



# **EDF ENERGIES NOUVELLES A LEADER IN RENEWABLE ENERGY**

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# A PURE PLAYER IN GREEN ENERGY GENERATION

## A MULTI-SEGMENT PLAYER



WIND ENERGY



SOLAR ENERGY

- + Offshore Wind Energy
- + Biomass Biogas
- + Sea Energy

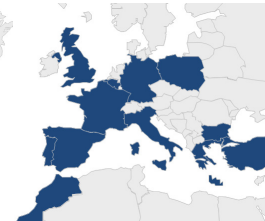
Other

## AN INTERNATIONAL FOOTPRINT

**17 countries** ~ **2,750 employees**  
at 31 December 2012



North America



Europe



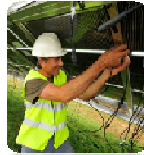
Africa & Middle-East

## AN INTEGRATED OPERATOR

Present on all the renewable value chain



Development



Construction



Generation



Operations & Maintenance

## AMONG THE WORLD LEADERS

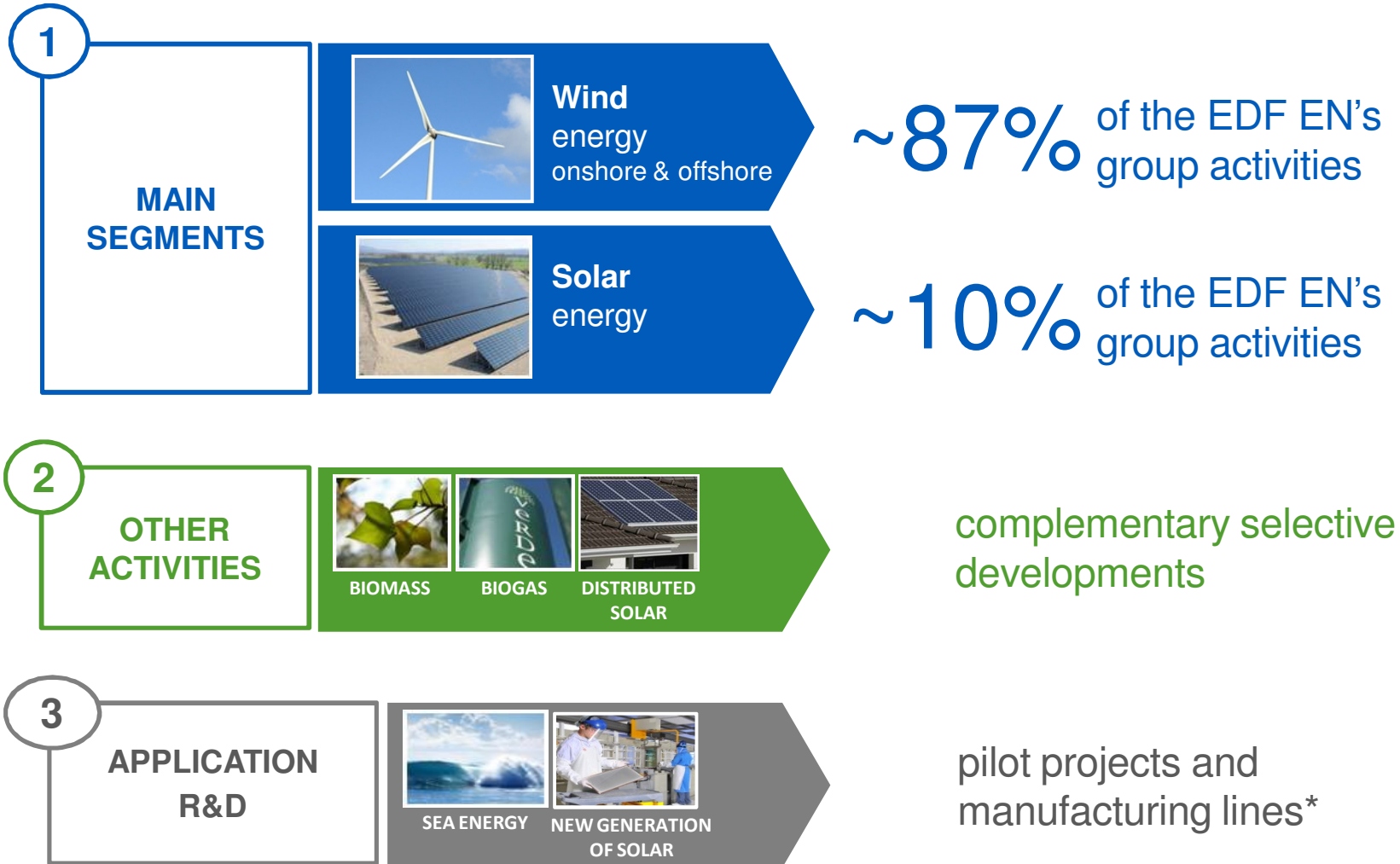
### Generation activity

- **6,358 MW** gross installed
- **1,493 MW** gross under construction\*

### Complementary activities

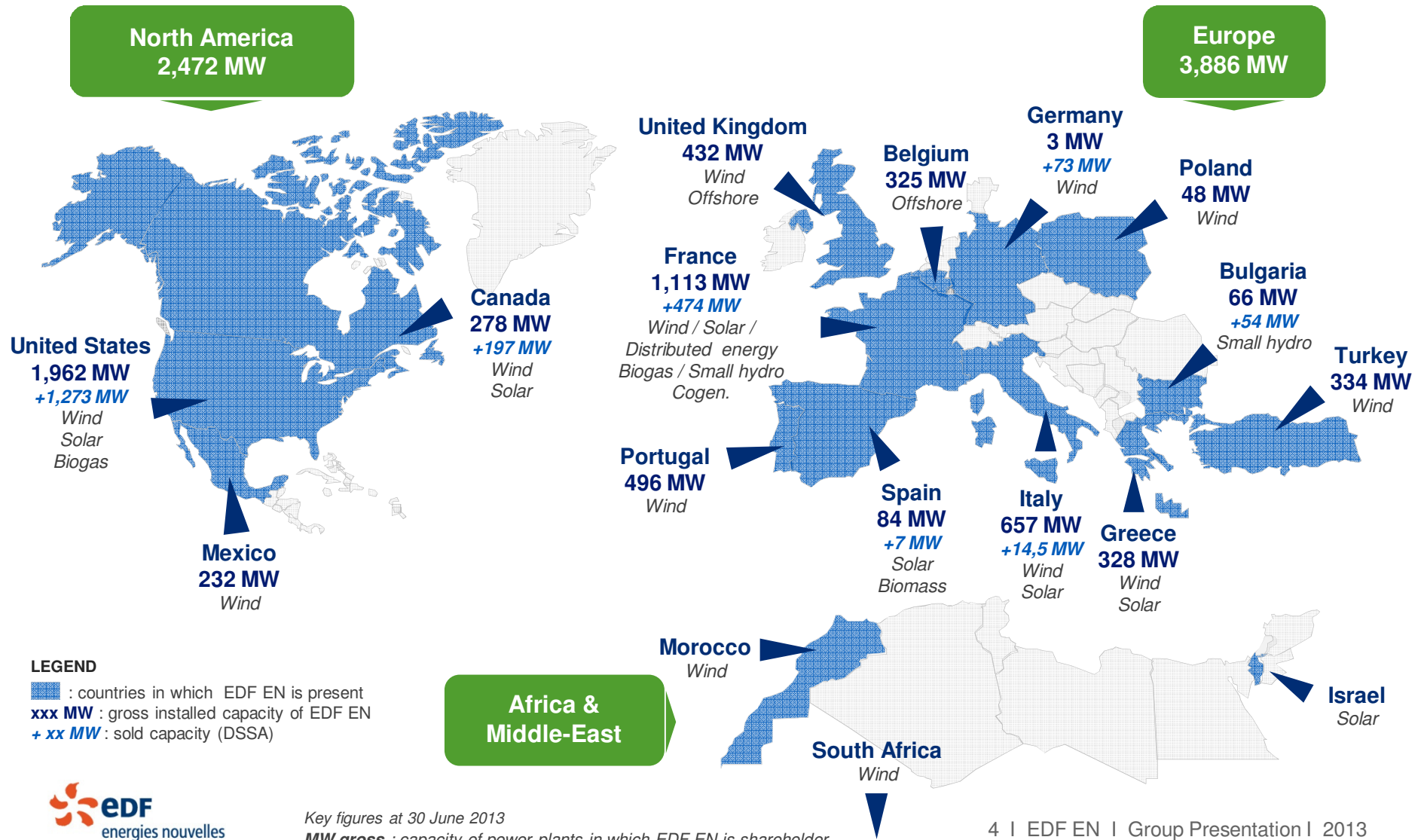
- **8,237 MW** in operation and maintenance\*

