

# **Veolia Water Technologies & Solutions**

**Business Overview**



# Overview

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**Veolia Water Technologies & Solutions**  
Technology & Expertise

2

**Partnership**  
What it means to us – and you

3

**Comprehensive**  
Products, processes, and solutions

4

**Case Studies**  
Lasting success for our customers

# When our customers win, we win.

**At Veolia Water Technologies & Solutions, we partner with you to meet the needs of your industry, your region, and your business.**

**With industry-leading water technology and process expertise, we build optimized solutions for lasting success.**



# Advancing the Global Mission of **Veolia**

Veolia group aims to be the benchmark company for ecological transformation by designing and providing game-changing solutions that are both useful and practical for water, waste and energy management. Through its three complementary business activities, Veolia helps to preserve, replenish and develop access to resources.



**220,000+**  
**Employees**

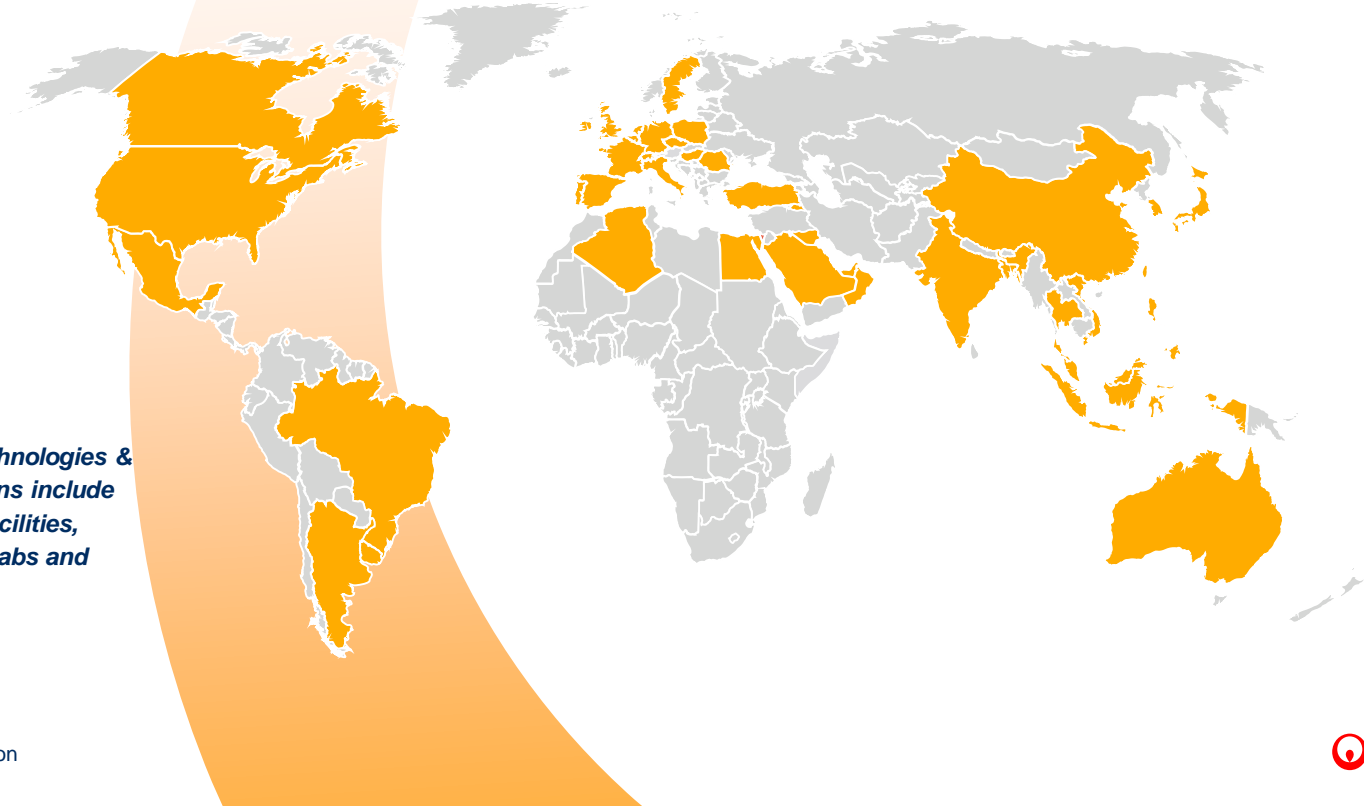
**€28.5 billion**  
**Revenue**

**48**  
**Countries with operations**

**€65.8 million**  
**Combined annual R&D investment**

# Drawing On Global Expertise & Infrastructure

■ *Veolia Water Technologies & Solutions locations include manufacturing facilities, service centers, labs and offices.*



# Proven Experience, Offerings, & Results



**10,000+**  
**Employees**

**50,000+**  
**Industrial and municipal  
customers served  
worldwide**

**10,000+**  
**Combined technologies**

**11.4 million m<sup>3</sup>**  
**of water treated every day**

# A Shared Culture of Accountability



## QUALITY

A zero-defect mindset  
defined by our customers



## SAFETY

A responsibility to protect  
people & the environment



## COMPLIANCE

A commitment to  
performance with integrity

# The industry expertise to reliably plan & deliver project success

With technologies, services and solutions grounded by decades of experience, our experts consistently deliver successful project outcomes.





# A forward-looking partner who keeps our customers ahead of the curve

We're building for the future today with innovative approaches to traditional and digital services and solutions that give our customers a competitive edge.



