



# ENERGY UNION AND CLIMATE ACTION

#EnergyUnion

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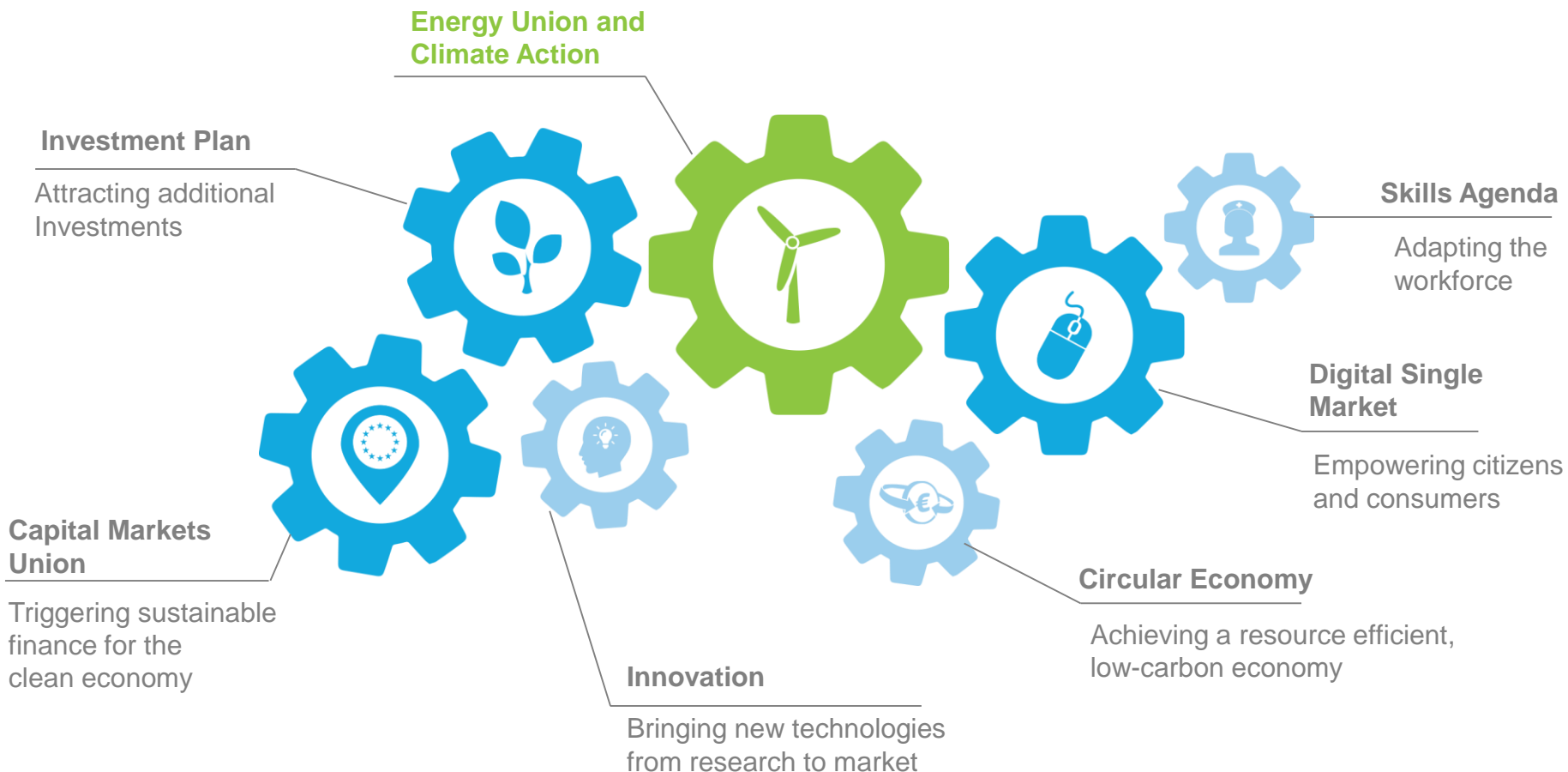
***The European Union turned climate ambition into climate action.***

*The Paris Agreement is the first of its kind and it would not have been possible were it not for the European Union. Today we continued to show leadership and prove that, together, the European Union can deliver.*

