

# SUSTAINABILITY: GDF SUEZ STRATEGY TO FOSTER LONG TERM VALUE CREATION

March, 2013

#### SUSTAINABILITY



GDF SUEZ strategy to foster long term value creation

#### **Sustainable Business**



Identification and transformation of environmental and social issues into business opportunities

## **Non-Financial Risk Management**

Environment, Fighting against climate change

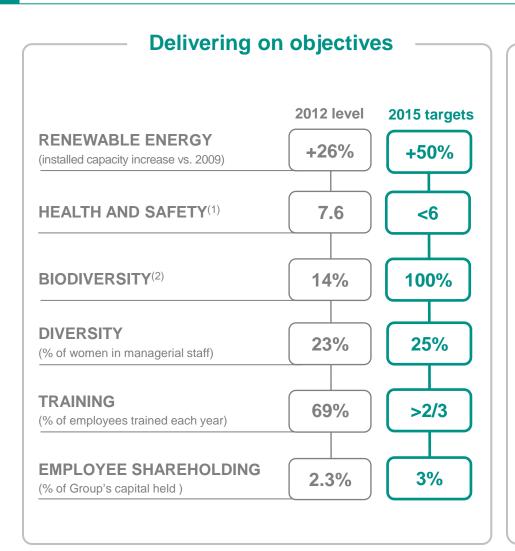
Social, Health & Safety

Governance, Dialogue with shareholders, Incentives, Ethics, Transparency

- 2012 results aligned with the 2015 targets
- Sustainability fully integrated within strategy & businesses
- 10 Sustainable Development criteria for investing
- Ratings & certifications strong results
- Fighting against energy poverty: "Rassembleurs d'Energies"

## Extra-financial targets well on-track





#### 2012 highlights

- Significant progress in Health & Safety
- French Government label granted to biodiversity action plan
- Diversity Label awarded by AFNOR<sup>(3)</sup>: 42,000 employees covered in France
- Sustainable development criteria integrated in investment decisions
- 10 projects for Rassembleurs d'Energies
- Strong Corporate Social Responsibility performance highlighted by Vigeo: 1<sup>st</sup> integrated energy company
- Ambitious job program:
   18,000 permanent hires in France by 2015
- First Integrated Report targeted by 2015

# **Sustainable Business:** identification and transformation of environmental and social issues into business opportunities





Rodenhuize biomass power plant, Belgium

- No or low carbon emission energy projects (renewables, natural gas)
- Repowering existing power plants to improve energy and environmental efficiency



Roussines, compressor station, France

- Developing the uses of natural gas to replace more carbon emitting energies in the heating and transport sectors
- Developing the bio-methane business



London Olympic Park, London

- Enabling customers to achieve their own sustainability objectives
- Developing energy efficiency solutions for B2C and B2G customers in a favorable regulatory framework

INNOVATION

- n Operational solutions: energy storage, smart grid systems, urban energy, small scale LNG
- n Promoting commercial offers integrating ESG competitive advantages

#### **Innovation**

## Cutting-edge technologies





 The Gjøa floating platform is fully powered by mainland electricity, reducing CO<sub>2</sub> emissions by 210,000 ton/yr – first time in the offshore oil & gas industry



 Best technologies from inception and leverage inhouse research on LNG value chain



 One of the world's largest combined power and desalination plant, design optimization resulted in winning bid

#### 2012 key figures

- 1,100 researchers, 9 research centers contributing to the technological excellence of the Group
- 5 strategic corporate programs: offshore LNG and future gas chains; renewable energies; smart Energy & Environment; City & building of tomorrow; CO<sub>2</sub> capture, transport and storage
- ~€240m invested in Research & Innovation
- Participation in 7 capital investment funds related to energy projects including 2 in the US

## Non financial risk management





#### **Environment**

- Implementation of environmental management to comply with local regulations (emissions in air, water and soils) and to preserve biodiversity
- Anticipation of regulatory changes to capture new business opportunities

