# ANNUAL RESULTS 2011

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Detailed information regarding these uncertainties and potential risks are available in the reference document (Document de référence) of EDF filed with the Autorité des marchés financiers on April 18, 2011, which is available on the AMF's website at www.amf-france.org and on EDF's website at www.edf.com.

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# **Sustained growth in 2011**

Good operating performance Net income	Sales: €65,307m	+2.7% <sup>(1)</sup>	
	EBITDA: €14,824m, including TaRTAM impact of -€170m	+6.6%(2)	
	Net income excl. non-recurring items: €3,520m	+13.4%	
growth	Net income - Group share: €3,010m x3		
Solid financial structure	Net financial debt/EBITDA: 2.2x		

(1) Organic growth (excluding EnBW, Eggborough and UK networks and with RTE accounted for by the equity method) (2) Organic growth excluding the consequences of the French ministerial decree ("arrêté") issued on 4 July 2011 with regard to the non-recurring 2011 compensation

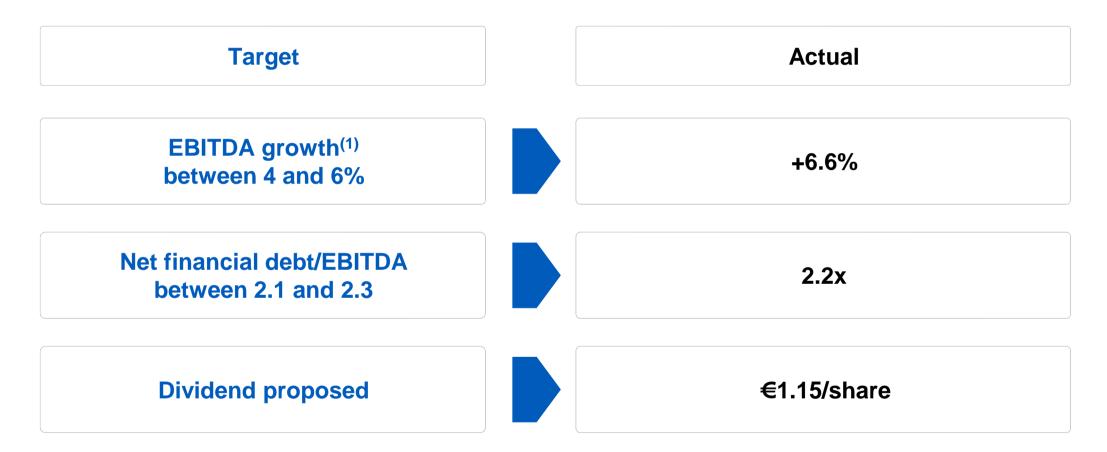
of TaRTAM charges

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## **2011 financial targets reached**

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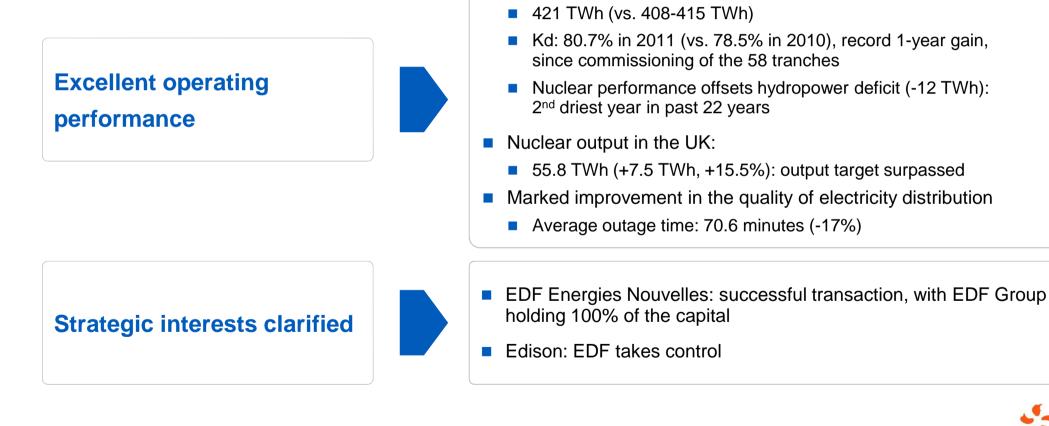


(1) Organic growth excluding the consequences of the French ministerial decree ("arrêté") issued on 4 July 2011 with regard to the non-recurring 2011 compensation of TaRTAM charges. This target assumed an initial ARENH set at € 40/MWh at 1 July 2011 pursuant to the government's decision from 19 April 2011 and € 42/MWh at 1 January 2012



# 2011 highlights: commitments upheld amid a troubled environment

Nuclear output in France: targets surpassed





# 2011 highlights: strategy reaffirmed (1/2)

### Ambition: #1 electric company in the world with a diversified energy mix

Modernisation of the fossil-fired fleet

- CCGT: Commissioning of Blénod and initial trials at Martigues in France
- Construction of a supercritical coal-fired plant in Poland (Rybnik)
- Partnership with GE for new gas plant technology

### Strengthening in gas

- Ground broken on the methane terminal project in Dunkirk
- 15% stake in the South Stream gas pipeline
- Edison: future gas platform for the Group



## Edison and Italy: at the heart of EDF's gas strategy

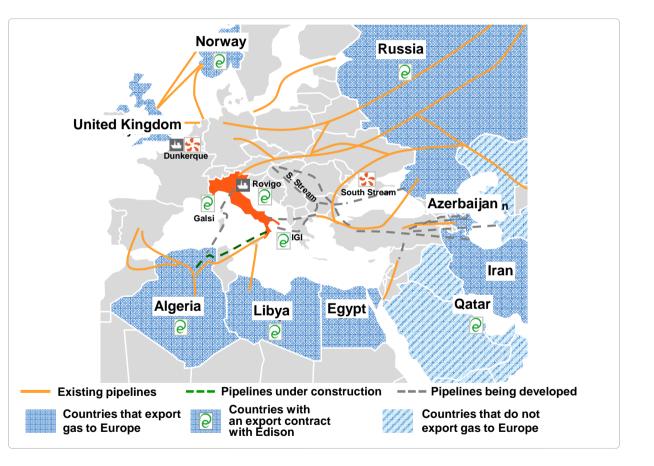
4th-largest electricity market in Europe, primarily gas

Access to LNG terminals and import pipelines (Rovigo, IGI/ITG, Galsi) that complement those of EDF (South Stream, Dunkirk)

