INFOTECH GROUP

INFOTECH ENERGOCOMPLEX

Integrated system for power grid infrastructure monitoring and control

Goals of implementation

Reduce operational costs
on maintenance and repair

Increase management efficiency
of electric grid company infrastructure
maintenance

Reduce losses from equipment
downtime

Provide centralized supervision of
work and maintenance actions

Improve the reliability of providing
consumer services to ensure
uninterrupted work

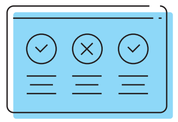
Move from scheduled to proactive
status-based maintenance using
predictive analytics methods

Provide complete and accurate
information on the mix of all objects
and infrastructure status

Increase energy efficiency through
optimization of outdoor lighting
management

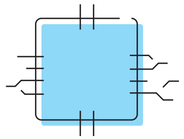
Consumers

Requests and applications



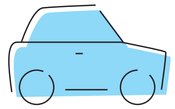
Infrastructure status control services

Operative equipment monitoring data from employees



Sensors on equipment and objects

Telemetry data



Vehicles

Data from vehicle sensors

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Infrastructure status monitoring system

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Application processing system

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Comprehensive system for information processing and infrastructure status forecasting

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Vehicle monitoring system

- Infrastructure status management
- Management of infrastructure maintenance tasks
- Data management by every object
- Vehicle and special equipment management
- Analytics and reporting

INFOTECH ENERGOCOMPLEX

Key components and functions of the complex

The system monitors infrastructure status of an energy company

- collects and processes operative control data received by employees
- collects and aggregates telemetry data from various sensors installed on the equipment
- displays current status of objects and equipment
- alerts about the discovered malfunctions

Object and equipment status forecasting system

- data normalization, cleaning and structuring
- forecast models creation and management
- object and equipment status forecasting
- routing of alerts and control actions on internal and external systems

A system managing data for each object

- infrastructure inventory count
- displays objects' life-cycle
- displays information by objects linked to geographical information system
- consolidates data from adjacent systems to represent complete and actual data within the whole infrastructure
- components and spare parts accounting
- differentiation of access permissions for object data modification

Components

Task management and infrastructure maintenance system

- automating interaction with citizen application systems
- collection of tasks from various departments and services
- centralized system for tasks dispatching
- information transfer for line inspection services
- working teams and vehicles coordination according to their location and routes
- tasks execution control
- mobile application for line inspection services and field teams
- contractor performance monitoring
- operational and management reporting

Vehicle and special equipment management system

- vehicle and special equipment recording
- real-time displaying of a vehicle location on the map
- collection of various data from vehicle sensors
- control of driving speed and compliance with a route
- trip tickets issuing process automation
- mobile application for drivers and field teams allows to control task progress and get feedback
- planning and optimization of vehicle maintenance budgeting
- quality control of driver and dispatcher performance
- combustibles and lubricants consumption control
- analytic reporting

Benefits

01

Comprehensive solution covering a full range of infrastructure maintenance tasks

02

Single information space for energy company infrastructure management increases coordination and responsiveness

03

Improving energy efficiency

04

Rapid tasks management and decreasing response time

05

Applying modern technologies and predictive analytics methods allows energy company to reduce costs on infrastructure maintenance

06

Comprehensive analytics and reporting

07

Automation of procedures compliance control

08

Objective control of tasks execution and necessary resources Improving energy efficiency

09

Working teams and vehicle management optimization

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