





Contents



1. Veolia Group

- o World Leader in Environmental Services
- o Our experience: 160 years of industrial history
- o Our commitments to sustainable development

2. Veolia Korea

- o History
- o Activities in 3 Business lines
- o Corporate Social Responsibility



1. Veolia Group

World Leader in Environmental Services

- Our experience : 160 years of industrial history
- o Our commitments to sustainable development

World Leader in Environmental Services



2015 Revenue: € 24.96 billion*

173,959 employees



Water Services

€11.34 billion (+1.0% vs.2014)



Waste Management & Resource Recovery

€8.69 billion (+3.0% vs.2014)



Energy Services& Optimization

€4.92 billion (+4.0% vs.2014)



1. Veolia Group

World Leader in Environmental Services

- o Our experience: 160 years of industrial history
- Our commitments to sustainable development

Our experience: 160 years of industrial history

1853

FOUNDING

of Compagnie Générale des Eaux 2003

THE GROUP

is renamed Veolia **Environnement** 2014

THE NEW **VEOLIA**

Resourcing the world

1853 – 1900

1900 - 1939

1945 - 1992

1992 - 2013

2014 - ...

Drinking water is delivered to cities to meet the challenge of urbanization.

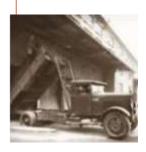
Wastewater services. waste treatment and access to energy expand on a large scale.

Environmental services provide support for reconstruction and the industrial growth.

A concern for sustainable development gradually emerges as a global priority.

In the face of growing scarcity, resource management must be reinvented to create a new economic and social dynamic.













1. Veolia Group

- World Leader in Environmental Services
- Our experience : 160 years of industrial history
- o Our commitments to sustainable development

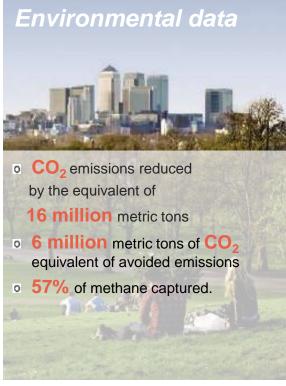
Our commitments to sustainable development



- 850 experts worldwide
- 6 specialized international research centers
- 220 academic and industrial partners
- o 250 pilot sites
- Over 2,000 patents



- 436,000 training courses
- 75.5% of employees received training in 2015
- More than 1 in 3 training hours are devoted to health and safety every year.
- 20 training campuses in 10 countries
- 10% Objective of reducing the accident frequency rate per year



(2015 global data)



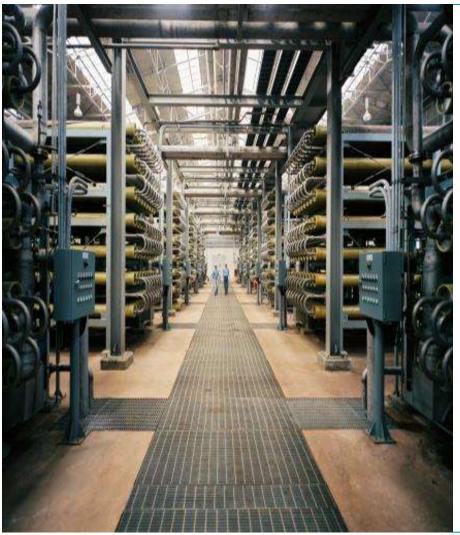
2. Veolia Korea

o History

。3 Business Lines

Corporate Social Responsibiliy (CSR)

History



- Established in 1999 in Seoul
- 20 operational sites with 540 employees
- 9 industrial water contracts, 1 municipal wastewater service contract, 2 waste management companies and 2 energy service contracts
- Single Company name to Veolia in April 2014
- Veolia's commitment in Korea :
 - The ability to cover all aspects of environmental management:
 water, wastewater, energy and waste business
 - Environmental services for municipalities and all industries:
 Petrochemicals, microelectronics, automotives, food &
 - Petrochemicals, microelectronics, automotives, food & beverages, metals, pulp & paper, power, oil & gas, Pharmaceuticals, etc.
 - IMS certificate for all operation sites