# **A commitment to responsible business for our customers and the environment**

**We're dedicated to having a positive impact on the environment. So we get customers to their performance and compliance goals with sustainable solutions.**



# A team who measures success by our positive customer impact

It's our job to solve problems and deliver peace of mind. So we work closely with every customer to improve productivity and protect their assets.



# Driving Results with a Comprehensive Portfolio Of Advanced Solutions

Backed by digitally- enabled technologies & services



Industrial water treatment



Industrial process enhancement



Wastewater treatment



Zero liquid discharge



Ultrapure water



Tough to treat water



Desalination



Waste to energy



Water treatment chemistry



Monitoring & automation



Membrane separation tech



Thermal separation tech



Disinfection technologies



Anaerobic digestion



High-precision instruments



Mobile & outsourced water

# A Unique Integrated Offering

## TECHNICAL SOLUTIONS & SERVICES



### EQUIPMENT SOLUTIONS

- water
- wastewater
- desalters
- analyzers

### ON-SITE SERVICES

- commissioning
- mobile assets
- advisory
- outsourcing

### WATER CHEMISTRY

- boiler
- cooling
- wastewater
- membranes

### PROCESS CHEMISTRY

- corrosion inhibitors
- emulsion breakers
- H<sub>2</sub>S scavengers
- fuel additives



## ENHANCED & PROVEN



### DIGITAL TOOLS

- InSight\*
- TrueSense\*
- COMS

### INNOVATION

- in-house R&D
- industry partners
- training

### REFERENCES

- global customers
- local service & support across industries

# Resourcing the world

Veolia Water Technologies & Solutions is an established leader in water technology and process expertise across industries worldwide.

With a comprehensive portfolio of products, processes, and solutions, we partner with clients to build optimized solutions for lasting success.



# Appendix



# COMPREHENSIVE SOLUTIONS RESULTS YOU NEED

Veolia Water Technologies & Solutions experts leverage industry-leading processes, wide-ranging services and a broad technology portfolio to help you address critical process, water and wastewater needs while hitting your operational, environmental and sustainability goals.

Whether you need to treat wastewater for reuse, ensure increased operational efficiency, or reach the highest levels of water purity, we deliver the services, technology and expertise to get you there. Our teams have the experience to quickly understand your needs and implement solutions that create lasting value.





# **INCREASED PRODUCTIVITY & YIELD** **RELIABLE ASSET PROTECTION** **ENVIRONMENTAL COMPLIANCE**

The Veolia Water Technologies & Solutions team works to understand your goals, helping guide you to a solution that fits your requirements.

We apply best-in-class water and process chemicals, treatment services, subject matter expertise, and digital tools to optimize your resources, conserve usage, and enhance profitability and satisfaction — positively impacting your bottom line.



## **CASE STUDY:** **PETRONAS (MALAYSIA)**

### **THE CHALLENGE**

Ensure continued operation at Petronas's strategically vital Pengerang refinery during the construction of a permanent water treatment facility

### **OUR SOLUTION**

- Rapid deployment of mobile water treatment system to produce high-purity demineralized water for steam blows & other commissioning activities
- Experienced Veolia operations team providing 24/7 support

### **RESULTS**

- Named Industrial Water Project of the Year by Global Water Intelligence
- Timely commissioning and pre-commissioning to achieve refinery RSFU target
  - Make-water reached just four days after receiving treated water feed

## **CASE STUDY:** **PENN STATE UNIVERSITY**

### **THE CHALLENGE**

Determine the composition of a new water source and optimize impact on the school's capital equipment lifespan

### **OUR SOLUTION**

- Data analysis by a Veolia Water Technologies & Solutions analytical laboratory
- Remote online monitoring through the Insight APM system

### **RESULTS**

- Over \$130,000 combined annual savings
- Reduced water consumption by at least 4.5 million gallons/year
  - Reduced chemical usage by 15%
  - Preserved important capital equipment

# **CASE STUDY:**

## **FEDERATED CO-OPERATIVES LIMITED CRC WASTEWATER IMPROVEMENT PROJECT**

### **THE CHALLENGE**

Reach aggressive environmental goals for one of the largest freshwater consuming refineries in Saskatchewan.

### **OUR SOLUTION**

- A 5-stage wastewater treatment solution combining new membrane technology and chemistry
- Advanced water treatment technologies, including ZeeWeed ultrafiltration membranes and High pH RO

### **RESULTS**

- Named Industrial Water Project of the Year by Global Water Intelligence
- Enabled the recycling and reuse of 2 million gallons of wastewater per day
  - Reduced refinery's freshwater needs by 28%, despite 30% production expansion

# CASE STUDY:

## 3,000 MW US COAL-FIRED POWER STATION

### THE CHALLENGE

Achieve aggressive EPA goals by limiting significant dissolved contaminants from discharged wastewater

### OUR SOLUTION

- Integrated chemical & biological treatment
- Physico-chemical treatment sequence
- MetClear\* metal sequestrants
- Remote monitoring with InSight APM
- 2-stage ABMet\* bioreactor
- PolyFloc\* and Novus\* polymers

### RESULTS

- Met or exceeded all EPA requirements plus significant removal of four other toxic pollutants
- 98% mercury removal in phys/chem system
  - Over 99% selenium removal via ABMet
  - Over 99% removal of nitrate/nitrite via ABMet

# Thank You