ENERGY UNION AND CLIMATE ACTION
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

Energy Union and Climate Action

Investment Plan
Attracting additional investments

Capital Markets Union
Triggering sustainable finance for the clean economy

Innovation
Bringing new technologies from research to market

Skills Agenda
Adapting the workforce

Digital Single Market
Empowering citizens and consumers

Circular Economy
Achieving a resource efficient, low-carbon economy

#EnergyUnion
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

- Energy Efficiency first
- Energy security, solidarity and trust
- A fully integrated energy market
- Decarbonising the economy
- Research, Innovation and Competitiveness
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
DELEVERING ON SECURITY, SOLIDARITY AND TRUST

**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*
TRANSMITION TO A CLEAN ECONOMY

CLEAN ENERGY IS THE GROWTH OF TOMORROW

- **€ 143 billion**: EU’s renewable energy sector created in 2014 an annual turnover of around 143.6 billion EUR. 
  
  Source: EurObserv’ER

- **40%**: EU companies have a share of 40% of all patents for renewable technologies.
  
  Source: European Parliamentary Research Service

- **2.4M + 4.0M**: 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
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

PARIS2015
UN CLIMATE CHANGE CONFERENCE
COP21 CMP11

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## ENERGY UNION AND CLIMATE ACTION

### 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%

<table>
<thead>
<tr>
<th>Year</th>
<th>2020</th>
<th>2030</th>
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<tbody>
<tr>
<td>CO₂</td>
<td>-20%</td>
<td>-40%</td>
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(Compared to 1990)

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

<table>
<thead>
<tr>
<th>Year</th>
<th>2020</th>
<th>2030</th>
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<tr>
<td>%</td>
<td>20%</td>
<td>27%</td>
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#### IMPROVE ENERGY EFFICIENCY BY AT LEAST 27%

<table>
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</thead>
<tbody>
<tr>
<td>%</td>
<td>+20%</td>
<td>+27%</td>
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(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

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

Clean fuels and renewable energy

Smart grids and infrastructure

More efficient transport systems

MOBILITY STRATEGY
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
ENERGY UNION AND CLIMATE ACTION

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