

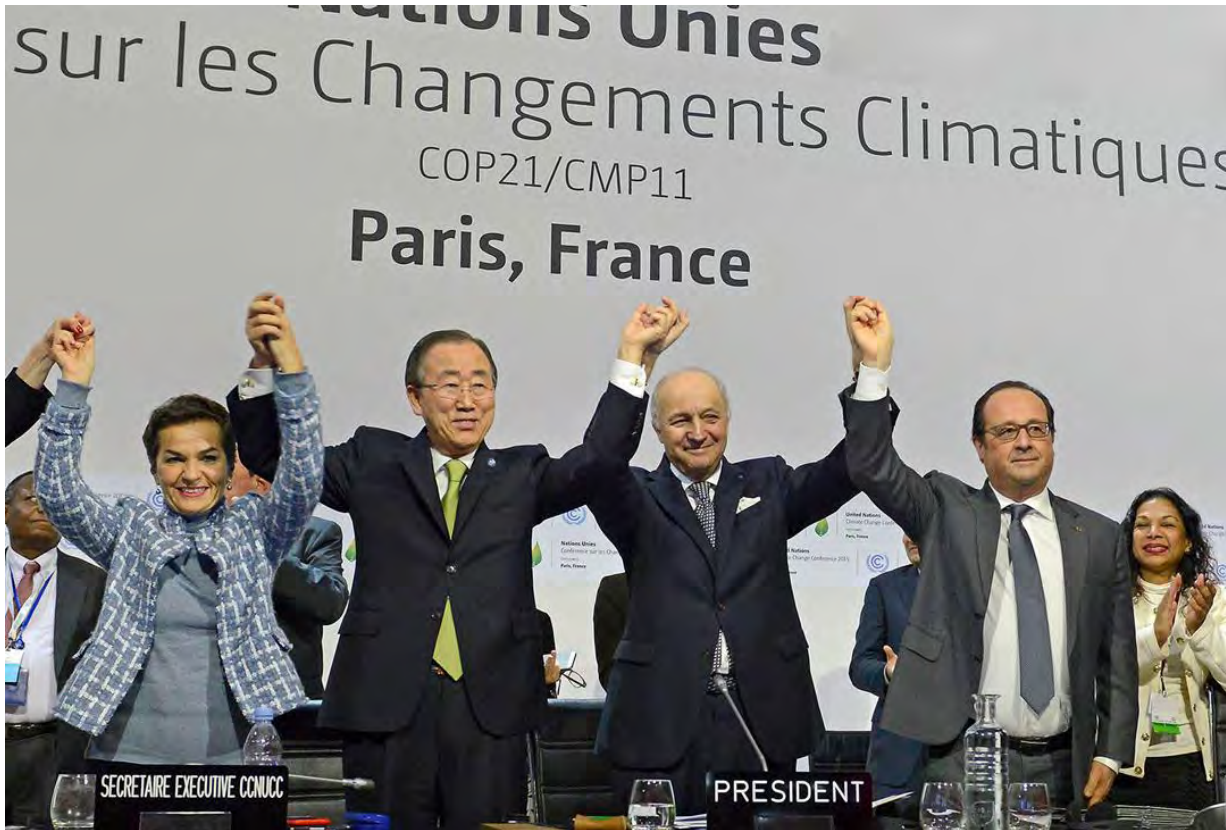


# **The Paris Agreement , the Implementation of Renewables, and Energy *System Change in the EU***

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**EREF, President**

Athens, 25/10/2016

## Celebrating the Paris Agreement



Signed in New York 22/04/2016

Ratification in 2016?

To be implemented now!

***Implementation requires paradigm shift for renewables!***

## Paris Agreement – Key Points

- Global average **temperature** to stay **well below 2° C** above pre-industrial levels; aiming to **limit** the increase to **1.5° C**
- **Global emissions to peak as soon as possible**, recognizing that this will take longer for developing countries
- **Rapid reductions thereafter** in accordance with the best available science
- Regular reviews and adjustments of climate action plans and commitments
- **National climate action plans (INDCs) not enough to keep global warming below 2° C**

