

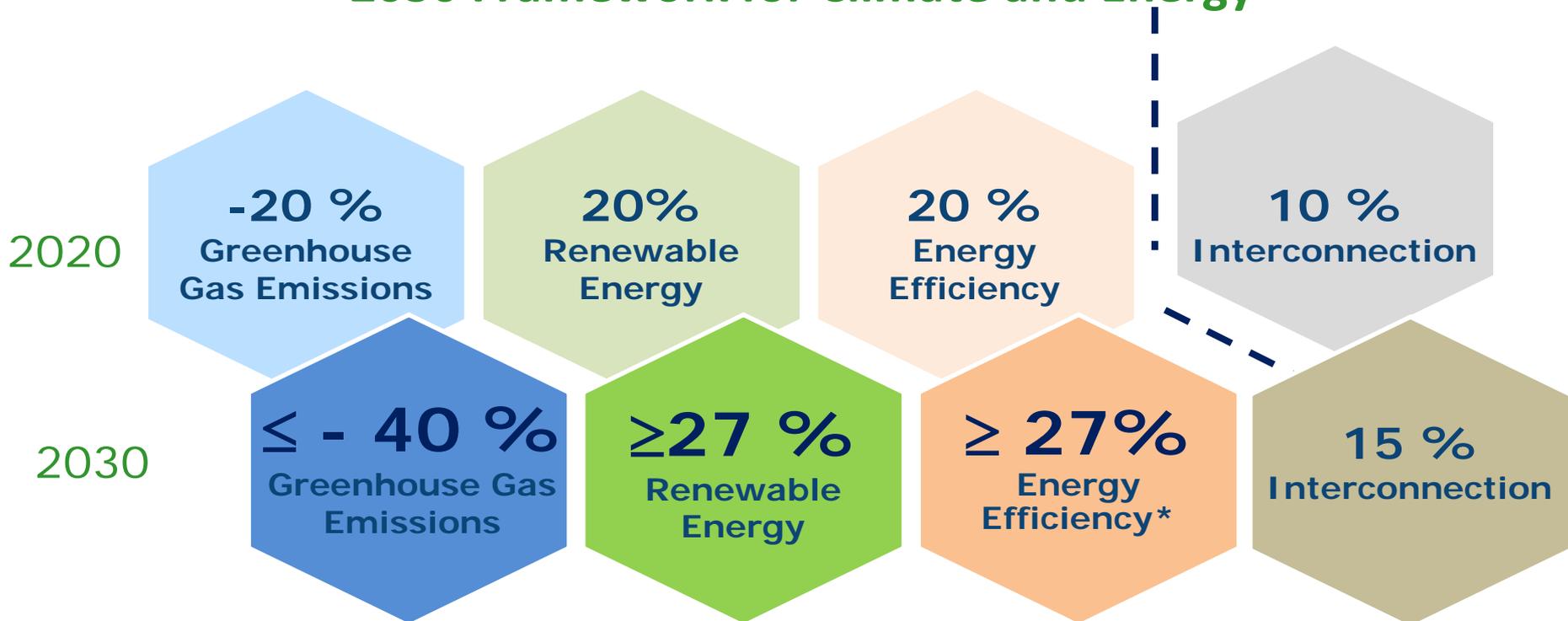


Lessons learned in the energy transition - The EU Experience

Climate Action Group
Vienna, 5 September 2017
Yvon Slingenberg
Director International & Mainstreaming
DG Climate Action

