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The Energy Union Package - Energy Efficiency

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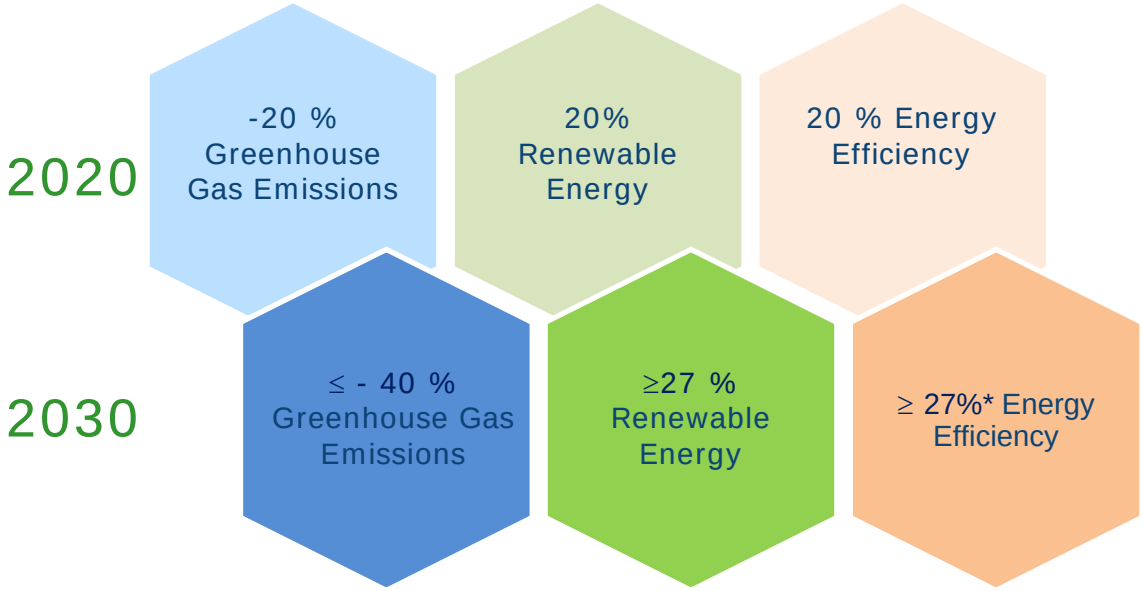
Agenda

1. Introduction and Context
2. Objectives of the Clean Energy for all Package
3. Proposals on Renewable Energy, Market Design and a Governance Structure for the Energy Union
4. Energy Efficiency Directive
5. Energy Performance of Buildings Directive

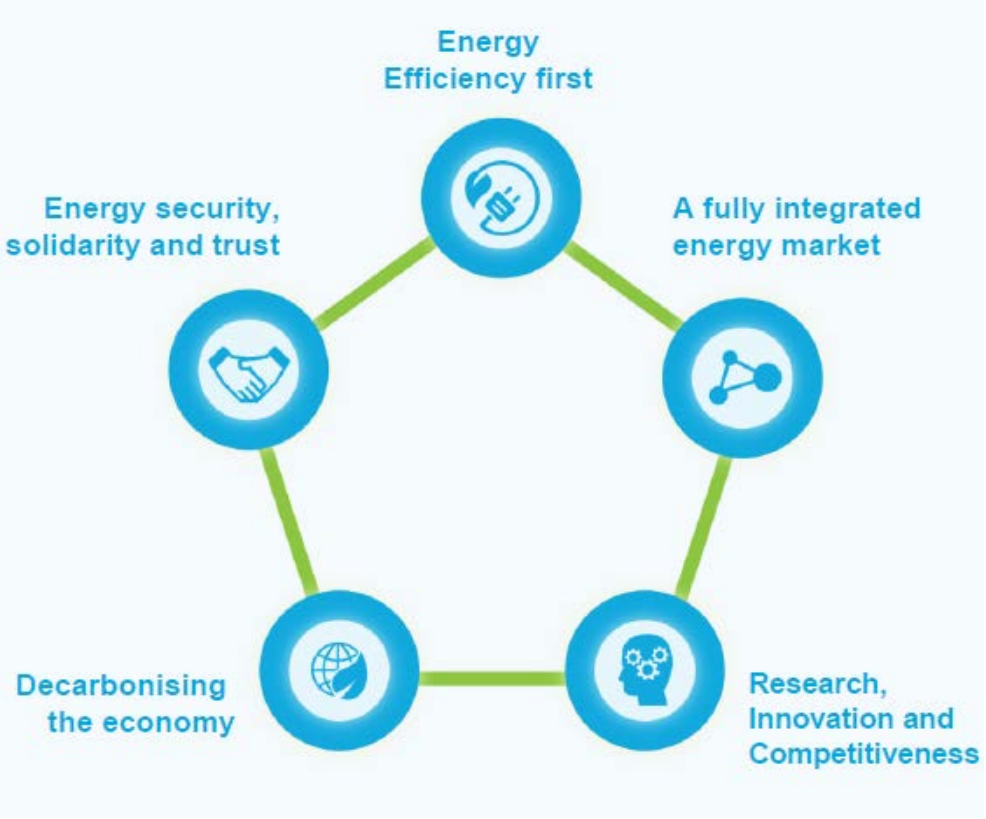
1. Introduction and Context – the 2030-targets