# A MULTI-SEGMENT PLAYER



# AN INTERNATIONAL FOOTPRINT

## 17 COUNTRIES – 6,358 MW GROSS INSTALLED



# A DYNAMIC COMPANY

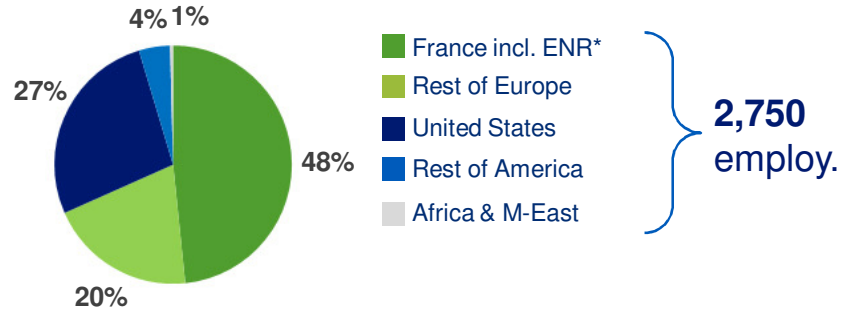
In millions of euros

31 dec. 2012

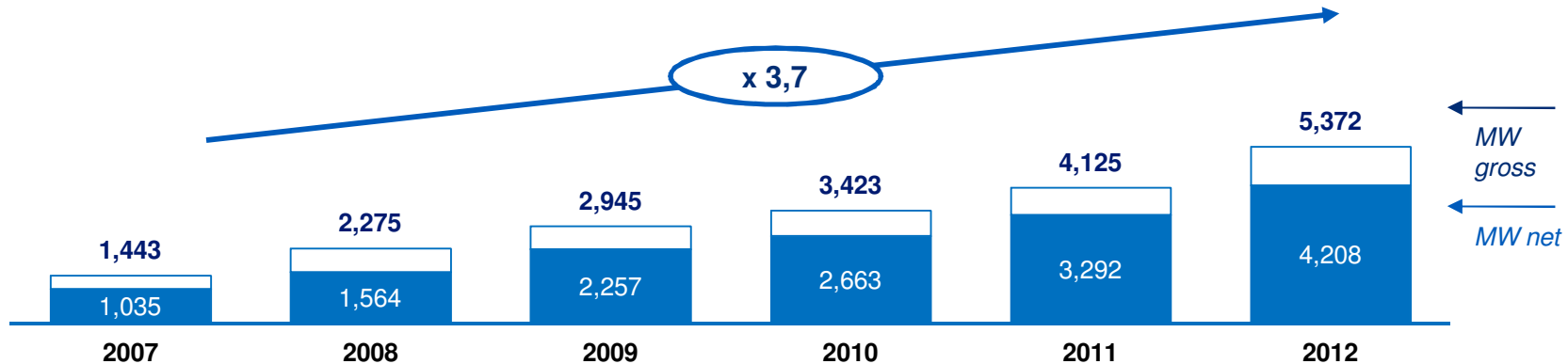
<b>Consolidated revenues</b>	<b>1,471</b>
<b>EBITDA</b>	<b>643</b>
<b>Net Income - Group share</b>	<b>78</b>

\* Scope owned by EDF : CR = €1 295 M; EBITDA = €642 M; Ni-Gs = €69 M

## Distribution of employees



## Trends in installed capacity



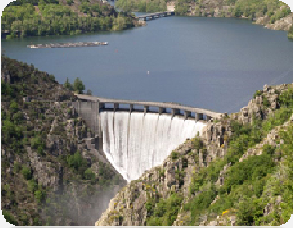
**MW gross** : capacity of power plants in which EDF EN is shareholder

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

# RENEWABLE ENERGY IN THE EDF GROUP















## Hydraulic



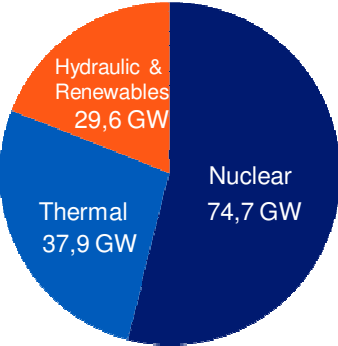
- ~ 20,000 MW
- First hydropower producer of the European Union
- Over 430 production sites

