

12 Commitments

for the Grenelle
Environmental Plan

A key goal for



The Grenelle Environmental Plan mobilised all actors from civil society. GDF SUEZ made a substantial contribution to the debate and shares the approach defined by Grenelle. The Group remains convinced of the need to meet the challenges posed by climate change and increasingly scarce energy resources, as well as of the importance of actions in the areas of construction and transport.

Complementary core businesses to contribute to the aims of the Grenelle Environmental Plan

GDF SUEZ has a presence throughout the energy production chain, encompassing electricity and natural gas, both upstream and downstream. Its presence also extends to renewable energy, energy services, the water and waste sectors. GDF SUEZ will bring the benefits of its expertise from all of these sectors to bear to meet the challenges highlighted by Grenelle.

The proof lies in acting now

The Grenelle Environment Plan provides the opportunity to rethink our society's model of economic development. It will lead to changes in how energy suppliers operate and in the energy consumption patterns of their customers. New businesses have already emerged and others are being developed in several sectors of our activity.

Renewable energies are a major aspect of the objectives of Grenelle and offer significant development potential for an energy producer. Already the second largest company in the hydraulic sector in France, GDF SUEZ has also become the leading provider of wind energy. In addition, the Group has developed several biomass projects and offers new possibilities for energy recovery from waste. Furthermore, GDF SUEZ supports the development of photovoltaic solar solutions and currently offers solar solutions in buildings to its customers.

GDF SUEZ

Energy efficiency, the central plank of the Grenelle approach, will highlight the role of energy services and their vital contribution to achieving the Grenelle objectives in buildings. GDF SUEZ has a dedicated Energy Services branch through which it offers comprehensive energy-efficiency services to all its customers: local authorities, industry and individuals.

The water and waste management sectors are also at the heart of Grenelle. With its industrial partners, GDF SUEZ has developed processes aimed at improving the ecological design of products and enhancing recycling of waste. The battle against waste in the water systems has become a prime objective for the Group in the last few years.

The development of new technologies to prepare for the future

Preparing the ground for the future by developing new technologies is an important plank of our strategy at GDF SUEZ.

In the industrial sector, the Group is working on a pilot project to store CO₂ in the North Sea and is one of the very few companies to boast of actual experience in this area. GDF SUEZ is also trialling biomass gasification, either to produce synthetic natural gas or, in time, second-generation biofuels, with all types of possible re-use.

With the development of increasingly efficient technologies, such as micro-cogeneration, gas-fired heat pumps or again ventilation modulation systems for services industries, we are preparing the equipment to be integrated as part of a global approach to efficient heating solutions in buildings.

The development of natural gas for vehicles will provide an additional, innovative and open-ended solution with the inclusion of biomethane to reduce greenhouse gas emissions in the transportation sector. With the same goal in mind, the Navineo bus and tram fleet management system optimises urban transport and reduces emissions. A new generation of ultraviolet lamps in the water sector is designed to improve the treatment of wastewater.



Gérard Mestrallet
Chairman and CEO

A photograph of a man and a woman sitting on a wooden bench with metal armrests, viewed from behind. They are sitting on a paved plaza next to a large body of water. In the background, a large fountain with multiple vertical jets of water is active. The scene is outdoors with greenery and a building visible in the distance.

“Fighting climate change, combating pollution, inventing true ecological growth by changing, not only production methods, but also our mentalities and consumption patterns” are some of the key priorities for the Group today.

12

Commitments

for the Grenelle Environmental Plan

AS AN ENERGY, WATER AND WASTE SERVICES PROFESSIONAL, GDF SUEZ MAKES THE FOLLOWING COMMITMENTS:

1

To provide solutions that meet the ambitious goals of Grenelle objectives for building environmental and energy efficiency

- by offering, with our partners, integrated services reducing emissions and energy consumption and optimizing air quality inside buildings;
- by developing long-term performance based contracts, including initial diagnosis and follow-through measures to guarantee customers real, long-lasting energy savings (typically 20%);
- by offering a back-up service for solar heat in homes combined with tailored consultancy, offered free of charge and covering all technical, economic and practical dimensions of a solar heat project.

2

To participate in the transition to carbonless energy in France and abroad

by doubling by 2015 our capacity to produce electricity using renewable energy (hydraulic, photovoltaic, wind and biomass);

- in France and in Europe, to contribute to the ambitious target by 2020 of obtaining 20% of renewable energy in total final energy consumption;
- worldwide, according to local resources and priorities.

by developing thermal renewable energy in buildings and heat systems;

by increasing research into CO₂ capture and storage projects;

by promoting nuclear energy production, very high efficiency combined-cycle gas power and cogeneration.



3

To propose competitive and environmentally friendly solutions for the transport of people

by supporting Natural Gas for Vehicles (25% less CO₂ compared to petrol), with the development of 20 NGV stations by 2009 and 300 by 2010;

by supporting research programs aimed at optimising the energy management of a fleet of electric vehicles and by forging partnerships with manufacturers to promote and bring to market the most promising new electric vehicle technologies.



4

To favor circular economy, based on waste reduction, reuse and recycling

by perfecting, in partnership with manufacturers, deconstruction and treatment processes:

- to improve product eco-design;
- to optimize recovery of such products' component materials;

by establishing a 35% matter and biological recovery target for the Group in France by 2012.

