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Sustainable Energy Connectivity in Central Asia

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International Conference

Energy Efficiency in Uzbekistan: prospects and challenges

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Automated system for accounting, analysis and forecasting the energy efficiency of large industrial enterprises and other sectors of the economy

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AUTOMATED SYSTEM FOR ACCOUNTING, ANALYSIS AND FORECASTING THE ENERGY EFFICIENCY OF LARGE INDUSTRIAL ENTERPRISES AND OTHER SECTORS OF THE ECONOMY (UIS)

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The purpose of the UIS system :

The system is designed to automate the processes of collecting, transmitting, processing, storing and presenting information on the production and consumption of energy resources, the release of products (services rendered) for the assessment and analysis of energy efficiency, monitoring the energy intensity of the output products for the purpose of subsequent selection of objects for monitoring and energy audits .

formation of a single information space in the field of energy conservation and energy efficiency;

analysis of the consumed energy resource by consumers for further planning and taking measures to improve energy efficiency;

increasing the efficiency, efficiency and quality of management in the field of energy conservation;

increasing the quality of information and detailing statistical information by obtaining information from the original source and its further updating;

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Goals and tasks solved by the UIS

UIS allows to improve the quality of decision-making in the management of energy consumption of an enterprise, thereby increasing the efficiency of energy resource spending. The system has predictive capabilities (predictive analytics), can be adapted to each specific production, taking into account technological processes, equipment features, and integrated with accounting systems available at the enterprise.

UIS solves the following tasks:

1. Collection, systematization and verification of data;
2. Monitoring of indicators of the efficiency of the use of fuel and energy resources
3. Identification of factors affecting energy consumption and the degree of their influence, as well as identification of the best / worst modes of equipment operation;
4. Rationing of fuel and energy consumption;
5. Identification of deviations in energy consumption standards and analysis of the reasons for their deviations;
6. Energy resource consumption planning.

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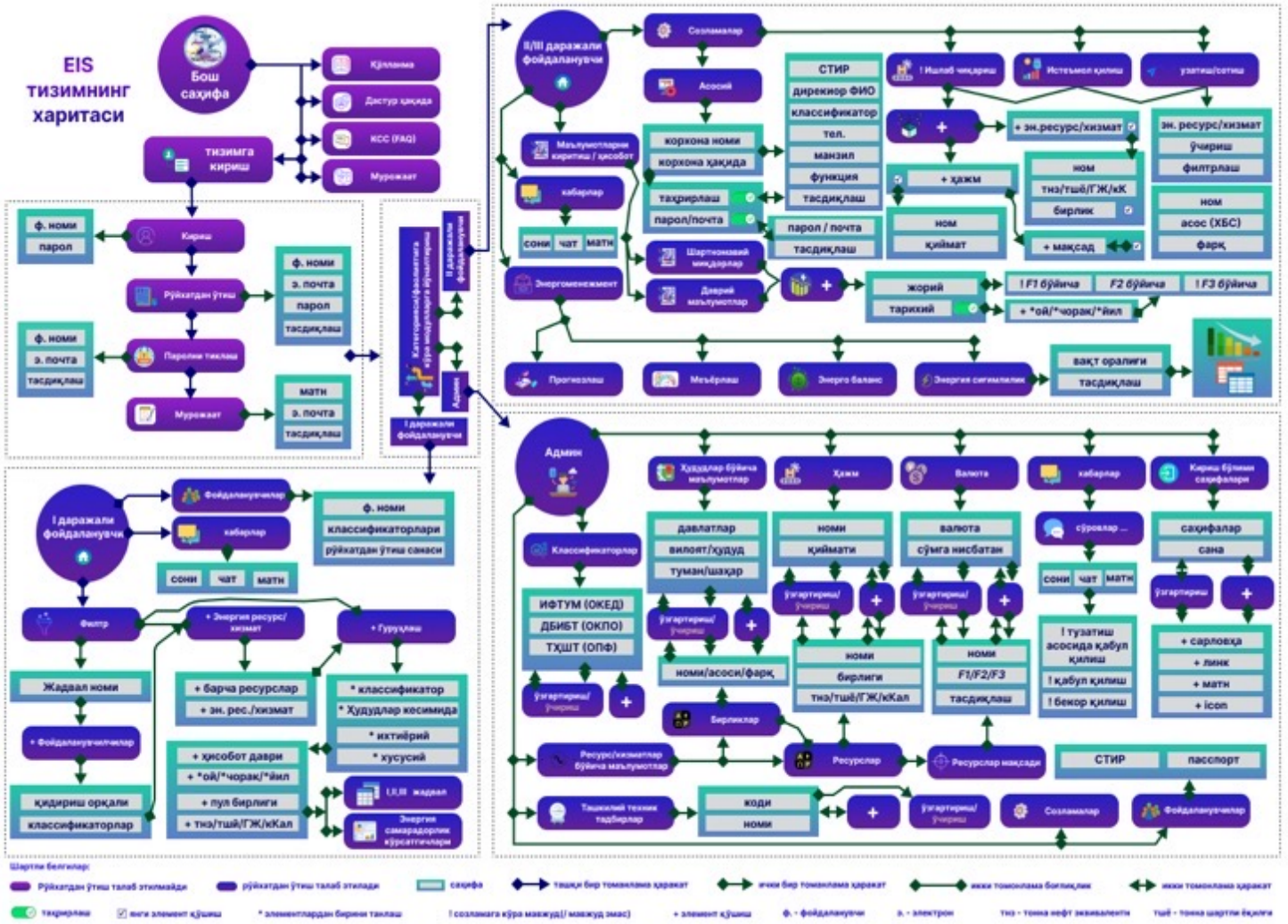
Structural scheme of the UIS



