

GDF SUEZ

BY PEOPLE FOR PEOPLE

Cities of tomorrow



150 YEARS OF PUBLIC UTILITY SERVICES

Group profile

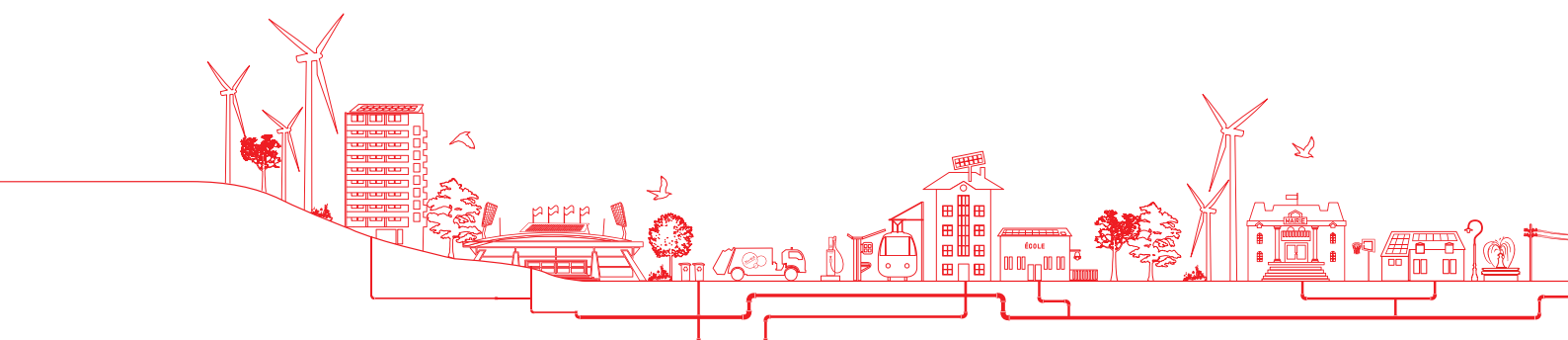
GDF SUEZ develops its businesses (electricity, natural gas, services) around a model based on responsible growth to take up today's major energy and environmental challenges: meeting energy needs, ensuring the security of supply, fighting against climate change and maximizing the use of resources.

The Group provides highly efficient and innovative solutions to individuals, cities and businesses by relying on diversified gas-supply sources, flexible and low-CO₂-emission power generation as well as unique expertise in four key sectors: liquefied natural gas, energy efficiency services, independent power production and environmental services.

219,300
EMPLOYEES THROUGHOUT
THE WORLD

> INC. 61,300 IN ELECTRICITY
AND GAS,
> 78,400 IN ENERGY SERVICES,
> AND 79,600 IN ENVIRONMENTAL
SERVICES.

€ 97
BILLION
IN 2012 REVENUES.



“The city of tomorrow will be networked”



Gérard Mestrallet
Chairman and CEO

A handwritten signature in red ink, which appears to read 'G. Mestrallet'. The signature is stylized and written in a cursive-like font.

Today, at the start of the century, more than one out of every two inhabitants of the planet lives in a town or city: that irreversible momentum means that by 2020, there will be 19 mega-cities of more than 10 million inhabitants, including 12 in Asia. While technology can achieve all sorts of feats, we must model the city of tomorrow on criteria other than the infinite availability of energy and resources. We must innovate and design urban space as an aggregate of systems than talk to each other. The core values of a sustainable city are linked to its capacity to adapt and be transformed over time, to its high quality of use and life, to economies made by its residents, by the fluidity of its networks, by its safety, and by its sharing of space. The GDF SUEZ group strives to put these values into play by incorporating its ideas as early as possible into major urban projects. The foundations of the sustainable city lie in very early anticipation, even before facilities are designed, so that the resulting technical values are established there in a sustainable and integrated manner. The urban metamorphosis will be a massive one. GDF SUEZ intends to take up the challenge.



Building the city OF TOMORROW WITH YOU

“Cities are people’s future,
places where tomorrow’s
civilizations are built.”

Erik Orsenna



Climatic change, overconsumption of resources, city congestion, pollution, urban insecurity, etc. The planet’s ever-increasing urbanization is posing major challenges to our societies.