October 2014: European Council Agreement on Climate and Energy objectives 2030

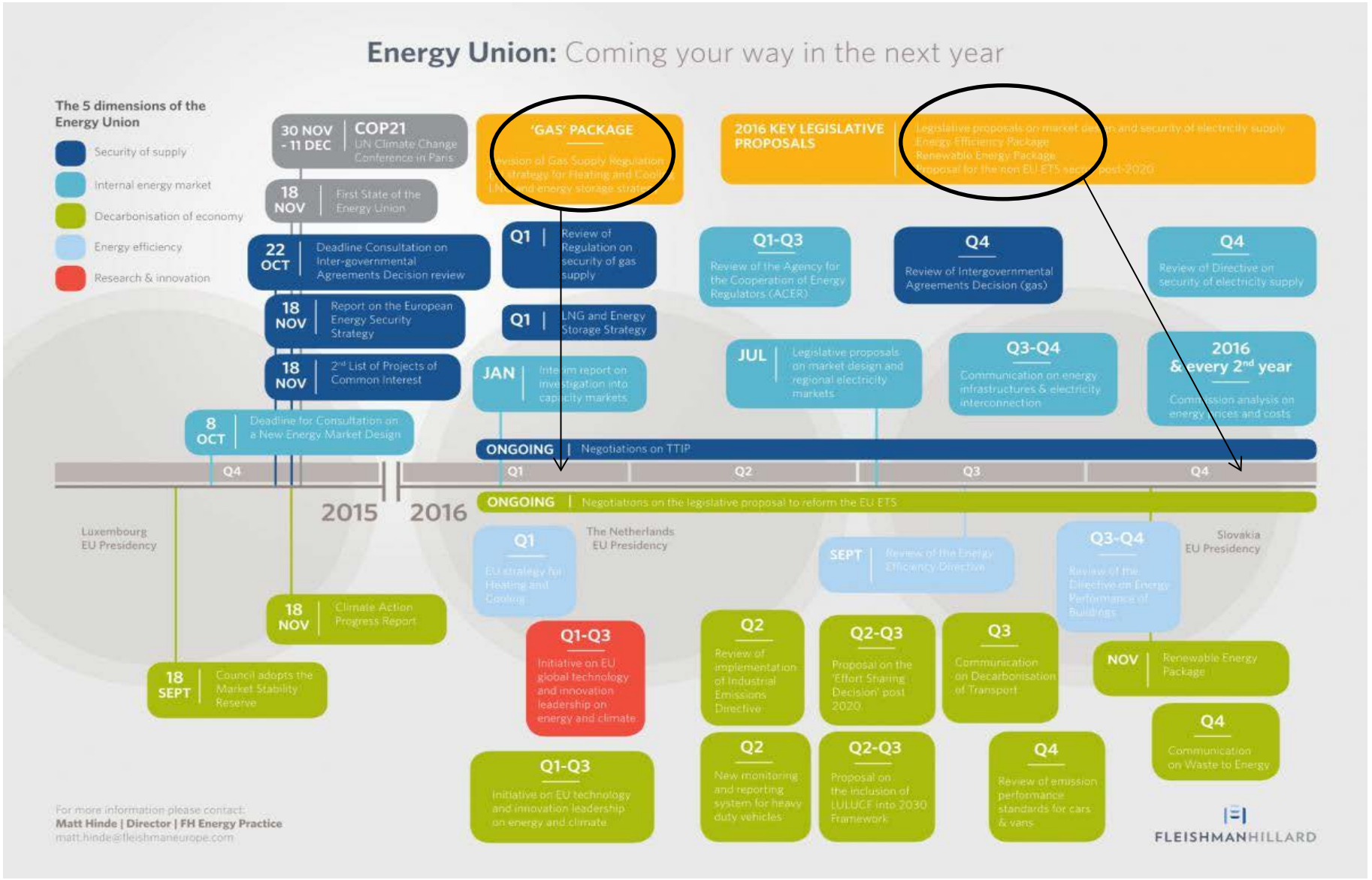


1. Introduction and Context – the Energy Union

AN ENERGY UNION BASED ON 5 MUTUALLY SUPPORTIVE AND INTERLINKED DIMENSIONS



1. Introduction and context

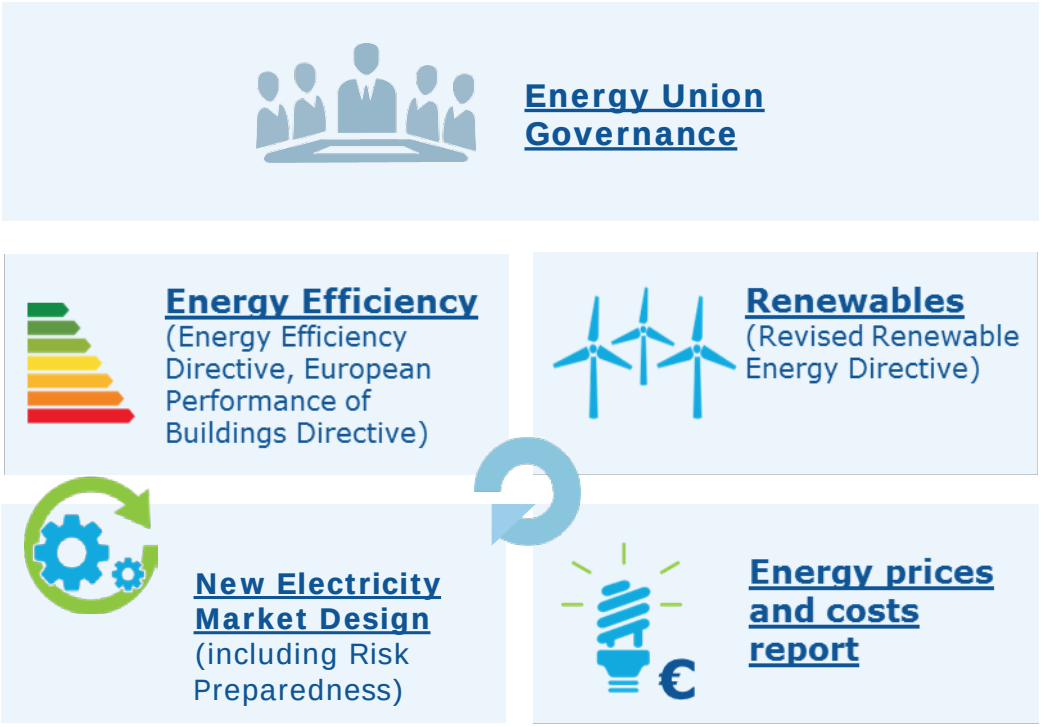


2. Objectives of The Clean Energy Package

THE RIGHT REGULATORY FRAMEWORK FOR POST – 2020

" In essence the new package is about tapping our green growth potential across the board"

Commissioner Miguel Arias Cañete (2016)



3. Renewable Energy Directive – Main Objectives

3. A New Market Design

A FAIR DEAL FOR CONSUMERS

BETTER INFORMED

- Access to fit-for-purpose smart meters
- Certified price comparison tool
- Clearer energy bills