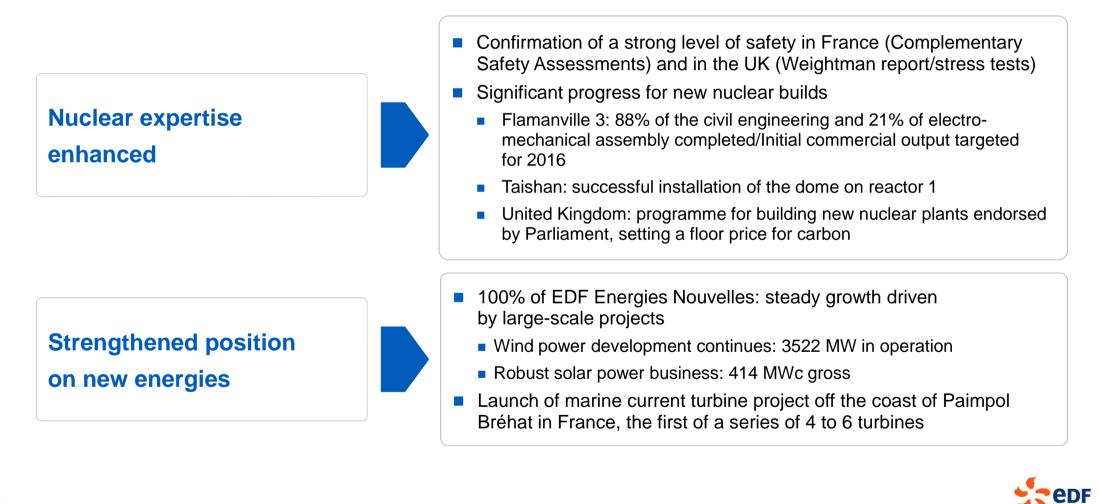
Potential gas hub for Europe and for securing gas supplies from the South

Development platform for all of Mediterranean basin

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# 2011 highlights: strategy reaffirmed (2/2)



# EDF EN: successful integration of management and operations

- Successful transition within the management team
  - Historic management remained present during the transition and will support the new management team over the coming months
  - Development teams in place and active
- Outstanding operating and financial results in 2011:
  - Record commissioning in 2011
  - 1782 MW gross under construction at 31 December
  - Financial target reached<sup>(1)</sup> in a difficult environment
  - Large-scale projects continue: response to offshore call for tenders in France



1<sup>st</sup> call for tenders for 3000 MW launched 5 zones selected

- 4 bids submitted by EDF EN: Saint-Nazaire, Saint-Brieuc, Courseulles-sur-Mer and Fécamp
- Combining best skills

**Response to offshore call for tenders in January 2012** 

- Major competitive advantages
  - Alstom's technology
  - An ambitious industrial plan (creation of 7,500 jobs)
  - Projects at various stages of development
- Selection of bids: April 2012

A successful alliance, moving forward to rise to the renewable energy challenge



(1) 2011 EBITDA target announced in February 2011 by EDF EN: €560 million (before consolidation restatements to EDF Group consolidation level)

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## Two priorities in 2012 amid an economic crisis



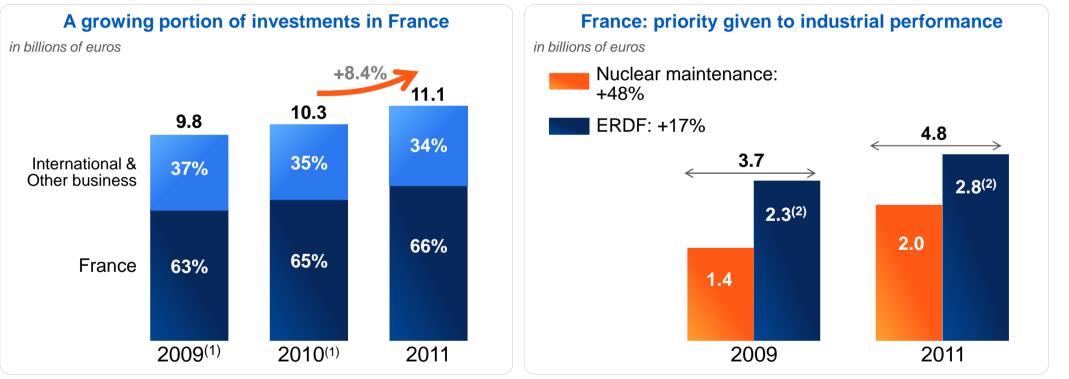
### **Employment**



## **Operating investments up 13% between 2009 and 2011**

### +€1.3bn in Group gross investments

+20% invested in France between 2009 and 2011



(1) Adjusted scope

11 (2) Acquisition of tangible and intangible fixed assets

# **2012 priorities**

### Investment & innovation:

- Continuing industrial performance in France
  - Nuclear output target of 420-425 TWh
- Accelerating the internationalisation of the Group:
  - Nuclear New Build: UK investment decision
  - Gas: major development in Italy
  - Wind & solar: pursuing programmes (1000 MW in Europe 800 MW US/Canada 160 MW in Mexico)
- Strengthening R&D

### **Employment:**

- 6,000 new hires expected in France, 3,000 students start work placements in fall 2012
- Development of network of internal training campuses: Saclay (France) Bridgewater (UK)



# **Saclay Campus**





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# 2011 results

Medium-term targets and outlook

Developments



# **2011 Key Figures**

in millions of euros

	2010	2010 adjusted <sup>(1)</sup>	2011	$\Delta \%$	∆ <b>% Org.</b>
Sales	65,320	63,922	65,307	2.2%	2.7%
EBITDA	16,623	14,156	14,824	4.7%	<b>6.6%</b> <sup>(2)</sup>
Net income excluding non-recurring items	3,961	3,105	3,520	13.4%	_
Net income – Group share	1,020	-	3,010	x3 <sup>(3)</sup>	
		31/12/2010	31/12/2011		
Net financial debt in €bn		34.4	33.3		
Net financial debt/EBITDA		2.2	2.2		

(1) Results excluding EnBW, Eggborough, UK networks and with RTE accounted for by the equity method

(2) Organic growth excluding the consequences of the French ministerial decree ("arrêté") issued on 4 July 2011 with regard to the non-recurring 2011 compensation of TaRTAM charges