## New Renewable Energies

 Wind onshore	 Wind offshore	 Solar	 Sea energy	 Geothermal
 <b>6 358 MW gross</b> 4 635 MW net			 Biomass	 Biogas
 479 MW net 31/12/2012			 GROUPE TIRU créateur d'énergie verte	A 51% subsidiary
 197 MW net				A 34% subsidiary in France (50% internationally)

### A LEADER IN ELECTRICITY

- **139,5 GW\*** net installed



- **160 000** employees
- **72,7\* B€** consolidated revenues

\* Key figures at the end of 2012

**EDF EN, platform for EDF group ambitions in renewables**



Key figures at 30 June 2013

# EDF EN HELLAS

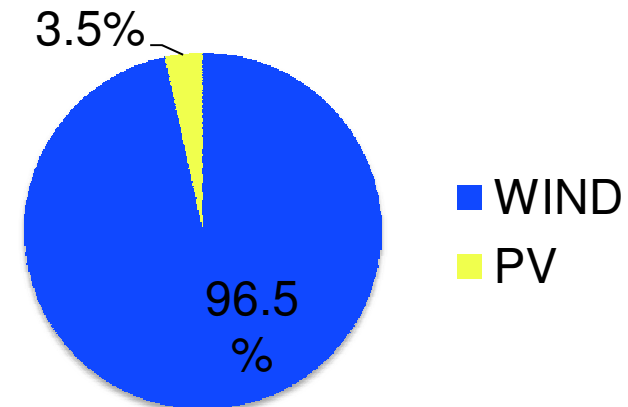
## BIGGEST RES PRODUCER IN GREECE

### 2013 figures :

- **Production** : 692 GWh
- **Turnover**: EDF EN H = 68.5 m€,
- **EBITDA**: EDF EN H = 41 m€,
- **CAPACITY**: 352MW
- **EMPLOYEES**: 100

