

FPS general presentation









NPO

National Pensions Office Civil servants

PSPS

Public Sector Pensions Service Contract workers

First pilar organisation

with a modest role as insurance company in the 2nd pillar

Has a **Management Agreement** with the Belgian federal government

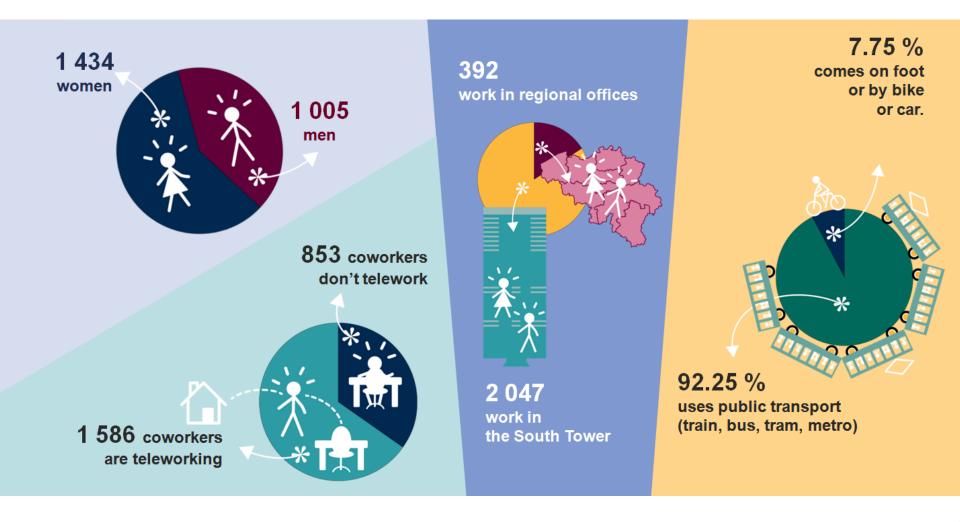
4 Missions

- 1. To inform and to give advise on (future) pension
- 2. To determine and to allocate pension rights
- 3. To ensure pension payment
- 4. To support decision makers

Value-driven organisation

- 1. FPS wants to prove his power to dare with his productivity, innovation, creativity and dynamism
- 2. FPS acts customer focused
- 3. FPS acts people focused (customers, collaborators)
- 4. FPS wants to improve quality and efficiency

FPS general presentation



FPS challenges with energy-efficiency

Taking care of public money

Long-term view on energy and asset management to avoid unexpected costs

Exemplary building

Reduced carbon emissions, fossil fuel dependency and water consumption Highest tower in Belgium

Popularity and public attention, reputation can be at stake

Measurable results

Need for transparency and traceability for all stake holders

Veolia Belgium and Luxembourg

Business lines



Management of the global water cycle

from production and distribution of drinking water to the collection, treatment and recycling of wastewater



Energy efficiency, efficient management

of heating and cooling networks, green energy production, all unique expertise for a sustainable world





Liquid and solid nonhazardous and hazardous waste management

covering the entire waste life cycle from collection to recycling, leading to the final recovery of waste as materials or energy

Market and customers

- Energy-efficiency in buildings
- 2 Industrial utilities
- Heat and cold networks





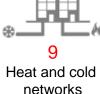
147
Tertiary
buildings



20 CHPs



91 Healthcare sites





61 Industrial sites



800 Municipal customers

Veolia's understanding of the challenges

Enhancing attractiveness to customers and tenants

Reducing
costs
without compromising
quality and comfort

Increasing property value while promoting sustainability

How?

- Bring behavior change
- Increase systems efficiency
- Optimize essential services
- Continuous monitoring

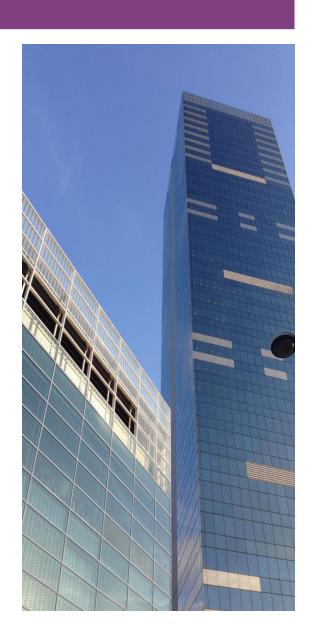


Concrete case – Brussels South Tower

- General data
 - 38-storey, 148 m skycraper
 - Built between 1962 and 1967
 - Intended for the FPS
- Operation and maintenance
 - Supplied by Veolia since the end of the construction
 - 1968 1st contract
 - 1990 2nd contract *Energy-efficiency guarantees*
 - 2002 3rd contract

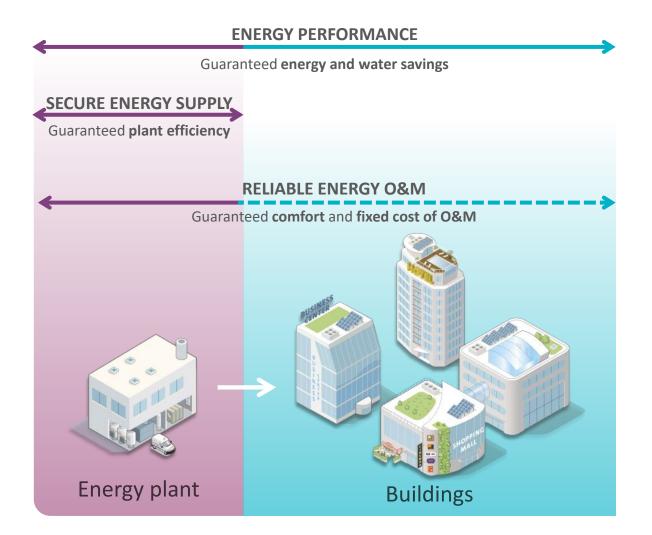
• 2008 – 2012 Energy-efficiency works

• 2015 4th contract



Veolia's commitments

Performance guarantees



Performance guarantees

Reliable Energy O&M

- 24/7 Energy supply
- Quality of utilities
- Fixed cost of O&M
- Comfort: Temperatures, Lighting, Indoor Air Quality