At the same time, the city remains an irreplaceable center of civilization. Its strengths such as human density and diversity, cultural and economic vitality, its formative role for the rest of the country, etc., all explain the rise of urban living.

By taking up those challenges and making the most of those strengths, we will build sustainable cities. There is no unique model for doing so. Over and above cultural and territorial diversity, city-dwellers throughout the world have, all the same, common concerns and needs. As a result, the city of tomorrow will be:

A dynamic, attractive city, creating sustainable wealth

In other words, a center of activities designed to facilitate exchanges and to provide high-performance services to businesses and citizens, while pooling infrastructure costs.



A city that controls its consumption of energy and natural resources

The frugality that comes from economical urbanization, policies encouraging responsible use of resources, and streamlining of consumption through “smart” network technologies.

A city that breathes and keeps environmental impact to a minimum

Thanks to the quality of water distributed, the development of renewable energy and “zero-carbon” buildings, controlled waste management, and reduction in all kinds of pollution.

An accessible, fluid, functional city

The accessibility of equipment, the rise in soft or shared mobility, and real-time traffic regulation, all making urban space better to share.

A LABORATORY FOR THE INNOVATIVE CITY

GDF SUEZ’s urban strategy Council

That think tank, launched in 2012, gathers independent experts to develop an integrated vision for the city. Its goal is to take a cross- and multi-disciplinary approach to urban issues, with the aim of helping build the “cities for living in tomorrow”. The urban strategy Council’s mission is to play the role of critic, by debating the GDF SUEZ vision and operational methods for city challenges. It also has an advisory and vigilance function with respect to the professional disciplines and the spheres of expertise that are represented. Lastly, the Council is a Group- wide sounding board for medium- and long-term planning.





A city for all, where it is pleasant and safe to live

Because the diversity of neighborhoods and safe public areas, but also the quality of the architectural framework, the existence of areas of conviviality and the presence of nature in the city, all favor “living together”.

Those goals require a change of scale. That means rethinking the very shape of the city – from design and construction to management of a true ecosystem where people are at the center. To do this, an overall, systemic, multi-sectoral, multidisciplinary and multiple-player approach is needed. This means a logic of sustainability, efficiency and quality of life, by integrating those interdependent aspects. And working at the same time on methods of governance, urban planning models, operational logic, and tools.

Meeting the challenges of every territory

GDF SUEZ has all the necessary experience and know-how. Its expertise covers the design of major energy and/or urban planning projects, as well as the entire chain of services that are essential for people’s well-being: electricity and energy supply, energy services, water, sanitation, waste-management, public-lighting, information networks, responsible mobility, environmental services, etc.

The Group puts at the disposal of local authorities its business-intelligence and innovation capacity, which it is continuously enhancing by taking part in open research programs and prospective discussion groups on urban challenges. By participating in city networks and worldwide partnerships it is able to provide its solutions to the best current reference sites. In the field, it is developing local cooperation with the other city players to share information that is essential for setting up truly relevant projects.

As a privileged partner of elected representatives and decision-makers, GDF SUEZ works closely with all cities wishing to control their future, by offering them solutions suited to their own context and needs, meeting their territorial challenges.

A player involved in international initiatives

GDF SUEZ is a partner of the World Urban Campaign: that collaborative platform under the aegis of UN-Habitat brings together public and private players, along with representatives of civic society, all driven by a common desire to promote sustainable urban planning policies, strategies and practices.

GDF SUEZ was behind the Urban Infrastructure Initiative, launched by the WBCSD (World Business Council for Sustainable Development) in 2010: 14 international groups where the world’s best experts work together to help local authorities establish realistic, practical and economical strategies.



Your vision, OUR SOLUTIONS

Projects run by elected representatives and decision-makers are those that bring meaning and consistency to urban planning. GDF SUEZ puts itself at the disposal of local authorities to work with them on the design and achievement of projects, making them thrive over time.

Serving the vision

GDF SUEZ works with municipal authorities, armed with its public service culture built throughout the company's history, which it sets forth today via made-to-measure partnerships adapted to the diversity of contexts and local authorities: concession contracts, public service management contracts, and public-private partnerships (PPP).