### CAPACITY: 352MW

- Wind: 340 MW
- PV : 12 MW



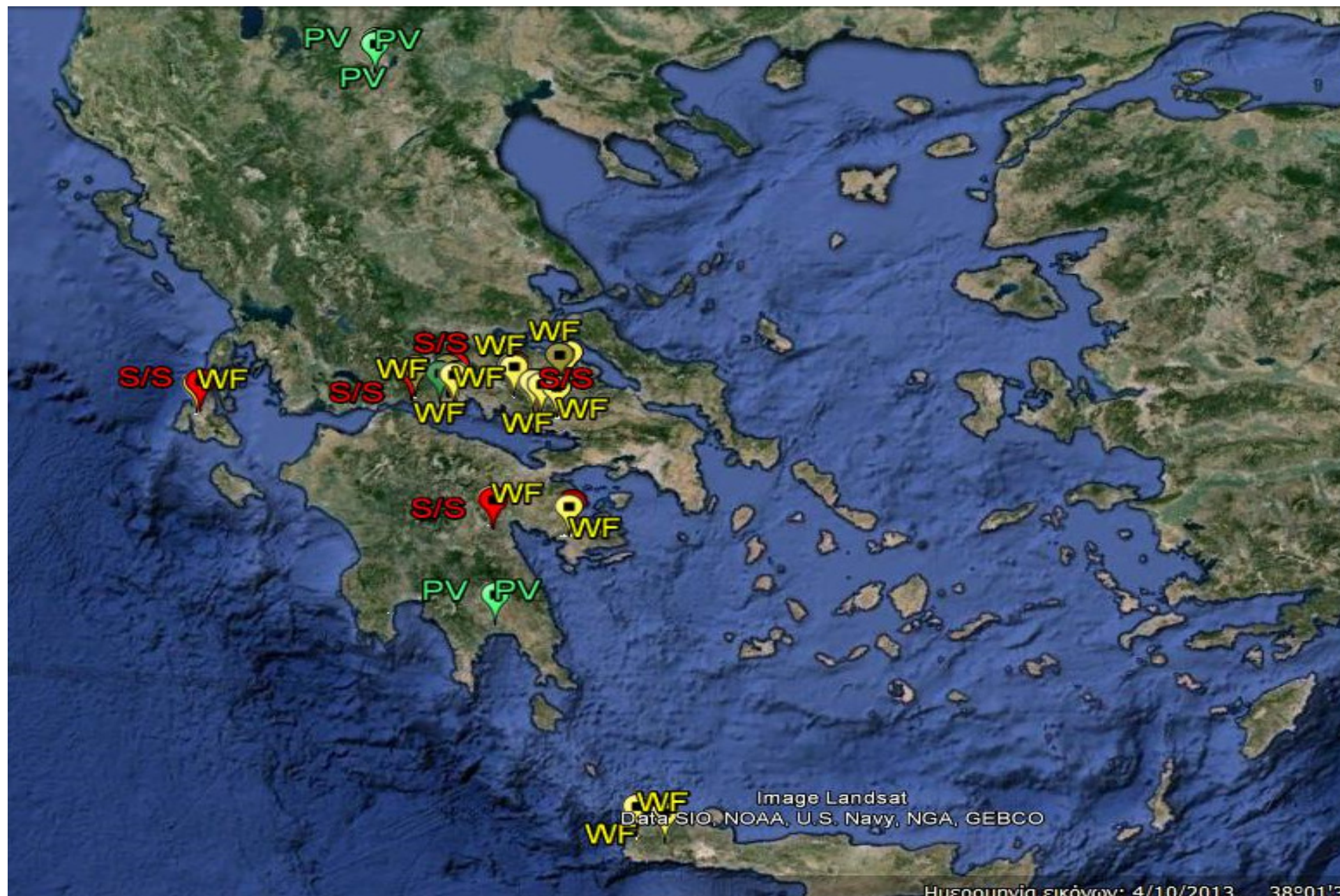
# EDF EN HELLAS

## Current Activities:

- **Asset management:** 352MW
- **O&M:** EEN Services Greece start operation in early 2011 and is currently operating 144 MW
- **Construction:** Lefkes-Belecheri (45 MW) under construction
- **Development:**
  - WF portfolio: more than 1500 MW, including Hybrid projects (WF+PSP)
- **Other activities:**
  - Engineering support to the Group: wind studies, DDs, WFs BoP design ...