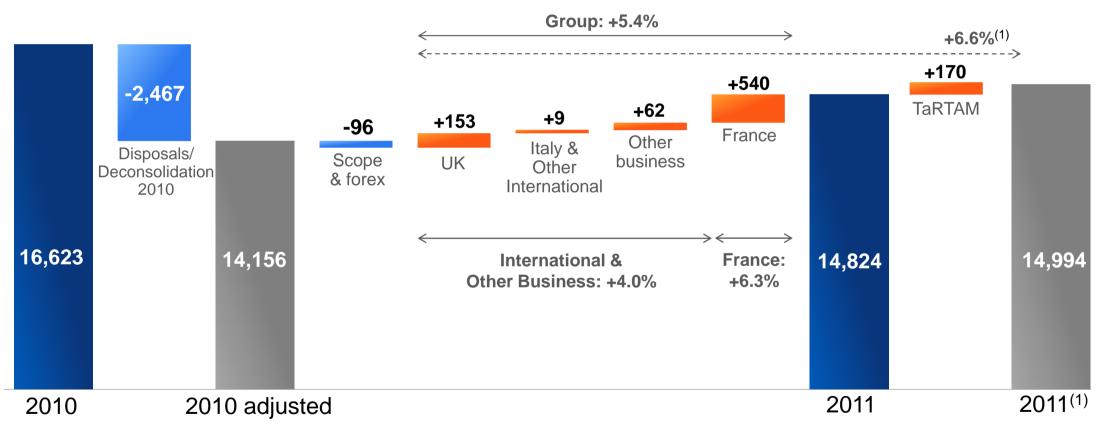


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# **EBITDA organic growth driven by good operating performance in France and UK**

in millions of euros



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17 (1) Excluding consequences of the ministerial decree (arrêté) issued on 4 July 2011 with regard to non-recurring 2011 compensation of TaRTAM charges

# **Organic growth of Group EBITDA: +6.6%**

in millions of euros

	2010 adjusted	2011	$\Delta$ % Org.
France	8,599	9,111	6.3%
Unregulated	5,905	6,056	3.0%
Regulated <sup>(1)</sup>	2,694	3,055	13.4%
United Kingdom	1,790	1,912	8.5%
taly	801	592	(25.2%)
Other International	1,084	1,280	19.5%
Other Business	1,882	1,929	3.3%
Group Total	14,156	14,824	5.4%
			1

(1) Including French Electrical Islands business

(2) Organic growth excluding the consequences of the French ministerial decree ("arrêté") issued on 4 July 2011 with regard to the non-recurring 2011 compensation

of TaRTAM charges

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# **Growth in EBIT excluding non-recurring items: +14%**

in millions of euros

19

2010 adjusted	2011	$\Delta \%$	
14,156	14,824	4.7%	6.6% <sup>(1)</sup>
15	(116)		
(6,862)	(6,506)		
(2,591)	84		
4,718	8,286	75.6%	
7,294	8,318	14.0%	
	adjusted 14,156 15 (6,862) (2,591) 4,718	adjusted     2011       14,156     14,824       15     (116)       (6,862)     (6,506)       (2,591)     84       4,718     8,286	adjusted     2011     Δ%       14,156     14,824     4.7%       15     (116)     (116)       (6,862)     (6,506)     (6,506)       (2,591)     84

(1) Organic growth excluding the consequences of the French ministerial decree ("arrêté") issued on 4 July 2011 with regard to the non-recurring 2011 compensation of TaRTAM charges

(2) EBIT exc. non-recurring items = EBITDA - amortisation/depreciation expenses and provisions for renewal



# Sharp rise in Net income excluding non-recurring items

	2010 adjusted	2011	$\Delta$ %	
EBIT	4,718	8,286	75.6%	
Financial income	(3,896)	(3,780)	(3.0%)	
Income tax	(682)	(1,305)	91.3%	
Share of net income from associates	504	45	(91.1%)	
Share of net income from minority interests	(235)	(236)	0.4%	
Net income – Group share	-	3,010	n/s	×3
Non-recurring items	2,696	510	(81.1%)	
Net income excluding non-recurring items	3,105	3,520	13.4%	

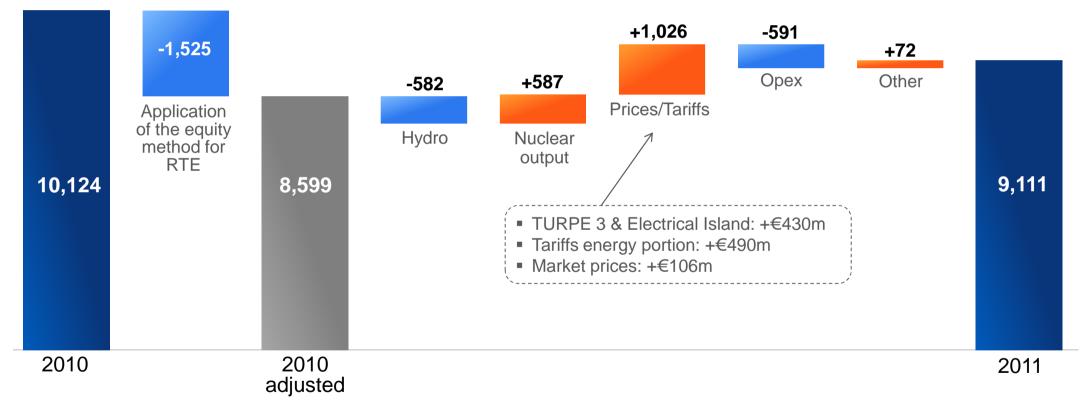


# Non-recurring items net of tax

	2010 adjusted	2011
Capital gain from disposal of EnBW	-	253
United States (Unistar, CENG)	(1,042)	-
Italy	(915)	(304)
Dalkia International	(39)	(135)
Alpiq	-	(320)
Veolia shares	-	(217)
ERDF – impact of the re-estimation of the lifespan of certain assets on the renewal provision	-	266
IAS 39 volatility	(36)	(58)
Other	(664)	5
Total non-recurring items net of tax	(2,696)	(510)



