



Structure of SmVaK's networks
in the Moravian-Silesian Region



ABOUT SMVAK

- Severomoravské vodovody a kanalizace Ostrava a. s. is the largest supplier of drinking water in the Moravian-Silesian Region and is among leaders in the water supply market in the Olomouc Region. SmVaK also supplies drinking water to a border territory in Poland (Jastrzębie-Zdrój).
- It ranks among leaders on the Czech water market.
- Its core business is production and supply of drinking water as well as discharge and treatment of wastewater. In 2015 SmVaK produced 64,448,000 m³ of drinking water. The water network is 5,053 km long. The sewage system is 1,774 km long.
- The majority owner of SmVaK is Aqualia Czech S.L. – it owns 98.68 % shares. The majority owner is owned by FCC Aqualia, S.A. (51 %) and MIT INFRASTRUCTURE EUROPE LIMITED (49 %).

TERRITORY OF OPERATION

- SmVaK operates in districts of Frýdek-Místek, Karviná, Nový Jičín and Opava
- SmVaK supplies water on the basis of contracts to Ostrava, Studénka, Hlučín and other towns
- It also supplies drinking water to a part of the Přerov district (Hranice na Moravě) and to a border territory in Poland (Jastrzębie-Zdrój)
- SmVaK operates sewage systems and a wastewater treatment plant in Bruntál and water supplies owned by the Association of Syrákov Municipalities in the Region of Zlín

BUSINESS

- The core business is production and supply of drinking water as well as discharge and treatment of wastewater

Production of drinking water

- 95 % of drinking water is produced from central resources managed by Povodí Odry (the river basin authority) in three main water treatment plants in the Ostrava Area Water Network Sources: dams Kružberk (in foothills of the Jeseníky Mountains), Šance, and Morávka (in the Beskydy Mountains)
- Ostrava Area Water Network – the key production and distribution system for supplies of drinking water in the Moravian-Silesian Region. This main water supply system consists of almost 500 km of water pipelines, reservoirs with the capacity of 303,000 m³ and water treatment plants which can treat 5,360 litres per second
- In some municipalities, water from local sources is used (for instance, for some towns close to Opava, Frýdek-Místek or Třinec)
- Water is also supplied for Ostrava (12,697,000 m³ in 2015) where it is distributed by OVAK, a.s.
- 39 water treatment plants and 217 pumping/re-pumping stations

Production of water (in thousand m³)

2012	67 365	2013	64 856
2014	64 533	2015	64 448

Supplies of drinking water

- Supplies of drinking water for more than 730 000 people, 130 303 service pipes (total length: 771 km)
- 379 water reservoirs (more than 390,000 m³)

Wastewater

- Sewage systems in 76 municipalities (total length: 1,774 kilometers)
- More than 521,000 people are connected to the sewage system
- 125 wastewater pumping stations
- 28,046,000 m³ of wastewater was treated in 2015
- 65 wastewater treatment plants (61 mechanical-biological plants and 4 mechanical plants) - total capacity: 268,680 m³ per day (equivalent population: 977,029)

Additional services

- Water metering vehicle
- Wastewater metering vehicle
- Disposal of wastewater
- Analyses of water
- Special technical assistance
- Operation and inspection of hydrants
- Searching for pipes and troubleshooting
- Hydraulic analysis of water networks and service pipes
- Metering of water meters (remote reading and monitoring of increased flow)
- Alternate supplies of drinking water
- Removal of sludge from water pipelines
- Construction and erection.
- Operation of rented sewage systems and wastewater treatment plants
- Hydraulic analysis of sewage systems

QUALITY OF WATER

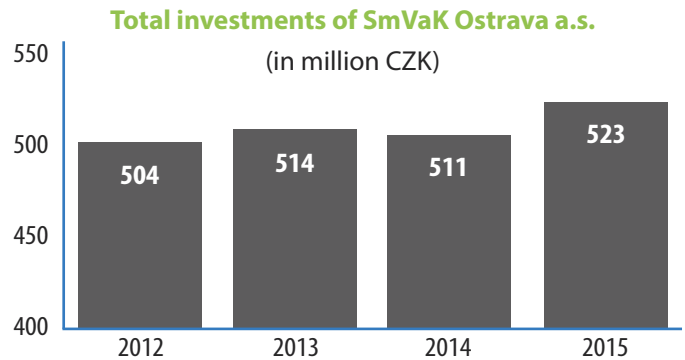
- High quality of water thanks to the central sources, treatment processes and water distribution processes
- Quality of drinking water is governed by laws incl. EU directives. Health safety requirements for drinking water, hot water and frequency/scope of checks of drinking water
- Continuous monitoring and analyses of quality of drinking water supplied in the water network. Permanent laboratory checks
- Analyses of raw water before treatment and during treatment. Analyses of treated water. Analyses of drinking water at customers' sites (samples taken from water taps)
- Publication of weekly results of the quality analysis at www.smvak.cz for different parameters
- Quality of water has improved in past years thanks to improvements in the environment (higher quality of raw water) and thanks to advanced methods introduced into water treatment processes

ECONOMIC PERFORMANCE

- Turnover in 2015: CZK 2.37 billion. Profit before taxation: CZK 495.84 million
- 125 218 customers as of 31 December 2015: 112, 310 individuals and 11,438 legal entities

INVESTMENTS

- SmVaK invests each year more than a half billion of CZK into reconstruction, renewal and construction of water/wastewater plants



SUSTAINABLE DEVELOPMENT

People

- Occupational safety is of key importance for SmVaK. Occupational safety is governed by ČSN OHSAS 18001. In 2015 SmVaK passed successfully the supervisory audit
- Risks are regularly identified and assessed. Measures are taken to eliminate risks which jeopardise the health and safety of employees. Modern personal protective equipment is used
- 863 employees in 2015

Environment

- Environment protection is among objectives. Investments into discharge and treatment of wastewater, renewal of non-compliant networks, reconstruction and modernisation of wastewater pumping stations and wastewater treatment plants
- Extensive investments into sewage systems in Karviná, Nový Jičín, Vítkov, Bílovec, Odry, Kopřivnice and Štramberk in 2015
- Investments into improvements of health parameters of sludge in wastewater management
- Investments into improved efficiency of wastewater treatment – reconstruction and installation of new facilities in wastewater treatment plants
- Owner of the ČSN EN ISO 14001:2005 standard

Community – the region

- Cooperation with the Technical University (VŠB-TU) of Ostrava
- The Grant programme which supports the active employees who volunteer in non-profit projects: We are in the same boat!