I

- User of the 1st category: has the ability to enter data, print them in the form of calculations;

II

- Category 2 user: has the ability to enter data, process it and print it out in the form of calculations;

III

- Category 3 user: has the ability to see all the information about the system, generate the necessary reporting forms on their basis and manage the operation of the system as a whole.

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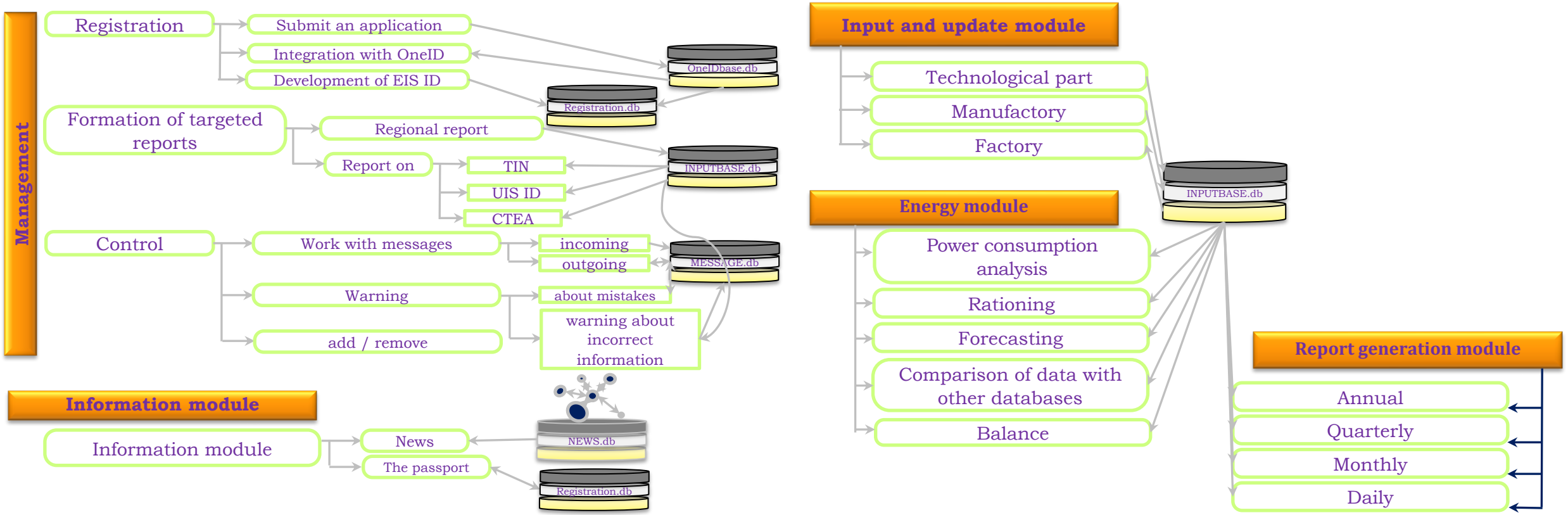