Awards & certifications

o Dec 2001	Awarded President citation as one of the best foreign investment companies
o Dec 2004	Awarded Prime Minister citation as one of the best foreign investment companies
• Jul 2007	Achieved IMS (ISO9001, ISO14001, OHSAS18001) certification for municipal projects in Songdo and Mansu, Korea
• Jul 2008	Achieved IMS (ISO9001, ISO14001, OHSAS18001) certification for all industrial projects in Korea
o Dec 2009	Awarded MOE (Ministry of Environment) citation for environmental contribution
• June 2011	Achieved IMS (ISO9001, ISO14001, OHSAS18001) certification for Seoul HQ office

June 2014 Achieved IMS certificate for all water projects in Korea



2. Veolia Korea

o History

o 3 Business Lines

o Corporate Social Responsibiliy (CSR)

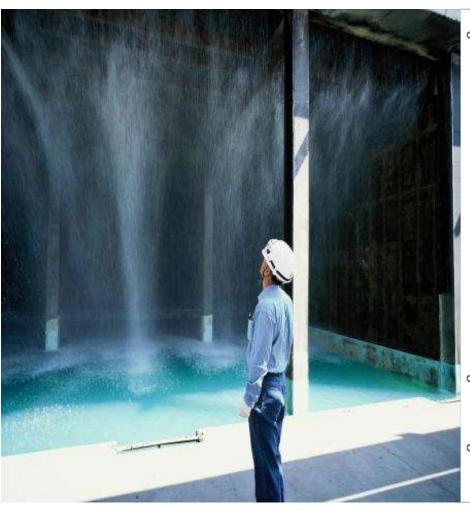
3 Business lines in Korea



Veolia provides *integrated solutions* for water & wastewater, waste and energy services

3 Business lines – Water Management





- Water and wastewater management for
 - Industrial clients:
 - Supplying and treating process water, cooling water, RO, demi water, boiler feedwater, UPW and wastewater
 - Operating and maintaining treatment facilities
 - Managing solids (sludge), recycling/reusing water and recovery of materials in wastewater
 - municipalities:
 - Collecting and treating wastewater
 - Operating and maintaining WWTP and its energy selfsufficiency
 - Treating sewage sludge, recycling/reuse wastewater
 - CSO management
- Design & construction of technological advanced solutions for the provision of water services
- Providing total solutions & services for added value

3 Business lines – Water Management

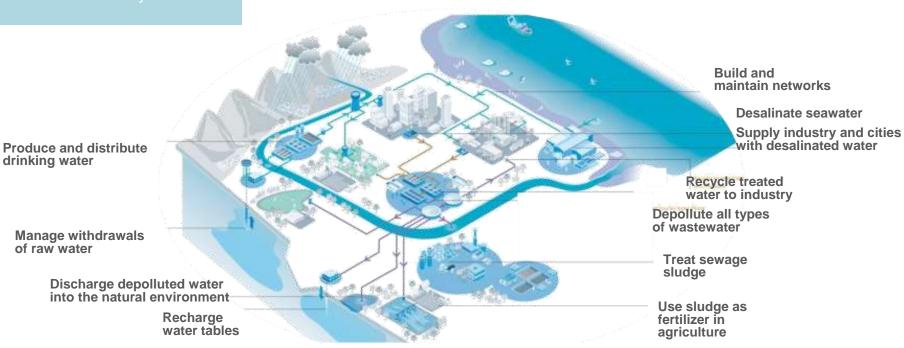


Global key figures €11.34 Bil in revenue

100 Mil people supplied with drinking water

63 Mil people connected to wastewater systems

VEOLIA Manages the water cycleWith a focus on saving and protecting resources



3 Business lines – Waste management





- Production of energy, organic and raw materials from waste
- Waste plastic recycling (SRF Production, Recycling to plastic flakes)
- Waste management and logistics for municipalities and industrial clients (maintenance, cleaning, sewer cleaning, collection and transfer)
- Sorting, treatment and recycling services for hazardous & non-hazardous waste by incineration, composting, landfilling & physicalchemical treatment
- Biogas generation

3 Business lines – Waste management



Global key figures
€8.69 Bil in revenue
39 Mil inhabitants served
42.9 Mil metric tons
of treated waste

