Smart maintenance at the WtE in Cracow

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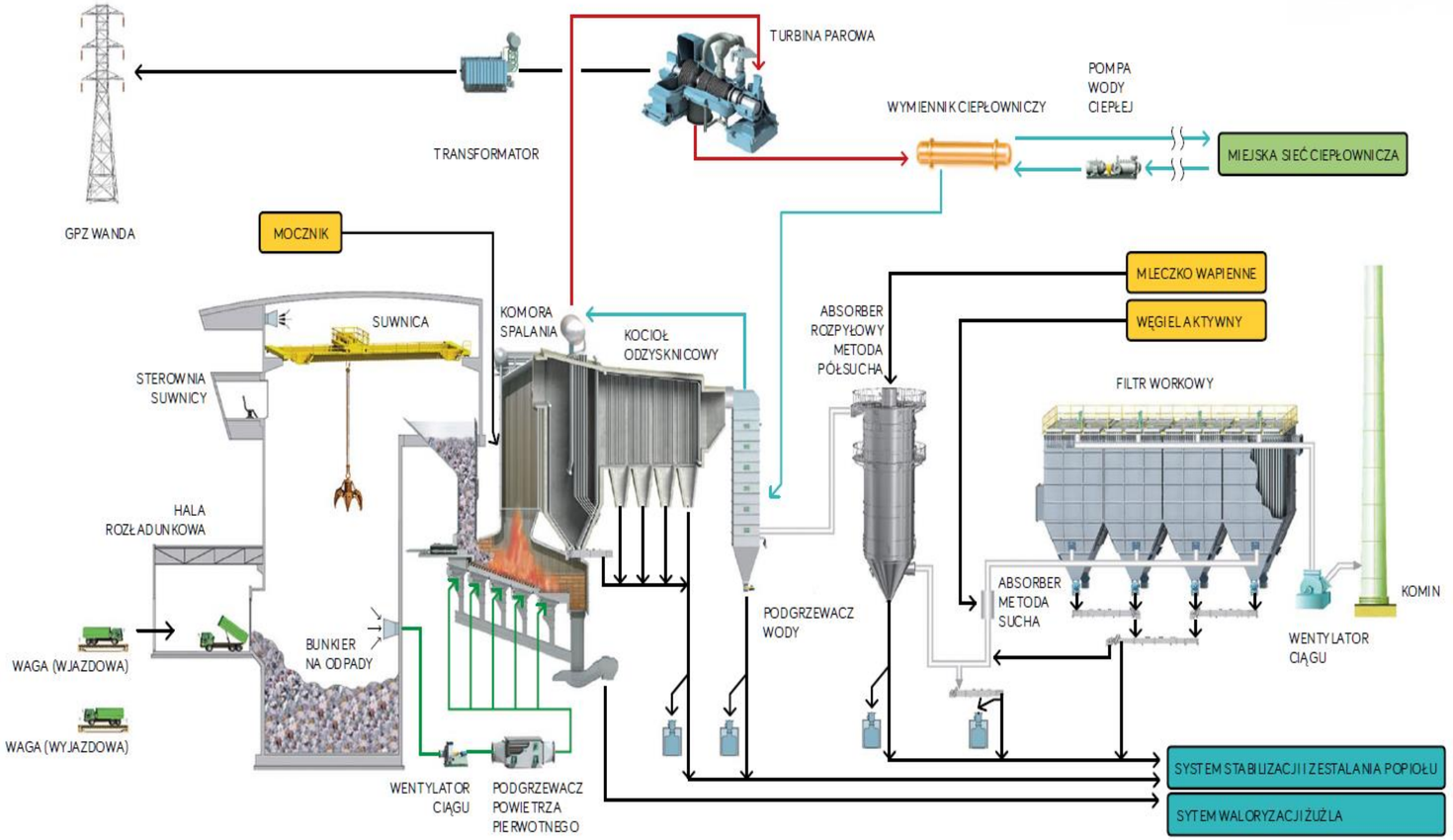
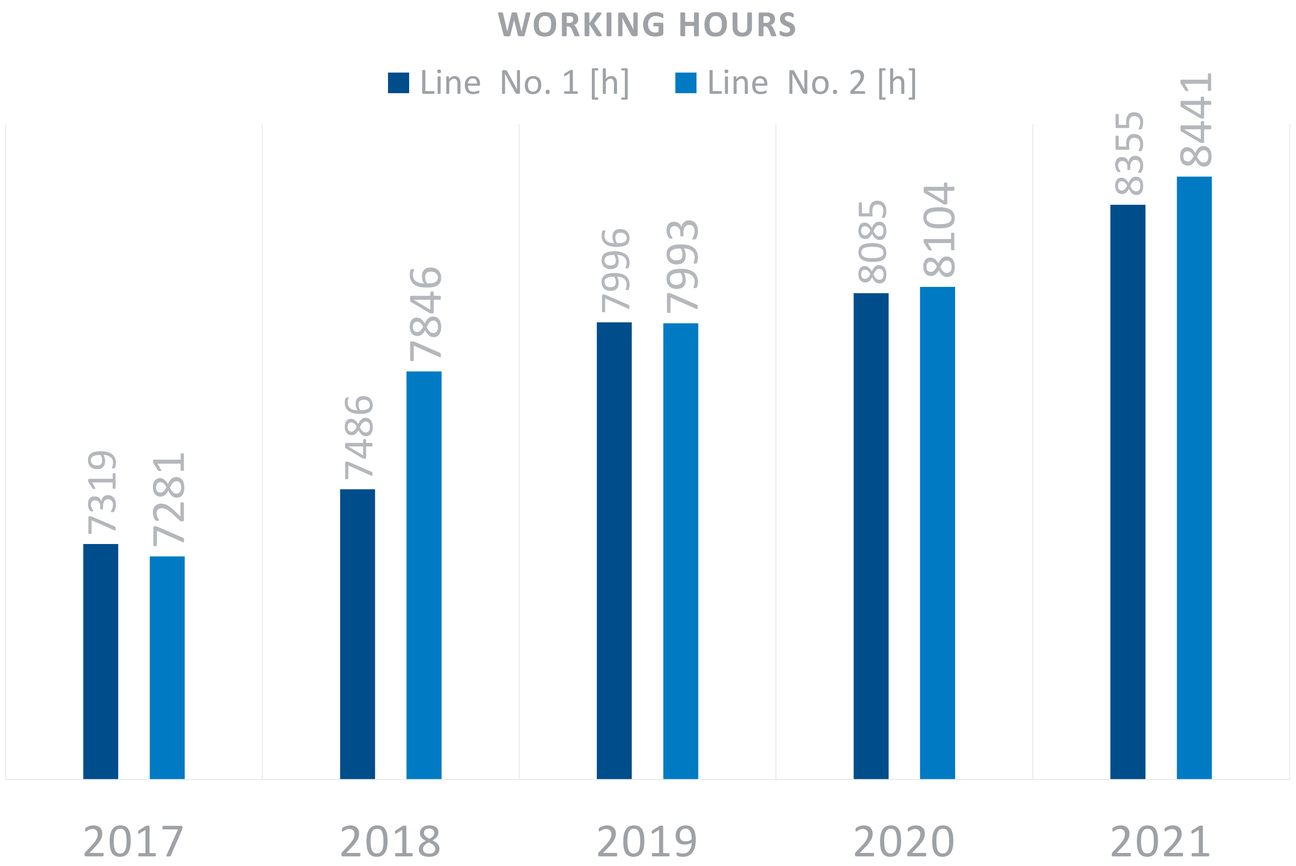
WTE IN CRACOW

