



Green Bond Roadshow Presentation

November 2013



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Agenda

- EDF group overview
- EDF group ambition in renewable energies
- EDF Energies Nouvelles business model
- Contemplated Green Bond transaction
- Appendices

EDF at the forefront of responsible financing with the first Green Bond issuance for a corporate

Global leader in low carbon power generation

- Worldwide leader in the electricity sector, #1 nuclear operator, #1 European renewable producer
- Operational excellence and valuable experience across the electricity value chain
- Long term commitment to invest in renewable energies, with a sustainable approach
- Highest credit rating in the industry, backed by a very strong liquidity position
- Strong defensive characteristics and well positioned to thrive in a low carbon world

Contemplates the issuance of the first corporate Green Bond

- Senior unsecured notes
- Commitment to use bonds proceeds for renewable energy projects and to report to investors on these projects
- Strengthened Green Bond markets best practices based on external validation of criteria and independent audit
- Aiming at diversifying EDF investors base and spurring the developing Green Bond markets

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EDF group 2012 key figures

Operational figures

- **~39.3 million** clients worldwide (gas & power)
- **139.5 GW⁽¹⁾** installed worldwide
 - o/w 74.7 GW nuclear
 - o/w 37.9 GW thermal plants
 - **o/w 26.9 GW** hydropower and renewable
- **~1.4 M km** of networks, both for transmission and distribution through its affiliated companies
- **~160,000** employees
 - o/w ~ 38,000 distribution (France)
 - o/w ~ 38,000 generation / engineering (France)
 - o/w ~ 15,000 EDF Energy

Financials

- Sales: **€72.7bn**
- EBITDA: **€16.1bn**
- Net income (excl. non-recurring items): **€4.2bn**
- Net investments⁽²⁾: **€11.8bn**
- Net financial debt⁽³⁾: **€39.2bn**
- Ratings: **A+/Aa3/A+/AA+** (S&P/Moody's/Fitch/JCR)

Environmental and social responsibility

- **11 Key Commitments:** to act as a responsible industrial firm, a responsible employer and a responsible business partner (see details in Appendix)
- **Vigeo:** overall score of 55/100
- **FTSE4Good index:** integration of EDF in March 2012

EDF's financial structure: key achievements over past 3 years

Portfolio optimisation allowing EDF to fully deploy its industrial strategy

- EDF has clearly identified growth platforms where it can deploy its strategy while keeping a highly visible profile
 - Renewables with EDF Energies Nouvelles
 - Gas strategy with EDISON
 - Energy Services with DALKIA⁽¹⁾

Implementing a financing toolbox matching EDF's investment profile

- Increased maturity matching long duration assets:
 - 9 year debt maturity at 3.9% coupon as of June 2013 (vs. 8.6y at 4.1% in June 2012)
- Hybrid bond matching EDF's growth projects with not yet contributing capital employed
 - Successful €6.1bn issuance in 2013, in EUR, USD and GBP
- EDF Invest: €5bn to invest in infrastructure to diversify returns for EDF's dedicated assets fund (RTE, TIGF etc...)

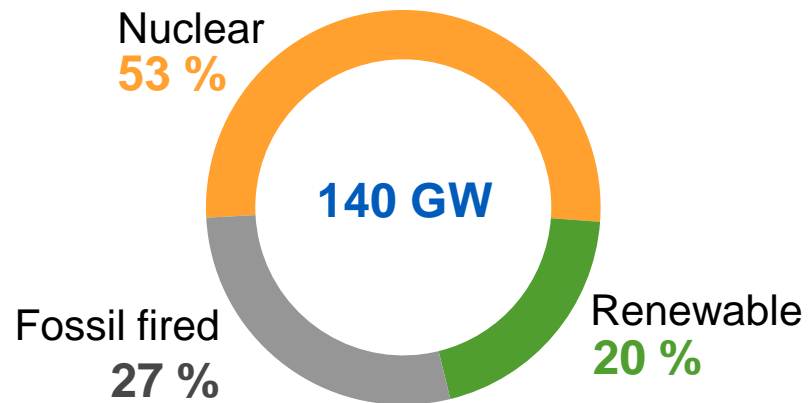
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A comprehensive strategy to address the challenges of today and tomorrow's energy transition

Leadership in low carbon generation

Installed capacity⁽¹⁾ (in GW), as of 30 June 2013



- Low CO₂ emissions: carbon factor for EDF is 116⁽²⁾ gCO₂/kWh vs. 338⁽²⁾ gCO₂/kWh for the European average
- Low exposure to commodities risk versus peers

Five goals to sustain our leadership as an integrated utility

- Develop ambitious and efficient demand side management solutions
- **Invest in renewable energies and increase their competitiveness**
- Promote excellence and competitiveness of the French nuclear industry
- Actively fight energy poverty and promote access to electricity
- Support local communities in their energy projects

Renewables have a key role to play in delivering EDF's strategy

We develop renewable energies in a sustainable way

Challenges in renewable energies markets

- Generation costs
- Intermittency

EDF approach

- Develop the right type of renewable energy at the right place
- Displace existing and avoid new carbon-intensive generation
- Invest in Research & Development⁽¹⁾
- Leverage synergies between EDF and EDF Energies Nouvelles

EDF conviction: Green and Responsible

- **Be global & local:** develop local resources and resilience, in order to ensure a consistent and secure supply, by balancing centralised and decentralised generation
- **Be fair:** affordability and energy solidarity
- **Invest and optimise:** focus on energy efficiencies, optimise existing infrastructures and assets
- **Engage:** dialogue with stakeholders

Largest renewable player in Europe

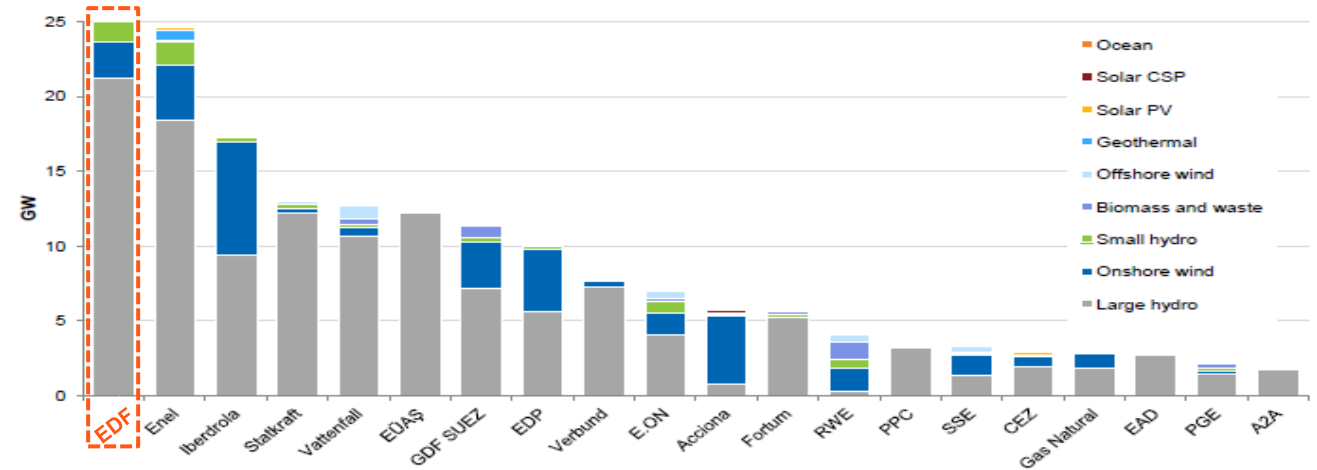
Hydropower

- **Largest producer in Europe**
- Architect and lead contractor on international hydro projects (e.g. Laos, Brazil)

