

Environmental Policy  
2014 - 2016



Our responsibility to the environment is a sustainable commitment inscribed in AREVA's Value Charter.

The deep involvement of AREVA sites in improving environmental risk management has yielded convincing results in terms of both incident prevention and the environmental footprint of our activities.

This positive feedback, along with an in-depth analysis of our incidents, reinforces our belief in the necessity for strengthening risk prevention throughout the life cycle of our installations.

Compliance with regulations and the development of our skills and sense of responsibility in these areas are crucial principles we must follow if we are to rise to these challenges, both in conception and in exploitation.

It is my hope that we will all continue to devote ourselves to satisfying these demands of progress.

**Luc OURSEL**

AREVA Chairman of the Executive Board and Chief Executive Officer

## The 6 commitments of our environmental policy

- **Performance in environmental issue management**

1. Maintain and develop a shared culture for the prevention of environmental risks
2. Improve the design of our installations taking into account their entire life cycle

- **Prevention and control of accidental environmental risks**

3. Strengthen the prevention and control of accidental technological risks
4. Prevent risks linked to ageing of installations and accidental spillage

- **Prevention and control of chronic health and environmental risks**

5. Strengthen the prevention and control of chronic health risks
6. Manage the environmental footprint of our activities to prevent damages to biodiversity

# Performance in environmental issue management

## 1. Maintain and develop a shared mindset for the prevention of environmental risks

- Encourage the sharing of experience and good practices through cross audits, peer reviews and the harmonisation of skills across the 3SDD (safety, health, security, sustainable development) areas of expertise
- Raising team awareness of risk prevention relevant to hazardous processes and dangerous substances by increased on-site presence of managers

## 2. Improve the design of our installations taking into account their entire life cycle

- Reduce the probability, the kinetics, the intensity and the severity of potential accidental situations using risk analysis methods proportional to the risks
- Anticipate regulatory changes in particular with regard to restrictions of the use of hazardous substances
- Integrate changes in regulations and fiscal policy, as well as the costs of natural resources into the technical and economic analysis of projects (CAPEX & OPEX impacts)

# Prevention and control of accidental environmental risks

## 3. Strengthen the prevention and control of accidental technological risks

- Preceding any change, assess risks capable of compromising the safety of individuals or installations
- Establish duly approved compensatory measures proportional to the risks in the event of operation in degraded mode
- Ensure the quality of “lock-out/tag-out” procedures on electrical networks and for handling potentially hazardous liquids
- Manage the risks of substance incompatibility during transport, storage, use and waste disposal operations\*
- Ensure that there is no development of new activities in the vicinity of our sites likely to generate a domino effect on our installations or to increase risk management requirements
- Train all the concerned actors in crisis management and practice during exercises

## 4. Prevent risks linked to ageing of installations and accidental spillage

- Monitor and test regularly the efficacy and reliability of our barriers such as dykes, confinement systems, tanks, pressurised equipment, pipes, valves, sensors, automatic safety controllers, alarms or interlocks.
- Prevent soil and groundwater contamination through the application of AREVA standard operating procedures for accidental spillage risk prevention.

\* examples include HNO<sub>3</sub>/cellulose, HNO<sub>3</sub>/steel, acetylene/oxygen, acid/base

## Prevention and control of chronic health and environmental risks

### 5 – Strengthen the prevention and control of chronic health risks

- Incorporate changes in effluent discharge, toxicology reference values, and the results of environmental monitoring when updating assessments of health risks posed by radiation and chemicals
- Limit as possible or substitute the use of chemicals of concern for human health or the environment
- Monitor soil, groundwater and surface water contamination
- Prevent and reduce the impact of migration of contaminants by treating them in proportion to the risks during the operational phase and/or propose restrictions on use of the surrounding environment
- Assess regulatory conformity and environmental liability issues, before any partnership, divestiture or acquisition operation
- Preserve the future industrial use potential of our sites, including the establishment of easements if necessary

## 6. Manage the environmental footprint of our activities to prevent damages to biodiversity (1)

1. **Climate change:** stabilise reduction of greenhouse gas emissions at -65% (2)

2. **Changes in land use:** incorporate this issue into our impact studies for new projects from the angle of natural storage of CO<sub>2</sub> in the ground and effects on the habitats of natural species