STRUCTURAL AND LOGICAL SCHEME OF THE UIS

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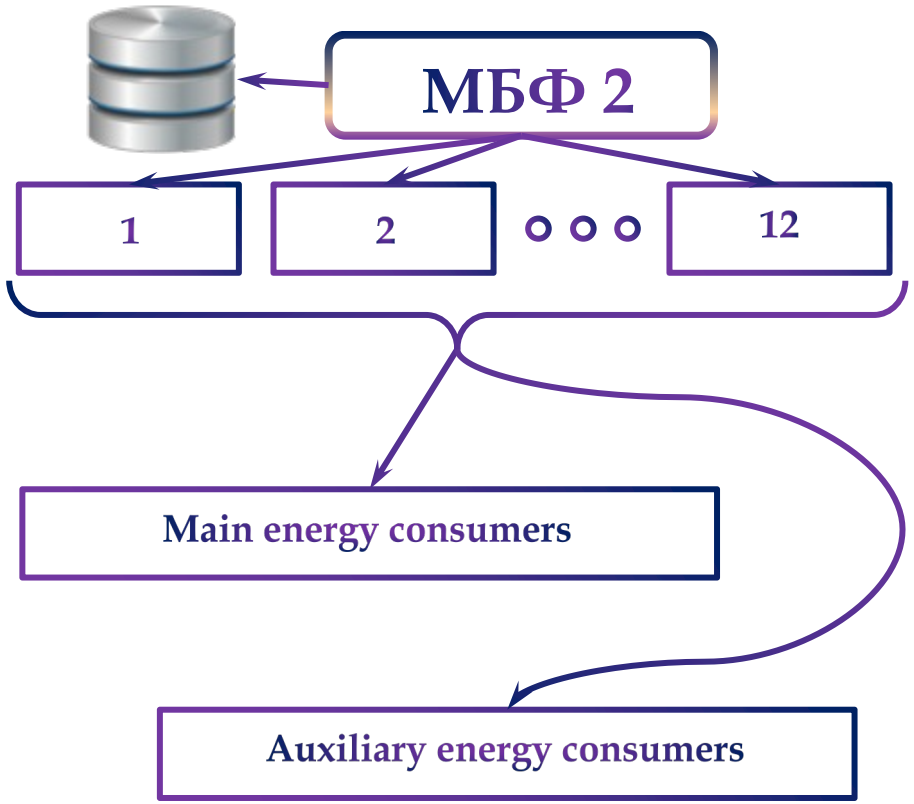
HOW DOES UIC WORK



Паспорт маълумоти

Time information: last maintenance time, last current maintenance time, etc.

Information about energy resources and products

F1.Input

F2. Consumption

F3. Output

Established standards

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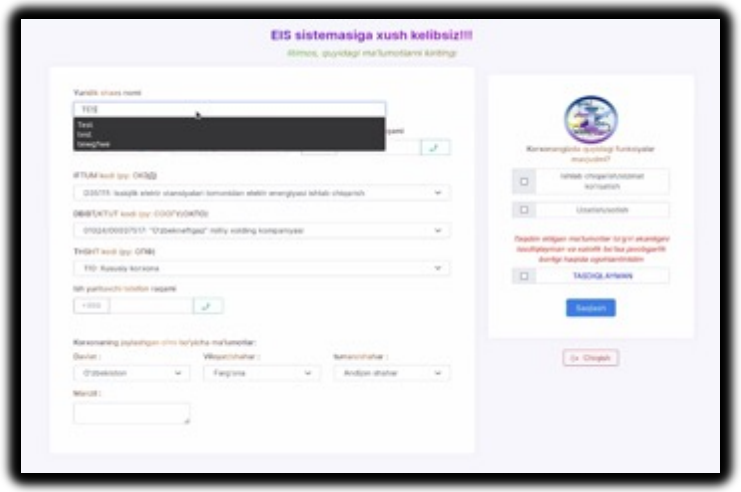
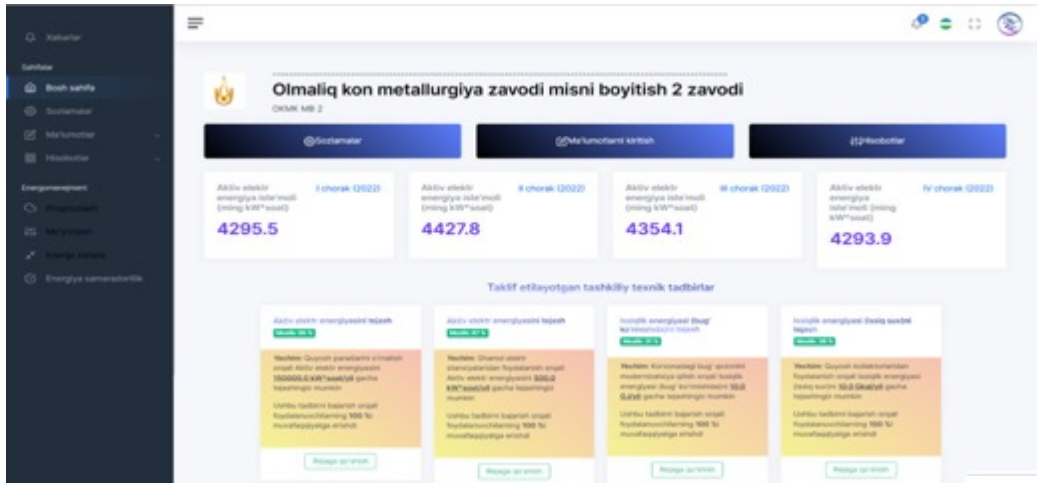
INTERFACES OF UIC