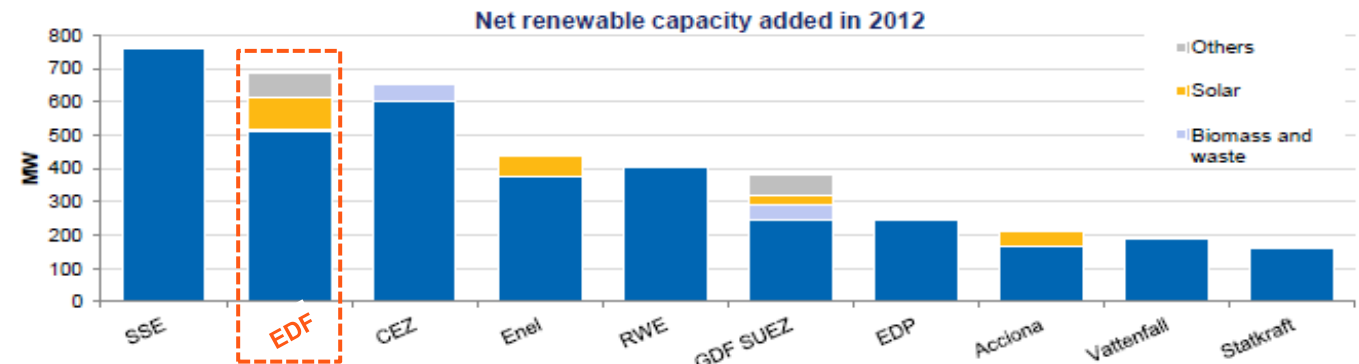
New Renewable Energy

- **A leader in Solar PV**
- A major player in Onshore Wind
- Key achievements and successes in Offshore Wind
 - Completion of Teesside (UK) wind farm (62 MW)
 - French tender: 3 out of 4 projects won by the EDF EN-led consortium (up to 1,500 MW)

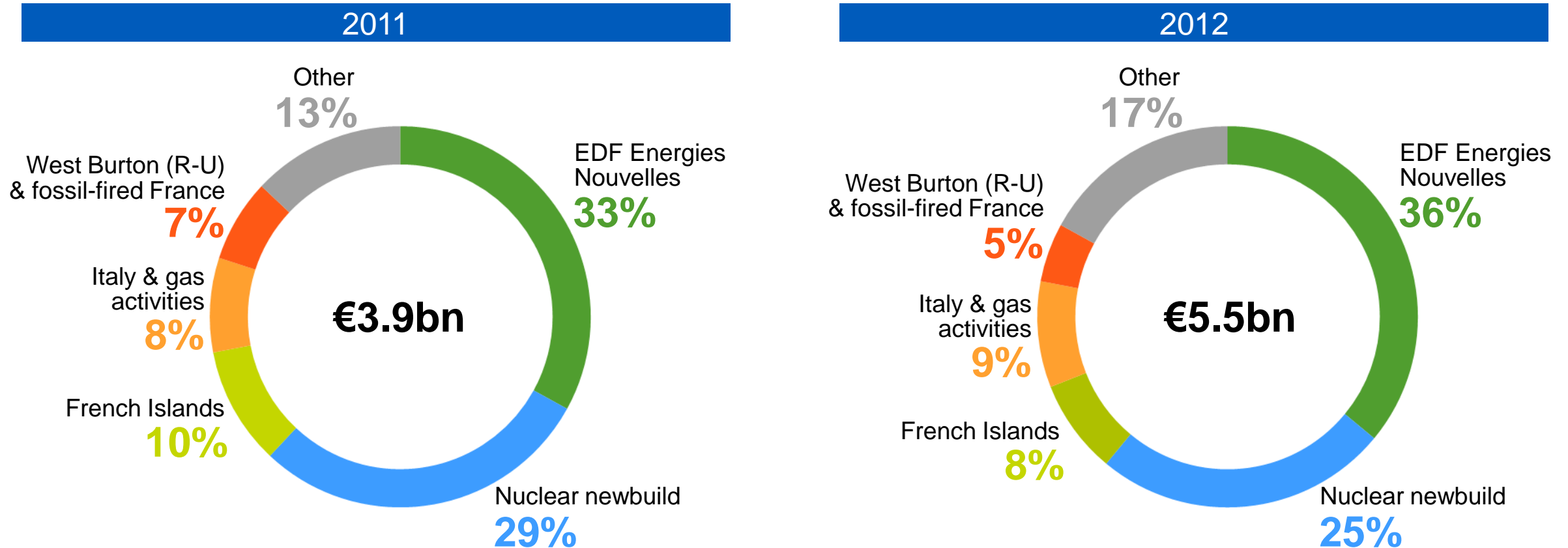
TOP 20 OWNERS OF RENEWABLE CAPACITY IN EUROPE AT YEAR-END 2012⁽¹⁾⁽²⁾



TOP 10 COMPANIES BY ADDED NEW RENEWABLE NET CAPACITY IN 2012⁽¹⁾⁽³⁾



More than a third of EDF's development CAPEX⁽¹⁾ dedicated to EDF Energies Nouvelles



(1) Gross operational investments for development

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EDF Energies Nouvelles: a pure player in green energy generation

A multi-segment player

1

MAIN
SEGMENTS



~85%
of the EDF EN's
group activities

~12%
of the EDF EN's
group activities

2

OTHER
ACTIVITIES



complementary
selective
developments

3

APPLICATION
R&D



An integrated operator present across the renewable value chain



Development



Construction



Generation &
Sale of assets



Operations/
Maintenance

An international footprint

17 countries ~2,750 employees



North America



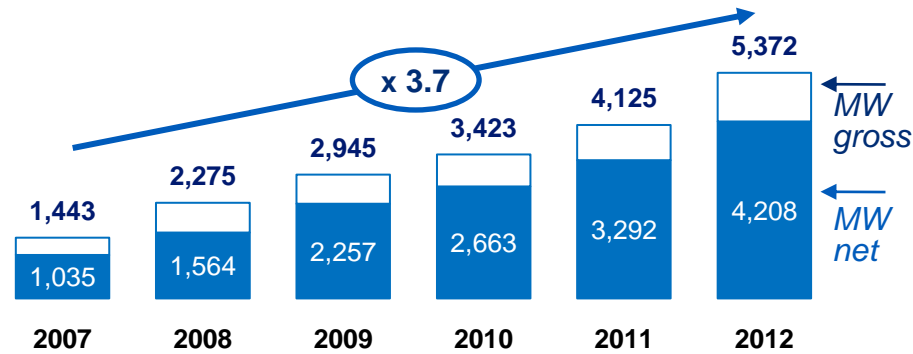
Europe



Africa &
Middle-East

EDF Energies Nouvelles has established itself as a global renewable leader⁽¹⁾

Trends in installed capacity



MW gross: capacity of power plants in which EDF EN is shareholder

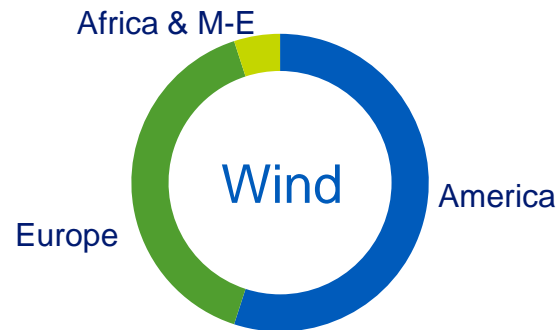
MW net: capacity referring to the portion of power plants capital owned by EDF EN