The EU's response to Paris

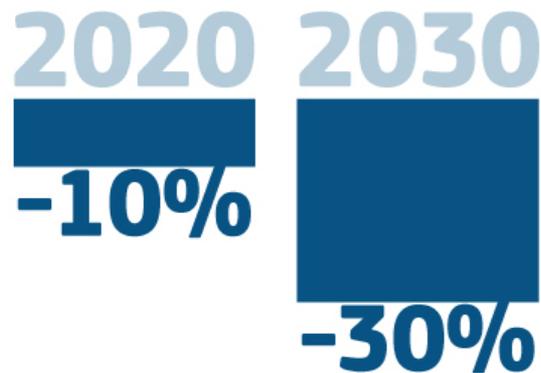
2030 Framework for Climate and Energy



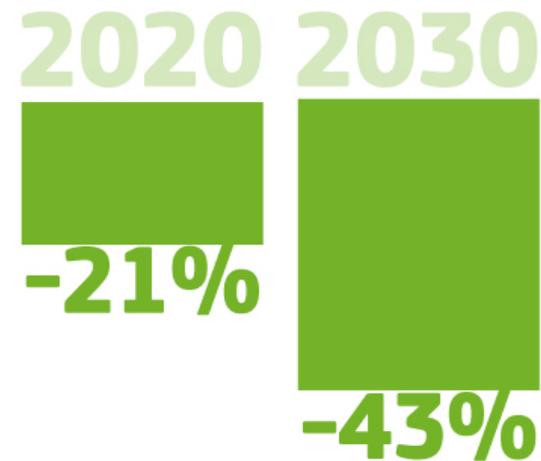
* Proposed to increase to 30%

GHG reduction targets ETS and Non ETS

EMISSION REDUCTIONS IN ETS AND NON-ETS COMPARED TO 2005



**NON
ETS** INCLUDING
ROAD TRANSPORT,
HOUSING,
AGRICULTURE
etc.



ETS INCLUDING
POWER/ENERGY
SECTOR & INDUSTRY

CLEAN ENERGY FOR ALL EUROPEANS – THE OPPORTUNITY

THE ENERGY SYSTEM OF TOMORROW WILL LOOK DIFFERENT

2015

Paris Climate
Agreement



2030

50 % of electricity to
come from
renewables



2050

Carbon free
electricity &
transport further
decarbonised



A UNIQUE OPPORTUNITY TO MODERNISE OUR ECONOMY

Stimulate
investment

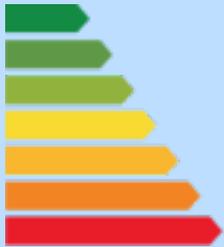
Create
jobs and growth

Secure
energy supplies

Accelerate
decarbonisation

Empower
consumers

CLEAN ENERGY FOR ALL EUROPEANS – THE PROPOSALS



Putting **energy efficiency** first



Making the EU world leader in **renewables**



New **Electricity Market Design**



Energy Union Governance

PUTTING ENERGY EFFICIENCY FIRST



Energy Efficiency Directive

- Binding 30% energy efficiency target for 2030;
- Create 400,000 new jobs;
- Reduce gas imports by 12%;
- Save € 70 billion in fossil fuel imports;
- Empower consumers by granting access to information on their energy consumption;
- Cut health-related damage costs by up to €8.3 billion.



Energy Performance of Buildings

- Clear vision for a decarbonised building stock;
- Smart & Efficient buildings through use of Information and Communication Technologies and Smart Technologies;
- Smart Finance for Smart Buildings initiative:
 - More effective use of public funding
 - Aggregation of funds
 - De-risking
- Protect vulnerable groups & address energy poverty.