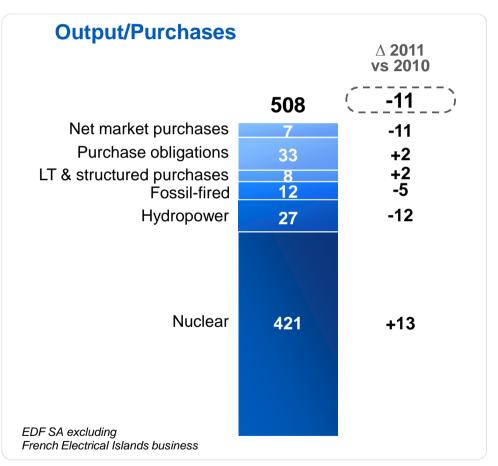
# France: EBITDA organic growth of 6.3% due particularly to good nuclear performance

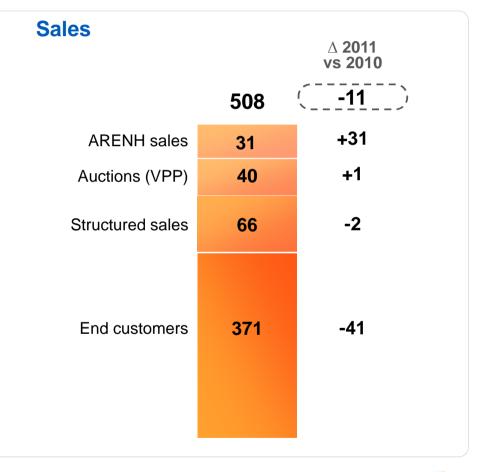




## France: upstream/downstream electricity balance

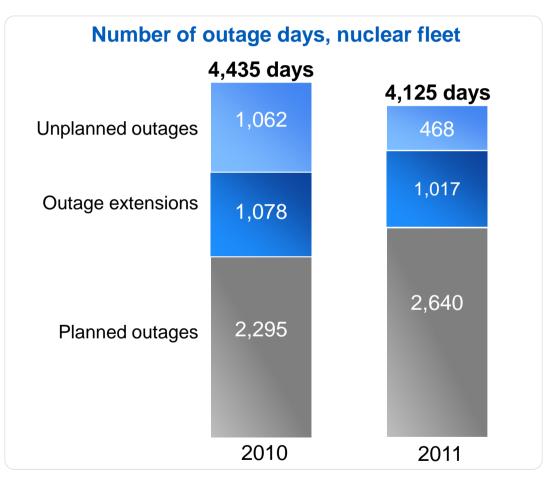
in TWh







# Nuclear performance: outage days down markedly despite 4 additional 10-year inspections



# 310 fewer days despite 4 extra 10-year inspections:

- Drop in unplanned outages resulting from large component replacement programme (-594 days)
- Stability of outage extensions: a priority lever for operating performance
- Extension of two 10-year inspections, started in 2011, into 2012

Kd: 80.7%

## **Nuclear output: trends for 2012**

### Continuing to improve operating performance in 2012 ...

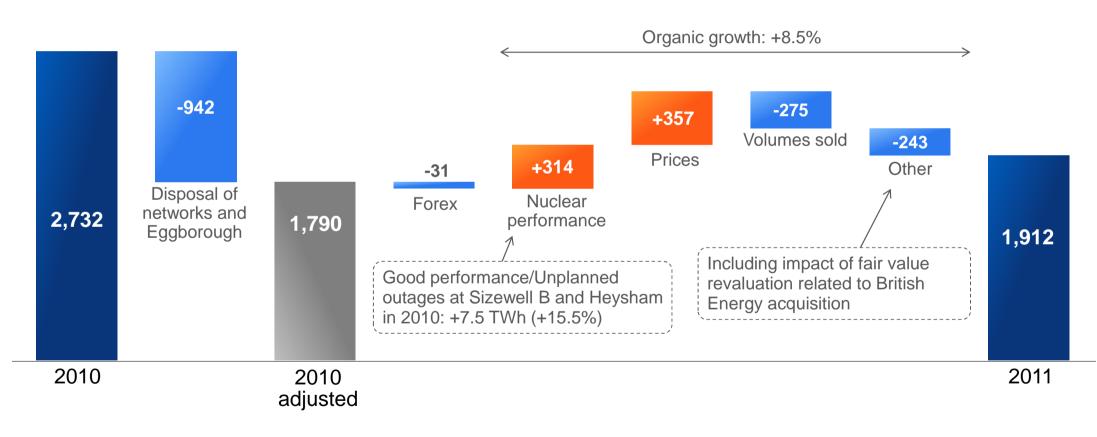
- Large component replacement programme
- Deployment of Centres opérationnels de pilotage des arrêts de tranche (COPAT): 100% of planned outages from 2013 (full effect in 2014)
- Development of preventative maintenance on equipment

#### ...but a year with lengthy outages

- Outage extensions: two 10-year inspections, started in 2011, extended into 2012
- Planned outages: six 10-year inspections and steam generator replacement on two reactors vs. nine 10-year inspections and steam generator replacement on one reactor in 2011
  - Steam generator replacement: minimum 50 extra days
  - Consequences of Fukushima on outage lengths

### Nuclear output target for 2012 of between 420 and 425 TWh

# United Kingdom: organic growth of EBITDA driven by improved nuclear performance





# United Kingdom: organic growth of EBITDA driven by improved nuclear performance

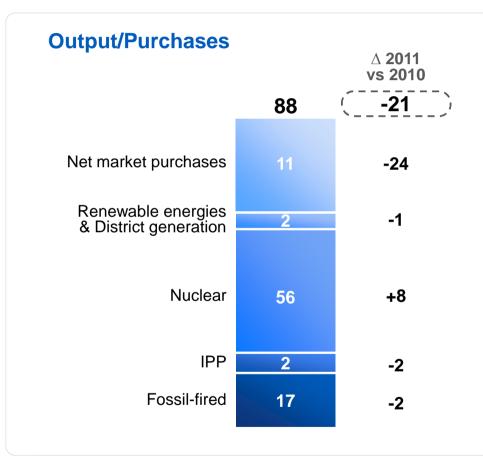
	2010 adjusted	2011	∆%	$\Delta$ % Org.
Sales	9,496	8,568	(9.8%)	(8.0%)
EBITDA before fair value impact	1,466	1,790	22.1%	-
o/w impact of the fair value revaluation related to British Energy acquisition	324	122	(62.3%)	-
EBITDA	1,790	1,912	6.8%	8.5%