A major developer and operator

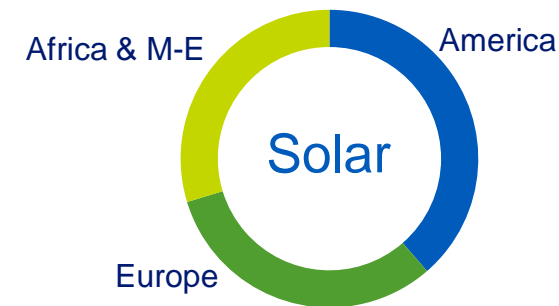
Total capacity under O&M **8,167 MW**

Total developed capacity **7,450 MW**

Projects under development

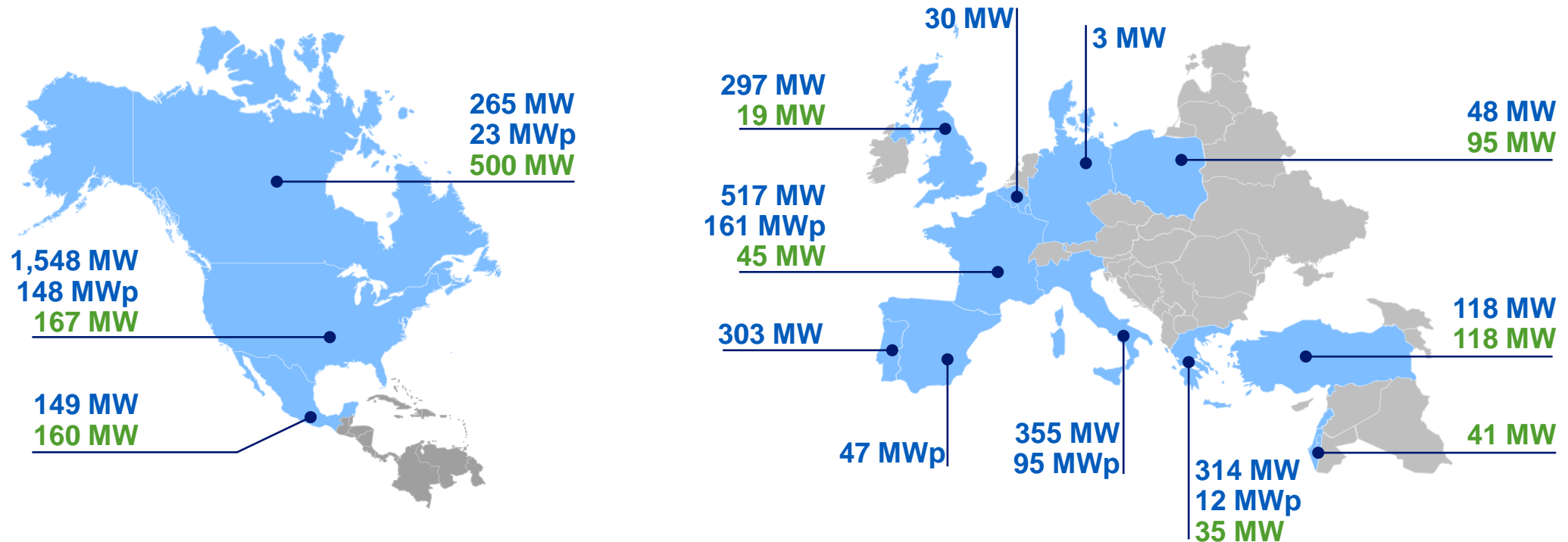


Total > 13,000 MW



Total > 2,600 MWp

EDF Energies Nouvelles: a significant portfolio of renewable projects ⁽¹⁾



Wind installed (MW)

Solar installed (MWp⁽²⁾)

Wind and solar under construction (MW)

Installed capacity:

Capacity under construction:

Gross

6,349 MW

1,493 MW

Net

4,649 MW

1,244 MW

Other technologies

Installed 171 MW

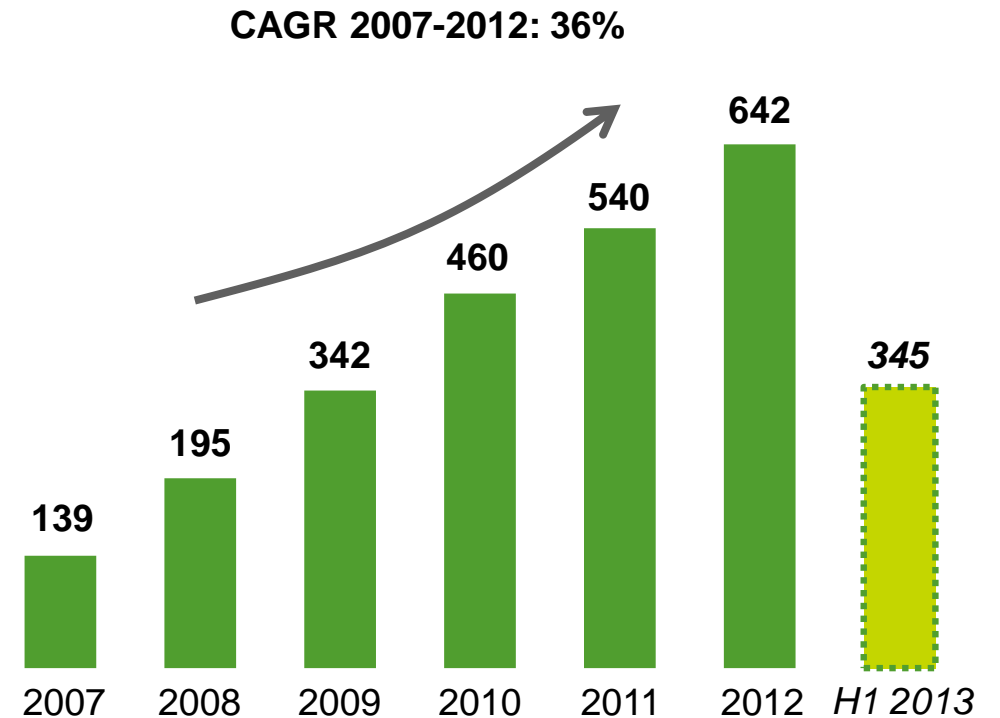
Under construction 64 MW

EDF Energies Nouvelles: a successful platform to deploy EDF's ambition in renewable energies