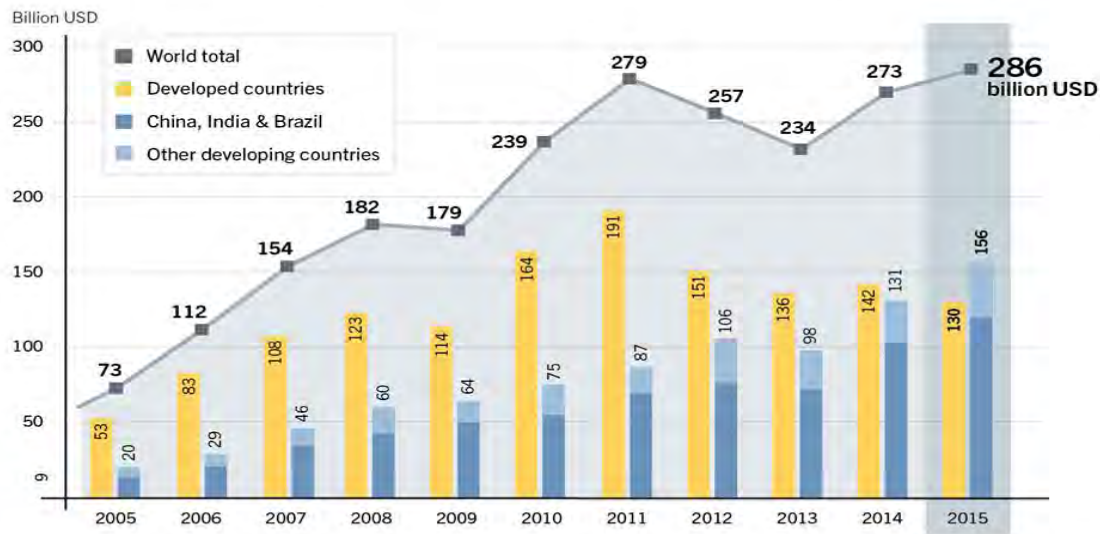
EU policies and legislation are insufficient for achieving the Paris Commitments





## Positive Prospect: Global Investment in Renewables is growing and shifting to developing countries

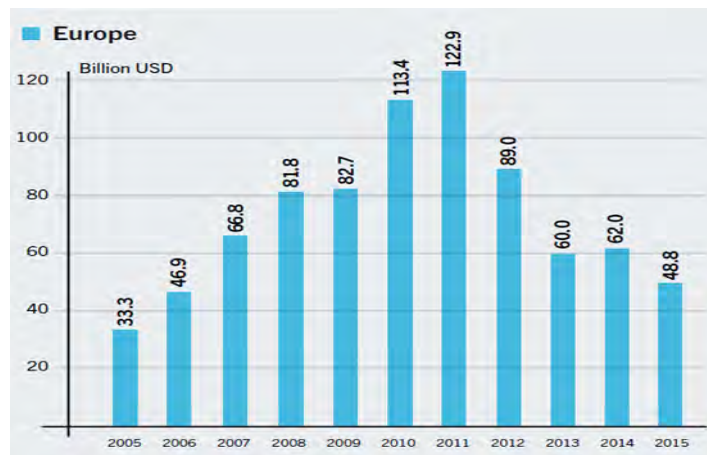
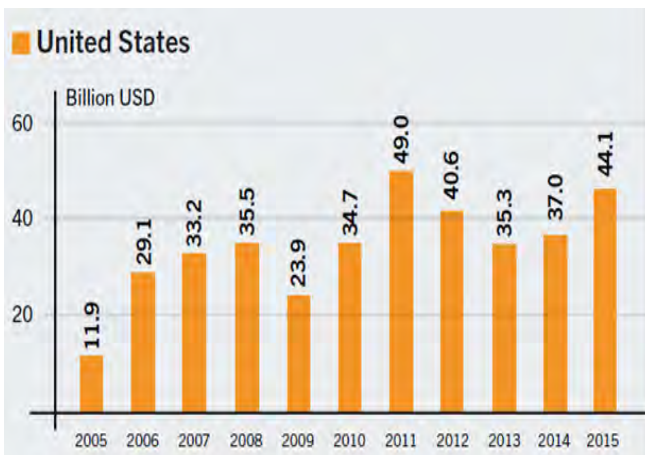
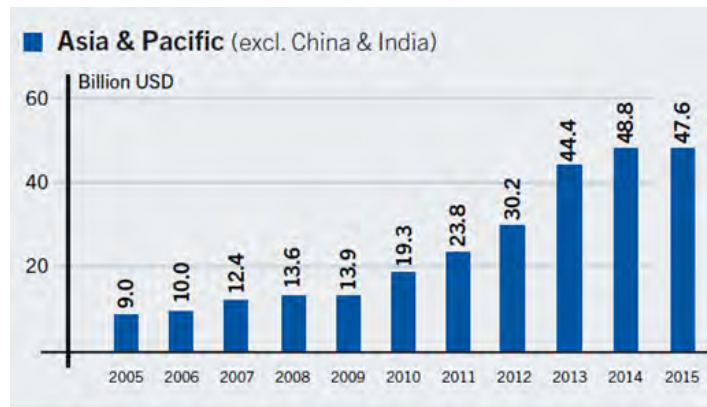
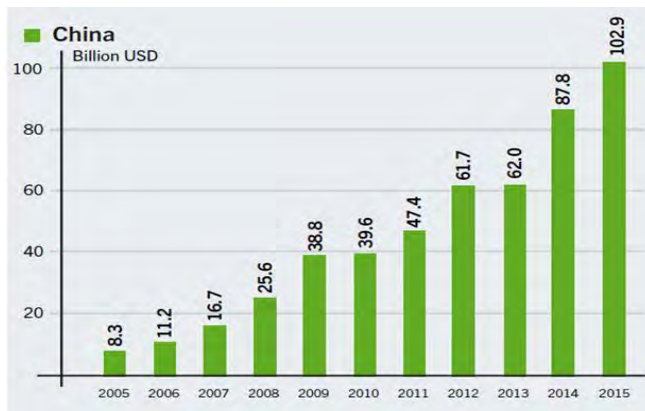
Global New Investment in Renewable Power and Fuels, Developed, Emerging and Developing Countries, 2005–2015