Through its skill in putting together urban projects, the Group develops a solution-centered approach rather than a business-specific one. With that approach it can base its work on cross-discipline logic, taking into account the customer's overall vision, fostering synergy for pooling the techniques, reducing costs, and protecting resources. With that approach, its responsibility is committed both upstream and downstream: from project engineering, building and operating, through to maintenance, on a long-term basis. The company's local foothold, its closeness to its customers, and its involvement within the city also ensure that every project drives progress, giving the partnership its full dimension.

Working with all players

The involvement of all stakeholders – elected representatives, professionals, residents, and associations – is a necessary condition for a true ownership of the project, and therefore for its success.

Indeed, only a shared vision of needs and issues can create effective partnerships. That is why GDF SUEZ's approach brings together three inter-related aspects:

- an attentive focus on needs and an analysis of them, taking into account the expectations of every stakeholder during the project;
- multidisciplinary work, especially with urban planners and architects, to ensure the best integration of the projects within their urban environment;
- information and consultation mechanisms for extending dialog with the players once the project is deployed.

For effective, sustainable solutions

Cities need new solutions that are resilient and applicable immediately.

GDF SUEZ teams up with Barcelona to build the city of tomorrow



In 2012, GDF SUEZ and the Catalanian metropolis signed a strategic partnership devoted to the sustainable city. It was an agreement signed within the framework of the City Protocol launched by Barcelona: through that initiative, the city authorities intend to establish a reference model for measuring cities' performance in environmental, economic and social terms, in order to create an international Smart City standard serving city residents. Within that context, in Barcelona GDF SUEZ is deploying its city steering platform, a unique tool perfected by the Group for providing overall management of infrastructures and urban services. Other innovative projects involve mobility, energy-positive buildings and neighborhoods, developing local, renewable energy, and smart networks.

Barcelona is thus consolidating its collaboration of more than 100 years with GDF SUEZ, which is in charge of operating the city's heating and cooling networks.



The solutions we offer are built in a privileged way on sustainable business models: a circular economy based on the reuse of resources, and a service economy that fosters usage value. That improves the lifetime and efficiency of services provided to city residents.

The Group's investment in research & development and its involvement in pilot projects for new towns and eco-districts throughout the world, give it an innovation capacity over and above the related technologies: GDF SUEZ's achievements incorporate all the parameters of a sustainable urban-planning project.

Feedback from work carried out in France and worldwide enables the Group to provide innovative solutions that at the same time define new standards in quality of service and operational results.

At the heart of the approach: for GDF SUEZ employees, the values of transparency, dialog, human contact, and respect for the common good, combine with the most demanding professionalism. That is the major key to the economic, social, and environmental performance of our solutions.

A responsible, civic company

For GDF SUEZ, operating as a responsible company means above all providing easy access to energy and water for all. Now, poverty is increasing in terms of those essential services, and not only in the poorest cities of the planet. Everywhere the Group is serving individual customers, it pays special attention to the most disadvantaged people, building partnerships with NGOs and associations for offering solutions against that poverty and for better housing.

GDF SUEZ also asserts its social responsibility through an active policy of re-integration within the workforce, aimed at promoting local, non-relocatable employment connected with its business activities. Several thousand employees will be hired in France by 2015 to support the Group's growth in its energy and environment businesses.

GDF SUEZ is raising the awareness of its employees in terms of eco-citizen behavior and is applying in-house the same good environmental practices that it recommends to its customers. By developing renewable energy and by streamlining the energy efficiency of its production base, the Group is taking part in the fight against climate change. At the same time, it is acting to protect biodiversity and the water resource, and to improve air quality.

GDF SUEZ's civic commitment is relayed in the field by numerous actions of environmental, social and cultural sponsorship, often on the initiative of its employees.

In 2013 the GDF SUEZ Corporate Foundation and the Association Maisons de Qualité [quality housing association] are organizing a contest for ideas around the theme of "The Single Family Home: Energy for Living". The goal is to bring out new energy-renewal solutions for families in poverty.



Upstream to DOWNSTREAM SUPPORT

In France and throughout the world, GDF SUEZ deploys its expertise from strategic consulting through to carrying out and managing major structural projects.

AND AS WELL...

