

Veolia at a glance

- Our mission is to resource the world. Improvement of our environmental footprint and that of our customers is central to our business and its economic model
- Veolia provides water, waste and energy management solutions to facilitate access to essential services and natural resources, and efficiently conserve, use and recycle those natural resources
- 220,000 employees worldwide (after merger with Suez)
- €38.4 billion (2021 revenue)
- 38,000+ employees across 14 countries in Central & Eastern Europe

ECOLOGICAL TRANSFORMATION IS OUR PURPOSE



UN Sustainable Development Goals (SDGs)

Veolia plays a part in all 17 SDGs at different levels and has a direct impact in **13** of them.



Key global challenges



• Climate change – global warming, water scarcity, drought & floods, biodiversity loss



• Energy crisis - soaring gas and electricity prices



• Economic crisis – high inflation



Geopolitical crisis – Ukraine war, US vs China tensions



Health crisis – ongoing COVID 19 pandemic

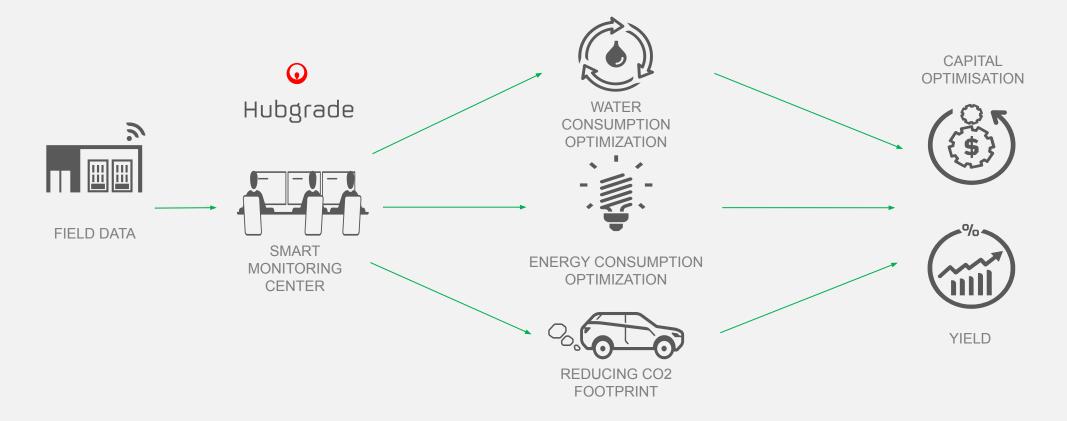


Veolia has the ambition and solutions to lead the ecological transformation

Selected references



Hubgrade – a smarter way to support the ecological transformation



• HUBGRADE is the combination of human expertise and digital power for operational and environmental efficiency. It guarantees reduction of energy consumption - between 5-25% of the annual consumption and increases the lifespan of the equipment.

Energy efficiency

Gold Standard



The road to carbon neutrality (2010-2021)
Sofia Wastewater treatment plant



- 233 million kWh generated green energy
- 107 million m³ utilized biogas
- 720 K tons reduced emissions CO₂
- 928 K tons of sludge utilized in agriculture 2013-2021
- 85% energy self-sufficiency in 2021 and 100% self-sufficiency targeted in the next Business plan (2022-2026)



Horizontal heating installations project DHN Varna



- DHW pipes replacement project
- Lower bills for central heating and hot water supply
- Lower carbon footprint and clean air inside the city by development the DHN
- 21% of buildings serviced by Veolia are switched to HHI(end of 2021)
- > 3800 MWh/annual energy saving to end customers (period 2014-2021)
- > 1000 tonnes of CO2 saved on annual base

Circular economy in motion



RENAULT – NISSAN Morocco: "Zero Carbon and Zero liquid discharge plant"



- Optimisation of the industrial processes to reduce water needs and minimise the corresponding waste discharged
- Reduction of the thermal energy consumption 35%
- Reduction on the water consumption 70%
- 135 000 t/p.a. of CO2 emissions avoided



VOLKSWAGEN POLAND: Heat recovery from technology



- Implemented installation of waste heat recovery to municipal District Heating Network (DHN)
- Providing "zero-emission" heat to ca. 30 nearby buildings
- Reduced 1 000 t/p.a. of CO2 emissions

Renewable energy solutions



Sheffield's energy recovery facility, United Kingdom



- Designed to handle up to 225,000 t of household waste a year, this ERF helps to save 2.5 t of CO2 every hour
- Generates up to 21MW of electricity to the National Grid, powering more than 25,000 homes
- Up to 45MW of heat is supplied to over 140 buildings connected to the DHN
- A trial project to highlight the latest carbon capture technology with Carbon Clean launched in spring of 2021



Toulouse Metropole – Blagnac District heating with geothermal and biomass renewable energy



- 2,500 housing served trough 40 delivery points and heating the public swimming pool
- The delivered energy contains only 52 g of CO2 per MWh delivered and avoids more than 2,067 tonnes of CO2 per year
- The new biomass heating plant has capacity of 1.7 MW and contributes to the momentum of the wood industry in the region
- 22 GWh heat sales and Renewable Energy Rate (ENR): 75%

Wastewater reuse, a second life for an essential resource

Czech Republic



 ERKO beer made from recycled wastewater utilising Veolia's proprietary mobile water treatment unit, which combines the most advanced membrane technology and activated carbon.

France



- The Veolia initiative aims to develop wastewater reuse at all compatible WWTPs
- With around 100 plants targeted, the initiative could save around 3 million cubic meters of drinking water, equivalent to the average annual consumption of a city of 180,000 inhabitants.

Singapore



- Showa Denko Singapore manufactures nearly 29 % of the world's hard disks
- Since 2006, thanks to the Unox technology for biological wastewater treatment, Veolia provides its customer at the Tuas site in Singapore with 4,224 m3/d of ultrapure water, which is essential for the smooth operation of its production process

Hawaii



 In Honolulu, Hawaii, Veolia provides 49,210 m3 / day of recycled wastewater for industrial and irrigation purposes

