

InTech-Forecast

Forecasting Electricity Generation for Solar and Wind Stations

Issue/Relevance









Generation

Unstable
electricity
generation from
renewable energy
stations

Climate

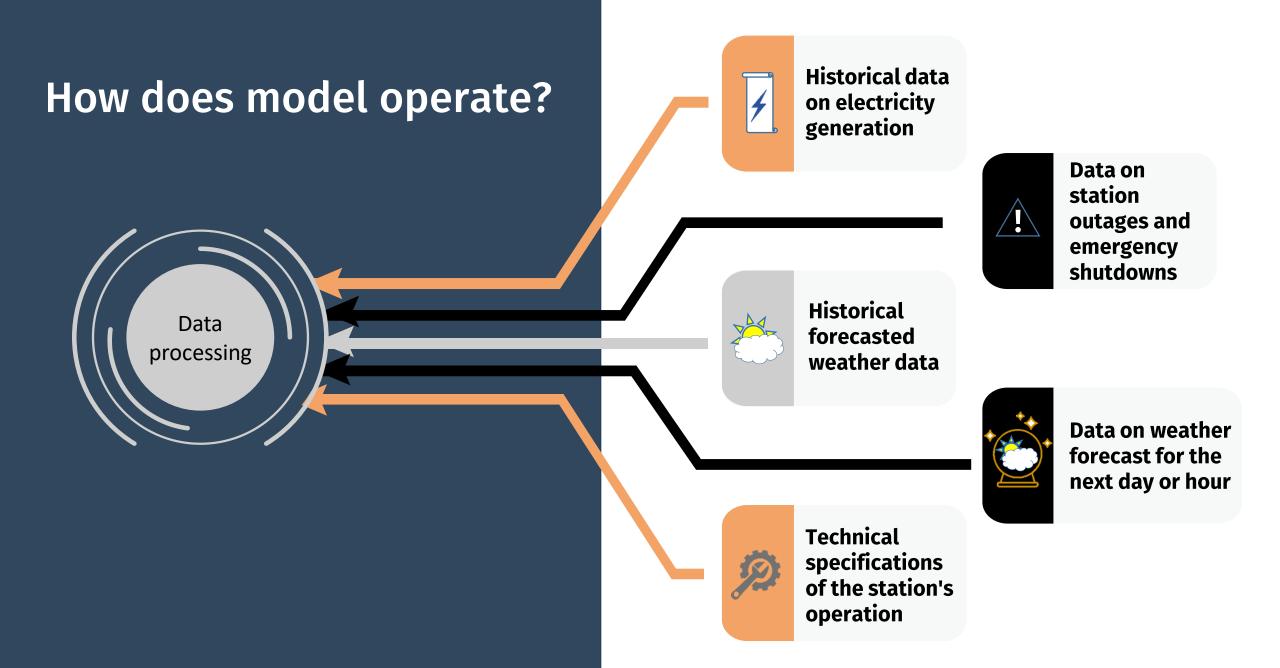
Sharply continental with significant temperature changes.

Imbalances

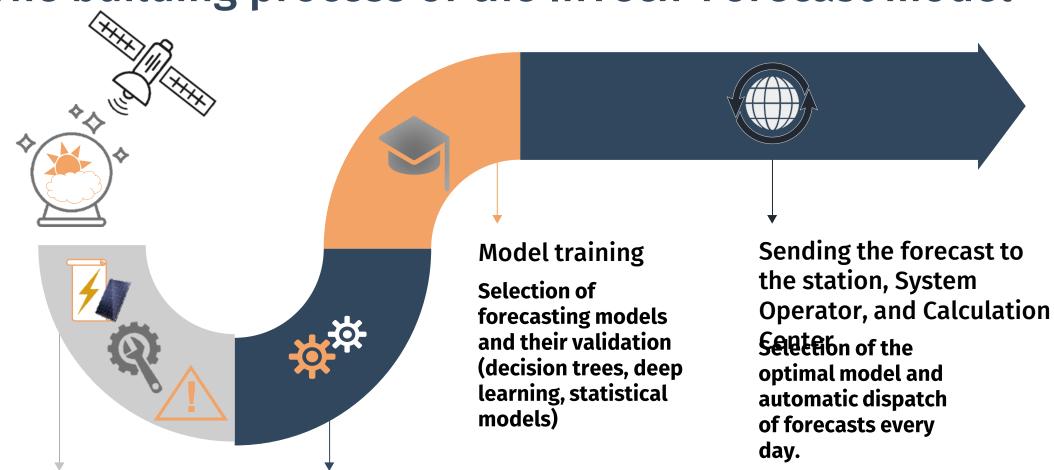
According to JSC "KEGOC": from -200 MW to +150 MW (30%)

Financial Regulation

Hourly Accuracy



The building process of the InTech-Forecast model



Data collection

A database is created with all historical data.

Data analysis Identifying trends, dependencies, and understanding how weather parameters impact electricity generation.