- 245 000 Mg waste/year
- 1 mln GJ heat energy /year
- 90 000 MWh electric energy/year



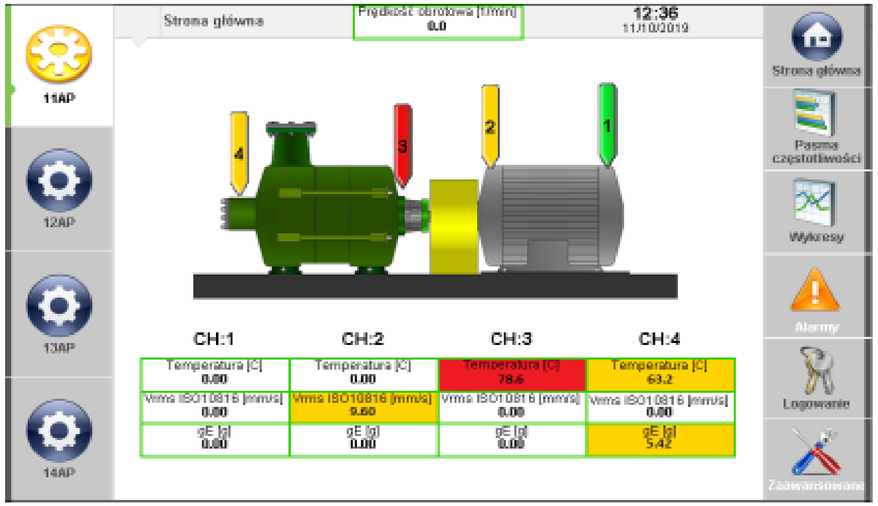
WORKING TIME

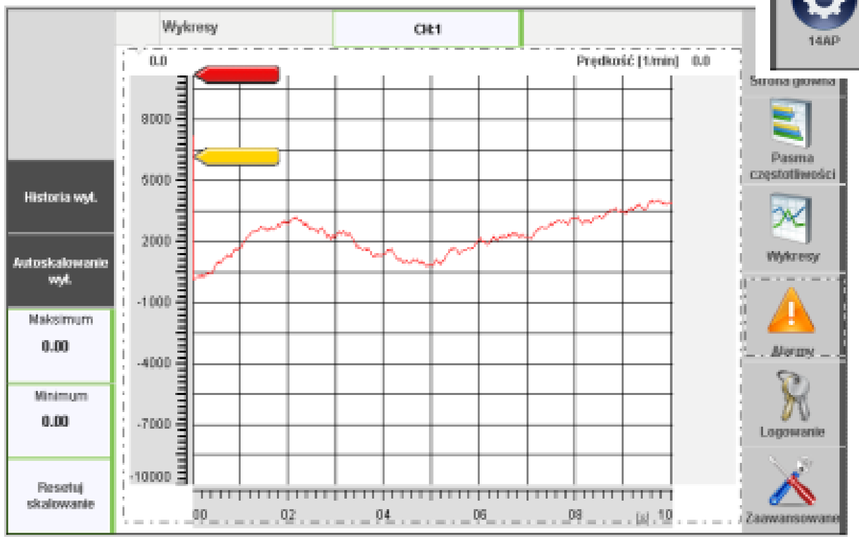
- Operation of the plant since 06.2016
- Working hours from 7281 h in 2017 to 8441 h in 2021