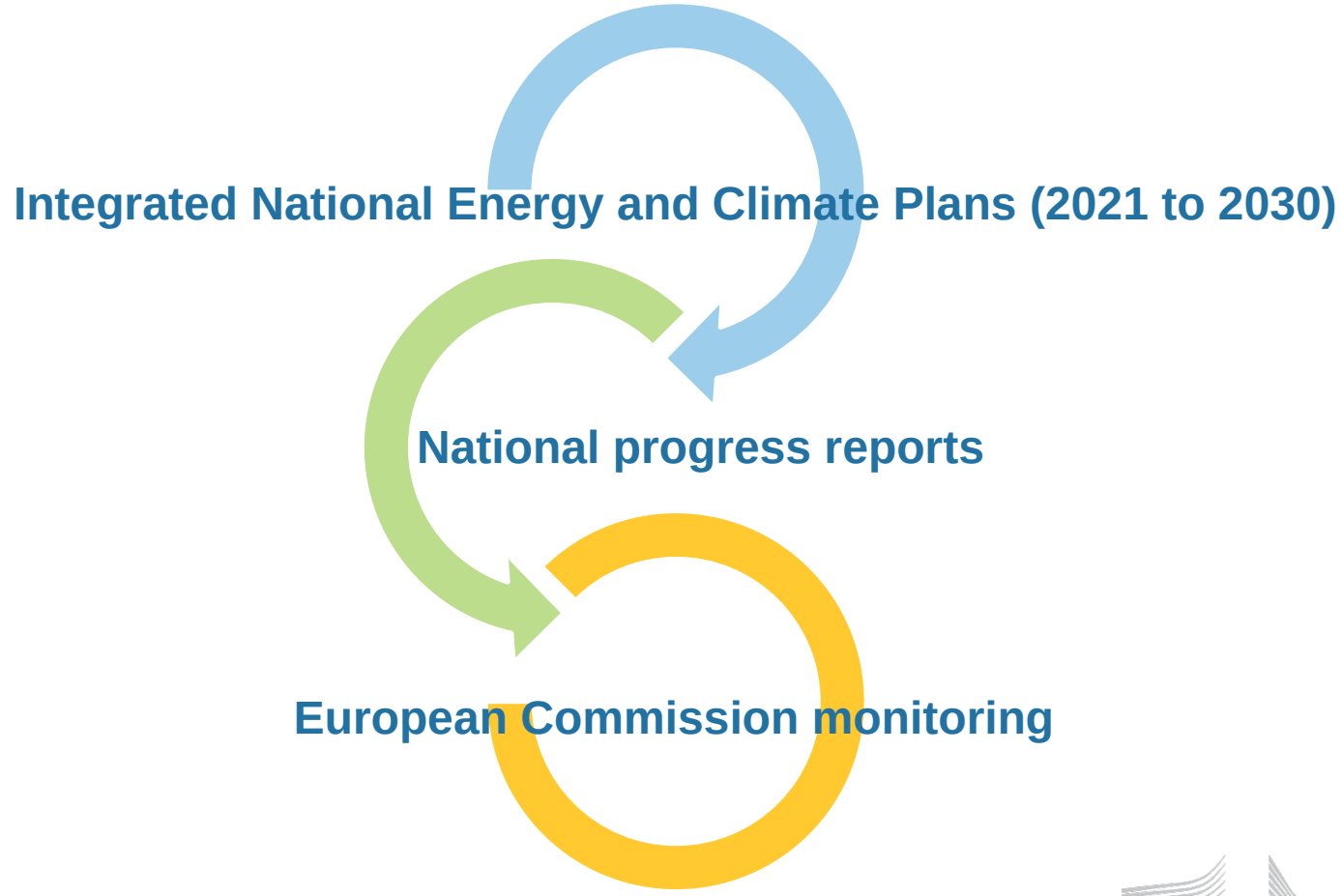
EMPOWERED

- Entitle individuals and communities to generate electricity and to consume, store or sell it back to the market
- Easier switching conditions
- Reward demand-response