3. **Nuisances and pollution:** for large mining and nuclear sites, assess and ensure a non-significant impact on ecosystems through appropriate monitoring

### 4. Exploitation of natural resources

- **Energy:** stabilise our energy consumption reduction at -85% (2), through periodic energy diagnostics and for sites with a total annual consumption exceeding 10,000 MWh through the implementation of energy management
- **Material:** maintain the proportion of our conventional waste recycled at over 50% (2)
- **Water:** stabilise our water consumption reduction at -85% (2)

5. **Proliferation of invasive species:** refurbish and sustainably rehabilitate mining sites in consultation with local stakeholders, to promote the robustness of local ecosystems

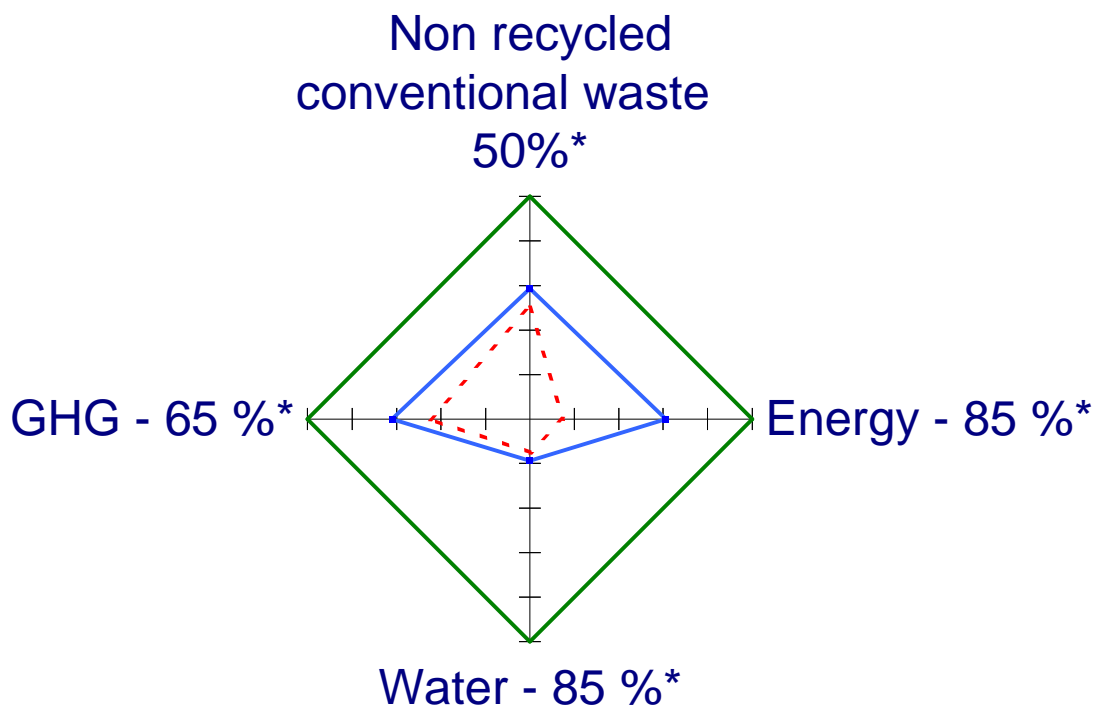
(1) through erosion processes scientifically recognized

(2) compared to 2004 at constant turnover

- 2004 being the reference year in which the extra-financial reporting exercise STAR reached maturity (completeness and reliability) recognised by the non-financial audit conducted by the Group's auditors.

- In 2004, it was officially decided that changes in AREVA's performance would thereafter be expressed in terms of constant turnover given the diversity of indicators for the Group's activities.

# Environmental footprint 2016 objectives



\* compared to 2004 at constant turnover



AREVA supplies advanced technology solutions for power generation with less carbon. Its expertise and unwavering insistence on safety, security, transparency and ethics are setting the standard, and its responsible development is anchored in a process of continuous improvement.

Ranked first in the global nuclear power industry, AREVA's unique integrated offering to utilities covers every stage of the fuel cycle, nuclear reactor design and construction, and operating services. The group is also expanding in renewable energies – wind, bioenergy, solar, energy storage – to become a European leader in this sector.

With these two major offers, AREVA's 46,000 employees are helping to supply ever safer, cleaner and more economical energy to the greatest number of people.

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