FRANCE BORDEAUX

In order to limit the impact of stormwater discharge into the natural environment, GDF SUEZ designed an innovative, dynamic, predictive management system for wastewater networks. The tool provides for anticipating heavy rainfall so as to avoid flooding and pollution, with minimum ground space.

FRANCE PARIS

The heating network (heating and domestic hot water) operated by the Group in Paris is one of the largest in the world, along with those in Moscow and New York. As from 2014, more than 50% of the energy will come from local energy sources, renewable and recovered: biomass, geothermics, heat from sewers and waste, etc. In the French capital GDF SUEZ also operates the largest cooling network in the world (Climespace).

BELGIUM ANTWERP

GDF SUEZ is steering an overall project for improving mobility in and around the city, benefiting 465,000 city residents.

CHINA

Working with Chinese city mayors



Since 2000, Gérard Mestrallet has been advisor to the Mayor of Shanghai, within the International Business Leaders Advisors Council (IBLAC).

Every year that discussion-proposal think tank brings together some thirty company directors of major international groups to exchange their views on urban issues and the city's

strategic priorities, and come up with recommendations for actions to be implemented.

Gérard Mestrallet is also Chairman of Chongqing Mayor's International Economic Advisory Council (CMIA), for the largest urban area in the world, with more than 32 million inhabitants.

FRANCE ANGOULEME

A 100% innovative carpooling system

For Greater Angouleme, the launch in December 2012 of a car-pooling service falls within an overall project for favoring less polluting transportation, for multimodality, and for creating a cleaner, less polluted, more responsible and more attractive town.

Angouleme is committed to a pioneering approach: it will be the first town equipped with a 100% French car-pooling solution (using "Mia" autos manufactured in the Deux-Sèvres department) and fully

intermodal with the collective transportation network. 106,000 Angouleme inhabitants are concerned by the setting up of this innovative, sustainable mobility service aimed at both individuals and businesses.

As operator of this service, GDF SUEZ designed, deployed and operates "mobili'volt". The town won the "Trophées Avere" prize for electromobile towns.



carpooling system
100% innovative

MOROCCO CASABLANCA

Pooling the management of electricity, water, sanitation and lighting networks



GDF SUEZ is supporting the development of the largest city in the Maghreb by meeting its

water and energy needs. The city sets its goals and ensures overall control, assigning investments and management responsibility to the operator.

Within the framework of a 30-year concession contract, the Group set up centralized process control for four of the main urban networks and services: electricity supply, drinking water distribution, collection and treatment of wastewater and stormwater,

and public lighting. Customer management of around a million users is also done centrally.

In parallel, GDF SUEZ is carrying out actions for generating the general public's awareness about protecting resources and saving energy.

SINGAPORE

A 20-year presence

In particular, GDF SUEZ manages Singapore's public lighting system and equipment for road and pedestrian tunnels – corresponding to 47,000 lights and 2,500 control cabinets.

The Group is also the largest electricity producer of the City State, where it provides about 25% of the country's needs. Singapore's electricity demand has increased by 4% per year over the last 10 years.



THE CITY, AN ECOSYSTEM OF HI

Information and communications networks

Secure, high-throughput telecoms networks.
Video-monitoring of buildings and public spaces.

Engineering

An overall energy and environmental performance approach for current and planned equipment.
Consideration of technical, economic, financial, and social aspects.
Offers favoring the growth of the circular economy and “usage value”.

Energy and cooling networks

Distribution of natural gas and electricity: custom-made service offers for individuals, local authorities and businesses (study, funding, installation, etc.).
Low-CO₂-emission power generation from renewable sources: photovoltaic solar power, thermal solar power, wind power, heat pumps, geothermics, biomass, heat recovery from air extracted from buildings.
Multi-energy systems based on natural gas/electricity/renewable energy.
Energy recovered from waste and wastewater.
High-efficiency boilers.
Multi-technical maintenance.

Distribution of drinking water

Improvement in the quality of the water supplied.
Treatment plants for drinking water taken from rivers, lakes and water tables.
Seawater desalination by reverse osmosis.

Responsible mobility

Urban travel plans.
Support systems for transportation operation and traveler information.
“Smart” traffic management systems.
Development of intermodality.
Soft mobility (people movers, bicycles, etc.) and shared mobility (carpooling) offers.
Energy mixes suited to different types of mobility: natural gas, electricity, hybrid vehicles, alternative fuels, etc.
Reduction in travel needs thanks to urban mix and remote services.