Secure Energy Supply

- Cost of utilities
- Efficiency of energy systems

Energy Performance

- Energy, water and cost savings
- CO2 emission reduction

Veolia's expertise

Services delivery

- Single Point of Contact for all energy, water and waste management challenges
 - HelpDesk 24/7
 - CMMS/CAFM system
 - Mobilization plan
- Performance monitoring, analysis and reporting



ENERGY

- Energy Performance Contracting (EPC)
- Design, Build, Operation and Maintenance
 - o HVAC systems and networks
 - Electrical facilities and BMS
 - Building Energy Management Systems (BEMS) and metering solutions
- Emergency and back-up generation
- Combined Heat and Power (CHP)
- Engineering and installation works
- Electrical efficiency
 - High frequency electricity monitoring
 - Demand response / Flexibility
- Renewable energy solutions
 - o Solar
 - Biomass
 - o Geothermal



WATER

- Maintenance of the cooling towers
- Control of legionella and health related risks
- Water conservation programs
- Water and waste water treatment plants



WASTE

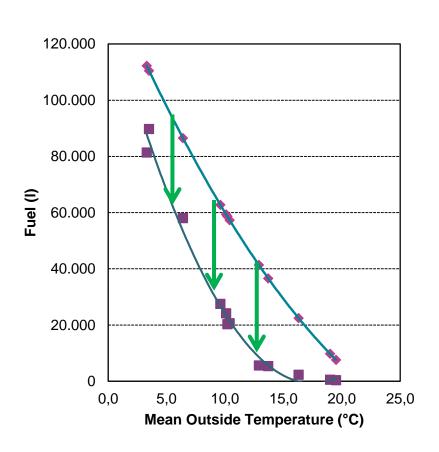
- Hazardous and non-hazardous waste management
- E-Waste disposal & recycling
- Biowaste solutions
- Integrated Facility Management

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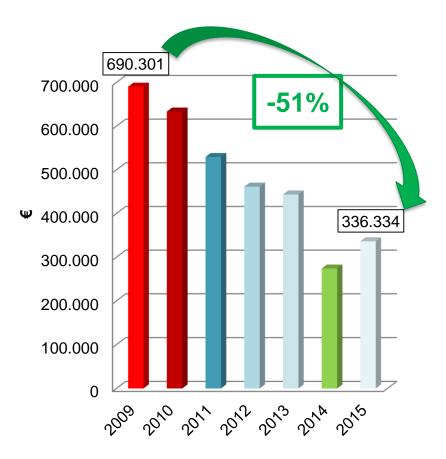
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Results

Fuel - 2009 vs 2015

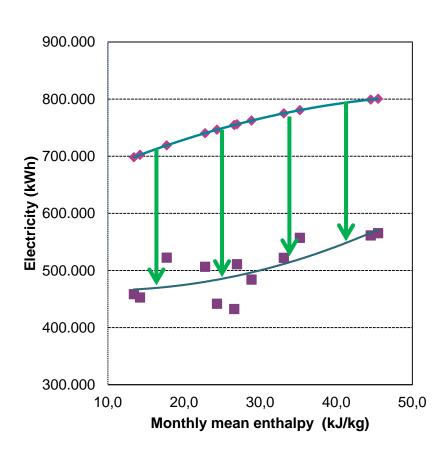


Fuel bills

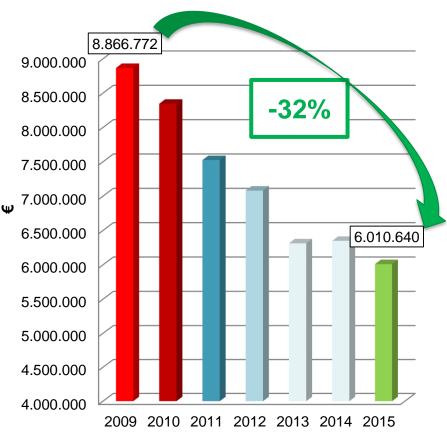


Results

Electricity – 2009 vs 2015

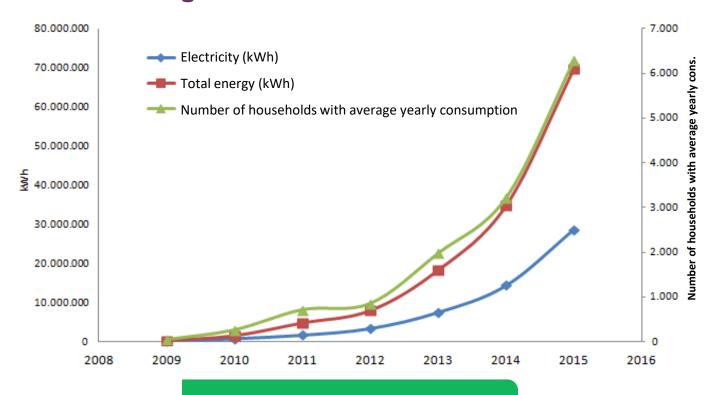


Electricity bills



Results

Cumulated savings



More than 70.000 GWh spared





Energy Efficiency Services

Smart and green solutions for all challenges of private and public customers