VEOLIA is the only global operator offering

The complete range of the waste management services



3 Business lines – Energy management





- Energy management: district heating and cooling
- Industrial energy services: steam and electricity supply
- Energy efficiency and renewable energy
- Integrated facilities management
- Design, build, operation & maintenance of combines heat & power (CHP) and utilities plants
- Reduction in carbon footprint through biomass, cogeneration and energy recovery

3 Business lines – Energy management



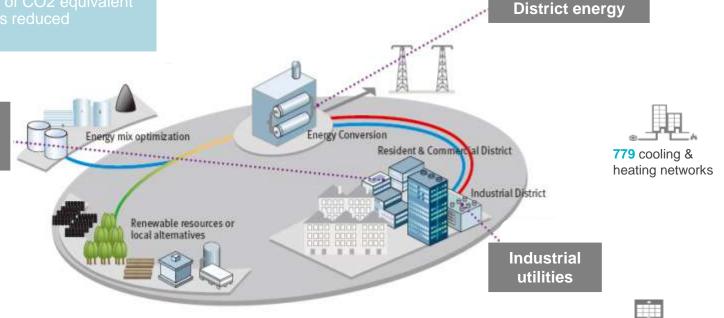
Global key figures

€4.92 Bil in revenue

53 Mil MWh generated

16 Mil metric tons of CO2 equivalent emissions reduced

The benchmark in regional energy savings



23,000 education, sports & leisure centers

Building energy

services

480 biomass

facilities

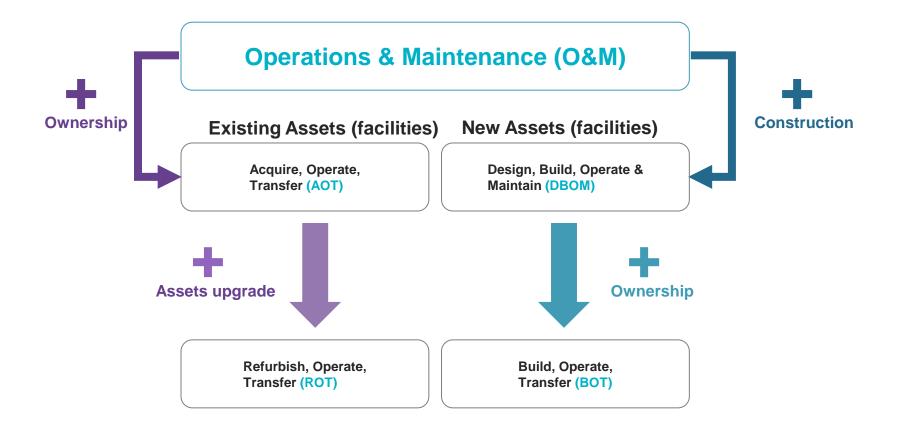




380,000 beds in 6,000 healthcare facilities

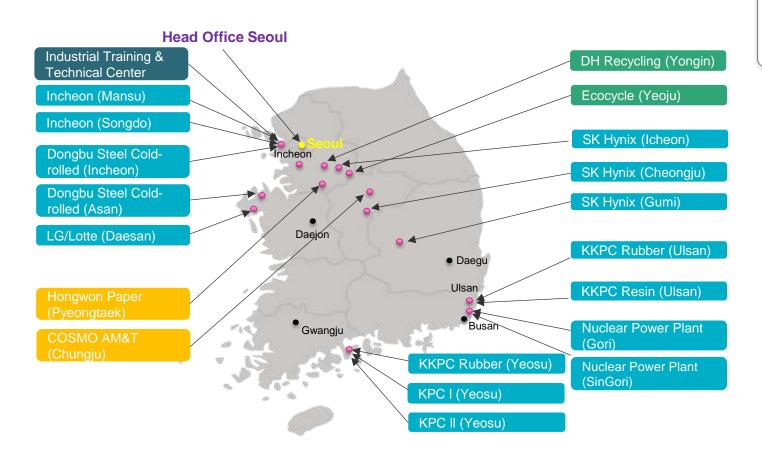
3 Activities: O&M

Providing Tailor-Made Contractual Solutions



3 Activities: O&M

Over 540 employees in 20 sites





KKPC: Korea Kumho Petrochemical Corporation KPC: Kumho Polychem

3 Activities: O&M water services in Industrial sector - 1

Client	Contract start & duration	Contract type	Capacity
LOTTE CHEMICAL SEETEC	Mar 2000 (20 years)	Acquire, O&M, Transfer (AOT)	 Demi Water: 41,120m³ /d RO Water: 84,000m³/d Cooling Water: 1,861,224m³/d Domestic Water: 5,235m³/d
SK hynix	Mar 2001 (17 years)	Acquire, O&M, Transfer (AOT)	3 sites: Icheon, Cheongju & Gumi Ultra Pure Water: 100,440m³/d Wastewater treatment: 34,880m³/d Water treatment: 102,000m³/d
Dongbu Steel	Mar 2010 (15 years)	Acquire, Operate, Transfer (AOT)	Asan Bay & Incheon Cold Rolled Plant RO water: 10,000m³/d Cooling water: 220,000 m³/d Wastewater: 8,000m³/d

3 Activities: O&M water services in Industrial sector - 2

С	lient	Contract start & duration	Contract type	Capacity
кимно	POLYCHEM	Oct 2005 (15 years)		Yeosu KPC 1 Cooling Water: 181,200m³/d Wastewater treatment: 2,640m³/d Water treatment: 3,600m³/d
		May 2013 (Same as KPC 1)		Yeosu KPC 2 Cooling Water: 144,000m³/d Wastewater treatment: 3,600m³/d Water treatment: 4,152m³/d