- The best of both worlds
 - EDF EN's entrepreneurial spirit
 - Combined with EDF Group's strengths
- Yielding operating success...
 - French offshore tender: the EDF EN-led consortium won 3 out of 4 projects (up to 1,500 MW)
 - 2012: record year with 1,550 MW of commissioned capacity
 - Robust activity in Development-Sale of Structured Assets
- ...and outstanding financial results consistent with the Group strict investment criteria

Historical EBITDA expansion

EBITDA (in €m)



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EDF Green Bond characteristics

Same credit, same price & same liquidity as any EDF Bond

- Issued through EDF Euro Medium Term Notes (EMTN) program, with a benchmark size and intermediate maturity

Earmarking of funds for the financing of the renewable energy transition

- Allocation of proceeds to best-in-class renewable energy projects financed by EDF EN

Setting the most advanced standard for Green Bond markets

- Tracking of bond proceeds described in legal documentation
- Project eligibility criteria vetted by SRI rating agency
- Reporting to investors subject to independent verification

Paving the way for further transactions

- Fully integrated within EDF strategy in Renewable Energies and with EDF funding strategy

Setting most advanced Green Bond markets standards

Tracking of funds documented in the final terms

- Net proceeds allocated to a sub portfolio
- Proceeds tracked separately and invested in liquidity instruments before being disbursed for Eligible Projects

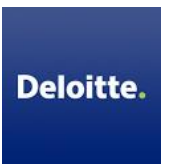
Independent expert validation of project eligibility criteria

- Eligible projects:
 - Investment in electricity production from renewable sources such as wind (off-shore and on-shore), photovoltaic, biogas, marine energy, etc. and
 - Compliant with eligibility criteria which have been vetted by Vigeo⁽¹⁾, based on its ESG Rating methodology
- Eligible projects only made of projects not yet externally financed



External attestation report on use of funds and yearly disclosure

- Eligibility of projects and allocated funds verified yearly by Deloitte & Associés
- EDF already one of the most advanced companies regarding the quality of its social and environmental reporting as well as the level of external verification it is subject to



Details on the current portfolio of eligible projects

Project eligibility criteria

- The project eligibility criteria set by Vigeo cover five ESG aspects
 1. Civil rights and Governance assessment of country location of the projects
 2. Management of environmental impacts
 3. Protection of workers' health and safety
 4. Promotion of responsible supplier relationship
 5. Dialogue with local players
- These criteria focus on a project's most critical phase i.e. construction

Eligible pipeline under the current transaction

- Based on these eligibility criteria
 - Size: ~€1,500m potential gross CAPEX by end of 2014
 - Geography: ~50% USA, ~30% Europe, ~20% Canada
 - Technology: ~75% Wind, ~25% Solar

Other developments for potential future transactions

- New geographies: Morocco, South Africa, Israel
 - where EDF can deploy its vertically integrated model
- Off-shore wind in France:
 - Leveraging EDF's engineering capacity
 - Significant local job creation
 - High load factor

“L’ensemble éolien catalan” (EEC) – France

Location	Baixas, Calce, Pezilla-la-rivière, Villeneuve-la-rivière (Eastern Pyrenees/Languedoc Rousillon)
Installed capacity	96 MW (2014-2015)
Wind turbines	35
Equivalent to annual electricity consumption of	about 120,000 people
Developer and owner	EDF Energies Nouvelles
Operational date	2014-2015



L'Ensemble Eolien Catalan (Photomontage)



Rivière-du-moulin wind project - Canada

Context	1 GW program won under the Hydro-Quebec-Distribution calls for tender in 2008 and 2010
Location	St. Lawrence river region, Quebec
Installed capacity	530 MW in operation (2013) St-Robert-Bellarmin: 80 MW Massif du Sud: 150 MW Lac Alfred 1&2: 300 MW 350 MW under construction (2014/2015) Rivière-du-moulin 1&2: 350 MW
Wind turbines (REpower)	265 in operation/175 to be installed by the end 2015
Equivalent to annual electricity consumption of (2013)	123,000 homes – wind farms in operation 70,000 homes – Rivière du Moulin
Developer and owner	EDF EN Canada, subsidiary of EDF EN
Operational date	Rivière-du-Moulin Dec. 2014: phase 1 Sept. 2015: phase 2



St-Robert-Bellarmin

Catalina 2 solar project - US

Location	Kern County, California
Installed capacity	24 MWp extension (Catalina 2) of the existing 143.2 MWp Catalina plant in operation
Solar PV panels <i>(plant in operation)</i>	Over 1.1 million Thin film technology from Solar Frontier (82 MWp) and First Solar (61 MWp)
Equivalent to annual electricity consumption of <i>(plant in operation)</i>	35,000 homes
Developer and owner	EDF Renewable Energy, US subsidiary of EDF EN
Operational date	Catalina 2: 2015



Expected transaction benefits

For EDF

- Diversify investors' base
 - Strengthen the link and enrich the dialogue with socially-responsible investors
- Highlight EDF strategy in renewable energies
 - Create a funding instrument aligned with EDF strategy of developing renewable energies in a sustainable way
- Further streamline EDF's approach to Corporate Responsibility
 - First joint initiative between Finance, Sustainable Development and EDF Energies Nouvelles

For Bond/SRI Investors

- Get direct exposure to renewable energies through a strong credit
 - Same credit, same price, same liquidity as any other EDF bond
- Support the voluntary commitment of a corporate for the energy transition
 - Strong documentation, independent opinion, external verification
- Promote the integration of Corporate Responsibility and Corporate Strategy
 - Initiative driven and shaped by operational, financing and sustainability imperatives

