



A diverse and
sustainable world



IUCN
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Presentation

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Acting for Biodiversity, a natural calling for a water company

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Who are we ?



Only group in the world able to cover the entire range of **environmental services** in:

Water

(Management of water cycles)

Energy

(Energy management)

Waste management


(Waste recovery)

Transport

(Transport of people and goods)



Veolia Environnement and Biodiversity

 **Protect** the environment, contribute to conserving natural resources and biodiversity, and combat climate change.

Our sustainable development charter

Veolia Environnement's commitments

-  **Protect** the environment, contribute to conserving natural resources and biodiversity, and combat climate change.
-  **Promote** - through innovation, research and development - environmental, economic and social solutions that will meet the needs of future generations.
-  **Raise** awareness of environmental challenges and the ensuing need for behavioral changes among all concerned with our activities.
-  **Adapt** our service offers, through dialog, the quality of the advice we provide and our expertise, to meet the needs and expectations of clients.
-  **Ensure** our employees health and safety and help improve public health.
-  **Provide** working conditions in which fundamental human rights and international labor standards are complied with.
-  **Promote** diversity and combat discrimination to guarantee equal opportunities.
-  **Encourage** skills development and upward mobility for our employees throughout their career.
-  **Gradually set** our own environmental and social standards to be applied to all our operations around the world.
-  **Base** our corporate governance on transparent communication, articulation of risks and the definition of rules for ethical conduct and compliance.
-  **Contribute** to local economic and social development, and to meeting international goals for access to essential services.
-  **Encourage** partners, subcontractors and suppliers to adhere to our values and make their own contribution to our sustainable development commitments.



Our biodiversity approach since 2004



Characterizing the impacts of our activities



Managing biodiversity in our facilities



Integrating biodiversity management within our Environmental Management System (ESM)



Who are we? Veolia Water in Veolia Environment



Veolia Water is the water and wastewater services branch of Veolia Environnement

Activities:

- ▶ **Managing water and wastewater services for public authorities and industry**
- ▶ **Designing technological solutions and building the facilities required to deliver these services**



Veolia Water and Biodiversity

Veolia Water has implemented its own biodiversity policy :

1 goal: developing an integrated approach to biodiversity conservation

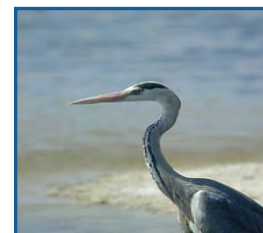
3 dimensions of action:



Monitoring
ecosystems



Management
of the green
areas



Working
with Nature

1 deep conviction: the succes of our biodiversity policy strongly depends on the involvment of all our partners

1 goal: developing an integrated approach to biodiversity conservation

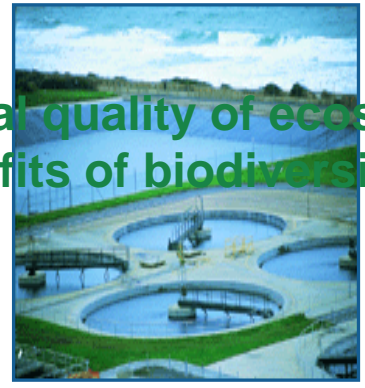
Biodiversity performs services that are useful for our activities ...

Developing an integrated approach to Biodiversity Conservation
Wastewater treatments strongly rely on microorganisms

Preserving and enhancing the ecological quality of ecosystems to ensure in the long run the benefits of biodiversity



Nature (especially flora) can help in wastewater treatment



....and our activities interfere with Biodiversity

- *VE is making a positive contribution to the protection of biodiversity by reducing the amount of pollution affecting ecosystems*
- *Secondary impacts: residual pollution contained in our wastes, consumption of natural resources*

3 Dimensions of actions

Monitoring Ecosystems (1/2)



- **Conduct wildlife surveys and inventories of the quality of aquatic environments**
- **Establish and test bio-monitoring systems for aquatic environments**
- **Adapt discharge level to the sensitivity level of environment**
- **Diagnose causes of dysfunctions in dry and wet conditions**
- **Identify room for improvement (wastewater treatment, channel and river remaindering, etc.)**

3 Dimensions of actions

Monitoring Ecosystems (2/2)

Close
Up

Biomonitoring of the Almont stream in Melun, France



- A county town located 30 miles SE of Paris
- The stream is seriously impacted by human activity in the Melun watershed
- It flows into the Seine, a point considered as a sensitive area
- ➔ VW monitors the stream's water quality twice a year, using biological indicators (IBGN & IBD)

3 Dimensions of actions

Management of the Green Areas (1/2)