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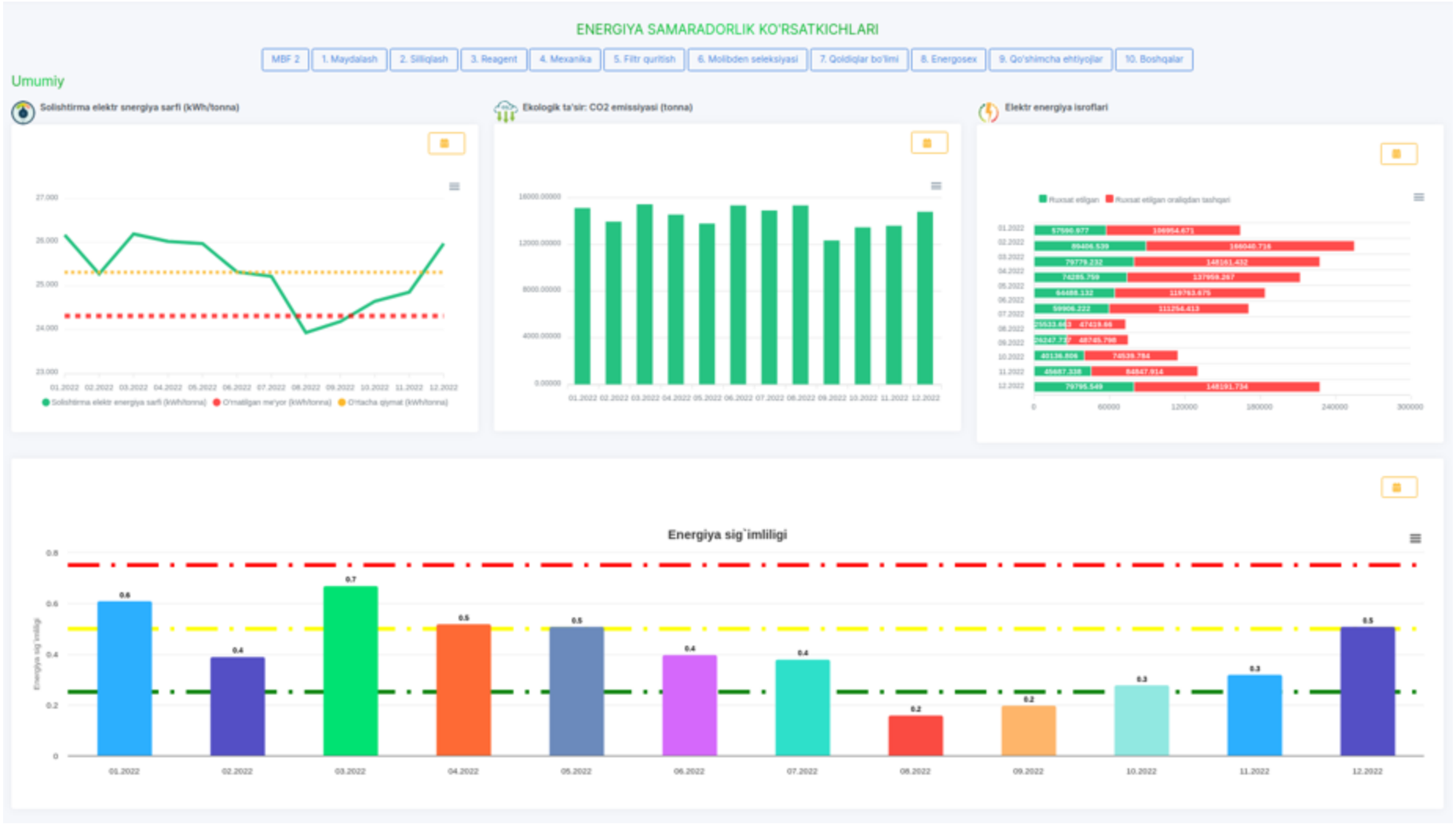
INTERFACES OF UIC



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