MAIN ELEMENTS OF THE ENERGY UNION GOVERNANCE

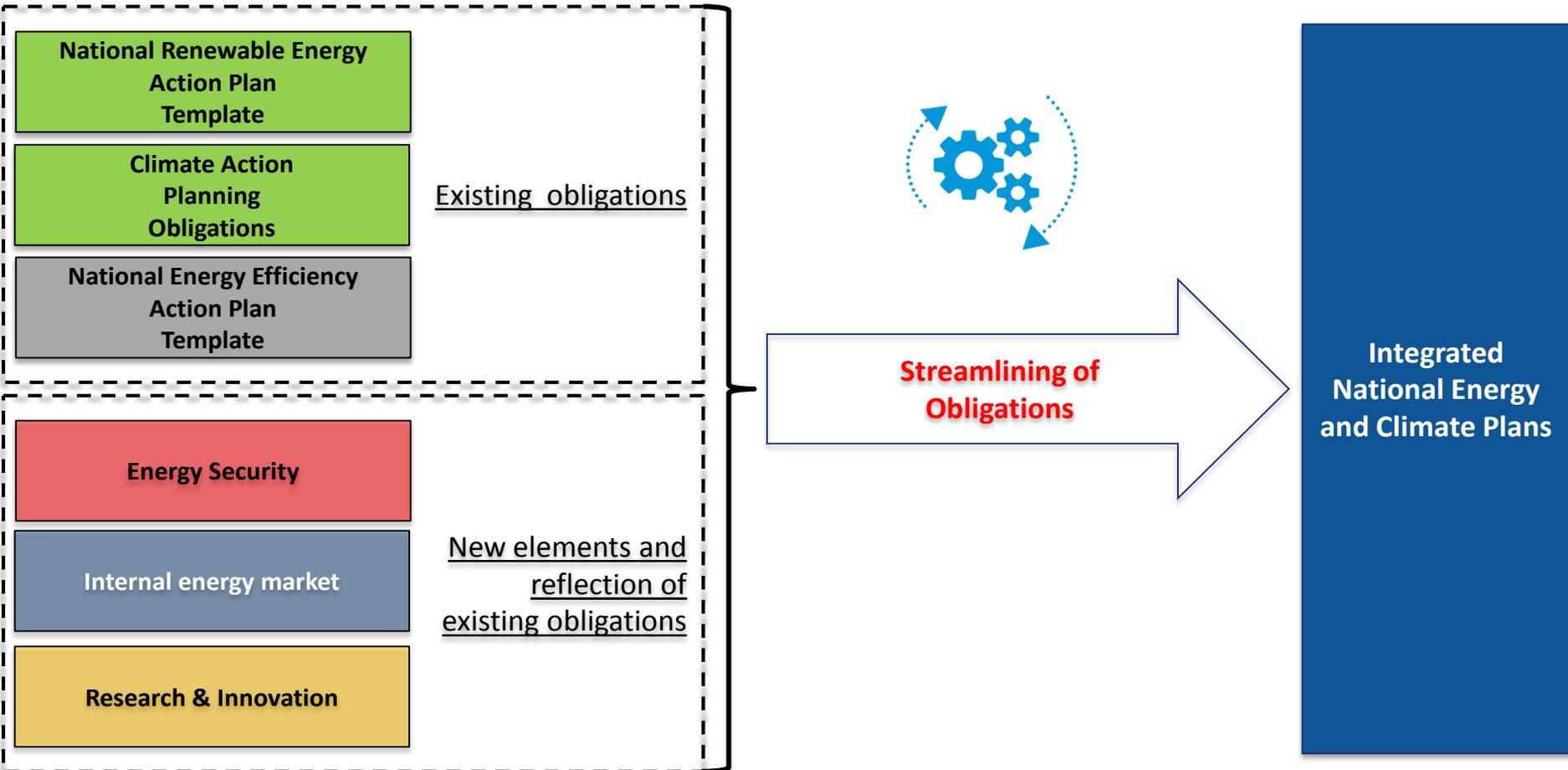
Integrated National Energy and Climate Plans (2021 to 2030)