#### **Social**

- Development of Human Capital: talents and skills management to guarantee the most suitable workforce at each level of the company on the long run
- Health & Safety Management: ensuring progressively the highest levels of health & safety for workforce, subcontractors and installations
- Local Involvement: securing the acceptability of all GDF SUEZ activities and installations on the long run

#### Governance

- Ethics Principles: guaranteeing full commitment to fight corruption, respect Human Rights and GDF SUEZ values within the Group
- Corporate governance: ensuring that the company is efficiently governed in full transparency

## **Environment policy**

## Commitments of a Global Energy Player



# Improving operational environmental performance

- **2015 objectives**: +50% renewable energy capacity<sup>(1)</sup>
- Environment policy set up in close relation with Global Compact, UN environmental Conventions requirements
- High quality of reporting certified by the auditors: 13 indicators: "reasonable" assurance, 8: "moderated" 70% share of relevant revenues under external certifications<sup>(2)</sup>

# Fighting against climate change

- Low carbon emission power portfolio
   >80% low CO<sub>2</sub> emissions, ~15% of renewables
- Selective development in renewables in mature markets (priority to wind onshore and hydro)
- Repowering existing power plants to improve energy and environmental efficiency

# Leadership in energy efficiency

- Active across the whole value chain: heating networks, maintenance, engineering & installation
- **Green real estate policy** with a target of 40% reduction of primary energy consumption in 2020 vs. 2009
- Target to increase revenues by +40% by 2017
- Objective to double international sales by 2018

# Integrating biodiversity in operational management

- **2015 objective:** biodiversity action plan for every sensitive site in Europe in 2015
- Partnerships with NGOs<sup>(3)</sup> to operate in accordance and beyond the international regulations
- Among the pioneer companies contributing to the National Strategy for Biodiversity in France: Government label granted to the group's action plan

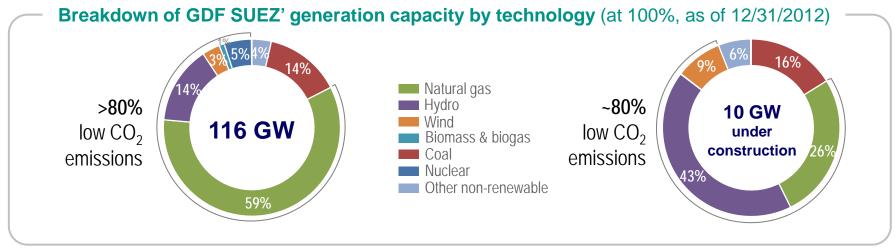
<sup>(1)</sup> vs. 2009 (2) ISO 14001, Eco Management & Audit Scheme and other external Environmental Management Scheme

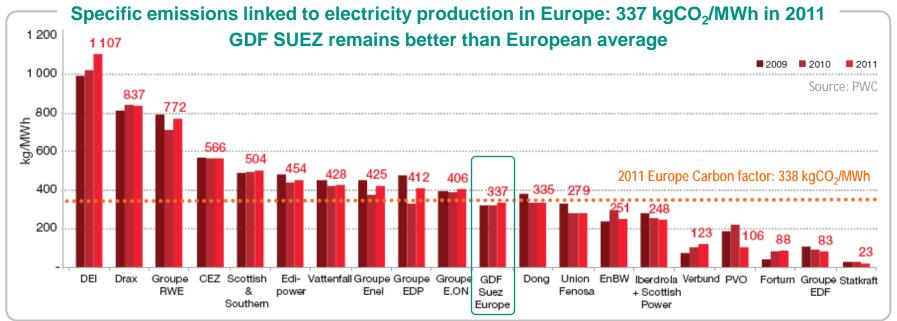
<sup>(3)</sup> International Union for Conservation of Nature, France Nature Environnement

## Fighting against climate change



GDF SUEZ among the low-emission producers in Europe thanks to a low CO<sub>2</sub> emission energy mix





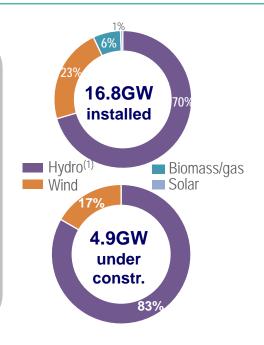
# Fighting against climate change: leveraging on existing platforms for energy efficiency and renewables



