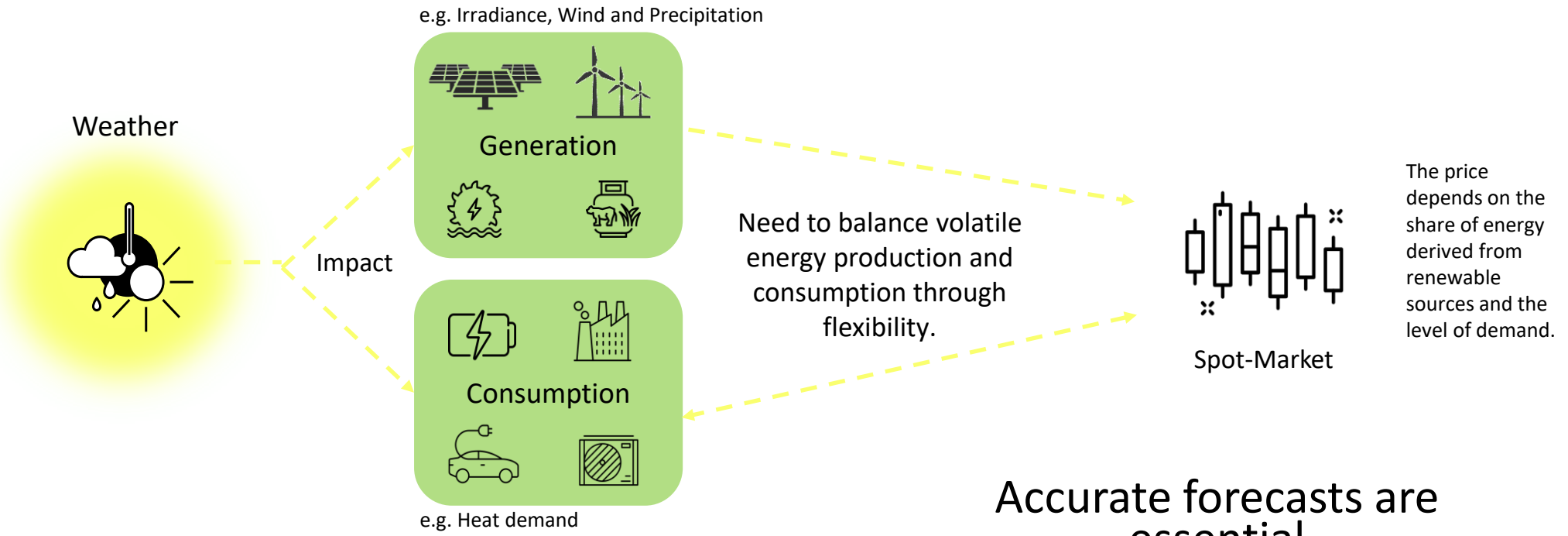


Nobody cares about the weather.

We predict what really matters!

alitiq forecasts the impact of weather on processes!