National progress reports

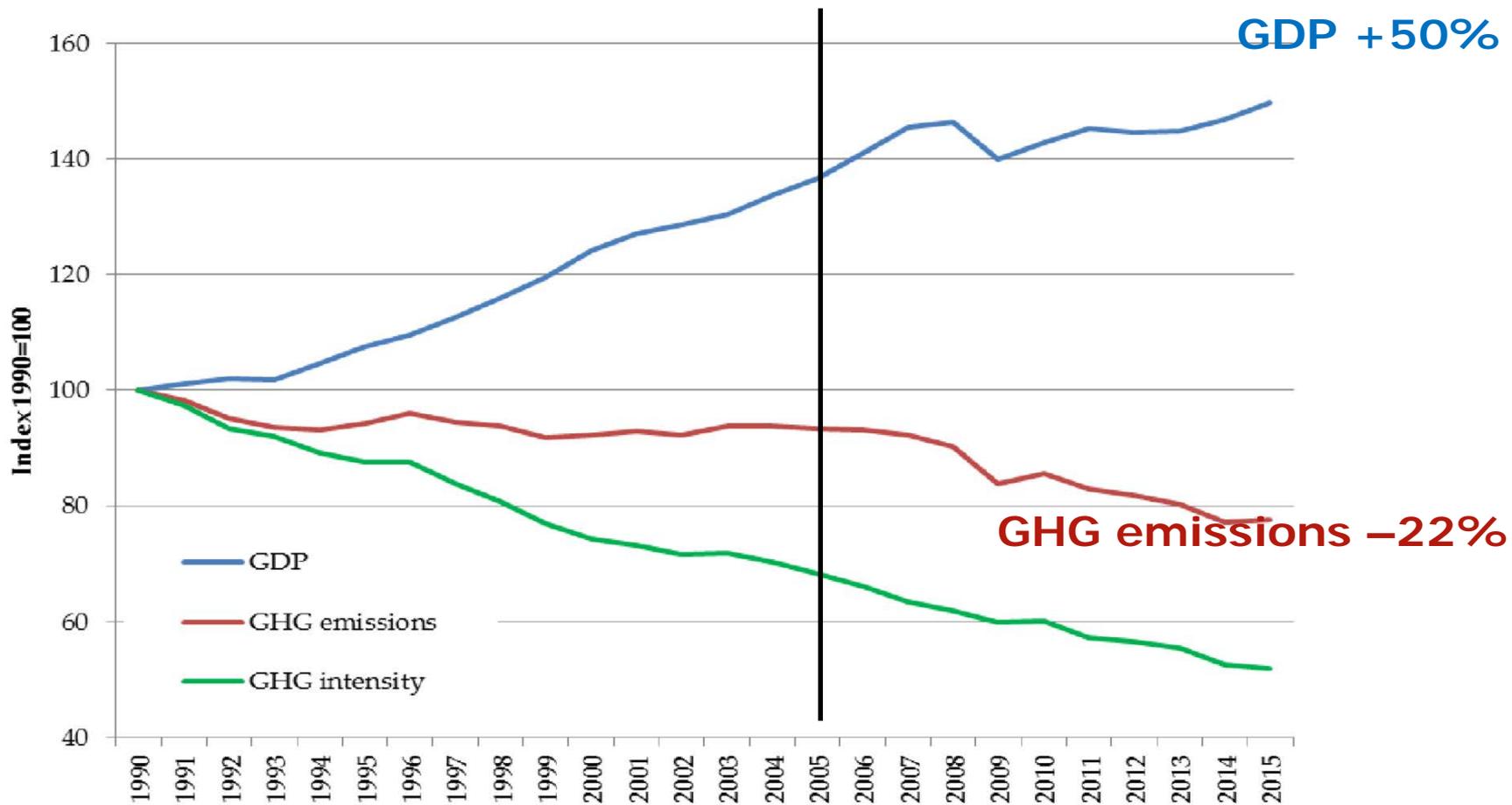
European Commission monitoring



STREAMLINING OF PLANNING OBLIGATIONS



European Union: Decoupling economic growth from greenhouse gas emissions

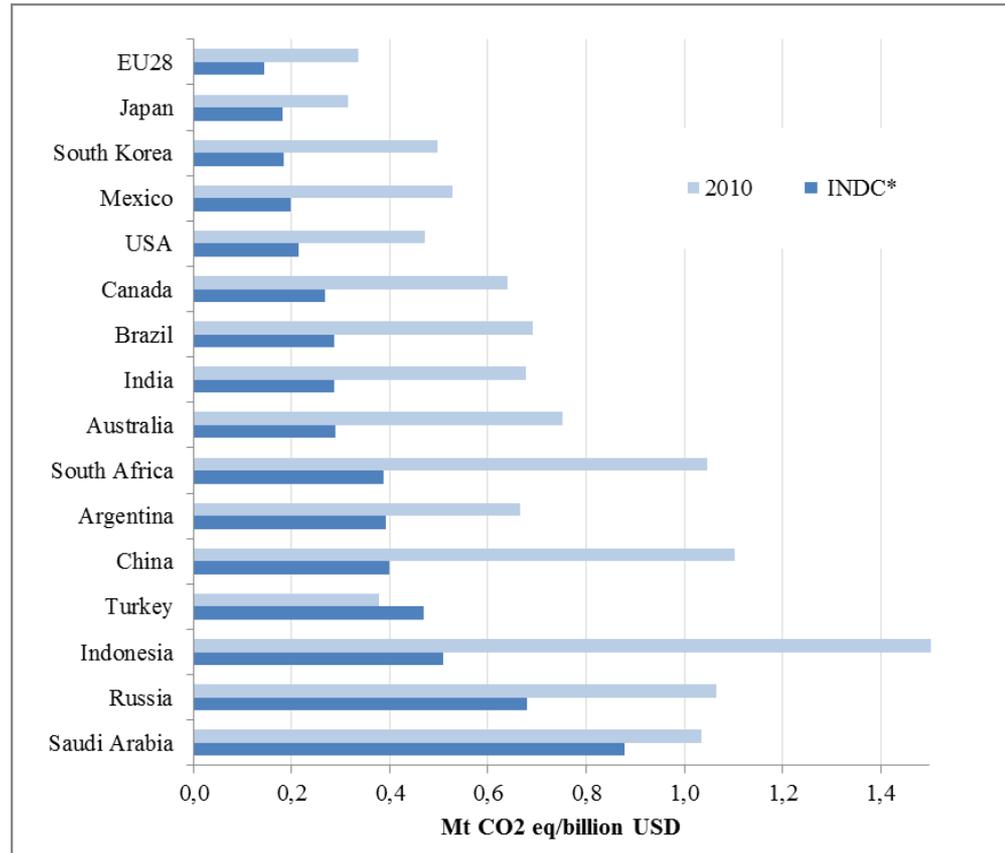


Making the EU the most energy efficient economy worldwide

Significant reduction of GHG intensity of EU economy

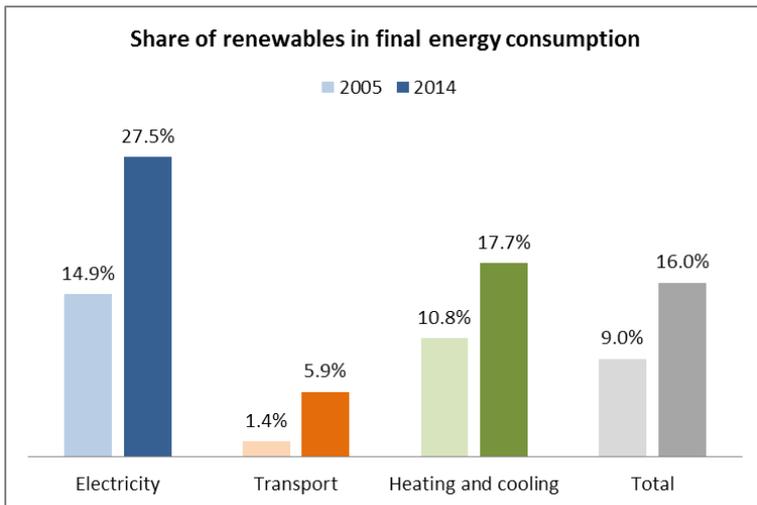
EU is one of the most GHG efficient major economies

EU is set to become the most GHG efficient economy in the G20 through the implementation of the 2030 climate and energy targets