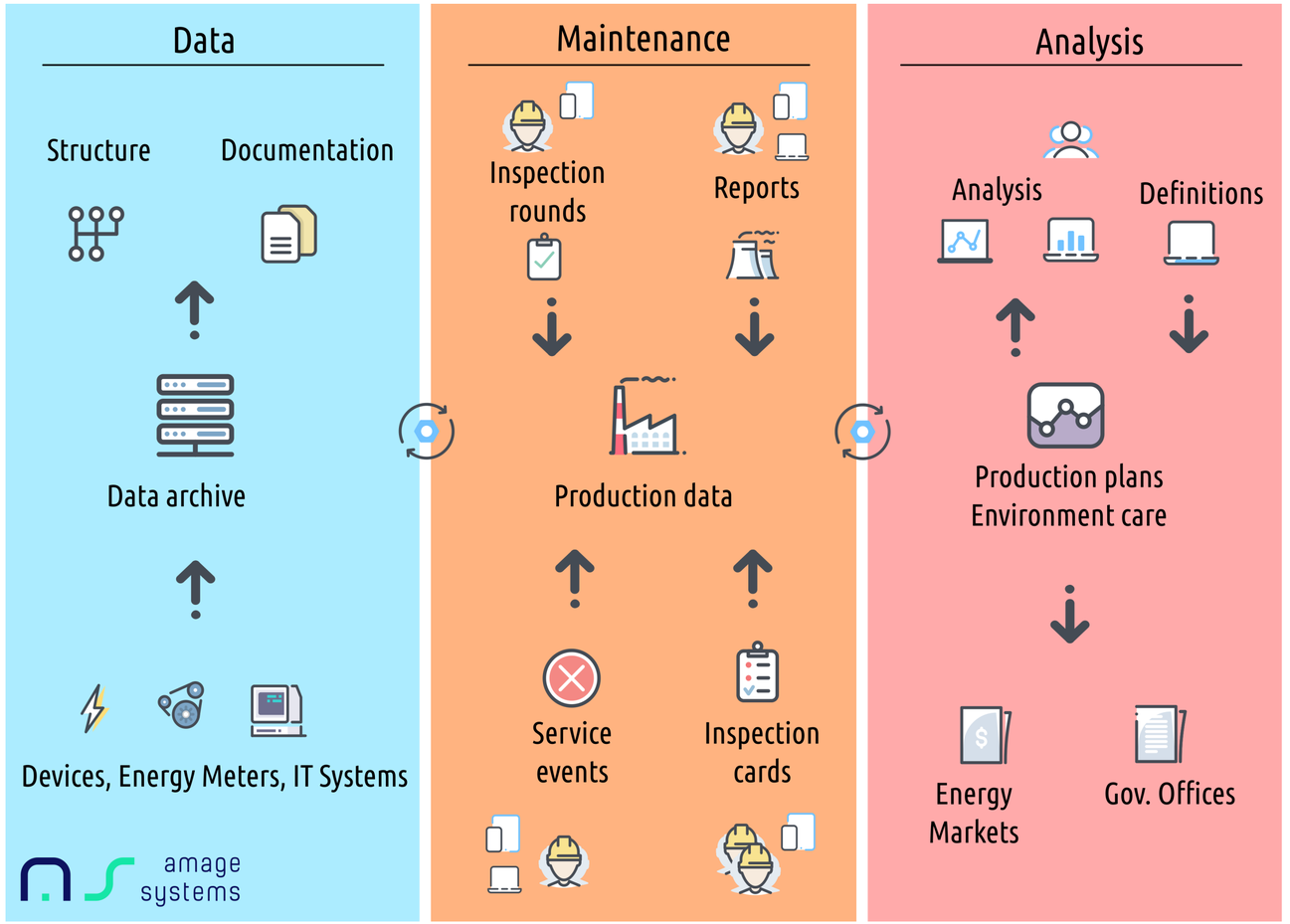
STANDARD WTE

- Vibration monitoring system

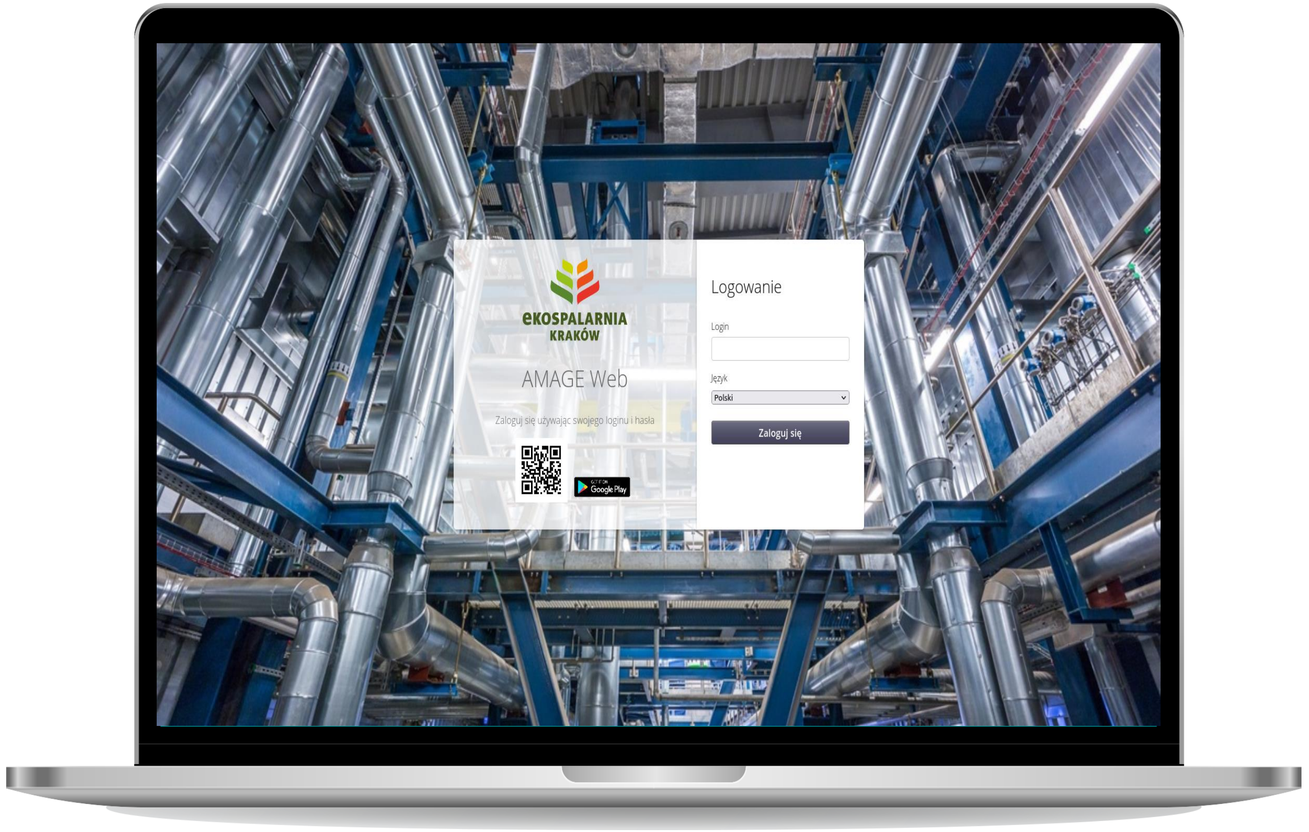




ARCHITECTURE