## Strong positions, clear ambitions

#### 16.8 GW installed capacity: ~15% of the total mix

- 4.9 GW under construction: ~50% of the total pipeline
- #1 wind producer in France, #2 in hydro
- +50% installed capacity in 2015 vs. 2009,
  +26% end 2012
- Europe: + 2 GW commissioned over 2011-2017,
   Priority to wind onshore and hydro, selective and capital efficient development



Revenues (2011)

# **Energy** efficiency

Renewables

#### Target to increase revenues by +40% by 2017 vs. 2011

Energy performance solutions (buildings, green data centers) €7.1bn

Urban renovation (district heating, cooling and lighting networks) €1.7bn

• Facility management €0.7bn

• Upstream energy restructuring (renewables, nuclear dismantling) €0.3bn

(1) excluding pumped storage

## **Social policy: Human Resources**

## Be a responsible and proactive company



#### Anticipate for the Group' development

• 2 major European-wide agreements signed in 2010 with European Unions on jobs and skills planning and H&S: reinforcing policies providing the appropriate quantitative & qualitative jobs & skills on the long term (6-year action plan)

## Create long term & shared value with the Group Social Project

- Employee shareholding 2.3%<sup>(1)</sup>: attribution of 21 million shares since the 1st plan in 2007. Objective of 3%
- Social dialogue: Common Agreements with Unions representatives of GDF SUEZ employees in Europe
- Fight against discrimination and promoting diversity:
  - Precise quantified 2015 targets: 25% of women in managerial staff, 30% of recruitments, 35% high potential, 1/3 senior managers nominations
  - Diversity Label awarded in 2012 by AFNOR<sup>(2)</sup>: 42,000 employees covered in France
- Helping people into employment:
  - Strong participation in work/study insertion: 4,772 people, 4.4% of the French workforce<sup>(1)</sup>
  - Group's partnerships & local initiatives: including Fondation Agir Contre l'Exclusion: 800 young people supported (Driving licence-Sport-Jobs) and SITA REBOND: over 3,000 people supported with over 800 below 25-year old people: among them, over 400 found back a stable job

#### Develop to attract, retain & increase employees' skills

- Management Way: 42,000 managers, guaranteeing the implementation of GDF SUEZ values. Description of the 28 expected behaviors of every employee, in Group integration, in relation with the customers and in people development.
   20% in the variable remuneration of the Top Executives
- Expert Policy: 3,000 experts, 500 Key Experts groups and 17 Top Experts groups. Dedicated policy to enable the full development of experts with a focus on GDF SUEZ business orientations
- **Training Policy:** 3 channels: GDF SUEZ University (7,000 managers/year), e-Learning and external programs. In 2012, 2/3 of the employees followed at least 1 training/year

#### Innovate to evolve & spur the collective thinking

- 180 Sharing Practice Communities covering 20 areas (including marketing & sales, engineering, business development, HR) gathering 25,000 employees
- Development of several internal social networks
- Yearly Innovation Trophy organized since 2009.
   624 proposal received, 20 prizes, 8 value creation labels<sup>(3)</sup>

(1) end 2012 (2) French Association of Normalization (3)in 2012

## Social policy: Health & Safety

## Achieving a high level performance



#### **Challenges Achievements / Objectives** 18.1 16.3 14.8 Frequency Rate evolution(1) Frequency rate (employees) 7.6 in 2012, more than halved vs 2004 Reduce the number of accidents: Steady improvement in all business lines H&S Action Plan 2010-2015 **Target of < 6 in 2015** Action plan for eradication of fatalities (2013-2015) Life-saving rules to prevent the main causes of fatalities identified during the last 3 Reduce the number of fatalities for employees years within the Group and subcontractors Target of Zero fatal accident linked with the Group activity by the end of 2015 Carcinogenic Mutagenic and Reprotoxic Inventory (2012), substitution planned for 2013 chemicals inventory, substitution when possible Preventing psycho-social risks by improving Diagnosis and action plan by each entity the quality of life at work in France (2012) and other countries (2013) Musculoskeletal disorders action plan Group standard (2012), e-learning action plan (2013) **Managers involvement** through personal targets At least 10% of variable remuneration with 40% of quantitative results and 60% and through variable remuneration. of qualitative assessment