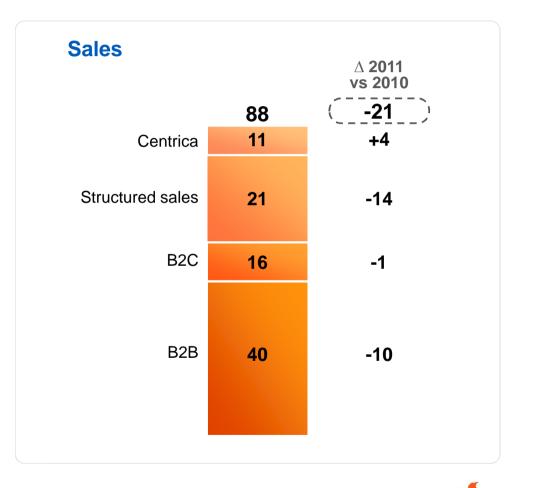
- Increase in nuclear output (+7.5 TWh, i.e. +15.5%) on improved fleet performance and impact, in 2010, of unplanned outages at Sizewell B and Heysham
- Positive price effects from higher market prices



## **United Kingdom: upstream/downstream electricity balance**

in TWh





# **Shrinking margins in Italy**

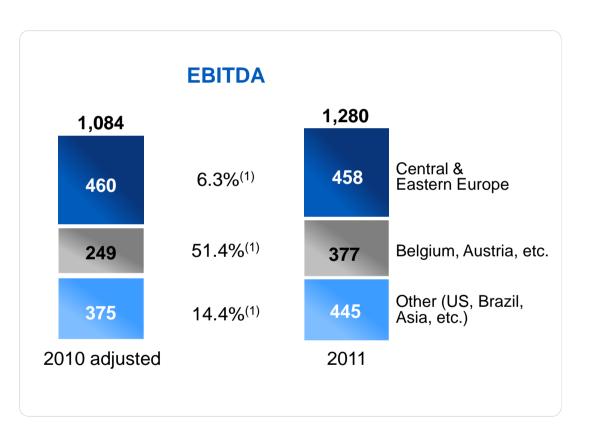
in millions of euros

<b>Italy</b> Edison (EDF share), Fenice	2010 adjusted	2011	∆%	$\Delta$ % Org.
Sales	5,647	6,552	16.0%	17.5%
EBITDA	801	592	(26.1%)	(25.2%)
o/w Edison	693	480	(30.7%)	(29.7%)

#### **EDISON**

- Shrinking of margins on hydrocarbon business linked to sourcing costs on long-term gas contracts
  - Renegotiation underway of main long-term gas sourcing contracts: favourable outcome of Norwegian and Russian contracts in 2011
  - Progress on exploration-production activities in Egypt (AbuQir) and Italy (gas)
- Drop in EBITDA of electricity business due, particularly, to the early termination of certain CIP6 plants at end-2010 and shrinking sales margin
- Growth in number of residential customers (1.4 million at end-2011)

# Other International: organic EBITDA growth of 19.5% driven by Belgium

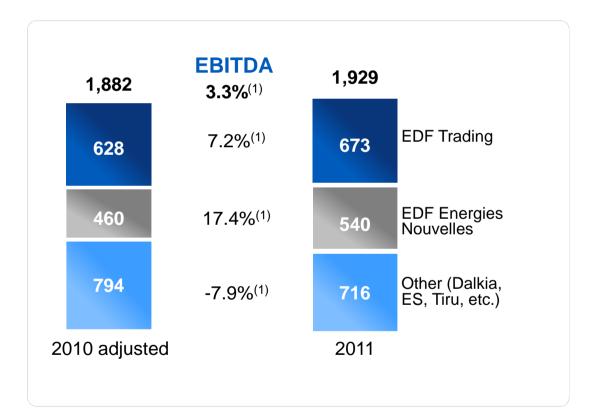


- Central & Eastern Europe
  - Poland: rising coal prices and biomass fuel/lower heat sales due to negative climate effect
  - Slovakia: additional distribution revenue from green energy
- Belgium:
  - Electricity sales volume growth
  - Electricity and gas margins increase
- Brazil:
  - Exports to Argentina up sharply due to highly favourable market conditions



# Other Business: good performances of EDF Trading and EDF Energies Nouvelles

in millions of euros



- EDF Trading:
  - Organic growth driven by short-term optimisation of EDF's generation fleet in France
- EDF Energies Nouvelles:
  - Wind and solar generation main growth drivers

#### Dalkia:

 Italy and the Czech Republic (weather/volumes) mostly responsible for lower EBITDA



# EDF Energies Nouvelles: significant increase in capacity and financial guidance reached<sup>(1)</sup>

	Capacity in	Capacity under construction	
	31/12/2010	31/12/2011	31/12/2011
	MW net	MW net	MW net
Wind	2,247	2,790	892
Solar	233	341	154
Other	183	161	3
TOTAL	2,663	3,292	1,049

- EBITDA growth results from greater electricity output from wind and solar sources tied to commissioning in 2011 and full-year effects from 2010 commissioning
- Record commissioning in 2011 (+692 MW net)
- Negative impact of the crisis and solar moratorium in France and Italy on development of renewable energies in Southern Europe



# **Change in cash flow**

ns of euros	2010 adjusted	2011	$\Delta$ %	
EBITDA	14,156	14,824	4.7%	6.6%
Non-cash items and change in accrued trading income	(1,186)	(1,925)		
Net financial expenses disbursed	(1,748)	(1,623)		
Net income paid	(1,814)	(1,331)		
Other items o/w dividends received from associates	491	336		
Operating cash flow	9,899	10,281	3.9%	
$\Delta$ WCR	25	(1,121)		
o/w CSPE <sup>(2)</sup>	(968)	(1,009)		
o/w Exeltium	1,747	-		
Gross investments	(10,274)	(11,134)		
Sale of fixed assets	180	497		
Free Cash Flow	(170)	(1,477)	n/a	