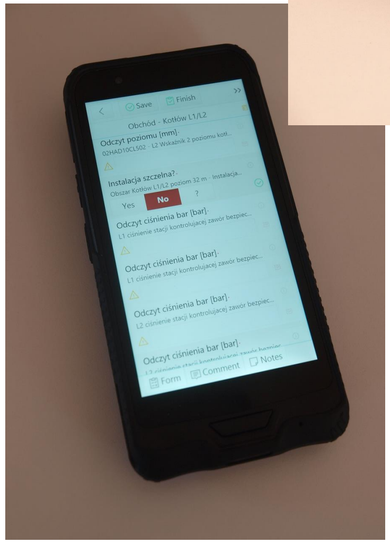
DIGITAL MAINTAENANCE



KHK
Krakowski Holding Komunalny SA

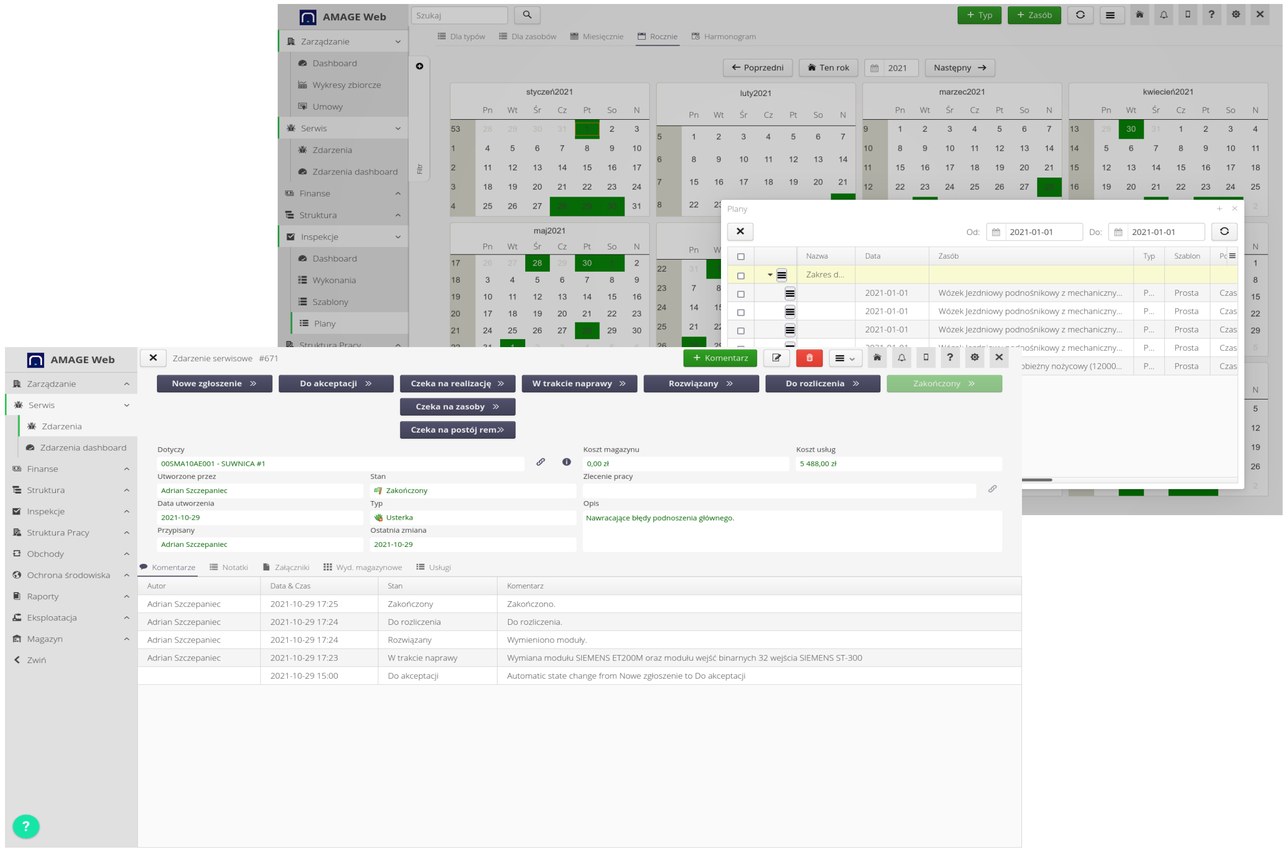
eKOSPALARNIA
KRAKÓW

PHOTOS