KUMH	IO DCHEMICAL	Oct 2004 (15 years)	Operate,	Yeosu Rubber Cooling Water: 514,800m³/d Wastewater treatment: 5,180m³/d Water treatment: 6,000m³/d
		Dec 2005 (15 years)	Maintain (O&M)	 Ulsan Rubber Cooling Water: 352,800m³/d Wastewater treatment: 13,000 m³/d Water treatment: 11,520m³/d
		Apr 2007 (15 years)		 Ulsan Resin Cooling Water: 143,976m³/d Wastewater treatment: 5,300m³/d Water treatment: 6,000m³/d
O V	CHIP	Oct 2014 (3 years)		 Treated water: 10,582 m³/d Seawater Electrolysis: 8,654 m³/d Condensate Polishing: 145,976 m³/d Wastewater treatment: 3,906 m³/d (Gori & Shingori)

3 Activities: O&M water services in Municipal sector

Client	Contract start & duration	Contract type	Capacity	Technologies
이 인천광역시 schoon Metropolitan City SAMSUNG 삼성엔지니어링	Dec 2001 (20 years) Operation start : Apr 2005	Build, Transfer, Operate (BTO)	100,000m³ treated per day Mansu: 70,000m³/d, Songdo: 30,000m³/d	Mansu Plant: Azenit™-P Wastewater treatment by activated sludge Enhancing the removal of carbon, nitrogen and biological phosphorous pollution Songdo Plant: Biostyr™ Compact biological technology Perfect for facilities where space is limited

1st PPP (Public-Private Partnership) for a foreign company in wastewater service sector

3 Activities: O&M waste services in Industrial sector

Plastic Recycling

Project	Partner	Operation start	Capacity	Client sectors
ECOCYCLE	100% owned by Veolia Korea	Feb 2007	RPF: 20,000ton/yr Fluff SRF: 50,000ton/yr	Cogeneration plants, paper mills, cement industry
DH Recycling Ltd.	Joint Venture between Veolia Korea (51%) and Daehan Environment (49%)	Aug 2014	Plastic waste treatment: 20,000ton/yr Recycled plastic flake production: 15,000 ton/yr	Municipal collection center apartment complex & plastic manufacturing Company

3 Activities: O&M energy services in Industrial sector

Energy Service

Client	Operation start	Contract type	Capacity & service scope	
HONGWON	November 2014 (10 years)	Acquire, Operate, Transfer (AOT)	Boiler equipment operation & maintenance, Steam supply: 1,200 ton/d	
⇔ COSMO	November 2014	Acquire, Operate, Own (AOO)	Boiler equipment operation & maintenance, Steam supply: 528 ton/d	