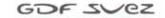
#### **Benchmarks**

**Accident** power generation (FR:2) among the best, gas infrastructures (FR:3.4) within the average, water (FR:5) **frequency rate**<sup>(1)</sup> better than average, waste (FR:19) within the average and energy services (FR:7.4) among the best<sup>(2)</sup>

**Fatalities rate** within the average of 3 fatal accidents per 100 million hours worked (2,3)

(1) FR: (nb. of disabling injuries / nb. hours worked) x 1,000,000 (2) Source: companies reports, 2011 data (3) Oil & Gas producers

## **Governance policy**



An active, diversified & balanced Board

Challenges	Achievements
Reducing the size of the Board of Directors	24 directors in 2008 (due to the merger of GDF and SUEZ) reduced to 19 directors at the 2012 shareholders' meeting
Reducing the number of censors <sup>(1)</sup>	The number of censors <sup>(1)</sup> was reduced from 2 to 1; the current censor, a former CFO of the Group, brings his experience to the Board
A significant number of independent directors	8 independent directors
An international Board	4 foreign directors
A significant presence of women on the Board	• 5 directors are women, above the average of the CAC40 (23%) Ahead of French law and governance code requirements
Fostering attendance at Board meetings	Attendance at Board meeting: 89%, in increase
4 committees assist the Board, all chaired by an independent Director	Audit, Strategy & Investment, Nomination & Compensation, Ethics, Environment & Sustainable Development
Improving operating procedures of the Board	Annual review of Board operating procedures under the supervision of an independent director
Efficiency of strategy and risk management	Annual Board seminars on Group strategy; Chairmen of Audit and Strategy committees attending each other's committee; as the case may be, joint meetings of Audit and Strategy committees

<sup>(1)</sup> Observer elected by the Shareholders' Meeting who acts in an advisory capacity without voting right

## Governance policy

## Sustained dialogue with shareholders & investors



#### **Challenges**

#### **Achievements**

#### **Facilitating shareholders vote** at annual shareholders' meeting

Internet voting offered at annual shareholders' meeting

#### **Preserving shareholders' rights**

- No double voting right shares
- Some financial authorizations with limited amounts and use

Dialogue with proxy advisors and investors on shareholders' resolutions

Exchanges on published resolutions presented to the shareholders meeting, taking into consideration proxy advisors' and investors' voting policies

Improving shareholders' role on transparency of executive compensation

 Favorable to non binding « say on pay » vote limited to executive compensation policy

#### Strong dialogue with investors

Roadshows:

2012: 29 days 2011: 21 days

1st SRI roadshow in 2011

Quarterly results calls

Thematic calls

**Newsletter Sustainability** 

Individual shareholders club: 29,000 members

**Benchmark** 

Among the first

CAC40 companies

to offer internet voting

to its shareholders

(registered and bearer

shareholders)

"Grand Prix Transparence

2012": GDF SUEZ ranked

9<sup>th</sup> out of 170 companies



Clear separation

between the French State





36%

North America

**GBL** 

Other strategic investors (4%)

GDF SUEZ SUSTAINABILITY: 2012 ANNUAL RESULTS

Retail and other

March, 2013

## **Governance policy: Incentives**





#### **Commitments**

Concentrate on Recurring EPS

**Group** identity

Corporate Social Responsibility

Health & Safety

#### **Indicators**

#### Variable compensation for 2012

#### For the 2 Executive Corporate officers

- § 70% quantitative: 50% Recurring EPS<sup>(1)</sup>, 50% Free Cash Flow, ROCE, Net debt (2011:1/3 EBITDA, FCF, 1/3 Adj. EPS, ROCE, 1/3 Efficio, Net debt)
- § 30% qualitative including Corporate Social Responsibility, notably Health &Safety

