

EMAS.FORECAST

A tool to improve the efficiency of
production and sale of thermal and
electric energy



NATIONAL
BUREAU OF
INFORMATIZATION



EMAS.FORECAST

Forecasting product:

-  Electricity consumption by industrial and power supply companies
-  Electricity generation by facilities operating on renewable energy sources (RES)
-  Peak load hours
-  Price indicators of the wholesale electricity market (OREM)



Назначение EMAS.FORECAST

Forecasting electricity consumption/production improves a company's performance by automating the loading, storage, and analysis of information required for forecasting, as well as the building and training of models using artificial intelligence.



Functions of EMAS.FORECAST

EMAS.FORECAST



1

Collection and processing of all data required for forecasting:

- Actual electricity generation data
- Climate condition archives
- Climate condition forecasts

2

Data preparation, including removal of obviously erroneous values, generation, and supplementation with necessary information.

3

Building and training the forecasting model.

Carrying out forecasting of the required parameters of electricity consumption/production.

4

Automatic determination

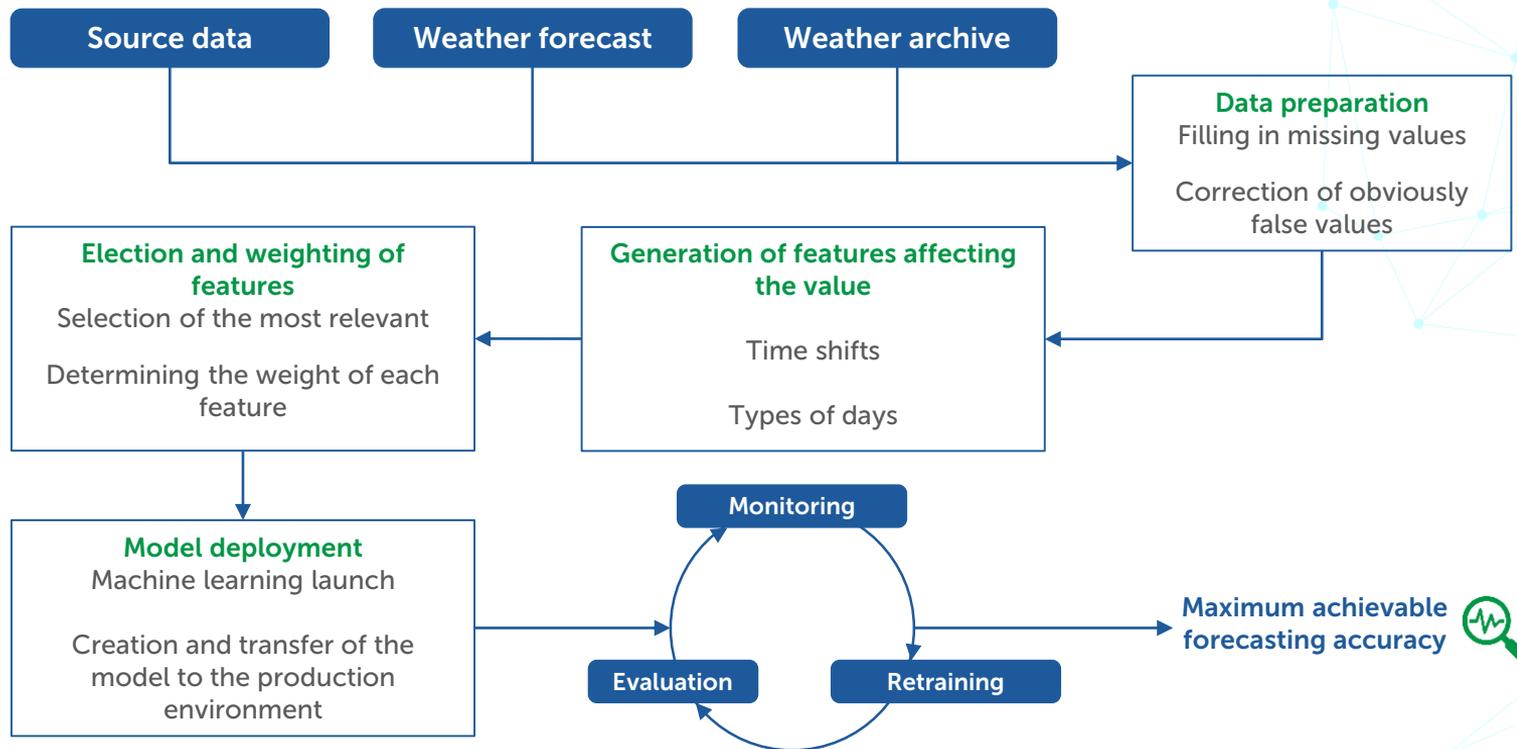
of model accuracy with current data, and, if necessary, initiation of self-calibration (retraining).

5

Verification

of modeling results.

EMAS.FORECAST: scheme of model creation and operation



Architecture and Technologies

EMAS.FORECAST



| The EMAS.FORECAST architecture is two-tier and supports multi-user operation

| Automated user workstations operate based on "thin client" technology

Эффективность EMAS.FORECAST

EMAS.FORECAST



EMAS.FORECAST features an intuitive interface. The information is accessible both from personal computers and mobile devices, including tablets.

To work with the System, you only need to launch any browser installed on your device.



EMAS.FORECAST Efficiency

Economic Effect

More accurate electricity consumption forecasting enables energy sales companies and major consumers to submit more precise applications to the wholesale electricity market (OREM) and, consequently, reduce electricity procurement costs.

Social Effect

Accurate forecasting and planning of electricity consumption by consumer companies allow the System Operator to utilize the most efficient generation in the energy system, thus reducing fuel consumption and lowering atmospheric emissions.



Why EMAS.FORECAST?



Uniqueness

The uniqueness lies in the preparation of data for modeling using intellectual compensation strategies (accuracy) and adaptive data preparation algorithms for modeling.



Advantage

The advantage over analogs is higher forecasting accuracy, faster calculation speed, and the ability to forecast peak energy consumption hours.





Thank you



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