REN21 *Renewables 2016 Global Status Report*



## Negative Development : Europe is falling back in the global race for renewables



# EREF

European Renewable Energies Federation



**Why is Europe falling back?**



## Europe's 2050 vision is great – but is the right framework in place?

- **Energy Roadmap 2050:** Renewables as major players and dominating the electricity sector (in all compliance scenarios)
- **Energy Union to make Europe No. 1 in Renewables**
- **2020 targets and RED:** excellent tools, but implemented half-heartedly, including (retroactive) policy changes
- **2030 Council Conclusions** still to be enacted and not ambitious
  - at least 40% domestic GHG reduction
  - at least 27% Renewables share and Energy Efficiency increase
  - RE target binding on EU-level, no binding national targets
  - Governance framework for delivery
- **Proposed targets, regulations and policies for 2030** were not increased after Paris Agreement
- **Significant improvement needed in legislative process!**

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**What should be done?**





## Key requirements for RED 2030

- Significantly more **ambitious targets** and robust **governance framework** (NCEAPs) for target achievement
- Meaningful benchmarks for **national contributions and trajectories** to 2030 EU-target
- Different **national RE support systems** to be continued after 2020 – including priority access and dispatch
- **Differentiated support** according to technologies, size and ownership of installations remains necessary
- Rule out **retro-active changes** to remuneration schemes
- Regular **monitoring and EU instruments** for securing target achievement (gap avoider, gap filler)



## Elements of a new Market Design

- **Objective:** participation of renewables in **undistorted energy markets** – including intraday, balancing and system services
- Make markets **fit for renewables** – in particular for variable renewables and for millions of decentralized **prosumers**
- Enact and implement meaningful **carbon pricing** (carbon tax? ETS?)
- Facilitate **self-consumption** for industry, cooperatives and private households and **sector coupling** (power-to-x, storage ...)
- **Key 1:** gradually remove **subsidies** for conventional and nuclear energy and develop phase-out strategies for non-RES energy
- **Key 2:** facilitate supply side and demand side **flexibility** (tariff structure, shorter/close to real-time gate closure times ...)

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**Make markets fit for Renewables –  
Renewables are fit for the market!**



## Instead of Conclusions: Three Imperatives for a successful Energy Union

- Make **Renewable Energy & Energy Efficiency the centre pieces of the Energy Union** and **prove clear commitment** to 2050 GHG-objectives and the Paris Agreement
- Embrace the **economic opportunities** of a smooth **transition towards a renewables based energy system**, e.g.
  - Increased supply security due to domestic resources
    - GDP significantly increased by several percentage points
    - Strengthened Democracy by empowering prosumers
    - Billions of energy import costs avoided
    - Millions of future proof jobs
    - Liveable planet for future generations
- Agree on a really **ambitious 2030 climate and energy framework** – in line with the Paris Commitments

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**Thank you for your attention!**

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