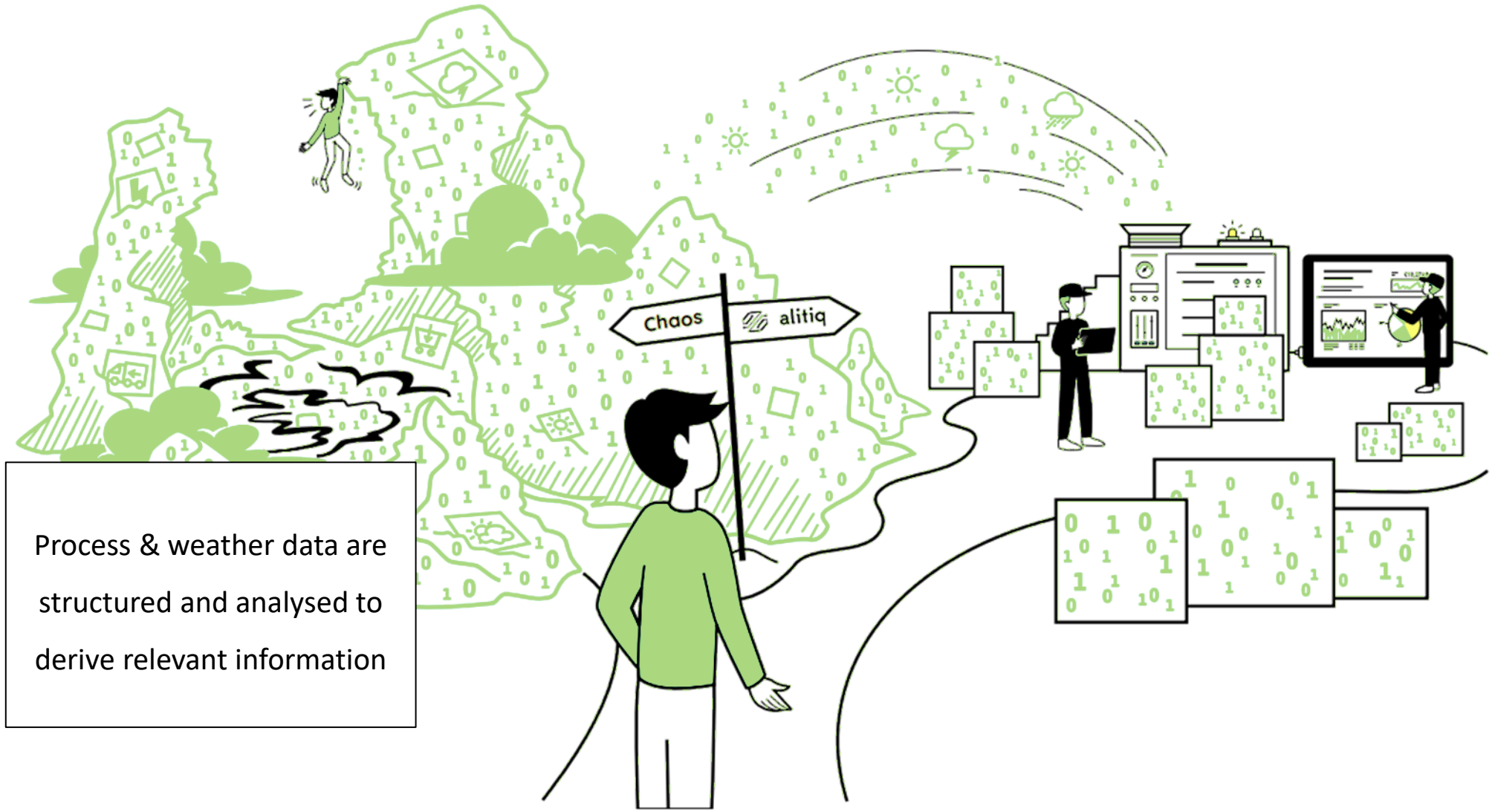
Energy system in change



Accurate forecasts are essential
for the success of the energy transition.

Energy transition requires accurate forecasts
e.g. for balancing power grids and energy trading

The path to the best forecasts



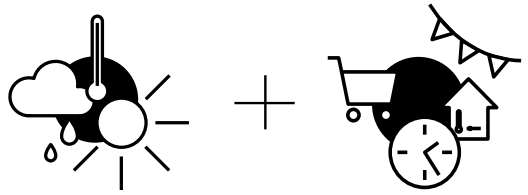
Process & weather data are structured and analysed to derive relevant information

Our strength

Meteorological expertise and data science competence.

Combined in the alitiq engine.