Source: The emissions Gap Report 2016-2030 trends and ambition. UNEP, November 2016.

Renewables' state of play

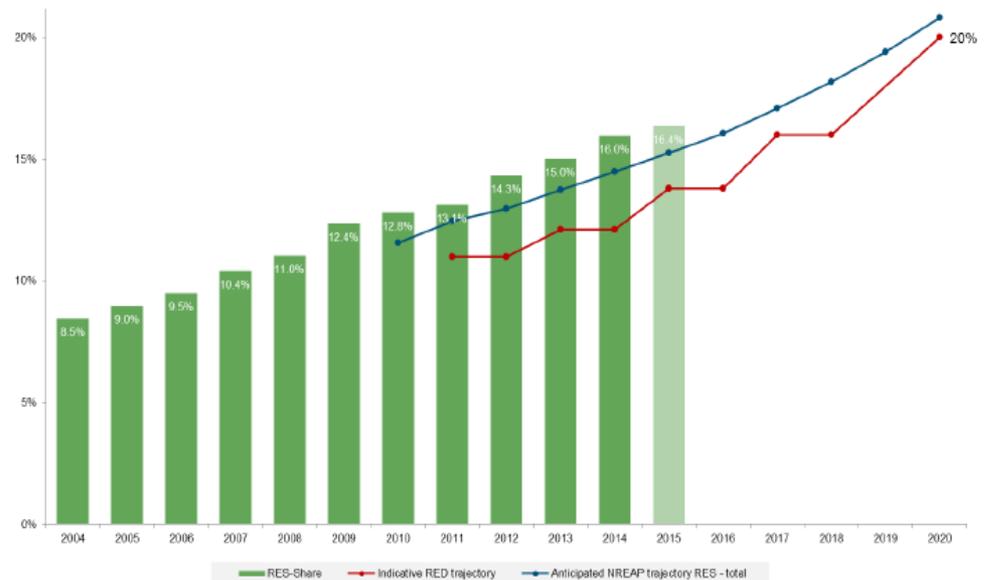


Challenges ahead

- EU as technology provider ("renewable no. 1")
- Network development
- Market integration

Achievements

- drove down costs key technologies (PV, wind)
- accelerated deployment – strong impact on investments patterns
- emission reductions





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