#### For Senior executives (~750 people)

- § 50% collective financial indicators:50% Net Recurring Income group share,50% Free Cash Flow, ROCE, Net debt, Efficio
- § 30% personal indicators (operational, industrial)
- § 20% management way score, monitoring how results are delivered compared to company values including Corporate Social Responsibility

#### **Group identity:**

- § Variable compensation multiplied by a coefficient related to the Group's overall performance
- § Target of 3% of employee shareholding, 2.3% as of end 2012
- § Employee shareholder plans: 21 million shares granted to employees between 2007 and 2011

Health & Safety: at least 10% of annual variable compensation for all operational managers

<sup>(1)</sup> Net Recurring Income group share per share

## **Governance policy: Ethics**

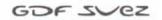


## Guaranteeing implementation in the whole organization

C	hallenges	Achievements
Implement Ethics	At the highest level of governance	<ul> <li>A Board Committee for Ethics and Sustainable development</li> <li>Ethical Charter adopted by the Board</li> </ul>
	And through the whole Group	<ul> <li>"Guidelines Ethics in Practice", publication in 21 languages,         Objective: reach every employee</li> <li>A network of 170 Ethics Officers</li> <li>Annual analysis of ethical risks embedded in the Group's risk review</li> </ul>
"Integrity Ref GDF SUEZ ar and corruption	nti-fraud	<ul> <li>Action plan</li> <li>New principles for commercial relationships</li> <li>A mandatory training for 800 senior executives about risk of fraud and corruption</li> <li>A new policy for business consultants in order to obtain an external certification</li> <li>E-learning training for employees</li> </ul>
Managing Ethical Compliance Referential		<ul> <li>To ensure the effectiveness of ethical programs</li> <li>A compliance Committee</li> <li>Annual Compliance procedure</li> <li>Monitoring tool for ethical incidents</li> <li>A whistle blowing e-mail</li> </ul>
Ethics, suppliers & projects		<ul> <li>Ethical and Sustainable Development clauses in purchasing contracts for each new contract or renewal since 2010</li> <li>Prevention and respect of human rights criteria integrated in the extrafinancial assessment of the large projects</li> </ul>

## **Governance policy: Transparency**

## Commitments to fight against corruption





#### Challenges

#### **Achievements**

Public reporting on the 10<sup>th</sup> principle of the Global Compact (on the U.N. Global Compact web site)

- Transparency for stakeholders on anti-corruption commitments, policies, process, action plans and monitoring
- Information for employees, mean of control and improvement of anti-corruption policies and programs
- Group's decision to report on 22 « desired reporting elements », beside the 7 « basic reporting elements »

#### **Extractive Industries Transparency Initiative (EITI)**



Commitment to transparency and fight against corruption

- Supporting company since 2009
- Publish from our E&P activity what we pay to the governments in countries part of this initiative: tax and revenues published in 5 countries

12 principles: the prudent use of natural resource wealth should be an important engine for sustainable economic growth that contributes to sustainable development and poverty reduction

To continue to participate in EITI meetings organized by France's Ministry of Foreign Affairs

## **Sustainability**



Fully integrated within strategy & businesses



## 10 sustainable development criteria for investing



# Sustainability management fully valuated in business development to create long term value

- Combining financial and non-financial assessments for investment projects improves risks management and contributes to create value in the long-term
- Use of the Sustainable Development criteria in investment decisions

## 10 criteria covering the ESG issues

- Ethics
- CO<sub>2</sub> emissions
- Impact of CO<sub>2</sub> price (EUA/CER) on Project IRR
- Energy efficiency
- Management of ecosystems

- Cooperation with stakeholders
- Social impacts
- HR
- Local procurement
- Health & Safety

# Ratings & certifications: high acknowledgement of the quality of sustainability data and information



#### **Sustainable Development Report**



Rated B+ by Global Reporting Initiative (GRI)

#### **Certifications**

Relevant share of revenues covered by ISO 14001, EMAS, other external EMS<sup>(1)</sup> certifications and internal EMS: **84%** (vs. 83% in 2011)

Relevant share of revenues covered by ISO 14001, EMAS<sup>(2)</sup> and other external EMS<sup>(1)</sup> certifications: **70%** (vs. 67% in 2011)