**Jean-Claude Juncker**, on the EU ratification of the Paris Agreement, 4 October 2016

# MODERNISATION OF THE ECONOMY

## ROLE OF THE ENERGY UNION AND CLIMATE ACTION



## CHALLENGES AND OPPORTUNITIES



**Modernise our economy** by bringing down greenhouse gas emissions while creating jobs and growth

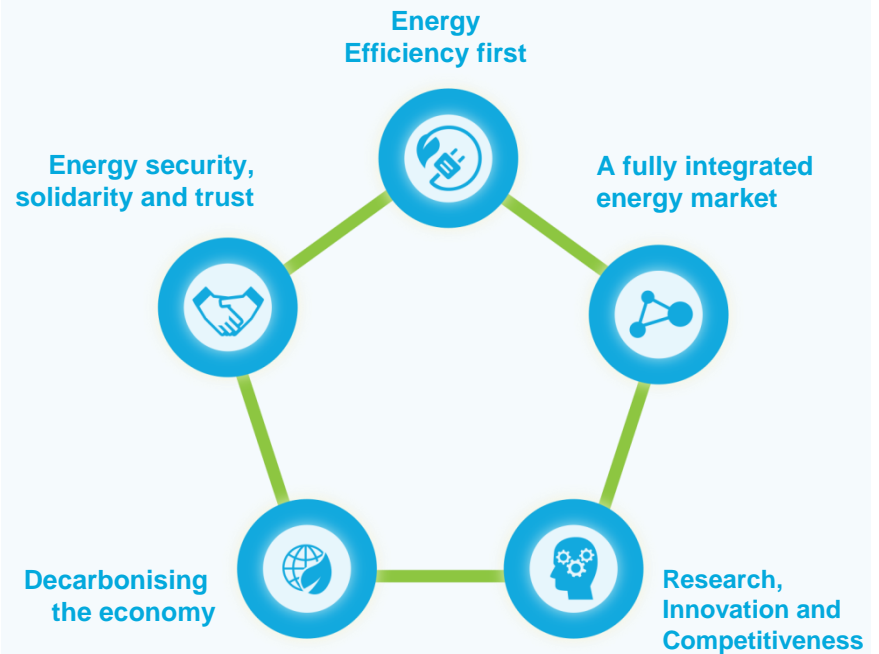


The EU as the **world leader on renewable energy and placing energy efficiency first** based on new technologies and industrial leadership



**Ensure a socially fair transition** where regions, cities and consumers play an active role

### ENERGY UNION STRATEGY





## INTERCONNECTING MARKETS



*We need to pool our resources, combine our infrastructure and unite our negotiating power vis-à-vis third countries. We need to diversify our energy sources, and reduce the high energy dependency of our Member States.*

Jean-Claude Juncker, Political Guidelines, 15 July 2014

Today



Potential by 2020



- Countries meeting the 10% electricity interconnection target
- Countries not meeting the 10% electricity interconnection target