A benchmark transaction supporting the development of the Green Bond market



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Appendices



Appendices

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Net Financial Debt

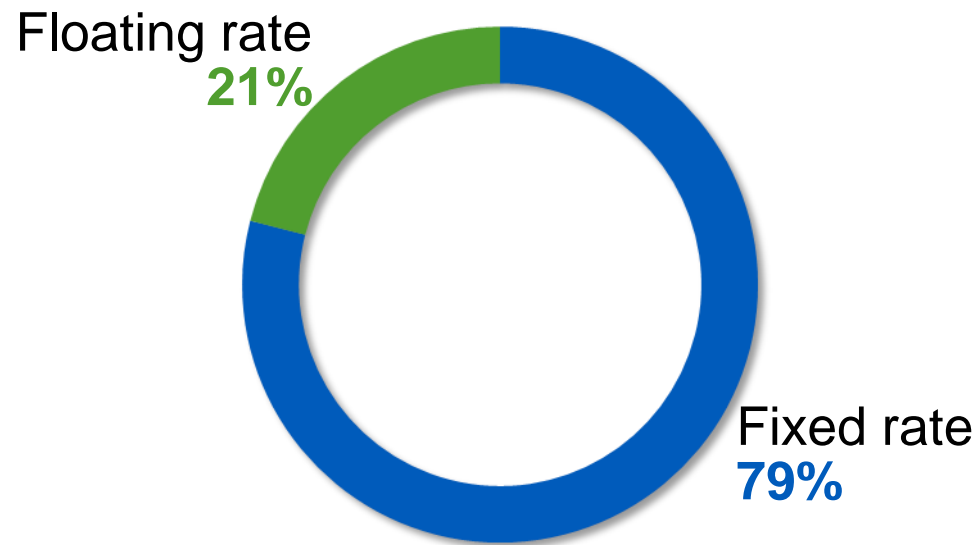
<i>In billions of euros</i>	30/06/2012 published	31/12/2012 published⁽¹⁾	30/06/2013
Net financial debt	39.7	39.2	33.7
Ratio Net financial debt / EBITDA	2.5x	2.4x	2.0x
Debt			
▪ Bonds	42.6	43.9	41.5
▪ Average maturity gross debt (in years)	8.6	8.5	9.0
▪ Average coupon	4.1%	3.7%	3.9%
Liquidity			
▪ Gross liquidity	27.1	27.2	27.3
▪ Net liquidity	12.5	13.8	17.7

Net Financial Debt calculation

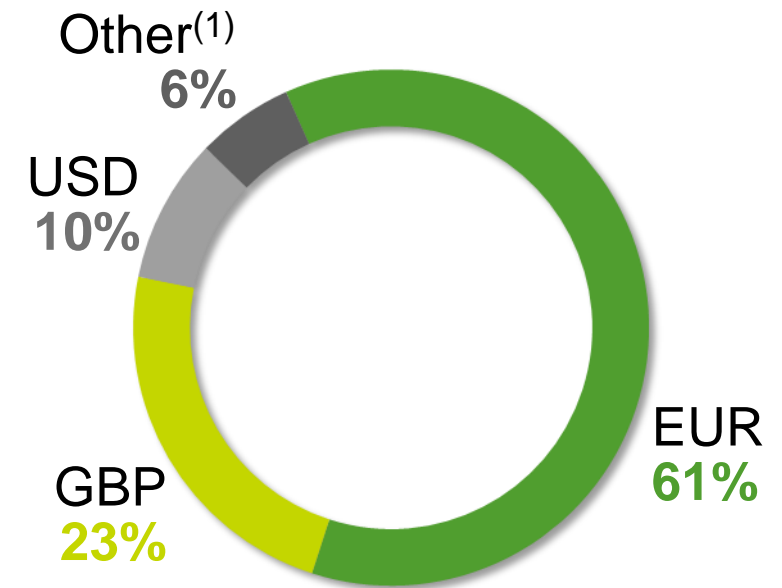
<i>In millions of euros</i>	30/06/2012	31/12/2012⁽³⁾	30/06/2013
Financial debt	60,050	59,932	53,985
Derivatives used to hedge debt	(1,149)	(797)	(478)
Cash and cash equivalents	(4,920)	(5,874)	(6,065)
Liquid financial assets available for sale	(13,062)	(10,289)	(12,129)
Loans to RTE and companies in joint-venture ⁽¹⁾⁽²⁾	(1,203)	(1,397)	(1,602)
Financial liabilities related to non-current assets classified as held for sale	-	-	18
Effect of allocation of the CSPE deficit	-	(2,400)	-
Net financial debt	39,716	39,175	33,729