# Verification of the CSR data by the Statutory Auditors

Number of indicators in Reasonable assurance and Moderated assurance:

- 60 in 2012: +9 vs 2011
- Among the highest one in CAC40 in 2011

Indicators:		Environment	Social
2012	Reasonable assurance	13	6
	Moderated assurance	8	33
	Decemble accurance	14	
2011	Reasonable assurance  Moderated assurance	14 	 23
	Middelated assurance		

<sup>(1)</sup> Environmental Management Scheme (2) Eco Management & Audit Scheme

## "GDF SUEZ Rassembleurs d'Energies" initiative

A unique and worldwide program

Help to reduce energy poverty of the poorest populations and contribute to their economic growth and social development by increasing access to sustainable energy



A unique, innovative program supporting social entrepreneurs providing energy access for poor people through 3 levers:

#### **DONATION**

**GDF SUEZ Foundation** 

## TECHNICAL ASSISTANCE

Involvement of employees' expertise and employees' internal NGOs (Codegaz, Energy Assistance, Aquassistance)

#### **INVESTMENT**

Creation of a socially responsible investment fund, with a target of €100m under management at the end of 2013

2011: 8 donation projects started or already committed

2012: 8 new donation projects and



## **New investment:**Support of EGG-Energy Tanzania



- Dedicated to helping low-income consumers in Sub-Saharan Africa gain access to clean, affordable energy, using a unique strategy based around portable rechargeable batteries.
- 250k investment: minority interest acquisition

#### SUSTAINABILITY



GDF SUEZ strategy to foster long term value creation

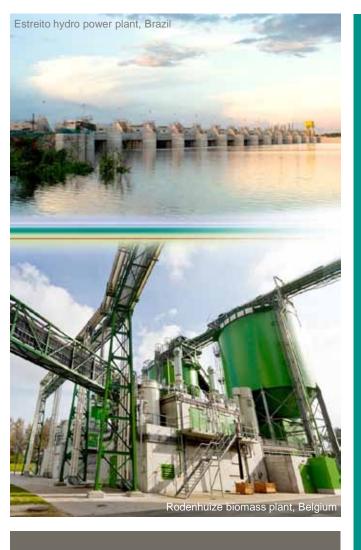
□ Combination of Sustainable Business & Non-Financial Risk Management to create long term value, shared with all the stakeholders

## **∩ Sustainability fully integrated into the:**

- Strategy with clear 2015 objectives
- Investments policy through 10 criteria
- Organization with a single division gathering Strategy & Sustainable Development
- Governance with a dedicated Board Committee

## Ongoing development

- Definition of the integrated performance to demonstrate the full value creation of the businesses
- Publication of the first Integrated Report by 2015



# **APPENDICES**

March, 2013

## Ratings 2011-2012:



GDF SUEZ has improved its Vigeo scoring in 2012, being now the 1st integrated company of the Electric & Gas utility sector



ASPI (Vigeo) (2012)

EDF
E.ON
GDF SUEZ
Iberdrola
RWE
Suez Environnement
VEOLIA

- 1st among the integrated energy companies
- 3<sup>rd</sup> in the Gas & Electric Utilities sector (5th in 2011)
- Listed in the new indices:
  - Vigeo World 120 (16<sup>th</sup> company, 2<sup>nd</sup> Utility)
  - Vigeo Europe 120 (14th company, 2nd Utility),
  - Vigeo France 20 (5<sup>th</sup> company, 1st Utility)



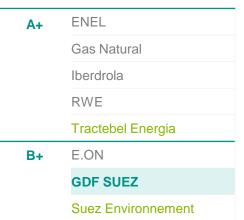
**DJSI (SAM)** (2012)