GH-PERFORMANCE SOLUTIONS

Smart building management

Overall services management (water, heating, cooling, safety, upkeep, etc.).
State-of-the-art technologies for measuring and monitoring consumption.
Management of inside air quality.
Performance improvement plans.

Waste collection and recovery

Urban waste management.
Selective sorting and recycling of waste.
24/7 pneumatic waste collection.
Methanation of household waste (production of renewable biogas).

Public lighting networks

Streamlined management of lighting to reduce energy consumption.
Solar panels on lampposts.
Stage-setting of monuments and outstanding spaces.
Video-protection linked to public lighting.

Garden city

Eco-maintenance of green areas.
Maintaining biodiversity.
Landscaped gardens.
Shared gardens.

Wastewater recovery

Treatment of wastewater by ultrafiltration to be reused for urban, agricultural and industrial purposes.
The possibility of making water drinkable using suitable treatment methods.
Heat recovery from wastewater networks for producing heat and refrigeration at the heart of towns and cities.

Energy management

Energy and environmental efficiency solutions.
Energy rationalization programs.
Positive-energy buildings.
Advice and information for consumers.

Made-to-measure PARTNERSHIPS

By combining its international experience and local presence with expertise in its businesses and innovation, GDF SUEZ can provide every city with best practices suited to its urban project.

AND AS
WELL...

CHINA HONG KONG

The Group is also a major player in waste management in Hong Kong and Macao.

80% of Hong Kong's household waste goes to two of the largest landfill sites in the world, operated by GDF SUEZ.

FRANCE PLATEAU DE SACLAY

In the Île-de-France department, GDF SUEZ is carrying out studies on the organization of mobility, road infrastructures, and collective transportation networks at the scientific, technological and economic complex in Saclay, one of the key locations of the future "Grand Paris".

FRANCE PARIS

1,000 video-cameras for Paris

400KM
OPTICAL
FIBER



The French capital's video-protection plan provides services for securing operational tools for better traffic management, strengthening civic protection in public areas, preventing risks of terrorism, and facilitating emergency service and first-aid operations.

1,106 video-cameras, connected in particular to police stations, are being installed in Paris. The video system is based on a network infrastructure of 450 km of optical fiber in the city's sewage

system. Access to photos from partner systems (Paris Town Hall, the SNCF and the RATP transit authorities, etc.) strengthens the operational capacity of the Police Department, which owns the system.

GDF SUEZ is in charge of carrying out the design, installation, technical operation, maintenance, renewal, and of financing the set of video-cameras and the related system. The 17-year contract is a national benchmark in the field of video-protection.

CHINA SHANGHAI

Developing circular economy by recycling sludge

In Suzhou industrial park, on the outskirts of Shanghai, GDF SUEZ treats sludge from an urban community of 610,000 people (treatment capacity: 300 metric tons/day).

Energy is recovered during the treatment phase thanks to the safest technology on the market.

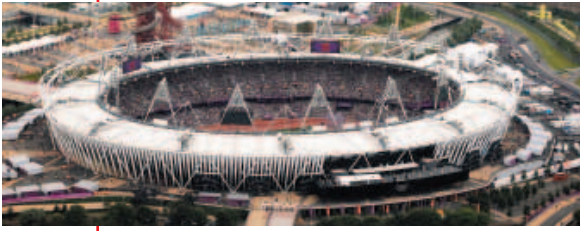
The dried sludge is reused as fuel in the industrial park's power plants, helping to reduce carbon consumption. The entire cycle is carried out with a CO₂-neutral balance.

Moreover, GDF SUEZ supplies water-related services to the city

of Shanghai and 16 other Chinese cities (Chongqing, Qingdao, Sanya, Tanggu, Macao, etc.), serving a total of nearly 13 million inhabitants.

UNITED KINGDOM LONDON

An “Olympic” heating and cooling network



THE NEEDS OF THE CITY

Within the framework of its policy to make the Olympic Games a sustainable development driver for the entire city, the British capital assigned GDF SUEZ a 40-year

concession for building and operating a heating and cooling network to serve the “London 2012” Olympic Park, and the new development area of the town of Stratford.