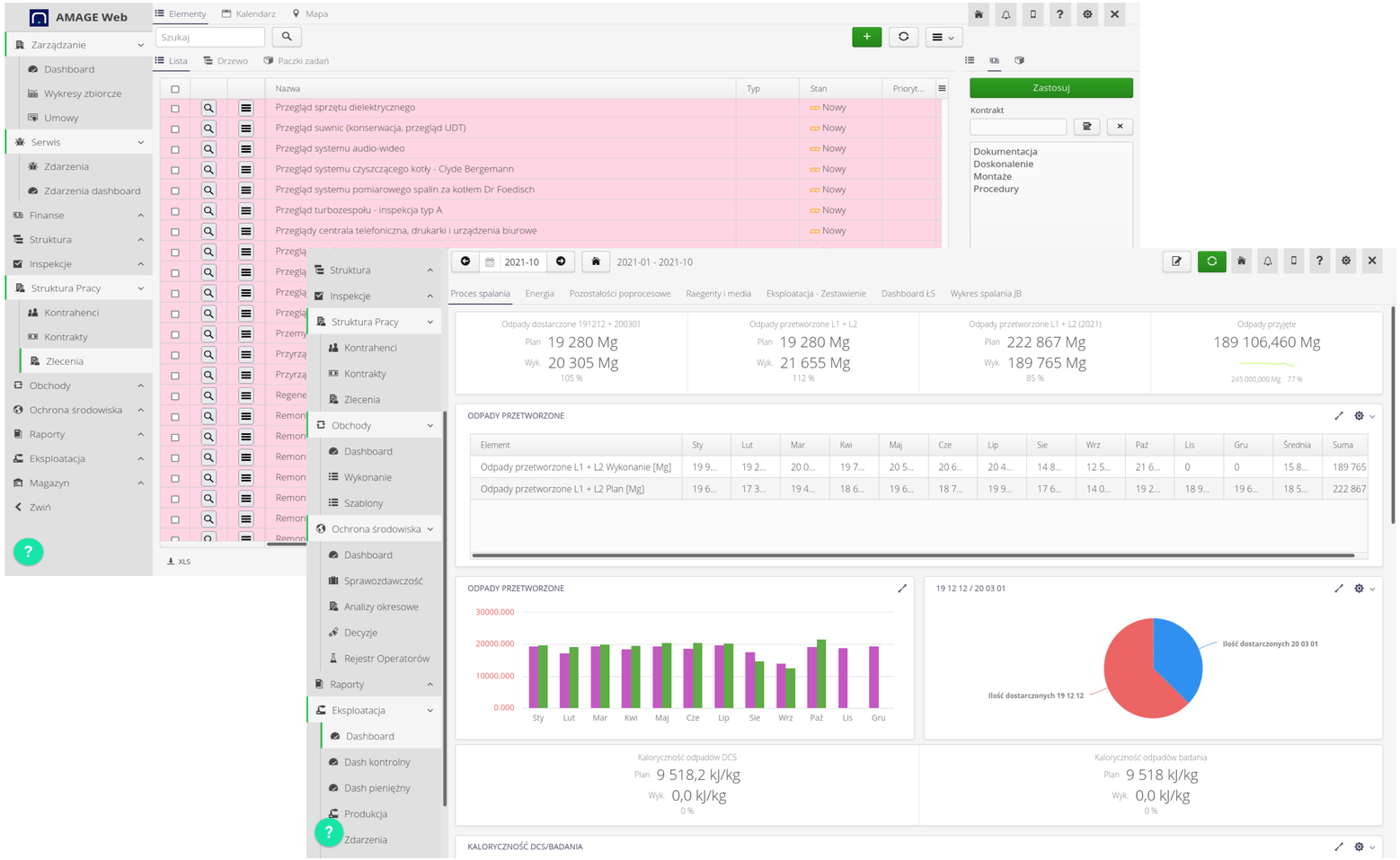
TOTAL DIGITAL MAINTENANCE

- Production Structure
- Data aggregation
- Service Events
- Inspection Plan
- Inspection rounds