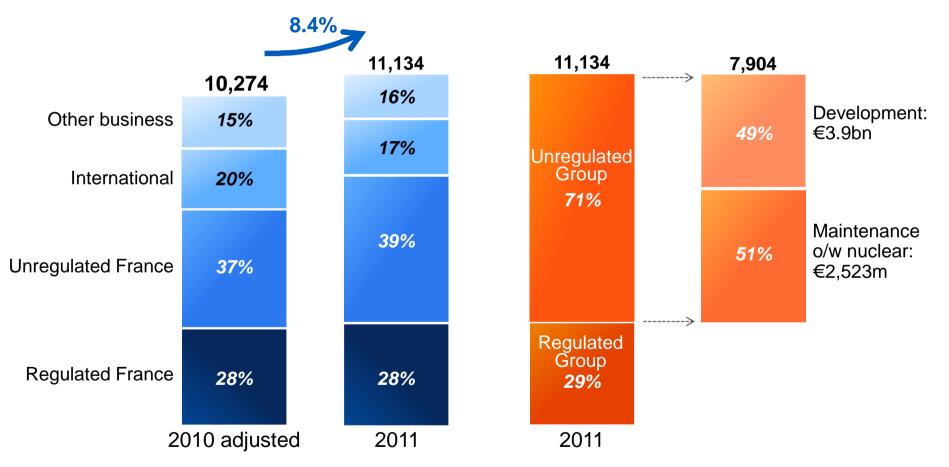
(1) Organic growth excluding the consequences of the French ministerial decree ("arrêté") issued on 4 July 2011 with regard to the non-recurring 2011 compensation of TaRTAM charges

(2) The mechanism gap is borne by EDF and results in a receivable in Assets that includes the CSPE billed

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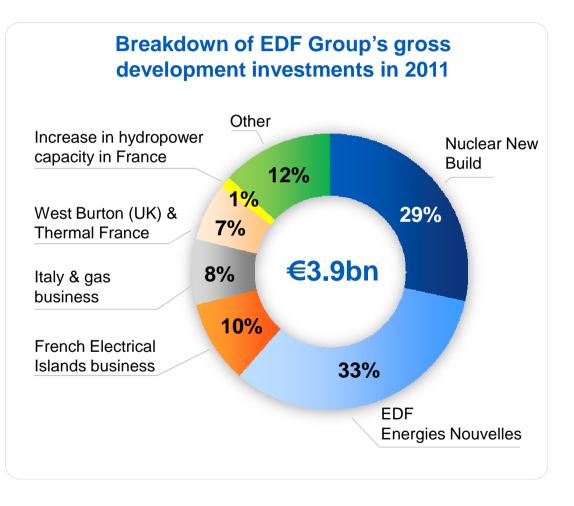


# The Group's gross investments





# EDF Energies Nouvelles: a third of the Group's investment in new generation capacity in 2011

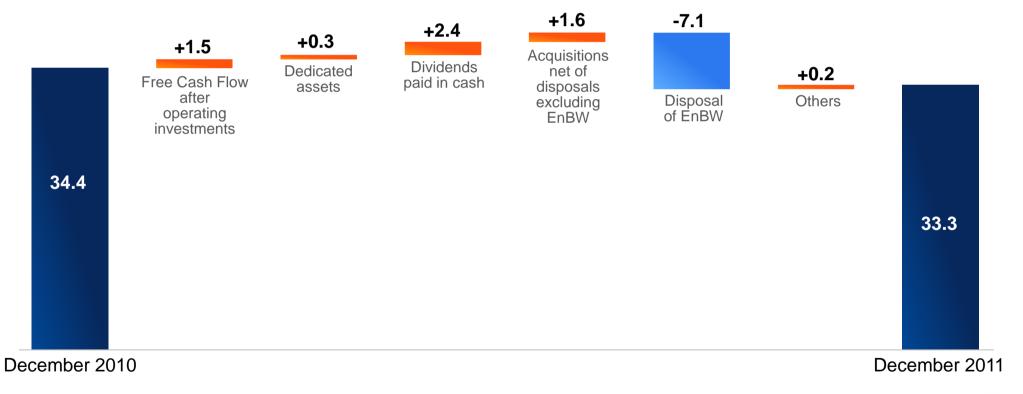


EDF Energies Nouvelles accounts for 33% of EDF Group's investments for developing capacity in 2011 and Nuclear New Build 29%

EDF is resolutely committed to developing renewable energy sources



# Net financial debt down in 2011





### **Net financial debt**

in billions of euros

	31/12/2010	31/12/2011
Net financial debt	34.4	33.3
Net financial debt/EBITDA	2.2 <sup>(1)</sup>	2.2
<ul> <li>Debt</li> <li>Gross financial debt <ul> <li>o/w bonds</li> </ul> </li> <li>Average age of gross debt (years)</li> <li>Average coupon</li> </ul>	47,8 35.5 8.9 <sup>(2)</sup> 4.4%	50,0 37.5 9.2 4.3%
Liquidity <ul> <li>Gross liquidity</li> <li>Financial debt &lt; 1 year<sup>(3)</sup></li> <li>Net liquidity</li> </ul>	25.2 7.3	24.9 7.8
	17.9	17.1

(1) Excluding EnBW debt

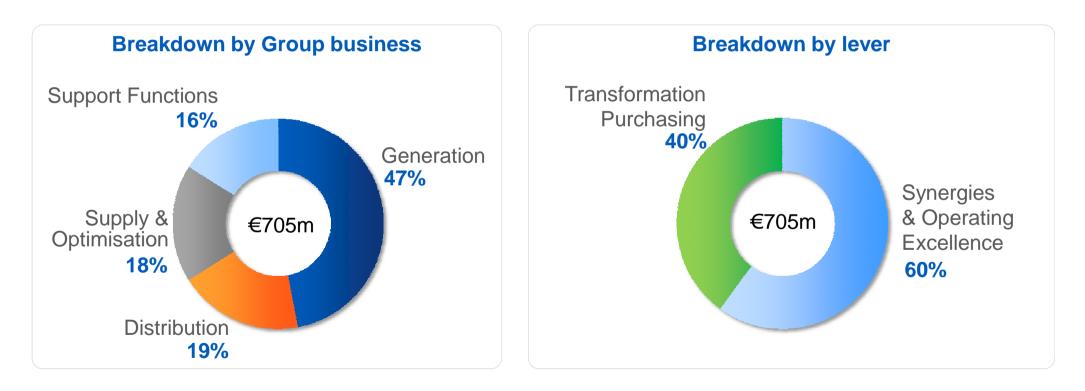
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(2) 2010 data restated from change in methodology at 30 June 2011: calculation of average maturity on the basis of quarterly vs. annual flows in 2010 (3) Including share of less than 1 year – RTE loan



#### **Group synergies and transformation programme**

- Gains made in 2011 that secure more than 28% of the target to 2015
  - Around €705 million in gains made in 2011 out of a cumulative target of roughly €2.5bn

