

Sofiyska Voda - Key Figures

- √ 25 years Concession Agreement (signed in year 2000)
- ✓ Veolia is a majority shareholder since 2010
- ✓ 77.1 % shares Veolia ; 22.9 % Municipality of Sofia
- √ 5 years business plans; Active BP 2017-2021

2019 key figures:

- ✓ Revenue 105 M €
- ✓ EBITDA 48 M €
- ✓ Investments 24 M €
- ✓ Employees 1186

Planned BP Investments (2017-2021) - 107 M €

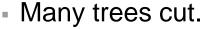
- ✓ 1.3 M serviced population
- ✓ 4 Drinking water treatment plants
- ✓ 152.6 M m³ production of water (2016)
- √ 4000 km water supply network
- √ 16 pumping stations
- √ 64 service reservoirs
- ✓ Network efficiency 52.4 % (2016)
- ✓ 1600 km sewerage network
- 2 Waste water treatment plants





Where we were?

- Delayed reactions;
- Main communication channels fax, phone, paper letters;
- Data verification and follow-up, YES but not all the time;
- Data bases not integrated, on paper, Access or Excel based;
- Often decisions taken based on intuition and/or feelings;
- KPIs collected at the end of the year, no ongoing monitoring;





Where we are now?

- Sofiyska voda is the only Bulgarian water operator which implemented all the required by the State Regulator registries and data bases through dedicated software;
- SCADA systems in place;
- GIS in place;
- CRM and ERP systems in place;
- Online and real time monitoring in place;
- Monthly monitoring of the company's KPIs
- The company's digital trip is in progress;
- Virtual customer support center in progress.

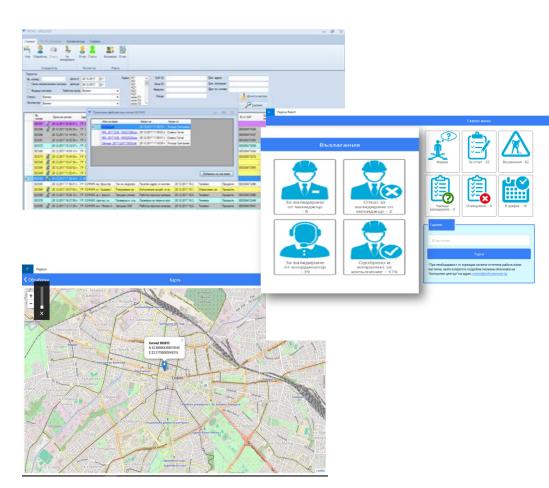


All this happened because of the top management support and end user need to be more effective and efficient

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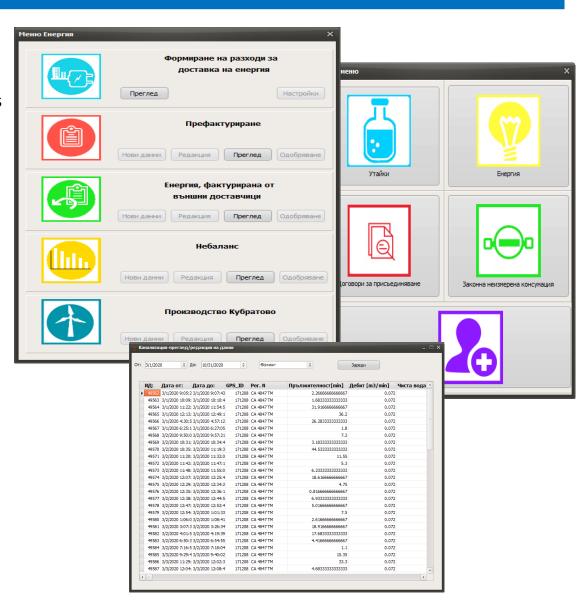
Some examples: Pegasus – management of operational events/cases

- The system (desktop and mobile version) allows for management of all signals received from citizens of Sofia, related to problems with the water supply and sewerage network through the Control Center of Sofia Water;
- Real-time signal management, including planning and performing the needed repairs of the network;
- Effective distribution and task allocation of the teams on the field;
- Ability to position the address of the actual construction/repair work on the city's map and company's GIS;
- All the data goes through constant validation by different management levels;
- The system is constantly updated and new modules and functionalities added.



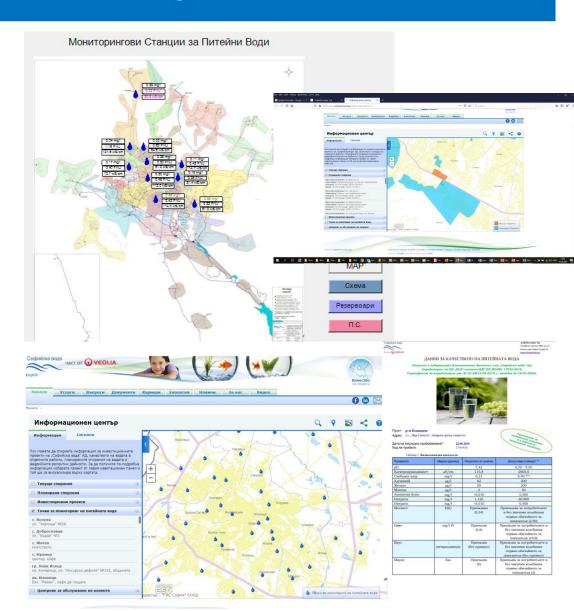
Some examples: Phoenix – integrated data base for energy balance, sludge management, connection contracts

- Tailor made software solution, replacing and consolidating existing excel and paper files and linked to different sources of data;
- Data base accumulating information for the company's production and usage of electricity, sludge production and utilization, contract for the connection of customers to the network and consumption of water for technological needs;
- The data base is directly linked and obtaining data from other company's systems and data bases.
- The data is validated by the respective senior managers and if corrections are needed, these have to be approved by their superiors. All version and correction logs are saved. That allows for traceability and reliability of the data;



Some examples: Online monitoring of the drinking water quality and interactive map

- 5 monitoring points, 20 devices for raw water in river catchments - temperature; turbidity; electrical conductivity;
- ➤ 40 devices for monitoring the production of drinking water – temperature, pH, turbidity, electrical conductivity, absorption units (organics), residual chlorine, organics, number of particles (0.2-0.5 micrometers), pressure;
- 10 devices for monitoring drinking water distribution – temperature, residual chlorine, turbidity, conductivity;
- Interactive city map with indicated all the existing points for the monitoring of the drinking water along with data for the main parameters;
- Interactive city map with indicated all the planned and emergency water interruptions at real time.



Opinion driven vs. data driven decisions?

- How many times, when your kid asked-WHY, you answered-BECAUSE I AM OLDER THAN YOU AND THAT IS MY VIEW ON THE TOPIC;
- Reliable data in place is a must for effective and efficient management decisions;
- But having reliable data is just not enough;
- We have to know what to do with the data and how to use it;
- The data should be well structured, analyzed and demonstrating certain trends and tendencies;
- The data should be comparable within and outside the organization
 the IAWD's Utility benchmarking programme is such a concept;
- We have started the preparation of the company's next Business plan 2022-2026 where the collected data from the current regulatory period will be the basis for the forecast.
- All and predictive analysis based on structured sets of data will be more and more used in near future, even in the water sector.

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THANK YOU FOR YOUR ATTENTION!