THE SOLUTION DEPLOYED

Two ultramodern power plants equipped with a trigeneration system – heating, cooling, and electricity – together with underground storage, were installed at King’s Yard and Stratford. The boilers

powered by natural gas and biomass provide energy to 477,000 m² of office and housing space via a 16 km network, which will later be deployed in neighboring districts.

THE BENEFITS

- 75 % of electricity needs covered.
- 40 % savings in energy consumed, equivalent to a reduction of 2,900 metric tons of CO₂ compared with conventional facilities.

FRANCE DIJON

A PPP streetcar line for sustainable mobility

THE CITY’S NEEDS

In setting up the first public-private partnership devoted to a mobility project in France, Greater Dijon had two complementary goals: to provide the city’s residents and visitors, by 2012, a streetcar system whose energy costs are controlled and secure, and to contribute to the city’s sustainable development.

THE SOLUTION DEPLOYED

GDF SUEZ built, financed and is in charge of maintaining the electrical equipment and of supplying the streetcar line with power throughout the 26-year PPP. Part of that energy is solar, thanks to 5,000 photovoltaic panels integrated on the streetcar and bus maintenance center’s roofs and canopies.

THE BENEFITS

- The supply of secure energy for 24 years.
- The commitment made by GDF SUEZ and the public transport operator to improve the streetcar line’s energy efficiency throughout its operation.
- 70% of maintenance services assigned to local companies.



FRANCE BALMA

Heating a neighborhood with solar power and biomass



80% OF THE HEATING AND DOMESTIC HOT WATER NEEDS COVERS

THE TOWN’S NEEDS

Architectural quality, an invitation to “living well together”, environmental integration, and innovation: the town

of Balma, in greater Toulouse, made the Vidailhan eco-neighborhood – a new urban area combining housing and business activities – an achievement that is exemplary in every way.

THE SOLUTION DEPLOYED

The solution adopted for collective heating, a true first in France, consists of a network supplied from a power plant that is a combination of high-temperature

solar collectors and a wood boiler. GDF SUEZ is the prime contractor and operator, for a 25-year management contract.

THE BENEFITS

The mixed solar/wood heating network covers more than 80% of the neighborhood’s heating and domestic hot water needs, avoiding the discharge of more than 1,000 metric tons of CO₂ per year.

Sustainable, measurable RESULTS

For both energy and the environment, the solutions offered are part of a continuous improvement process based on a permanent quest for efficiency and on medium- and long-term results measurement.

AND AS WELL...

SPAIN SARAGOSSE

Within the framework of a 35-year concession, GDF SUEZ manages the power plant and the heating and cooling distribution network at the site of Saragossa's International Exposition. More than 20,000 metric tons of CO₂ are saved each year compared with a conventional system.

FRANCE NANTERRE

In Nanterre (Hauts-de-Seine department), GDF SUEZ recovers heat from wastewater for heating an eco-neighborhood. Part of the energy is geothermic. A gas-fired power plant for peak and back-up needs are additional elements in this totally innovative system.

NETHERLANDS MAASTRICHT

GDF SUEZ took part in the building of new CO₂-neutral buildings at Maastricht University campus. The innovative heating and cooling system preserves the original architecture of the buildings, which house 542 apartments and a sports complex.

FRANCE BEAUNE

Lighting up the capital of Burgundy wines



THE TOWN'S NEEDS

In order to liven up the town, including during the low tourist season, Beaune wished to highlight its cultural heritage through a concept of specific lighting that does not increase the energy bill.

THE SOLUTION DEPLOYED

The "Lighting up Beaune" plan is focused both at bringing the best out of its heritage and at strengthening the safety and comfort of residents, while reducing the town's energy consumption. It includes a

complete renovation of the public lighting system, the illumination, in pictures, of the historic center in summer, and the creation of a "Pictures and Lights" festival during the wine sale in the fall. That innovative approach is part of a public-private partnership, the first of its kind in France.

THE BENEFITS

- A more than 47% reduction in energy consumption and in the carbon footprint.
- The territory's even greater tourist appeal.