Listed in the Runners up among the Sustainability Leaders

of the "Electricity" sector in the Yearbook 2013



**GRI** (2011)





В	Suez Environnement
B-	Iberdrola
	VEOLIA
C+	GDF SUEZ
	RWE

#### CARBON DISCLOSURE PROJECT

**CDP** (2011)

Α	Gas Natural
	Iberdrola
В	EDF
	ENEL
	GDF SUEZ
	VEOLIA
С	RWE

## Research & Innovation



A gateway to technology, a critical success factor

#### 3 prospective R&D priorities

Smart Energy & Environment **Future gas** chains

#### Organized in 5 corporate programs

City and building of tomorrow

Renewable energies

**Smart Energy and Environment** 

Offshore LNG and future gas chains

CO<sub>2</sub> capture, transport and storage

#### Research centers location

CO<sub>2</sub> free energy

production

#### **SPAIN**

 DENARD Degrémont & United Water, Richmond, VA

**UNITED STATES** 

- CETAQUA Agbar, Barcelona
- LABAQUA Alicante

#### **FRANCE**

- CIRSEE SUEZ Environnement. Le Pecq & Croissy
- CRIGEN La Plaine Saint-Denis
- **CYLERGIE** Ecully
- LyRE Bordeaux

#### **BELGIUM**

 LABORELEC Linkebeek

Shanghai

• SWRC Shanghai Chemical Industry Park,

**CHINA** 

#### **RESEARCH CENTRES**

**1,100** researchers **9** research centres

#### **INVESTMENTS IN R&I**

~€240 million

#### **PROGRAMS**

5 strategic corporate programs

## Sustainable business



## Innovative offers integrating ESG competitive advantages

#### **Industrial solutions**

#### Barcelona, city dash board

Unique IT tool designed and developed by GDF SUEZ for collection, analysis, and optimal use of available data about the city (energy, water, traffic).

Simultaneous monitoring and development of the city's territorial policy, control of infrastructures, event communication and optimization of investments.

#### Green Lys, smart electricity system

First full-scale smart electricity system set up in partnership with the cities of Lyon and Grenoble (1,000 residential customers and 40 tertiary sites).

Combining the most adapted generation and supply conditions to the most optimised uses of electricity by the customers.

#### Commercial offers

#### AlpEnergy 100, 100% green electricity

100 % renewable electricity offer to B2B customers, enabling to reduce CO2 emissions of their production process: GDF SUEZ contribution to the sustainability objectives of its clients.

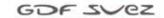
Vertuoz, energy management (synergy of GDF SUEZ Energies France and Cofely Services) Energy management scorecard offer to B2B and B2G customers, to manage their energy consumption to optimize the environmental and economic performance of their buildings.

#### Degrés bleus, energy from waste

Energy offer based on a system of heat production from wastewater pipelines, reducing customers' carbon footprint by 30 to 70%.

5% saving of their energy bill as from the first year.

## **Sustainable Business**



Renewable energy and energy efficiency

# Hydro 16.5 GW installed, 4.1 GW in construction

**Brazil: #1 independent power producer** 

Jirau: 3,750 MW, in construction

Estreito: 1,087 MW progressive COD

Peru: Quitaracsa, 112 MW in construction

Chile: Laja, 34 MW in construction

# Wind 3.8 GW installed, 0.8GW in construction

France: #1 wind producer

1,200 MW installed capacity, 42 MW in construction

**Morocco:** Tarfaya (300 MW in construction)

Canada: 362 MW installed capacity,

297 MW in construction

Brazil: 44 MW installed capacity, 115 MW

in construction

## Smart cities and energy efficiency



1st "Energy performance contract"



Tramway



Public lighting

#### **Sustainable Business**





Issue: Climate change

Business opportunities: Energy efficiency and renewables

## **Energy plants, Olympic Games, London, 2012**

- Cofely: 40 year contract (build, finance and operate)
- East London: Olympic Games, Stratford
  - 2 power plants (natural gas and biomass)
  - Tri-generation (heating, cooling and electricity)
- Production for 20,000 families:

Heating	200 MW
Cooling	65 MW
Electricity generation	30 MW

- Requirements for the final decision of Olympic Games Committee and Stratford City:
  - Energy efficiency (tri-generation)
  - Low CO<sub>2</sub> emissions (biomass)
- Investment: €100m GDF SUEZ share
- Total revenues: €1.5bn