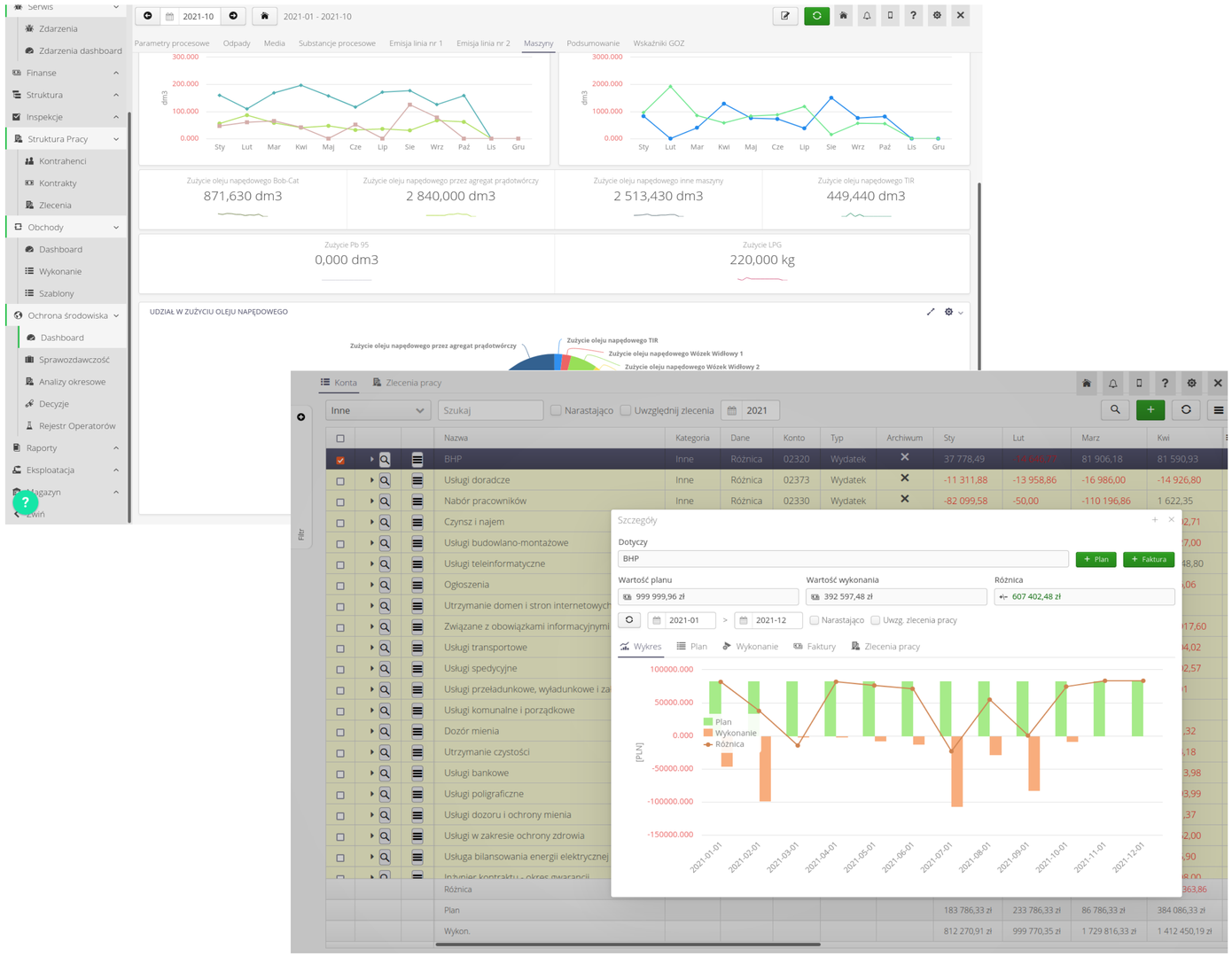
DIGITAL PRODUCTION REPORTING

- Data aggregation
- Production items
- Limits/Permits
- Threshold notifications
- Dashboard/Visualization



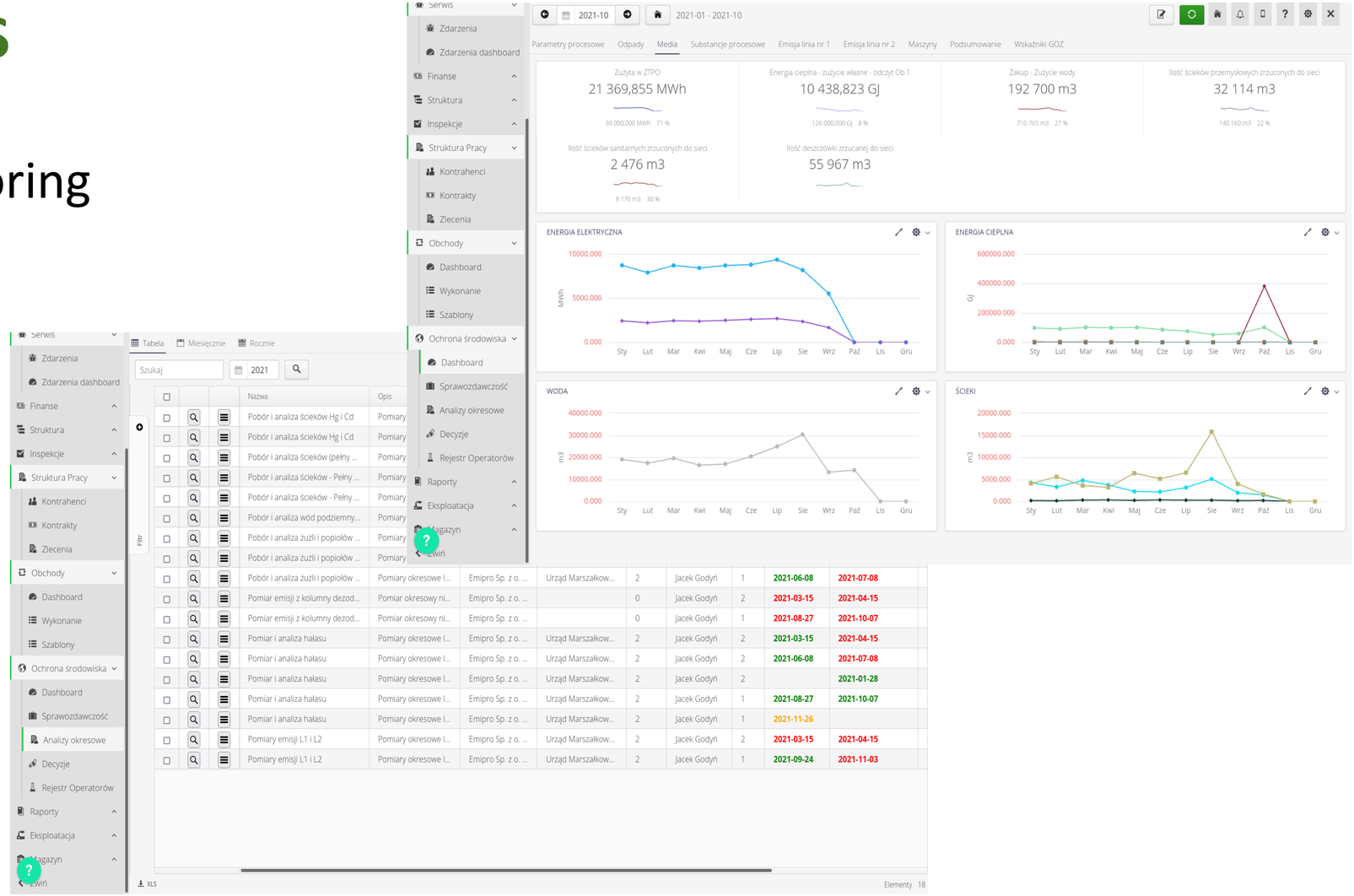
FINANCE CONTROLLING

- Budgets vs Executions
- Finance controlling
- Production vs Budgets
- Work Orders
- Integration with ERP/DCS