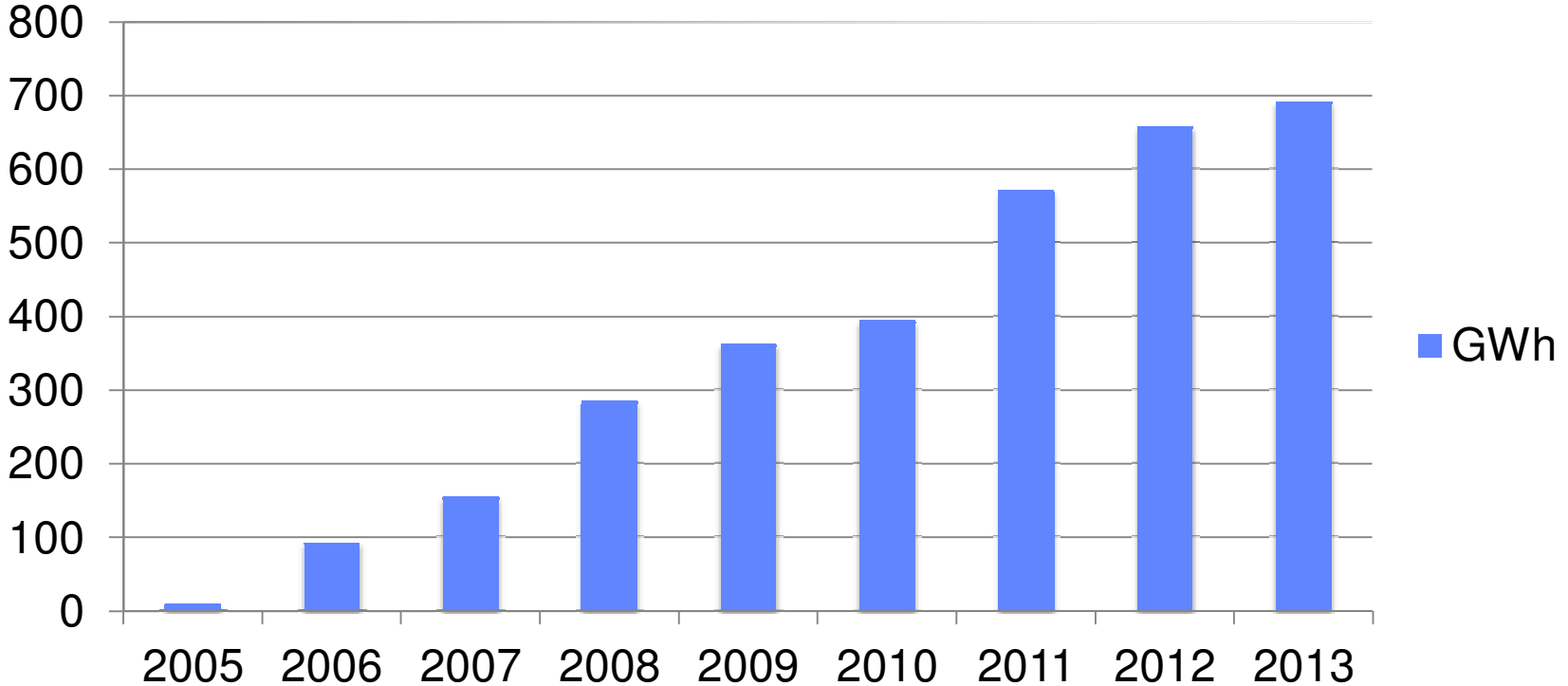
# EDF EN HELLAS projects



# EDF EN HELLAS

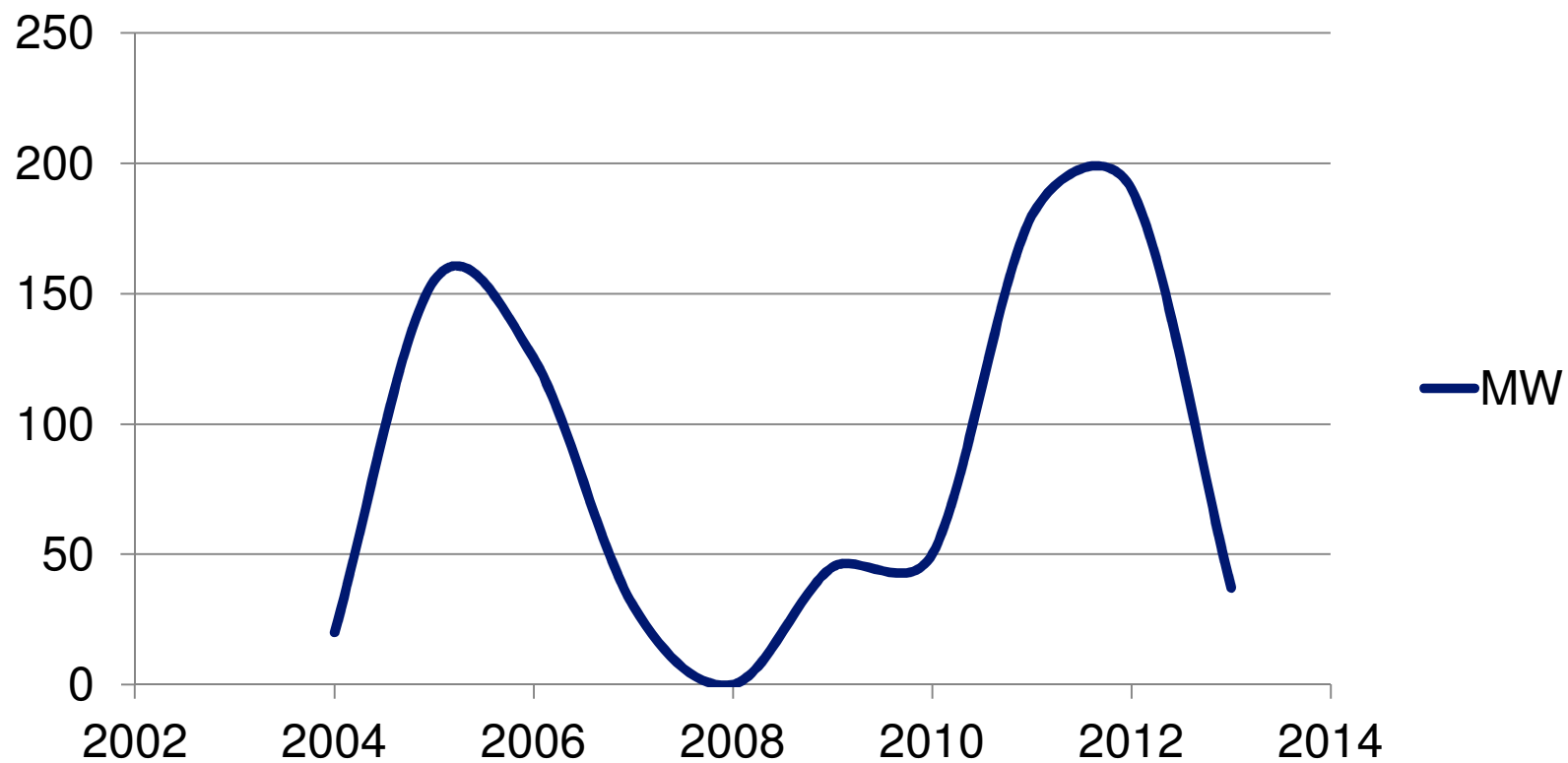
## Production 2005-2013

GWh

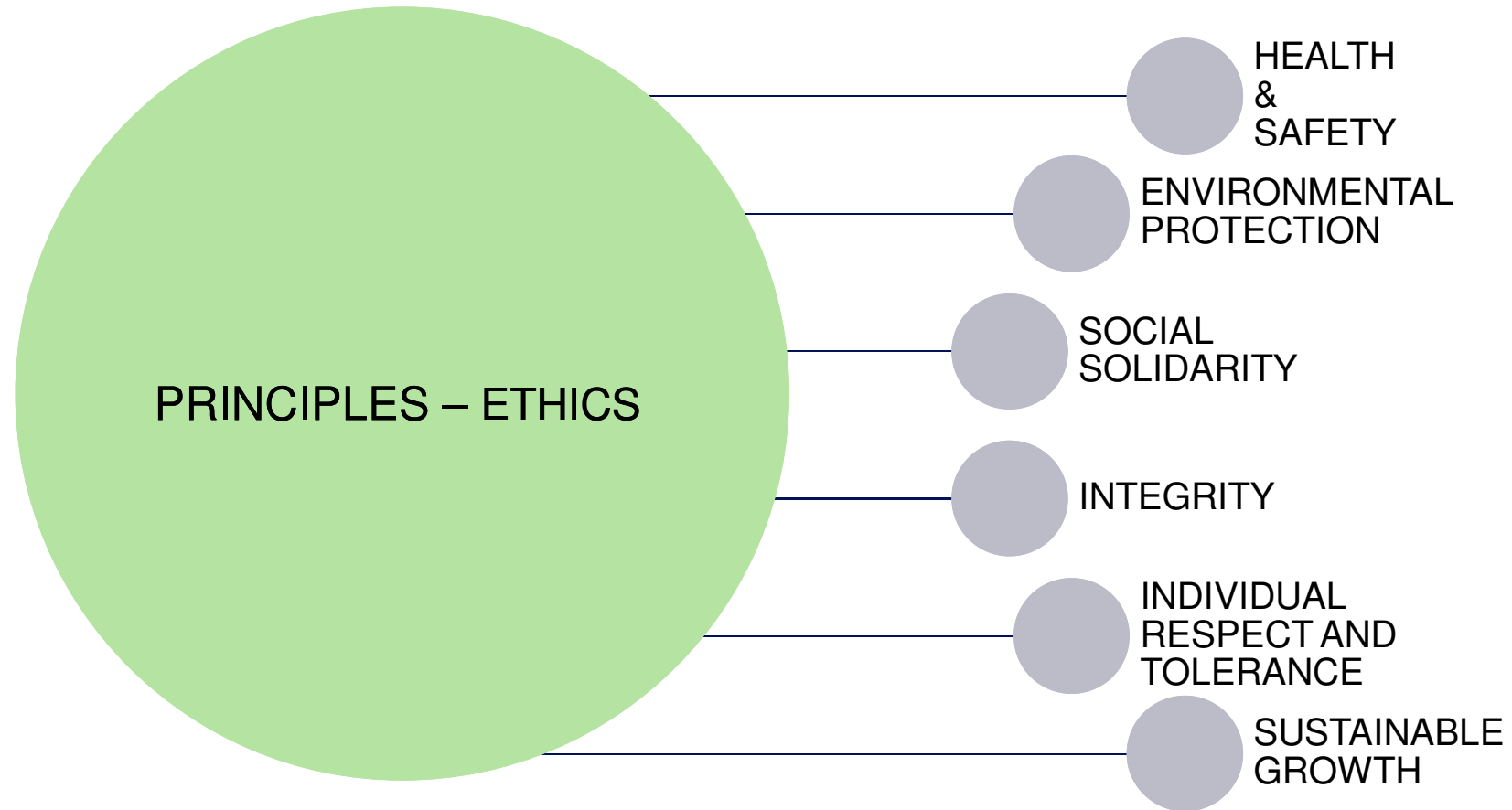