Group financial debt after swaps as of 30 June 2013

Breakdown by type of rate



Breakdown by currency

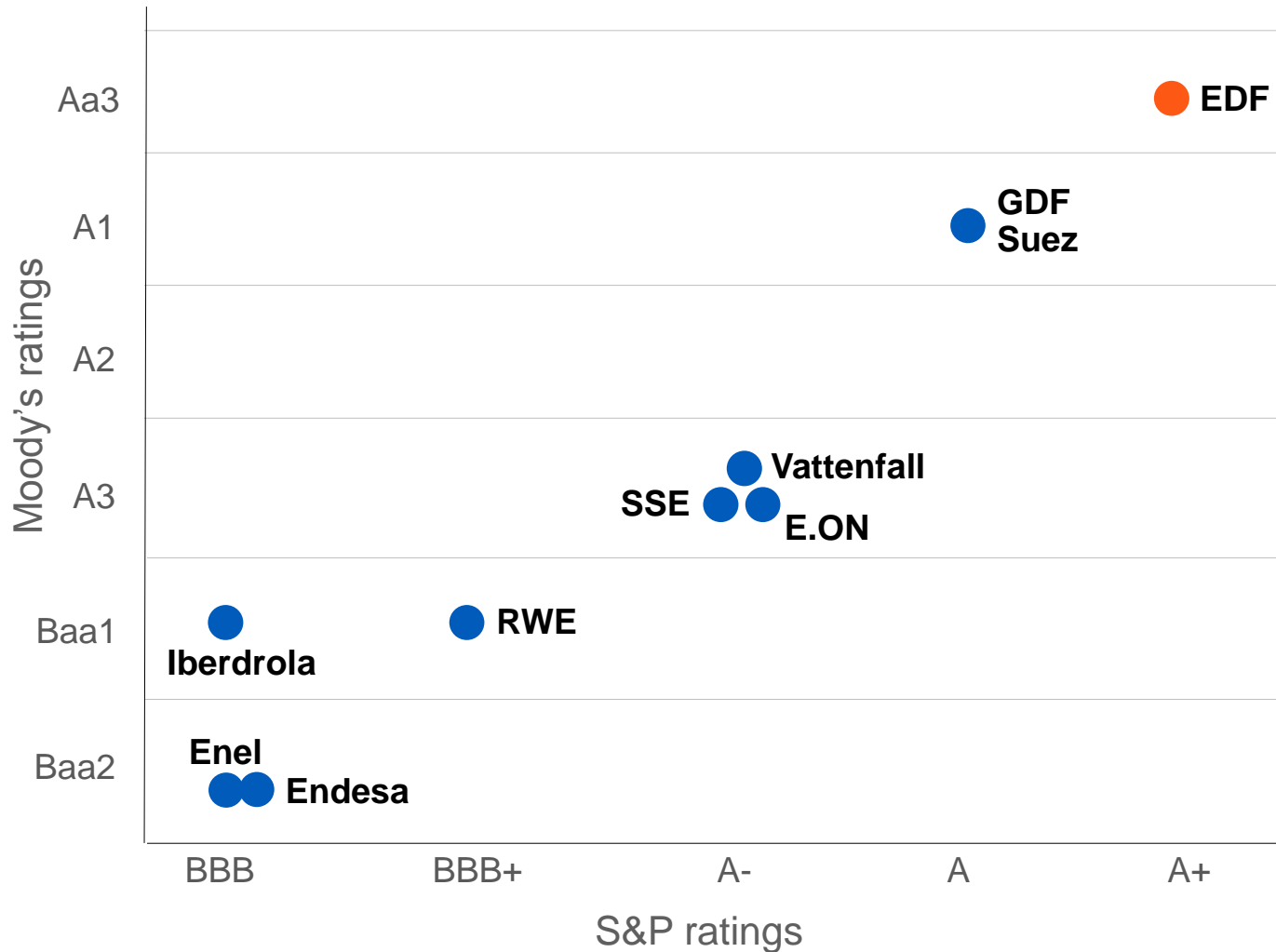


Average coupon: 3.9%
Average maturity: 9.0 years

EDF Main outstanding bonds at end of June 2013

Issue date ⁽¹⁾	Maturity	Nominal amount (millions of currency units)	Currency	Coupon
12/2008	12/2013	1,350	CHF	3.4 %
01/2009	01/2014	1,250	USD	5.5 %
07/2009	07/2014	3,269	EUR	4.5 %
01/2009	01/2015	2,000	EUR	5.1 %
10/2001	10/2016	1,100	EUR	5.5 %
02/2008	02/2018	1,500	EUR	5.0 %
01/2009	01/2019	2,000	USD	6.5 %
01/2010	01/2020	1,400	USD	4.6 %
05/2008	05/2020	1,200	EUR	5.4 %
01/2009	01/2021	2,000	EUR	6.3 %
01/2012	01/2022	2,000	EUR	3.9 %
09/2012	03/2023	2,000	EUR	2.8 %
09/2009	09/2024	2,500	EUR	4.6 %
11/2010	11/2025	750	EUR	4.0 %
03/2012	03/2027	1,000	EUR	4.1 %
04/2010	04/2030	1,500	EUR	4.6 %
07/2001	07/2031	650	GBP	5.9 %
02/2003	02/2033	850	EUR	5.6 %
06/2009	06/2034	1,500	GBP	6.1 %
01/2009	01/2039	1,750	USD	7.0 %
01/2010	01/2040	850	USD	5.6 %
11/2010	11/2040	750	EUR	4.5 %
10/2011	10/2041	1,250	GBP	5.5 %
09/2010	09/2050	1,000	GBP	5.1 %

Comparative debt ratings



	S&P ratings	Moody's ratings	Fitch ratings
EDF	A+ stable	Aa3 negative	A+ negative
GDF Suez	A negative	A1 negative	n/a
E.ON	A- stable	A3 negative	A- stable
Enel	BBB stable	Baa2 negative	BBB+ watch negative
Iberdrola	BBB stable	Baa1 negative	BBB+ watch negative
SSE	A- negative	A3 stable	A- stable
RWE	BBB+ stable	Baa1 stable	BBB+ stable
Endesa	BBB stable	Baa2 negative	BBB+ watch negative
Vattenfall	A- stable	A3 Stable	A- Stable

	S&P ratings	Moody's ratings	Fitch ratings
EDF short term	A-1	P-1	F1

EDF Group's integration inside the FTSE4Good Index in 2012

- Extra-financial rating: a constant source of improvement for the Group
 - Acknowledgement and promotion of the quality of the work and the high level of industrial management of the Group
 - The opportunity to improve the Group's actions thanks to external assessment



EDF joins the FTSE4Good Index

Index FTSE4Good integration in March 2012 and permanence in 2013:

The EDF Group is now one of five nuclear operators globally meeting the stringent criteria developed and overseen by the FTSE4Good Policy Committee



EDF has improved its rating versus 2011 on both transparency and performance

Carbon Disclosure Project

	2011	2012	2013
Transparency	62	87	95
Performance	D	B	B



EDF is listed in the ASPI Eurozone® index since 2005 and is part of 2 of the 3 new indices created by Vigeo in 2012

9th of the Electricity & Gas Utilities sector in 2012



	2011	2012	2013
EDF result	59%	66%	66%
Electricity sector average	58%	61%	54%

Strong monitoring accompanied by Statutory Auditors' verification

- EDF publishes all of its environmental and social indicators on the day of its annual results publication
- Since 2005, the Group has begun a voluntary process to have the quality of these non-financial indicators verified by Statutory Auditors
 - Indicators selected according to their relevance to the challenges facing the Group and its major issues
- A significant proportion of published indicators is verified by the Statutory Auditors
 - 42% of the environmental indicators
 - 69% of the Group's social indicators
- Mix assurance without reservation⁽¹⁾: reasonable or moderate depending on indicators
 - Only 23% of the companies of the CAC 40 and the SBF 120 have this level of verification
- An important covering rate of the Statutory auditors' work important among the highest of the CAC 40 and SBF 120

Covering work		2012
Reasonable assurance	CO ₂	50%
	Workforce	63%
Moderate assurance	Environment	42%
	Social	53%

ESG criteria are embedded in the Final Investment Decision process at Group level

The Group investment committee ('CECEG') oversees all significant investment decisions, based on the expected project/investment performance on financial and non-financial metrics



Financial Performance Assessment

- A revised investment process, published in July 2011
 - Assistance from the Finance Department to business lines as early as the project study phase
 - Constant monitoring of performances
- Higher investment standards
 - WACC + 300 basis points
 - Or 100 to 150 basis points of additional profitability



Non-Financial Performance includes an assessment on key ESG issues

- Major environmental issues
 - Climate change mitigation and adaptation, Biodiversity, Water
- Social impact of the investment
 - Positive/negative impact on local communities (incl. stakeholders dialogue), local economy and jobs
 - HR impact in case of M&As
- Governance
 - Human Rights, Transparency

11 Commitments strengthening the identity of the Group

The EDF Group is committed to conducting its business in the general public interest and in a sustainable manner with its stakeholders wherever it operates, to secure the supply of electricity, ensure equitable access to energy and to contribute to regional development

Responsible Industrial Firm

- 1 Maintain the highest levels of security in our installations
- 2 Remain the leading main energy provider in terms of the development of low-carbon energies
- 3 Invest in renewable energies and increase their competitiveness
- 4 Significantly contribute to improving energy efficiency within households

Responsible Employer

- 5 Significantly reduce the number of accidents among employees and our subcontractors
- 6 Maintain performance and professional excellence of the teams through training and supporting diversity
- 7 No tolerance for breach of human rights, fraud and corruption, for all Group companies and their suppliers

Responsible Partner

- 8 Promote transparency and dialogue on sensitive issues
- 9 Contribute to regional development through employment
- 10 Actively fight energy poverty and promote access to electricity
- 11 Preserve water resources in all our activities

A responsible industrial firm: overview of the 4 Commitments

1. Maintain the highest levels of security at EDF facilities
Meet the international FTSE4Good⁽¹⁾ criteria for nuclear safety

➡ 2012 result: Inclusion into FTSE4Good index

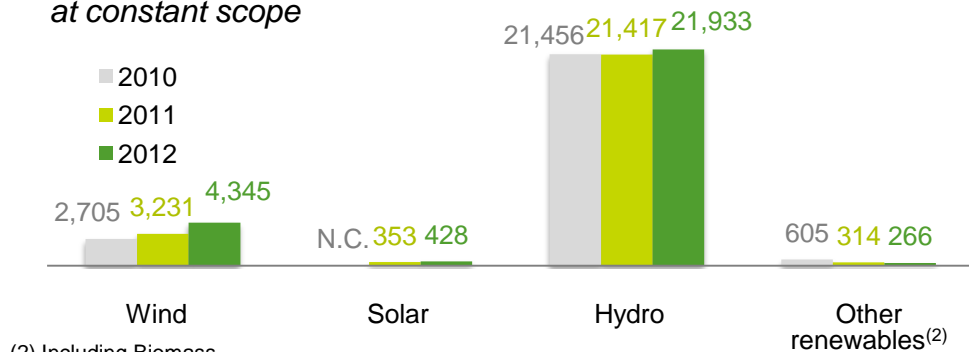
(1) Recognized worldwide, the FTSE4Good Index Series was created by FTSE and aims to promote investments in companies that respect ambitious sustainable development objectives