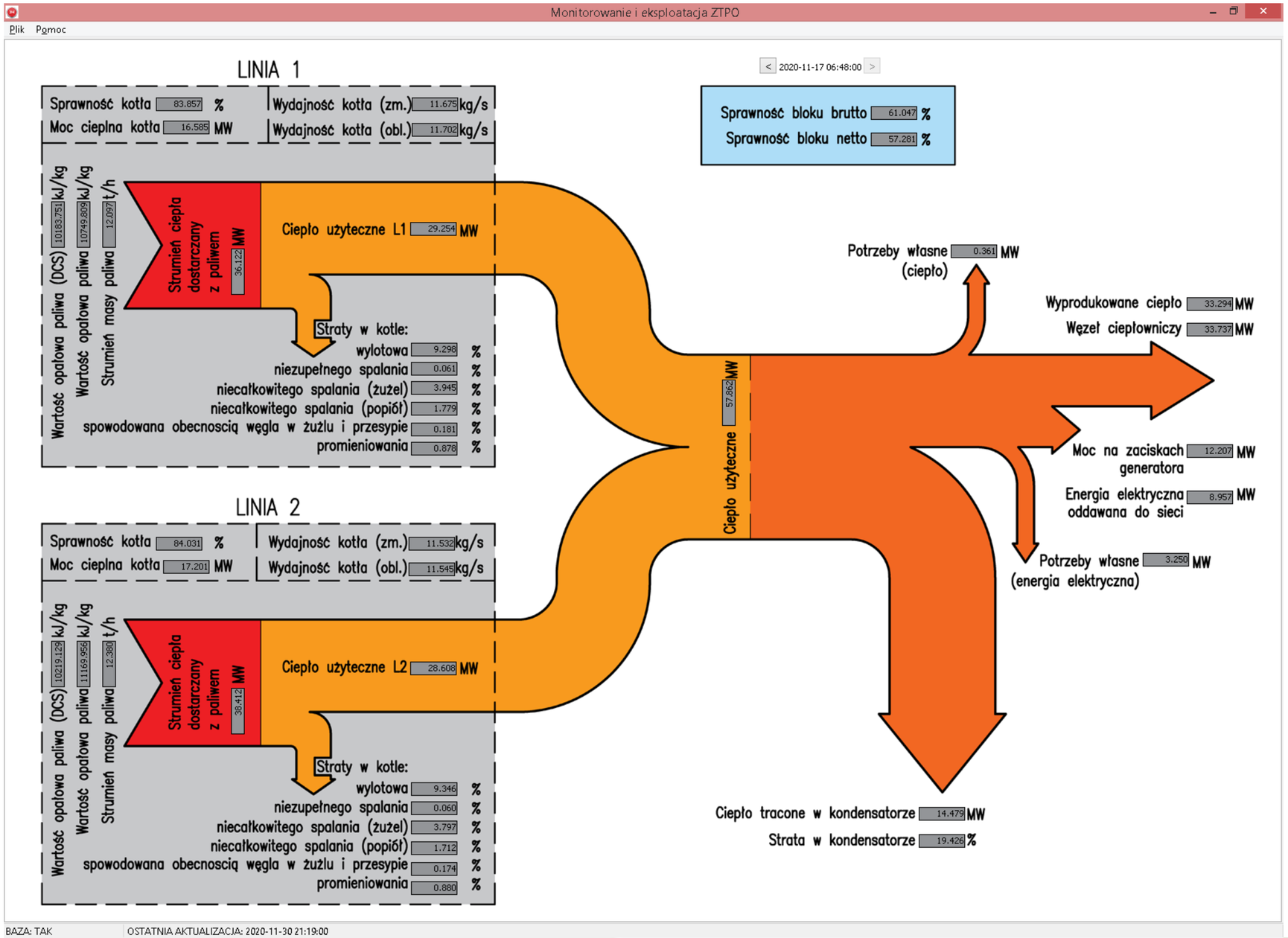


ENVIRONMENT PERMITS

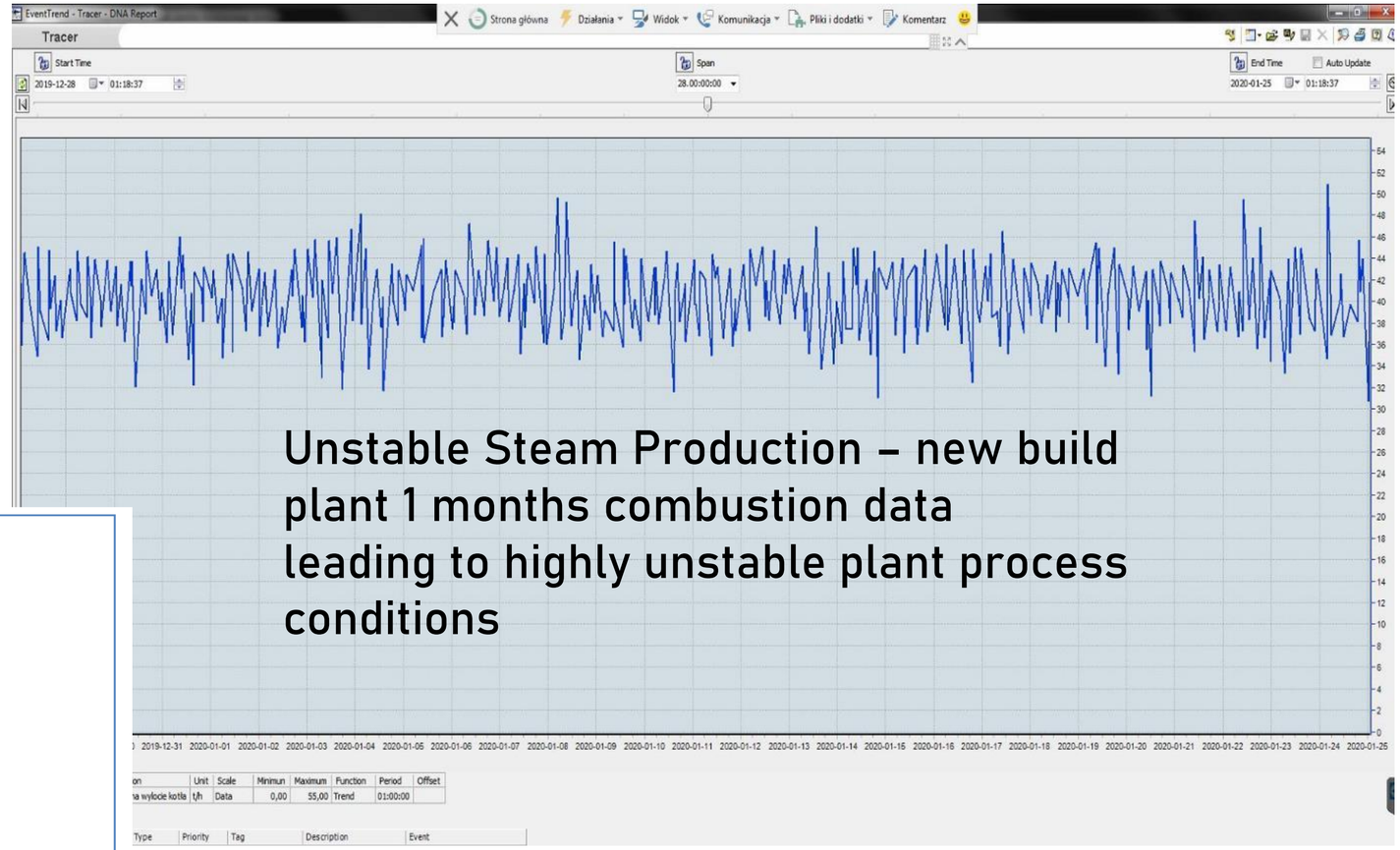
- Integrated permit monitoring
- Events/Notifications
- CRO/Measurements
- Agreements
- Reporting duties
- Event monitoring



ENERGY BALANCE