5

To focus R&D on sustainable development

by allocating a significant amount of our R&D budget to sustainable development. In 2008, 40% of the budget for our research centres was dedicated to Sustainable Development projects.

6

To reduce unnecessary waste by improving drinking water system efficiency

to save the equivalent of the water consumption of a town of 700,000 inhabitants between now and end-2010 in France.

7

To develop public-private partnerships

to enable local authorities to commit the investments required to comply with European Union sewage treatment standards, while limiting cost-of-service impacts.

8

To integrate biodiversity into Group site management in France by the end of 2009

by implementing action plans at sensitive sites prior to extending the project to all European sites between now and 2012.

9

To hire 114,000 employees by 2014

(including 10,000 per year in France), to support our development in the energy and environment sectors.





AS A RESPONSIBLE CORPORATE CITIZEN, GDF SUEZ COMMITS:

10

To continue efforts to reduce its impact on the environment and to encourage employees to be sustainable development ambassadors

- by ensuring that by 2009 all permanent lighting fixtures in the Group's administrative offices worldwide will be energy-efficient;
- by systematically favoring vehicles that emit lower levels of CO₂;
- by raising awareness amongst all employees by end-2009 of their eco-citizen responsibilities.

11

To pursue an active dialogue with stakeholders at every level of Group governance

- by organizing regularly consultative meetings at all levels of the Group.

12

To persuade shareholders of the value of the Group's sustainable development strategy as an asset

- by developing communication on these issues, especially during each General Meeting of Shareholders;
- by highlighting the role of the Ethics, Environment and Sustainable Development Committee within the Group's governance bodies.

GDF SUEZ: practical actions on the ground

Renewable energy

Increasing its production capacity of renewable electrical power (hydraulic, photovoltaic, wind and biomass) is a major goal for GDF SUEZ in France to achieve the ambitious target of renewable energy accounting for 20% of total final energy consumption by 2020.

Wind power

The Group wants to increase its share of the wind energy market in France from 7.5% in mid-2008 to 15%. GDF SUEZ is the leading wind power operator in France with 330 MW of installed capacity at the end of 2007.

Solar power

In France, GDF SUEZ acquired a 30% stake in Hiolle Energie, took control of Clipsol and has a solar power plant project underway at Valenciennes (1.16 MWh, i.e. the consumption of 450 households). In addition, it has installed many thermal solar panels for private customers through its DolceVita offers. In Italy, the Group operates 2,300 m² of photovoltaic panels. It is also active in the production of photovoltaic equipment for use in the French market.

Carbon capture and storage

GDF SUEZ has amassed considerable operational experience dating back to 2004 through its pilot project to re-inject CO₂ back into the North Sea at the depleted natural gas field, K12B. The Group is also piloting a CCS project at the depleted Altmark field in Germany in collaboration with Vattenfall.



Biomass

To date, the Group operates a number of partially or totally wood-powered steam plants in France, like the heat network in Corte (Corsica) and in Italy. GDF SUEZ is participating in a call for tenders issued by the French Energy Regulatory Commission regarding cogeneration plants. The Group plays an active role in developing this market and intends to continue its contribution.

Energy services

GDF SUEZ is the leading European supplier of energy services across a range of techniques. It employs 75,000 specialist employees to meet the growing energy-efficiency and environmental requirements of its customers.

Biomass gasification

Biomass (which represents the strongest potential for renewable energy – 50 Mtoe in 2050 for France, according to the ADEME (French Environment and Energy Management Agency) can be gasified to produce electricity, heat or biomethane. GDF SUEZ is currently working on setting up demonstration plants. The synthetic gas obtained, known as Syngas, can be used to power a cogeneration plant producing electricity and heat; transformed into biomethane after processing, it is a renewable energy source very close to natural gas. Methanization could be in industrial production by 2015.



Power generator boiler

These boilers use a technology to produce electricity as well as heat in houses. GDF SUEZ is currently testing 40 boilers with prototypes of new products for marketing due in 2009.

Waste reuse (agricultural, energy or recycling applications)

Setting the example for the future, mechanical-biological sorting operates according to the following principle: first of all, the waste is sorted mechanically to remove some of the recyclable materials (wood, plastics, paper, etc.), as well as biodegradable waste or the 'fermentable fraction'. The next step is a controlled process for this biodegradable waste to produce a compost, generally used to fertilise agricultural land or local green spaces. In France the Montpellier greater urban area uses the services of SITA, a subsidiary of SUEZ Environnement, to process organic waste to produce compost and biogas. This biogas is used to produce electricity or heat, equivalent to 30,000 MWh of electrical power capable of supplying some 25,000 inhabitants.

NGV

Some of the Group's research resources are dedicated to improving the performance of hybrid engines running on natural gas for vehicles, the development potential of Bio-NGV and to experiments with Hythane (a mixture of hydrogen and natural gas). GDF SUEZ is set to launch the development of the first meshed network of 50 NGV stations with a target of 300 stations in 2010.

Reducing carbon emissions through the sanitation networks

Wastewater from sanitation networks is a hitherto unused source of sustainable energy. The average temperature varies between 12 and 20° C year round. The Degrés Bleus® procedure involves placing heat exchangers in the sanitation networks with a fluid running through them to capture the heat. The calories are then transferred to a heat pump capable of supplying the heating system in all types of buildings..

drive
commitment
daring
cohesion

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