3 Activities: Engineering · Procurement · Construction (EPC)

- Design, build and upgrade water facilities and systems for public authorities and industrial clients
 - Deliver engineering standard equipment to turnkey design & build projects
- All-encompassing range of solutions and technologies to leverage the value of water, waste and energy resources
 - Treat or reuse wastewater & waste,
 - Extract raw materials from waste & wastewater
 - ZLD (Zero Liquid Discharge)
 - Produce or recovery energy
- Sustainable solutions for added value
 - Over 350 proprietary technologies

27

3 Activities: EPC references in Industrial sector

Client	Contract award	Project	Capacity	Scope	of Project
POSCO ENGINEERING	May 2008	WT & WWT for Campiche 242MW Coal Fired Power Project(Chile)	Demi Water : 1,200m³/d, WWT : 550m³/d	Engineering, Supply, Programming, Commissioning	
GS E&C (Under SUEZ- Tractebel S.A.)	Jul 2010	OMAN Sohar2 & Barka3 IPP Project	Water: 3,552m³/d, Wastewater: 240m³/d	Engineering, Supply, Supervisor of Commissioning	
VEOLIA Oil & Gas	Dec 2011	Petro Bataan RMP 2 Project	16,800m ³ /d	Engineering, Supply, Supervision of Commissioning	
Mando	Jun 2012	Soluble Emersion Oil treatment	10m³/day	Evaled™ RV Series TC10000	

3 Activities: EPC references in Municipal sector

Client	Contract award	Project	Capacity	Scope of Project
DAELIM	Dec 2011	Gwangju T-P Removal	659,000 m ³ /d	Engineering, Supply, Installation, Commissioning for Actiflo TM systems
DAEWOO E&C	Aug 2012	Saemankeum CSO	30,000 m ³ /d	Engineering, Supply, Installation, Commissioning for Actiflo TM systems
DAELIM	Oct 2014	Godeok Industrial Complex Tertiary Treatment facility	102,000 m ³ /d	Engineering, Supply, Installation, Commissioning for Actiflo TM systems
Geoje City	2015	Geoje energy self-sufficient project	40 ton/day as 20% DS	Exelys TM with mesophilic anaerobic digestion – sludge reduction
Yeosu City	2015	Yeosu energy self-sufficient project	47.6 ton/day as 20% DS	Exelys TM with mesophilic anaerobic digestion – sludge reduction & replacement of LNG for sludge dryer

3 Activities: Service activities

Services Consumables HYDREX™ Chemical services Advanced water treatment total services Tailor-made formulation chemical of water system for Under water robot cleaning service industries & municipalities • Full on-site audits for process water optimization Standard products • Pilot and water analysis service with VITTC (Veolia Industrial Technical & Training Center) located in Songdo Aguafab, Endetec (Tecta[™]/Kapta[™]) AquaVista including SCADA Supply spare parts Diagnosis for whole water system UV system, Activated Carbon, Micro-sand, Membranes All of spare parts for water system



Robot cleaning



 $Hydrex^{TM}$



Lab analysis

ITTC (Veolia Industrial Training & Technical Center)

- Opened in October 2013 located in Songdo
- Entirely dedicated to industrial services
 - Industrial hub for equipment and process testing for operational optimization, business development for prospects to demonstrate its showcase solutions to potential clients
 - Providing water quality analysis
 - Enhancing competency training in specialized industrial fields



Facilities and equipment

- Two story eco-friendly building located in the area or 3,300m² is equipped with an auditorium, integrated water quality laboratory, and water treatment pilot plant hall specialized in industrial operations.
- Co-work with local community and educating students













2. Veolia Korea

o History

o 3 Business Lines

o Corporate Social Responsibiliy (CSR)

Corporate Social Responsibility (CSR)

Raising awareness of importance on Environment

Public Education :

Experimental tool related in water for children developed by Veolia in 1995

Site Tour :

Tour on water treatment plant for students, local organizations, citizens to educate water treatment





Clean - up campaigns

 Organizing environmental volunteering campaigns as opportunities to contribute to the community where Veolia operates



Local Community Charity

 Sustainable support by visits and donations to help people in need





Thank you!



www.veolia.co.kr