FRANCE VITRY-SUR-SEINE

Modernizing waste collection to improve daily life

THE TOWN'S NEEDS

Vitry-sur-Seine, in the Paris region, is launching an overall urban planning program with the aim of improving the quality of life and economic growth, and achieving a high level of environmental quality. The renovation of household waste management is one of the aspects of that "town project".

THE SOLUTION DEPLOYED

GDF SUEZ is co-designing and co-building a 24/7 system of computerized pneumatic collection. Waste is collected via terminals at the base of the buildings and dispatched underground via a network linked to a central suction unit.

THE BENEFITS

- Streets and sidewalks cleared of clutter, cleanliness, fewer bad odors and less pollution.
- Lower energy consumption.
- Improved waste sorting quality.



NETHERLANDS AMSTERDAM

Storing energy underground in an eco-neighborhood

THE CITY'S NEEDS

On the banks of the River IJ, Overhoeks has 477,000 m² of housing, offices, shops and cultural areas, as well as the Shell Technology Center Amsterdam. The town aims to make the supply of sustainable energy a major component of that new eco-neighborhood.

THE SOLUTION DEPLOYED

Within the framework of a 15-year management contract, GDF SUEZ designed and operates a heating and cooling network consisting of 4 power plants that are completely incorporated within the urban landscape, connected to collection stations and 14 storage wells 180 m under the ground. As a result, heat (in summer) and cold (in winter) can be recovered and reused according to needs.

THE BENEFITS

- Supply of flexible energy, adapted to variations in demand.
- 40% less annual energy consumption, corresponding to savings of 2,900 metric tons of CO₂.

40%
LESS
ANNUAL ENERGY
CONSUMPTION

CANADA MONTREAL

An iconic skyscraper

It is the spire that characterizes the skyline of Montreal city center. Number 1000 De la Gauchetière Street, with its unique architecture, is one of the most prestigious buildings of the city, which is dominated by its 51 floors.

GDF SUEZ is in charge of building management and upkeep and has set up an energy optimization program. The goals: to reduce operating costs while improving the comfort of the occupants, the quality of service, and the equipment

lifetime. Rather than going for a total renovation of the facilities, the Group retained the option of improving the current ones (re-commissioning) by eliminating waste, making a proper use of resources, and having the best operating practices.

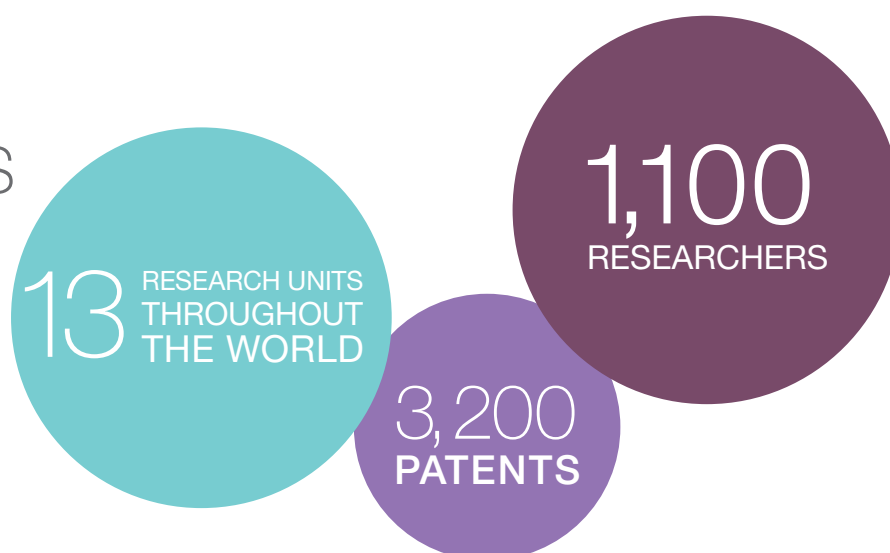
The operation brought about a 13% energy bill saving and avoided an annual CO₂ discharge of 192 metric tons.



Preparing THE FUTURE

Designing and developing services and technologies to support cities' increasing expertise while protect the planet's resources: that is the ambition of GDF SUEZ's Research & Innovation Division.