# EDF EN HELLAS

## Production Licenses MW



# EDF EN HELLAS

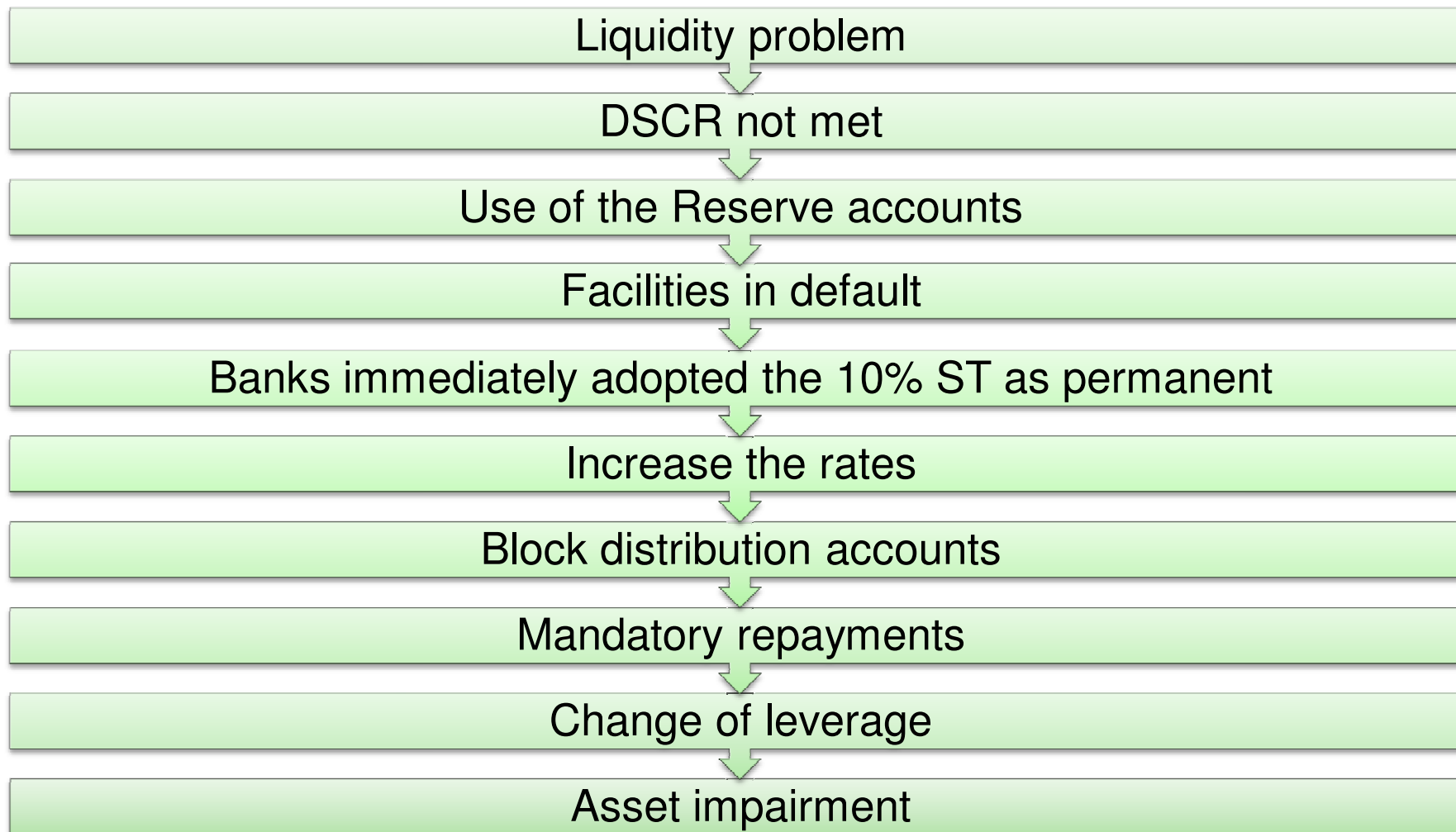


# EDF EN HELLAS

## Since 2004, 16 projects implemented Experience:

- Average Project maturity to OL 6 years
- 15 Law suits+25 applications to Highest Court
- The land in most cases was forest public land
- In most cases we were forced to buy or lease public land from land grabbers

# IMPACT OF LAGHE DEFICIT COMBINED WITH THE SOLIDARITY TAX 10% ON WINDFARM REVENUES



# FUTURE PERSPECTIVES