PROTECTED

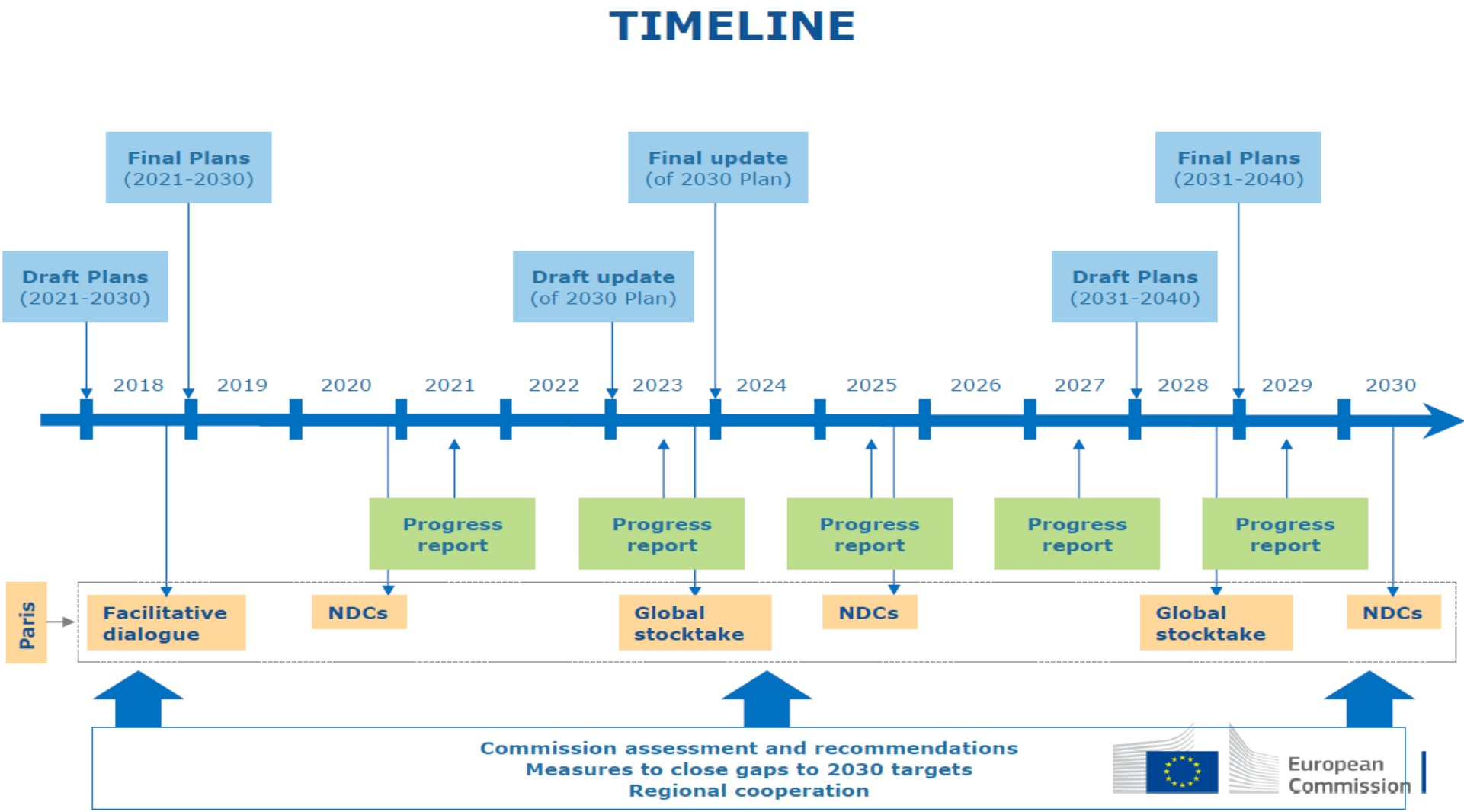
- Monitoring of energy poverty (governance)
- Information on alternatives to disconnection
- Secured electricity supplies
- Sound data management

3. A Governance Structure for the Energy Union



European Commission

3. A Governance Structure – The Timeline



4. Energy Efficiency

ACHIEVING THE BINDING 30% ENERGY EFFICIENCY TARGET BY 2030

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.

Energy Performance of Buildings

- Clear vision for a decarbonised building stock by 2050;
- 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.

Ecodesign Working Plan
2016-2019

- List of new product groups;
- Outline on how ecodesign will contribute to circular economy objectives;
- Specific measures on air conditioning;
- Guidelines on voluntary agreements.

4. The Energy Efficiency Direcitve – the 30 % Target

What are the positive impacts compared to a 27% target?

SUSTAINABLE GROWTH

Increase in GDP of around 0.4% (€70 billion)