Impact



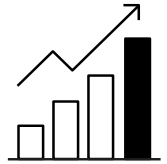
meteorological

non-meteorological

alitiq-Engine

AI-Model

Insights & Forecast

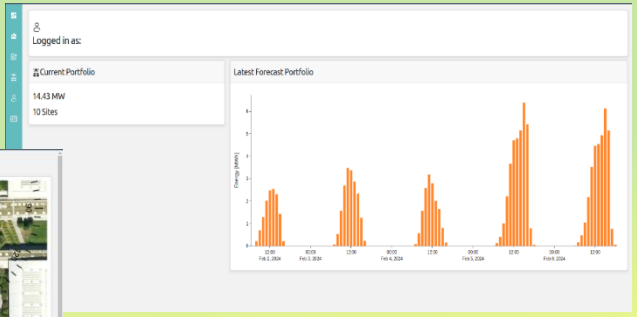


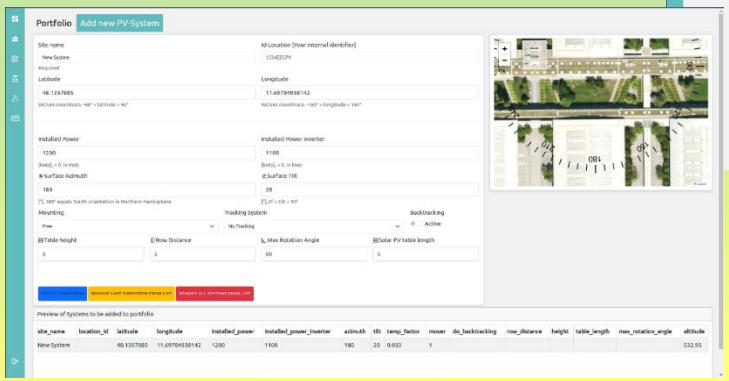
e.g. Load Forecast

Solar-PV-Forecast

Short-term radiation forecast with

AI support





Deep learning

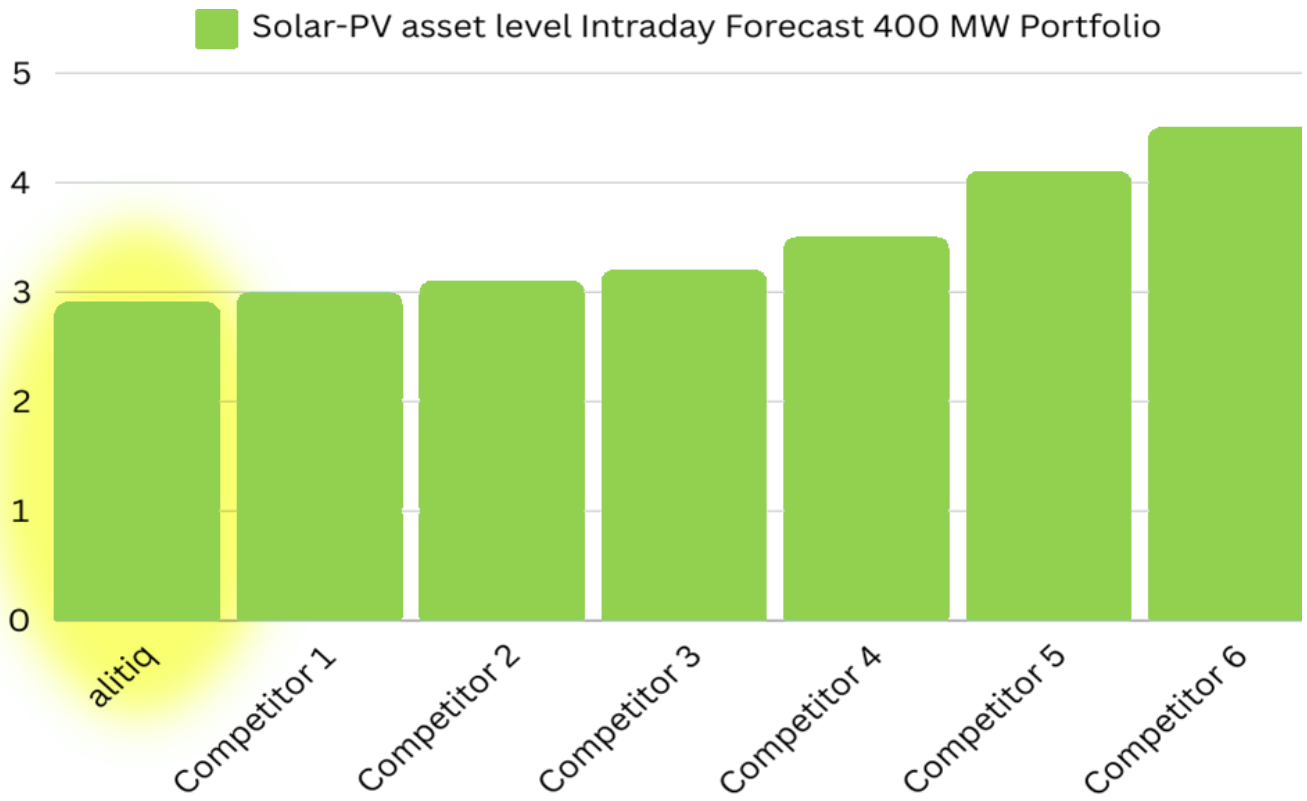
Individual, location-specific,

specifically optimised

Web-Portal:

- Manage portfolio
- Obtain forecasts
- Evaluation
- API access

Solar-PV-Forecast



alitiq is one of the best forecast providers on the market.

The trial took place between August and November 2024.

The graph shows the mean absolute error (MAE)

for the entire portfolio and time period.

Case study: Large customer with registered power measurement

- Tesla factory in Grünheide near Berlin
- 9 MWp solar power system
- ~ 5,000 cars per week
- ~ 42 MW peak load
- Major customer of Engie Deutschland GmbHRegular manual effort

Period: 20 July to 23 September 2024
(-15 days) = 50 days

If procurement were to take place exclusively on a day-ahead basis, this would result in potential cost savings of over €300,000 per year.

	Benchmark Customer	Forecast alitiq	Improvement
RMSE	3.0 MW	1,91 MW	1.09 MW
Bias	1.51 MW	0,62 MW	0.89
MAE	2.26 MW	1,47 MW	0.79
balancing energy costs	217.033 €	168.583 €	**+48.450 €**

Our products

alitiq forecasts weather-dependent processes!

- Heatload
- Gas + Electricity Load
- Wind + PV
- Grid Losses
- Hydropower
- Solarthermal
- Your Process!

www.alitiq.com – info@alitiq.com

Impact

We create the easiest and fastest access to the best individual forecasts.