2. Remain the leading main energy provider in terms of the development of low-carbon energies
Upholding of direct CO₂ emissions (g/kWh) within the 150g/kWh limit⁽³⁾



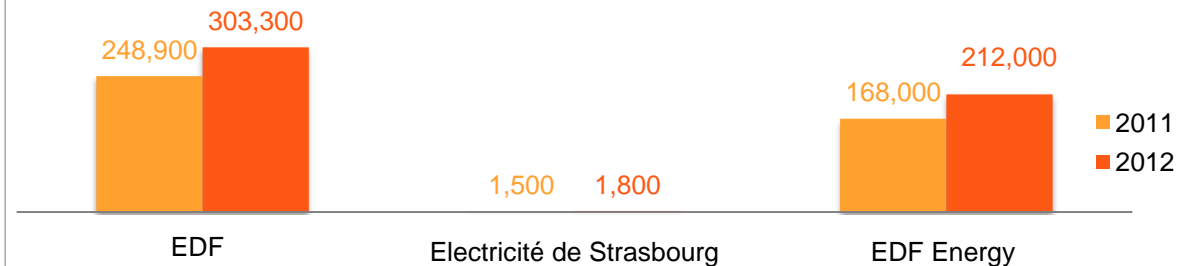
(3) The European carbon factor of the main electricity producers was 338gCO₂/kWh in 2011 (Study by PricewaterhouseCoopers in November 2012)

3. Invest in renewable energies and increase their competitiveness
Publication of change in capacity (in MWe) from renewable energies at constant scope



(2) Including Biomass

4. Significantly contribute to improving energy efficiency within households
Publication of change in number of households supported by Group companies in terms of energy efficiency⁽⁴⁾

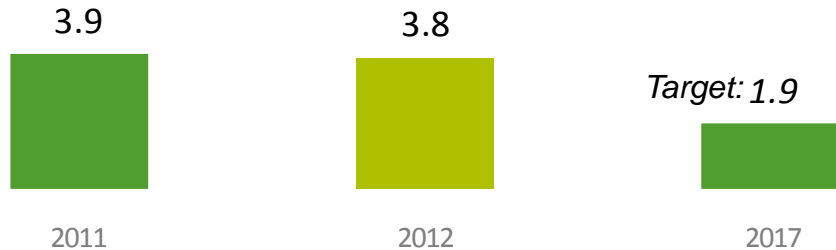


(4) Subsidiaries included in the consolidated scope and selling energy to residential customers

A responsible employer: overview of the 3 commitments

5. Significantly reduce the number of accidents among employees and our subcontractors

Dividing by 2 in 5 years accident frequency experienced by Group employees resulting in sick leave



6. Maintain performance and professional excellence of the teams through training and supporting diversity

Over 75% of Group employees receive, each year, at least one training

30% feminisation rate in the management pool by 2015

- 2012 result: 24.1%



7. No tolerance for breach of human rights, fraud and corruption, for all Group companies and their suppliers

13 companies that have included in 2015 an ethics/SD clause in their long-term purchasing contracts⁽¹⁾

- 2012 result: 3 companies (EDF, EDF Energy, EDF Luminus)

⁽¹⁾ Excluding energy contracts on the spot market

13 companies awarded the United Nations « Global Compact Advanced » Level

- 2012 result
 - 1 company was awarded the United Nations Global Compact Advanced Level since 2011: EDF
 - 3 Group companies have signed the Global Compact (EDF, ERDF, Edison)

A responsible partner: overview of the 4 commitments

8. Promote transparency and dialogue on sensitive issues

8 companies having set up a formal space for dialogue with stakeholders by 2015

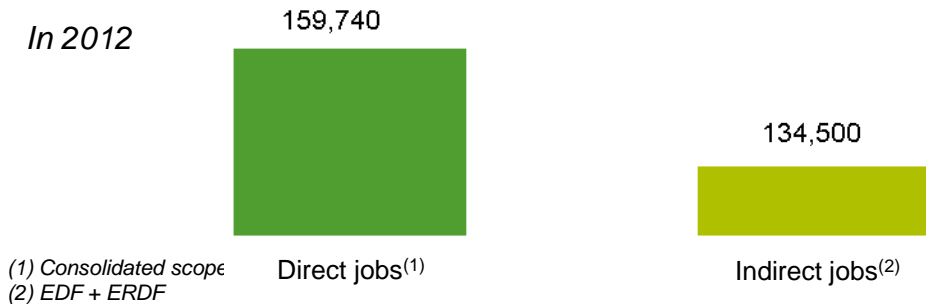
■ 2012 result: 3 companies

- EDF: Sustainable Development Committee France
- EDF Energy: Stakeholder Advisory Panel
- Edison: Social Committee

Since 2005, EDF has set up a panel of stakeholders at Group level: the Sustainable Development Panel

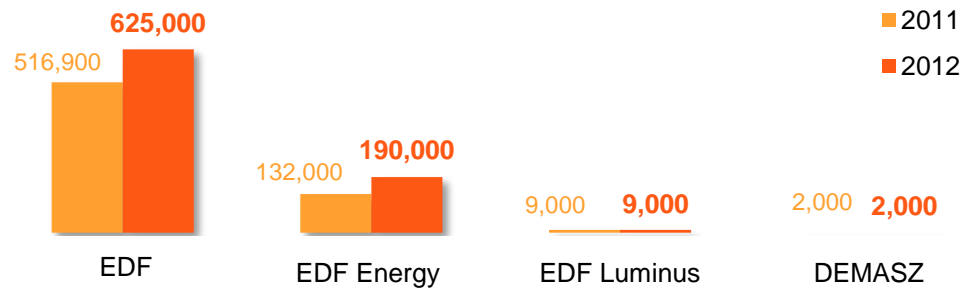
9. Contribute to regional development through employment

Publication of the number of direct jobs (Group headcount) and indirect jobs (resulting from purchasing orders with suppliers and service providers) generated by EDF business activities



10. Actively fight energy poverty and promote access to electricity

Publication of the number of actions to support our customers in need carried out by Group companies that supply energy