## Estreito: social & environmental programs





Estreito Hydro Power Plant Figures

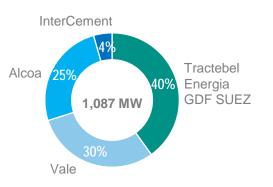
**Focus on One** 

Health Future

of the Programs

Healthy Children

#### **Installed capacity**



- Investment of BRL 6 billion
- 12 Municipalities within the influence area
- 39 social and environmental programs
- More than BRL 600 million invested in social and environmental actions and benefits to municipalities
- About 36,000 direct and indirect jobs created
- Qualification of about 4,000 professionals during construction

INMED

#### PARTNERSHIP WITH NGO

#### **Objective**

To improve the low health indexes of the children of Estreito HPP municipalities

#### **Method**

Teach students the appropriate hygiene, sanitation and health practices, as well as cultivate school gardens and increase the access to drinking water in schools and homes through solar filtration

#### Results

The index of anemic children fell from 53.4% to 7.9%, and the parasitological incidence decreased from 55% to 4%. 15,000 children in 197 schools were benefited

The Program got the main prize of the LIF Sustainability Award 2012 by the France-Brazil Chamber of Commerce

## Local involvement: securing the acceptability



Hydropower plant project, Jirau, Brazil





## Comprehensive action plans to ensure the acceptability of the project

- Integrated into the Growth Acceleration Programme in Brazil
- Run of the river hydro power plant.
   Small flooded area: 208 km²
- 33 environmental and social programs defined by IBAMA and approved by FUNAI (National Indian Foundation) amounting to ~€0.5bn
- Programs built according to IHA Protocol (International Hydropower Association), certified by Bureau Veritas (external verification) and audited regularly.

- Resettlement program of 525 families, approved by IBAMA
- 22,000 direct and 40,000 indirect jobs created (at the peak)
- Voluntary socio-environmental programs: beyond the demands of the law (construction of Nova Mutum Parana, a complete city with 1,600 houses and all facilities, health and agricultural programs, social programs with reputable international NGOs – INMED, Instituto ProNatura, etc)

## **Health & Safety management**





**Group objective:** achieve a Frequency Rate<sup>(1)</sup> of less than 6 in 2015

**Example of E&P:** major industrial incident types that could occur:

- Fire and explosion on a large manned platform
- Leak in a pipeline including potential fire or explosion
- Blow-out on a drilling rig
- Major spill associated with transportation of hydrocarbons (offshore tanker or land transportation)
- Other potential incidents include the loss of a supply vessel, ship collision or a vehicular accident (including a helicopter crash)
- è Frequency Rate (Global Gas & LNG): strong record thanks to risk management (FR<1 for the second year in a row)
- è All managers incentivised on H&S performance



#### Gjøa project, Norway

#### Health & Safety management:

- High level of risks (inflammable, under pressure)
- Comply with local H&S regulations and Group's requirements
- H&S into the management of all activities
- H&S responsibilities of the manager and the employees (actions: skills development, improved maintenance organization by increasing supporting staff)

#### Gjøa, more specifically:

- Location in high density ship traffic area
- Actions: implementation of updated ship collision study, drills for ship collision

(1) 2015 target, FR: number of accidents with leave/hours worked x 1 million

## **Environmental risks: preservation of biodiversity**



Commitment to ensure the appropriate integration of installations into their environment

**Objective:** implement a biodiversity action plan at each sensitive site in the European Union by 2015

# Eridan project: Natural gas transport in France A necessary constant back and forth between studies and dialogue

- Public debate about the route map in 2009, to discuss the opportunity of the project & dialogue locally with stakeholders
- Charter of territorial commitments for a sustainable project in answer to the public debate.



- Specific biodiversity management resulting from the public debate and the charter:
  - Comprehensive studies on the local fauna and flora by experts collected data shared with environmental NGOs and the local authorities: « Ateliers Biodiversité »
  - Re-forestation: according to specific requirements excluding any non-local species and avoiding the introduction of invasive species
  - Residual impact compensated: land acquisition, then highlighted for its biological wealth
  - Future pipeline to be fostered the as a biological corridor