KEY R&I figures



The GDF SUEZ group designs and tests new solutions for meeting the challenges of tomorrow. That spirit of innovation is embodied in R&I programs that anticipate the needs of cities and their inhabitants, to give them more and more powerful services on a daily basis, one step ahead of the rest.

Programs devoted to towns and cities

Smart Energy & Environment

The goal: to offer value-added services that exploit the “intelligence” of information and communications networks to streamline the management of energy, resource, equipment and mobility.

Cities and Buildings of Tomorrow

The goal: to develop innovative packages, methodological tools, and prospective studies focused on improving the various aspects of the urban ecosystem.

Programs involving numerous industrial, university and associative partners:

- Energy-positive buildings.
- Renewable energy: solar, biomass, wind, etc.
- Decentralized electricity production, combined electricity/ heat production (cogeneration), and energy storage.
- Energy management (Cofely Vision), smart networks (AMI Greenlys project) and smart metering (DolceVita Zenbox).
- Innovative water and waste treatment (recycling, energy recovery, desalination, etc.).
- Sustainable mobility and “clean” natural-gas-powered, hybrid, and electric vehicles, etc.
- The human factor, social acceptance of new technologies.

INNOVATIVE SOLUTIONS for the “smart” city



INNOVATION TOOL

Smart city dashboard

The understanding of the complex system represented by a city is a major challenge for assessing the impact of projects, making pertinent choices, and reporting to stakeholders. Now, urban managers are faced with a multitude of heterogeneous data. To gain access to a global vision, GDF SUEZ designed an open technological platform that incorporates all useful information related to the city, its infrastructures, territory and environment. That dashboard for the city constitutes a practical and evolutionary tool for:

- running the infrastructures,
- alerting to, anticipating, and managing events,
- assessing changes in the environment and territorial dynamics,
- rationalizing investments and anticipating major risks.

INNOVATIVE SOLUTIONS FOR SOCIAL HOUSING

Performance in the Home

As a longstanding partner of social housing for supplying energy and water, and for operating heating systems, GDF SUEZ developed a comprehensive, integrated solution for helping social housing associations and their tenants to control energy and water charges. The “Performance in the Home” offer combines the monitoring of consumption and equipment operation with information for residents about best practices. At the end of the day, there is better management of the buildings and an overall reduction in energy and water consumption.



Exploring the SUSTAINABLE CITY

GDF SUEZ's virtual showcase, set up within the framework of the "City and Building of Tomorrow" program, highlights the innovations developed by the Group for supporting towns and cities with their sustainable urban planning policies.

http://clickncity.gdfsuez.com/en_GB/



6 PRIORITIES FOR A SUSTAINABLE CITY

Deployment of services whose consistency and complementarity contribute to virtuous operations.

GDF SUEZ has identified six priorities for developing a sustainable city:

- 1 Building towns and cities with their inhabitants and stakeholders.
 - 2 Paying special attention to notions of contact and social cohesion.
 - 3 Favoring the circular economy – through recycling, and energy and resource savings.
 - 4 Favoring the service economy – from waste management to the optimal use of resources.
 - 5 Developing synergy among our businesses by adapting them to the local context and by favoring a strong local foothold.
 - 6 Making performance visible in order to go forward.
-

May 2013

The Group Communications and Marketing Division was responsible for coordinating this document.

Contact: Florence Fontani, florence.fontani@gdfsuez.com

In cooperation with the Sustainable Urban Planning Division

Contact: Stéphane Quéré, stephane.quere@gdfsuez.com

Editorial advice: Anabel Dutrop Cot, anabel.dutrop@1-idee.fr
Guy-Patrick Azémar, gp.azemar@free.fr

Design and publication: Graphèmes®
Contact: Sophie Geiswiller, sgeiswiller@graphemes.com

Photocenter: GDF SUEZ, Cofely Ineo

Printing: Grafik plus Imprimerie

This document is printed in vegetable-based ink on 100% recyclable, biodegradable coated paper, made from ECF (Elemental Chlorine Free) bleached pulp, from sustainable, fairly managed, PEFC (Pan European Forest Certification) certified forests.

Our values

drive
commitment
daring
cohesion

GDF SUEZ

1, place Samuel de Champlain
92930 Paris La Défense - France
T. +33 1 44 22 00 00