Inexpensive and for everyone!

Decision-makers face obstacles that prevent the rapid achievement of global energy transition goals.

- Unclear consumption behavior
- Inaccurate forecast
- High scheduling risk
- High balancing costs
- CO2 emissions & costs
- Limited human ressources
- Uncertainty due to weather
- Missing data

After a quick onboarding within minutes, alitiq helps decision-makers achieve savings by optimizing trading, balancing, and utilizing flexibilities.

- Reduced Balancing costs
- Higher revenue on spot market
- Less human ressource efforts
- Millions of tonnes in CO2 savings
- Leveraging flexibility potential
- Act on future flexibility markets
- Energy savings through optimisation

Your advantages with alitiq

- Highest forecast quality
  - Permanent forecast monitoring
  - Continuous updating of the models used
  - Rapid implementation of the latest ML algorithms

- Location-specific forecasts
  - Individual modelling for your process using machine learning
  - Identification of the best weather model
  - Visualisation for your specific needs

- Added value
  - Our focus, your satisfaction
  - Ongoing dialogue on performance and improvements
  - Permanent availability and fast response times
  - Flexibility and adaptability

- Further advantages
  - More precise forecasts for better decisions
  - Access to the best weather data worldwide
  - Location-specific solution
  - Risk minimisation and cost savings
  - Sustainability through more efficient use of resources

Contact me!

What is your task?

Daniel Gröger

daniel.groeger@alitiq.com

+49 8292 / 37197-82

alitiq GmbH
Ferrumstraße 2
86424 Dinkelscherben
Germany