- **Combat the proliferation of invasive exotic species on the water and wastewater landholdings**
- **Use no artificial plant-care products and promote alternative techniques for weed control**
- **Create and nurture microhabitats conducive to the local flora and fauna because it also enhances the water quality and preservation...**

3 Dimensions of actions

Management of the Green Areas (2/2)

Close
Up

Bolivar wastewater treatment plant, Adelaide, Australia

- The Bolivar site is rich in biodiversity and plays an essential role in local ecosystem



Thanks to VW and other local partners, the restoration of different habitats has resulted in numerous changes



The site's ponds provide food and shelter for several hundreds birds



Hothouses will be built to allow vegetation that had been lost to the area to brought back



3 Dimensions of actions

Working with Nature (1/2)



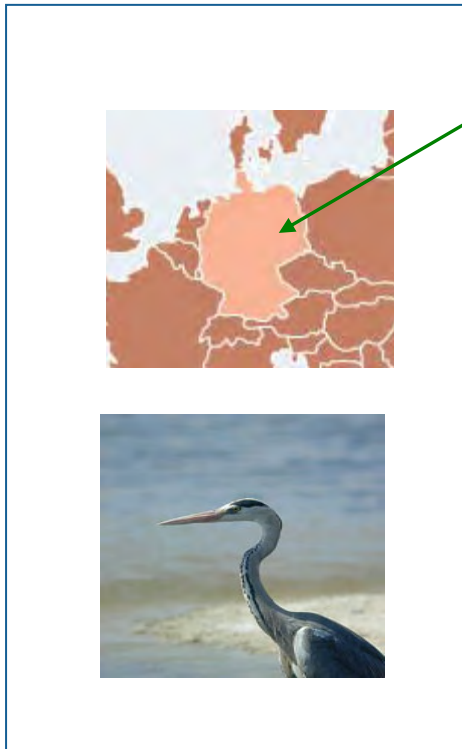
- **Preserve/restore natural environments as part of complementary wastewater treatment (wetlands, marine environment)**
- **Use treated wastewater to preserve or re-create environment of interest (bogs, wetlands, planted filters for tertiary treatment)**
- **Enable additional uses for water and wastewater infrastructure (storm water basin to which an ecological function is given in addition to its original hydraulic function, green roofs, etc)**
- **Make sure the ecological continuity of watercourses and natural species is not disrupted and create connections**

3 Dimensions of actions

Working with Nature (2/2)



Waßmannsdorf wastewater treatment plant, Germany



● A local peat bog had been dried up because of an overexploitation of the groundwater

➔ VW proposed to use recycle treated wastewater effluent to restore this wildlife habitat

➔ The results are fairly satisfactory, both in terms of biodiversity and visual aspects

1 Deep conviction: the succes of our biodiversity policy strongly depends on the involvment of our partners

For us, working with all our partners means :



Training and educating our operators




Promoting environmental education



Partner NGOs and local associations

1 Deep conviction: the success of our biodiversity policy strongly depends on the involvement of our partners



Close
Up

Training and educating our operators:

A biodiversity guide for our French operators



➔ A “best practices” guide has been developed for all our French operators

➔ The guide provides technical advice on ways to include biodiversity in the daily operations

➔ The guide enables operators to share their own experiences of biodiversity



1 Deep conviction: the success of our biodiversity policy strongly depends on the involvement of our partners

Close
Up


Promoting Environmental Education

The Three Valleys Environment and Education Center, UK



- ➔ Ten years ago, VW opened in Clay Lane a center to promote environmental education in the UK
- ➔ The center raises the awareness of schoolchildren about how to use water wisely and avoid wastage and also now biodiversity and the importance of its conservation
- ➔ Since it opened, more than 65,000 people including 30,000 schoolchildren have visited the center

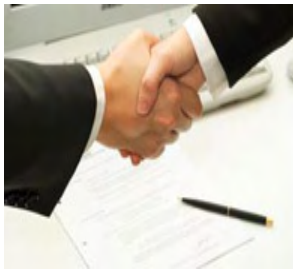
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Close
Up

Partner NGOs and local associations:

Ecological management in Crépieux-Charmy, France



- ➔ Assistance from local nature conservation associations (Rhône-Alpes region nature protection association, FRAPNA)
- ➔ A biodiversity conservation plan has been collaboratively adopted since 1996 and every five years with the local authority in charge of nature conservation
- ➔ Since that time, the site's ecological monitoring is guaranteed by a team of 5 people

1 Deep conviction: the success of our biodiversity policy strongly depends on the involvement of our partners

Latest News



UICN France and Veolia Environnement forge Partnership to preserve biodiversity

- ➔ Strengthen our environmental policy
- ➔ Increasing our knowledge, thanks to the IUCN's strong scientific and technical network
- ➔ Responding to the specific problems that may be faced some of the company's facility

Questions ?



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