## DELIVERING ON SECURITY, SOLIDARITY AND TRUST



€5.35  
billion

**Connecting  
Europe  
Facility**

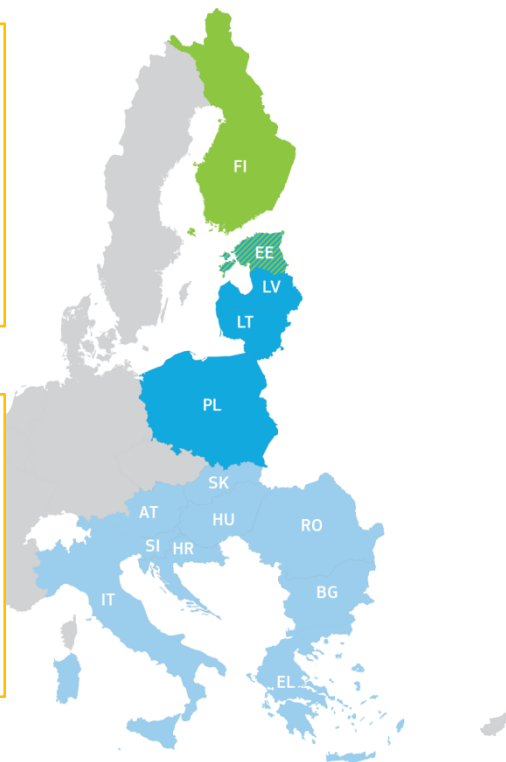
2014-2020

Earmarked to trans-European energy infrastructure



195

**European  
projects of  
common  
interest \***



**Balticconnector**

**(Gas pipeline between Estonia and Finland)**

Operational by 2020

€ 5.4 million for studies

€ 187.5 million for construction works



**Gas Interconnector Poland-Lithuania (GIPL)**  
**Benefitting also Latvia and Estonia**

Operational by 2021

€ 10 million for studies

€ 295 million for construction works



**Central and South-Eastern European Gas  
Connectivity (CESEC)**

Beyond gas connectivity, also strengthening cooperation on electricity, renewables and energy efficiency with benefits for other Member States in the region

Operational by end 2019

€ 179.3 million for works

\*As of November 2015 – two year project cycle





## TRANSITION TO A CLEAN ECONOMY

### CLEAN ENERGY IS THE GROWTH OF TOMORROW



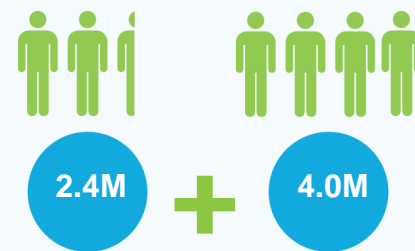
EU's renewable energy sector created in 2014 an annual turnover of around **143.6 billion EUR**

Source: EurObserv'ER



EU companies have a share of **40% of all patents** for renewable technologies

Source: European Parliamentary Research Service



**2.4 million** Europeans are employed in sectors providing energy efficiency products and services.  
More than **1 million people** work in the renewable energy sector, with potentially **3 million more jobs by 2020**

Source: European Commission

## CLIMATE DELIVERABLES – PARIS AND BEYOND

### PARIS AGREEMENT REQUIREMENTS



Ratification by:

**55**  
parties

Of 197 parties to  
the convention



Representing:

**55%**

Global greenhouse  
gas emissions



### EU TRIGGERS PARIS AGREEMENT

EU ratification:

**>55%**

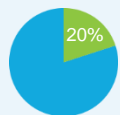
Takes us across  
emissions threshold



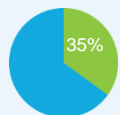


## CLIMATE DELIVERABLES

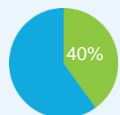
### FINANCIAL SUPPORT AND INVESTMENTS



**20%** of the EU budget goes to climate-related expenditure



Climate-related expenditure will exceed **35%** of the overall Horizon 2020 budget



At least **40%** of the European Fund for Strategic Investments (EFSI) will support **projects with components that contribute to climate action**



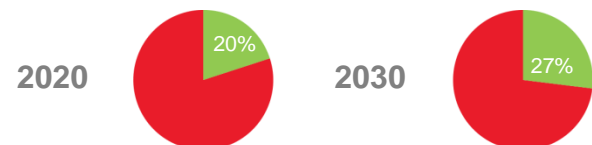
**European External Investment Plan**, supporting energy projects in Africa and in the Neighbourhood

### CUT GREENHOUSE GAS EMISSIONS BY AT LEAST **40%**



(Compared to 1990)

### INCREASE THE SHARE OF RENEWABLES IN THE ENERGY MIX TO AT LEAST **27%**



### IMPROVE ENERGY EFFICIENCY BY AT LEAST **27%**



(Compared to the "Business-as-usual" scenario)



## MODERNISATION OF THE ECONOMY

E.G. LOW-EMISSION MOBILITY

### LOW-EMISSION MOBILITY STRATEGY

**More efficient transport systems**



**New business models:**  
Car sharing, innovation, e-mobility



LOW  
EMISSION

MOBILITY STRATEGY



**Industrial competitiveness:**

The car of the future, with next generation batteries produced in the EU



**Smart grids and infrastructure**



**Clean fuels and renewable energy**



## NEXT STEPS



EU implements the **Paris Agreement**  
on Climate Change



Adopting and implementing the **Energy Union and Climate Change** proposals



Implementing the **Strategy on**  
low-emission mobility



Accelerating **clean energy innovation**  
and **global competitiveness**



Working on **sustainable finance** and  
investments



Strengthening the **EU's enabling**  
**environment** for the transition to a clean  
economy



European  
Commission

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