Additional factors complicating the forecasting









Cloud cover



Snow cover on solar panels (maintenance level)

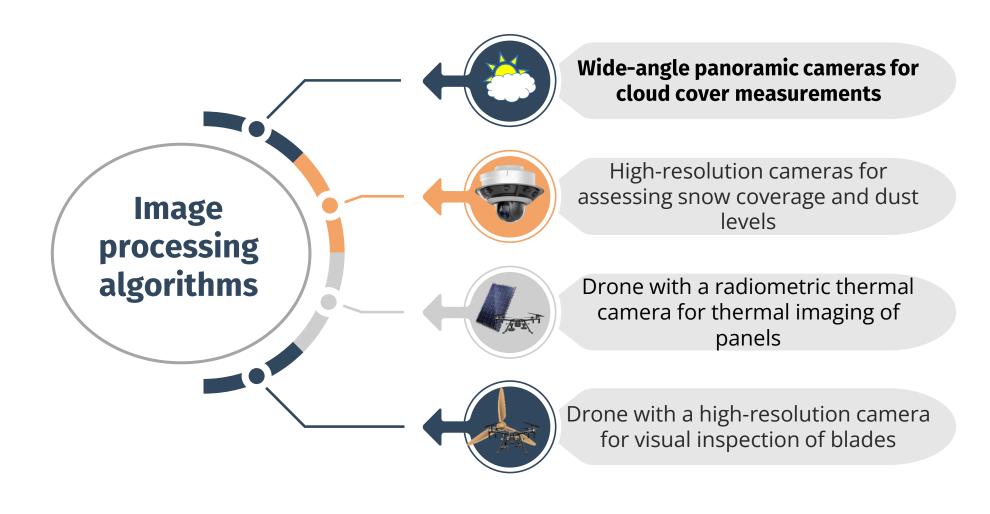


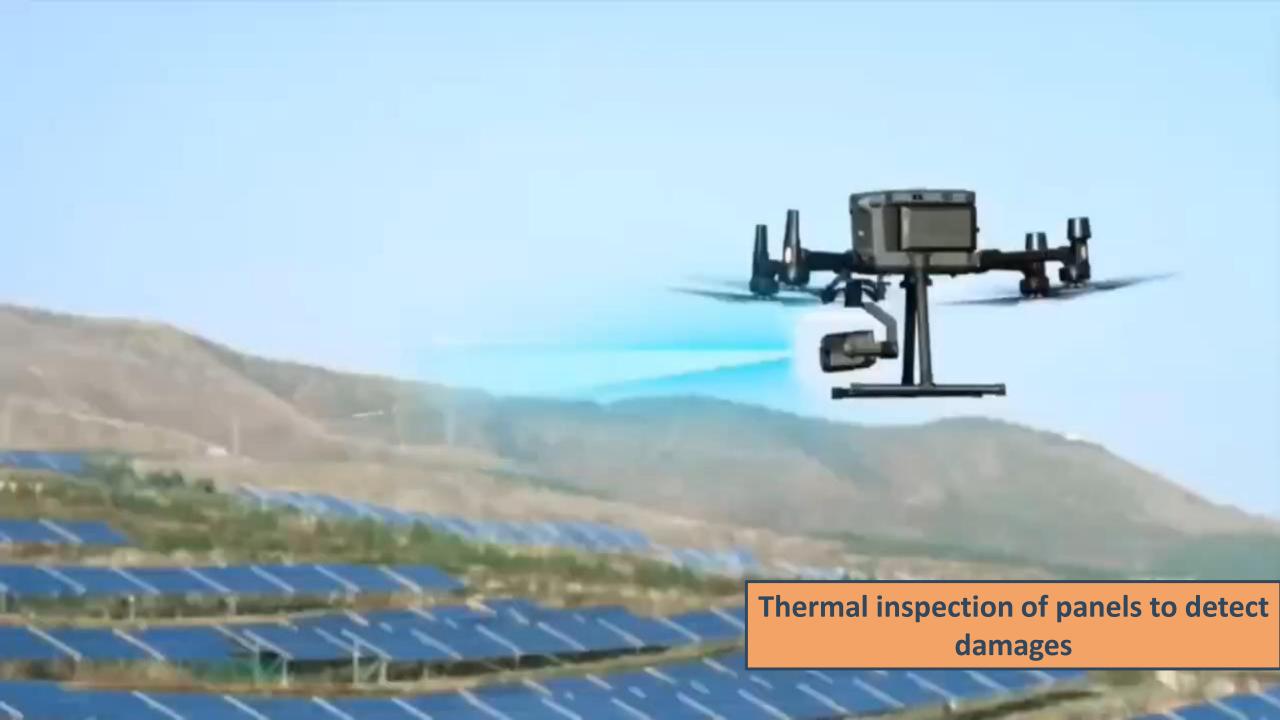
Technical condition of solar panels and wind turbines



How can we enhance accuracy?

How to increase accuracy??





Выроботка электроэнергии

KunNury - 10 MBT