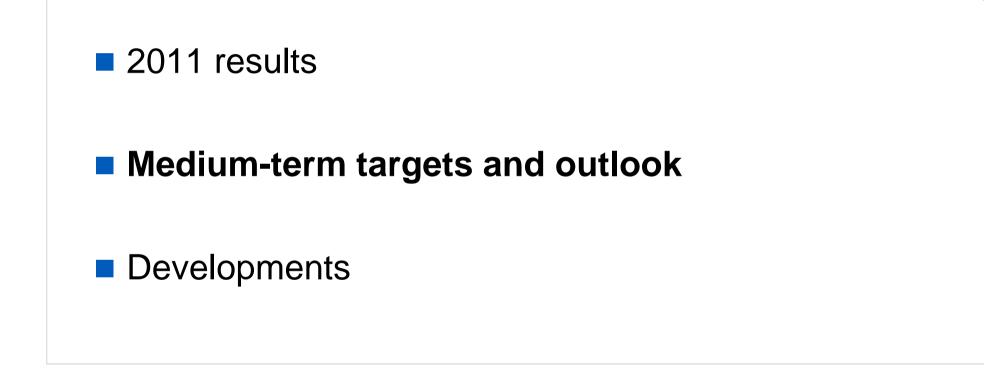




### **Examples of 2011 synergies in the generation business**

- Combined cycle gas France/UK
  - Feedback on CCGT (West-Burton/Martigues & Blénod): outages and restarts avoided during trial phase
  - New CCGT: pooling of an inventory of strategic replacement parts in order to optimise investments and reduce the risk of an unexpected shortage
- Nuclear synergies France/UK
  - Purchases of nuclear fuel optimised
  - Hot Box Dome programme for Heysham and Hartlepool plants: local heating problem was resolved, which reduced tranche outages for maintenance, authorisation to increase the output power of relevant plants (power boosted by 10-15%)
  - Operational engineering at Sizewell B: engineering and logistical support for the French nuclear division







### **Confirmation of the 2011-2015 trajectory**

- Average annual EBITDA growth<sup>(1)</sup>
- Average annual growth of net income excluding non-recurring items
- Net financial debt/EBITDA
- Payout rate

#### For 2012:

41

- Targets in line with 2011-2015 trajectory
- Dividend: at least stable





#### **Net Group investments: vision 2015**

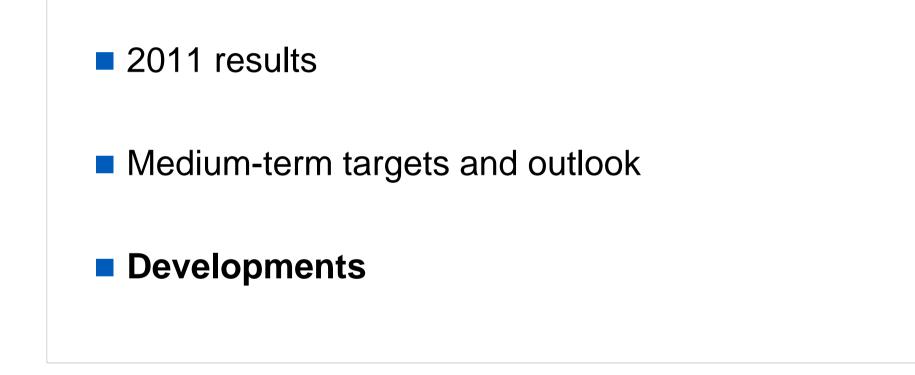
in billions of euros

 $\leq 15.0$   $\sim 39\%$ 10.5
Development
32\%
Maintenance
38%  $\sim 39\%$ Regulated
30%  $\sim 22\%$ 2011<sup>(1)</sup>
2015 outlook<sup>(1)</sup>

#### Group target maintained post-Fukushima: ≤€15bn on a 2015 horizon

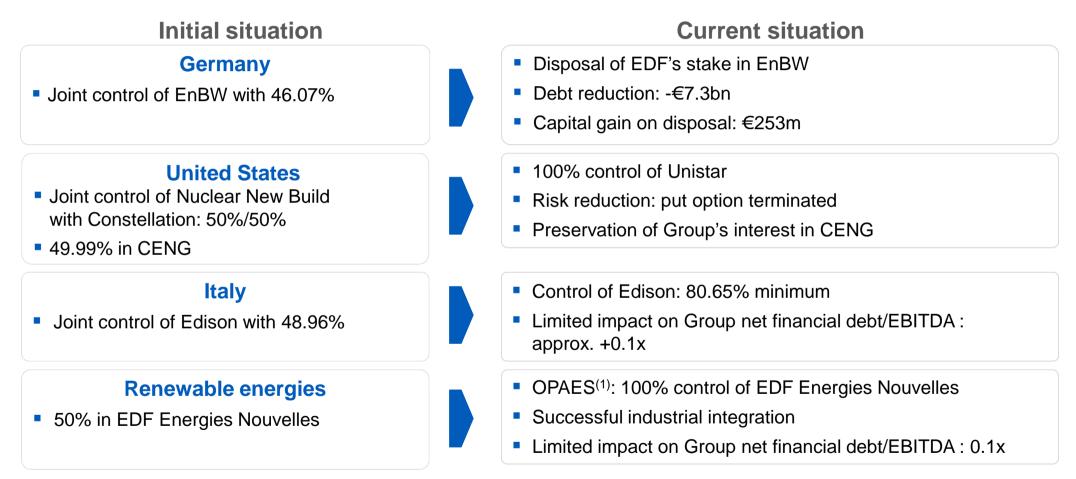
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42 (1) Net investment adjusted to 2011 scope, excluding Linky and impact of the OPAES on EDF Energies Nouvelles





### Substantial transformation of the Group over last two years





#### **Edison: taking total and simplified control**

- Acquisition of 50% of TdE for approx. €700m<sup>(1)</sup>
  - Edison valued at approx. 9x 2011 EBITDA
- Disposal of 50% of Edipower for approx. €600m<sup>(2)</sup>
  - Edipower sold for more than 10x 2011 EBITDA
- Signature of a long-term contract for supplying Edipower with Edison gas
  - Volume totals 50% of Edipower's needs, i.e 5% of Edison sourcing
- Launch of a mandatory public tender on the remaining capital of Edison at a minimum price of €0.84/share<sup>(3)</sup>