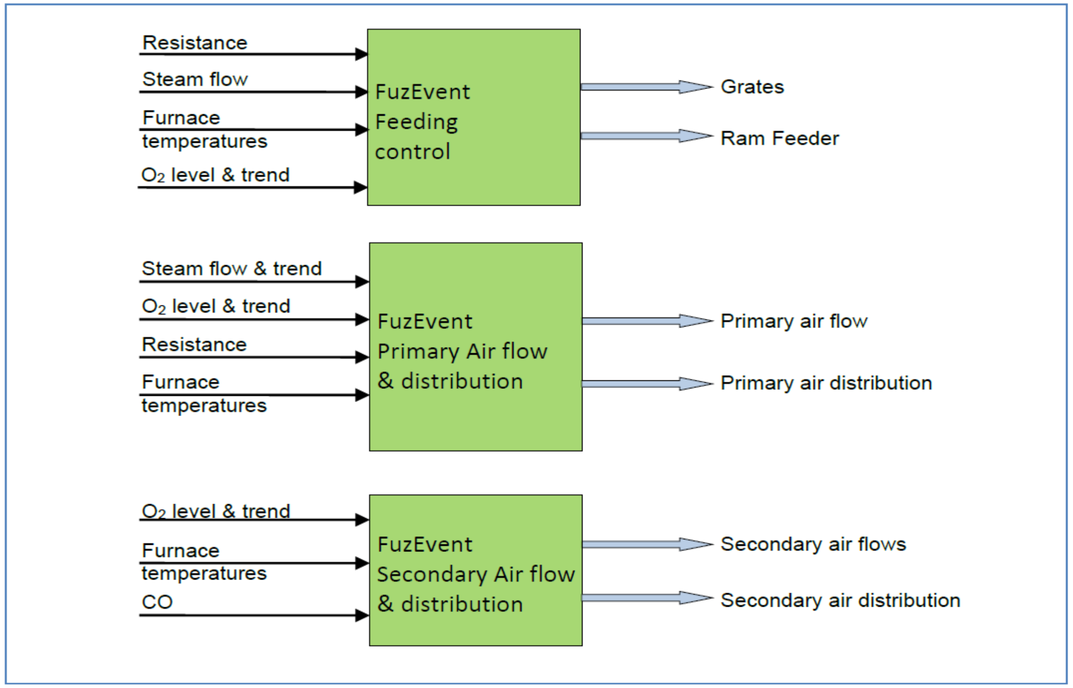


PLANS FOR THE NEXT YEAR



Unstable Steam Production – new build plant 1 months combustion data leading to highly unstable plant process conditions

Typical FuzEvent® control strategy structure



Yokogawa Electric Corporation

Dziękuję za uwagę