11. Preserve water resources in all our activities

Publication, starting in 2015, of the water footprint at Group level

- Publication, starting in 2015, of the water footprint at Group level

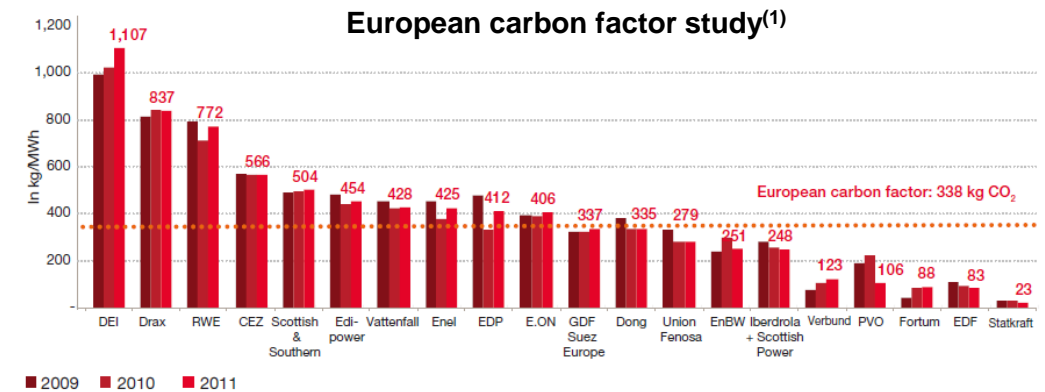
Focus on commitment #2 – CO₂ footprint: remain the best-in-class in the countries where we operate

Commitment Remain the leading main energy provider in terms of the development of low-carbon energies



Target Upholding of direct CO₂ emissions (g/kWh) within the 150 g/kWh limit⁽¹⁾

- EDF's CO₂ emission factor is very low compared to its peers
- In France, variations in weather conditions or availability can trigger a 20% change in CO₂ emissions
 - The expected increase in RES intermittent capacity will increase that volatility
- Internationally, EDF's policy is to be best-in-class in the country
 - Most efficient gas- and coal-fired technologies (e.g. *JV in China with Sanmenxia 2 supercritical power plant*)
 - Newly built coal plants CCS-ready
- As EDF expands, its own CO₂ emissions may increase whilst allowing for net reductions in the electricity system as a whole



Net emissions 2012 by segment	In kt		In g/kWh
France	16,409	20.6%	35.2
UK	20,909	26.2%	250.6
Italy	10,227	12.8%	329.3
Other International	23,816	29.8%	364.3
Other activities	8,443	10.6%	237.3
Group	79,803	100%	117.0

Focus on commitment #11

Publish Group water footprint by 2015

Water supply is a worldwide challenge

- Strong interdependence between power generation and other water users at local level
- Today EDF manages 75% of stored surface water in France
- Group's commitment at national and international level



EDF's 3 commitments to the 6th World Water Forum

1. Invest in all necessary resources to develop methods and tools to evaluate the water footprint of electricity production activities
2. Manage the water footprint of electricity production activities
3. Create value locally and take into account the objective of the water footprint minimisation, from the design phase of power plants



Stakeholder Advisory Panels: a foundation stone of EDF's approach to Corporate Responsibility

One mission statement

- **To challenge**, as early as possible, EDF's management and experts on options the Group is contemplating, that may have sustainability implications
- **To support** the Sustainable Development Division throughout its missions to anticipate, drive and advise on Sustainable Development
- **Emulate diversity in the Group, helping non conventional positions emerge**, that will better reflect the complexity of situations, activities and operating environments of the Group

Two main bodies

International SD Panel

Members include internationally recognised experts as well as Chairs of other stakeholder panels (Scientific Committee, Health Committee, UK Advisory Panel)

SD Committee France

Members include French experts covering the sustainability issues relevant to the Group

Challenging the Group on a range of different issues...

- The EDF Group contribution to addressing fuel poverty in France
- Decommissioning of nuclear reactors
- The role of electricity in heating in France
- Risk mapping of the EDF Group

... and providing an independent advice, published online

EDF Energies Nouvelles: a green and responsible business

Our contribution to a sustainable development: to develop a profitable green business, that contributes to fighting climate change, in a responsible manner

Develop a green business

- Acting as a leading player in renewable energies through mature technologies (onshore wind, solar PV)
- Achieving long term performance of our assets by developing profitable and best-in-class renewable projects
- Managing all the project value chain (design, financing, construction, O&M)
- Supporting innovative energy sources (marine energy, biogas...) and disruptive technologies (e.g. thin film solar cells) by being active in R&D
- Sharing a common enthusiasm

Ensure responsible practices

- Respecting and protecting our employees
- Preserving the environment and taking responsibility for our environmental impact
- Committing to fair consultations with our projects' stakeholders, including NGOs and local communities
- Respecting our partners, as well as the regulation and our commitments
- Sharing ethical behaviours

EDF EN – Installed capacity and capacity under construction by type, at end of September 2013

<i>In MW</i>	Gross		Net	
	at 31/12/2012	at 30/09/2013	at 31/12/2012	at 30/09/2013
Wind	4,681	5,519	3,629	3,948
Solar	497	633	410	530
Hydro	84	84	81	81
Biogas	65	68	63	65
Biomass	26	26	18	18
Cogeneration	19	19	7	7
Total installed capacity	5,372	6,349	4,208	4,649
Wind under construction	1,113	1,348	578	1,127
Solar under construction	171	80	164	53
Other under construction	45	65	44	64
Total capacity under construction	1,329	1,493	786	1,244
Total	6,701	7,842	4,994	5,893

Specific R&D for renewable energy and smart grids

Renewable energy

- Technologies: invest on the right technologies at the right time and right place (PV, wind, CSP, biomass...)
 - Identify breakthroughs in technology in key areas of competition, evaluation, selective involvement in technology development
 - Create value for EDF businesses: project development and O&M
- Electric system: study and prepare integration of renewables in the electric system (storage, smart grids and new interconnections)

Smart grids

- Challenges:
 - Energy efficiency and savings, and cost of renewables' integration: deploy smart meters, promote/design energy efficiency and flexibility of demand, manage distributed sources of energy on the grid
 - Asset management for networks and generation
- R&D actions
 - Technologies: energy storage, flexible electricity uses, energy efficient technologies (i.e heat pumps)
 - Systems: system management tools, information systems, massive data processing, cyber security...
 - Large scale pilot projects with customers and grid operators: smart grids, electric and hybrid vehicles

Energy management

- Better understanding of the markets, increasing the value of Groups assets
 - Creating tools and models to increase the value of power generation assets in order to optimize EDF's complex and varied energy mix
 - Analyzing the workings of the energy markets and their fluctuations, simulating competitive play

Offer levers

Assessing the challenges of intermittent energy

Placing nuclear shutdowns

Anticipating the purchase of fossil fuels, CO₂ emission allowances and purchase / sales markets

Manage the hydro and nuclear stockpile

Optimize power generation

Readjusting the calling programme

Demand offers

Assessing strategies for electric vehicle charging

Enhancing the electricity and gas demand management

Analyzing market price-setting

Measuring risks related to price fluctuations and energy portfolios volume

Optimizing consumption cuts-off

Anticipating electric consumption

Arbitrating opportunities in the Spot market

Estimating energy volumes and prices

Impact on climate change

in 5 years

in 1 year

in 1 month

in 1 week

in 1 day

in 1 hour



Green Bond Roadshow Presentation

November 2013