EDF will hold at least 80% of Edison as a result of the transaction

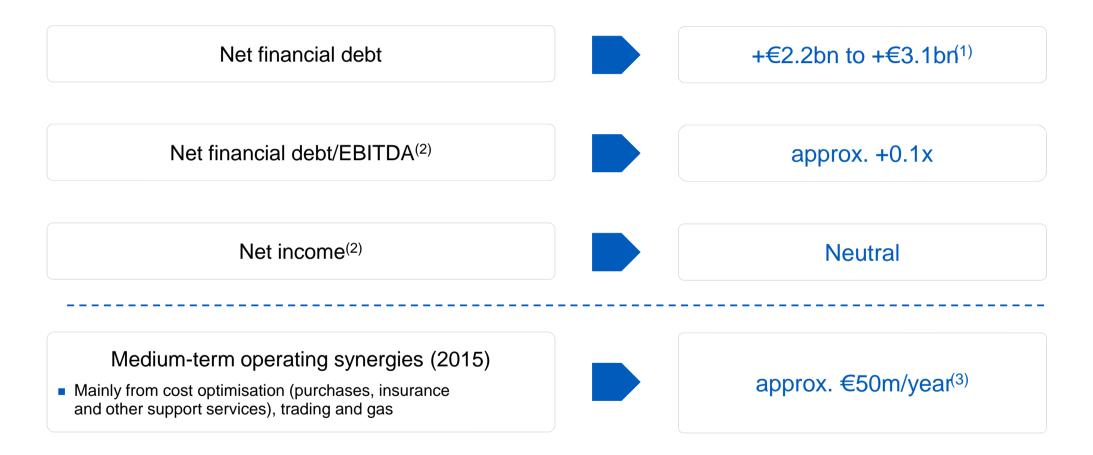
- (1) And of around €600m of the share of existing debt
- (2) And deconsolidation of around €550m in debt

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(3) Maximum amount of the mandatory public offer of approx. €0.9bn if all minority interests tender their shares



#### **Edison: limited impact on credit ratios**



<sup>(1)</sup> Depending on results of the mandatory public offer

(2) Maximum impact following mandatory public offer, proforma 2011 (before synergies and potential impact of the PPA (Purchase Price Allocation))

46 (3) Before tax

#### **Edison: two outstanding conditions**

Confirmation from the CONSOB on the price of the mandatory public tender: maximum price of €0.84/share of Edison stock

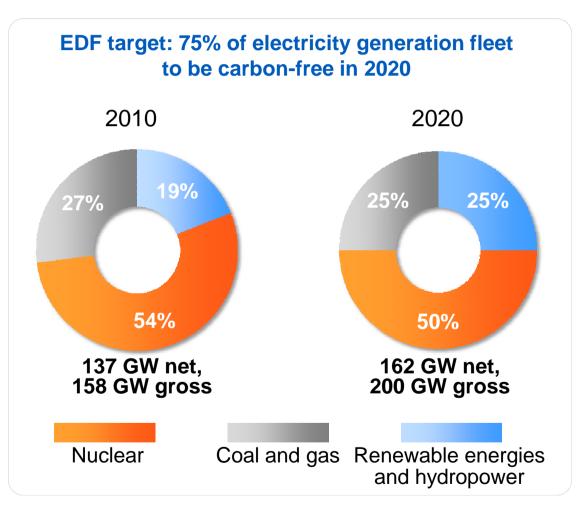
Authorisation from the anti-trust authorities:

- EDF's full takeover of Edison: European Commission
- Edipower transaction: Italian anti-trust authority

Finalisation of the transaction expected for summer 2012



#### One ambition: become the leader in carbon-free energy



- Renewable energies are an answer to lowering CO<sub>2</sub> emissions, alongside nuclear and management of electricity demand
- In response to critical issues:
  - Growing electricity demand
  - Security of supply
  - Global warming
- EDF's ambition: 25% of the electricity generation fleet in renewable energies (including hydropower) by 2020

#### A responsible industrial approach: developing carbon-free energy sources at controlled costs

#### By deploying renewable energies:

- At the right time
  - Deploying technologies that are currently competitive (hydropower, onshore wind)
  - Pursue improvements in promising technologies that are still expensive (photovoltaic solar, offshore, solar concentration (CSP), etc.)

#### In the right place

 Choose the geographic locations where the local conditions contribute to competitiveness (California for photovoltaic solar, Mexico for wind power, etc.)

#### With the right mix

 Notwithstanding major progress in energy storage, manage delivery of the intermittent energy sources that complement baseload power sources (nuclear, gas and coal) to the grid



# Growth drivers thanks to synergies between EDF EN and EDF (1/2)

## International development by leveraging complementarity between countries where both EDF and EDF EN have a presence

- Continue to seek out growth in high-potential areas for wind and solar
- Capitalise on opportunities where EDF has long-standing partnerships (Morocco, South Africa)
- Take advantage of EDF expertise in operating electric systems
  - Preparing solar call for tenders in South Africa and Morocco, launch of the first "utility scale" solar project in the US

#### Developing industrial projects using EDF's engineering skills

- Offshore wind power: control over cost of materials
- Navigate uncertainty (wind research, sea floor, etc.)
- Drive the industry
  - Offshore wind power: response to call for tenders in France, pursue construction of fleets in Belgium and the UK



## Growth drivers thanks to synergies between EDF EN and EDF (2/2)

#### Perfecting the technology of tomorrow, using EDF's innovation capacity and R&D

- Developing generation technology
  - Preparing the solar photovoltaic of tomorrow: work on next-generation thin strips for developing competitive panels integrated into the building; highly-efficient silicon
  - Contributing to technological breakthroughs



Marine current turbine off of Paimpol Bréhat

- Innovating to improve delivery of renewable energy onto the grid
  - Research on next-generation batteries
  - Experimenting with a smart grid

#### **Promising development outlook**

Positioning of the Group to capture growth of renewable energies at controlled costs	<ul> <li>Significant and complementary presence for EDF and EDF EN abroad</li> <li>Expertise in operating electricity systems</li> <li>Engineering/R&amp;D for developing renewable energies</li> <li>Diversified project portfolio (by technology and by industry)</li> <li>An experienced development team</li> </ul>
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Development outlook	<ul> <li>Continuing onshore wind and photovoltaic solar power in high-potential areas</li> <li>Development in new countries with a competitive natural (wind, sunshine) and regulatory environment</li> <li>Development in new technologies (offshore, etc.)</li> </ul>

EDF's ambition	<ul> <li>Be a leader in carbon-free energy sources</li> <li>Have 75% of power generation fleet from carbon-free sources</li> <li>Including 25% from renewable energies and hydropower</li> </ul>
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## ANNUAL RESULTS 2011