Creation of 400,000 more jobs

Reduction in pollution control costs & health damage costs by €4.5 – 8.3 billion

SAVINGS

Lower electricity price for households and energy intensive industries

NOW (b.a.u.)	27 %	30 %
158€ MWh	161€ MWh	157€ MWh

Security of supply: avoided oil & gas imports = €70 billion

Decarbonisation is cheaper in the long run (2021-2050): **€9 billion/year less**

Extending existing energy saving obligations beyond 2020 **(1.5%/year)**

- Attracting private investment for energy efficiency renovations

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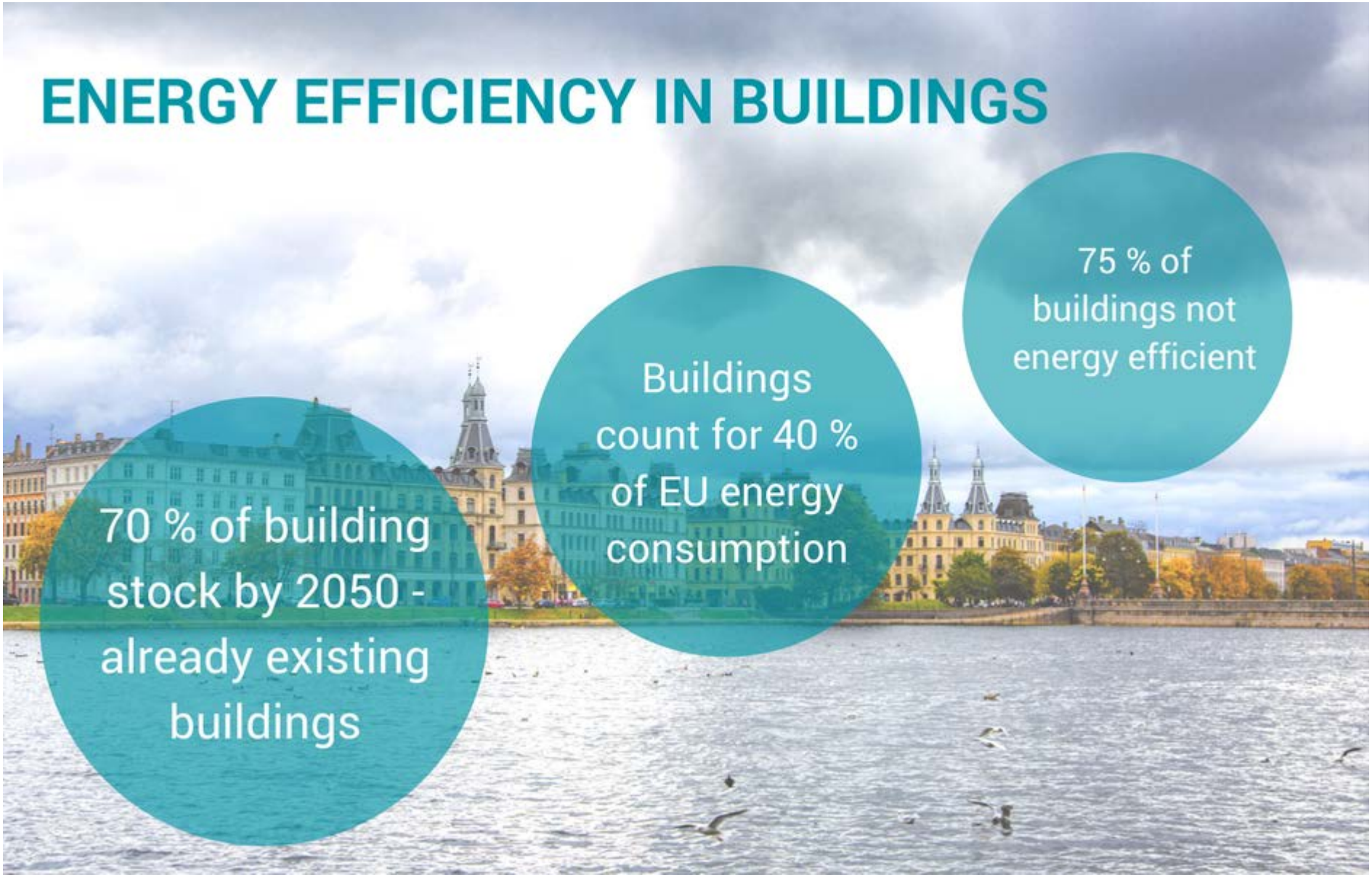
ENERGY EFFICIENCY IN BUILDINGS
75 % of buildings not energy efficient
Buildings count for 40 % of EU energy consumption
70 % of building stock by 2050 - already existing buildings

5. Energy Performance of Buildings

SMARTER AND MORE SUSTAINABLE BUILDINGS FASTER

- **Smart**
  - To encourage the use of **ICT and smart technologies** ensuring buildings operate efficiently:
    - By introducing **building automation and control systems** as alternative to physical inspections;
    - By encouraging the roll out of the required **infrastructure for e-mobility** (with focus on **large commercial buildings** and excluding public buildings and SMEs);
    - By introducing a **smartness indicator** to assess the technological readiness of the building to interact with the occupants, the grid, while managing itself efficiently
- **Simple**
  - By streamlining **outdated or cumbersome provisions** that have not delivered the expected output

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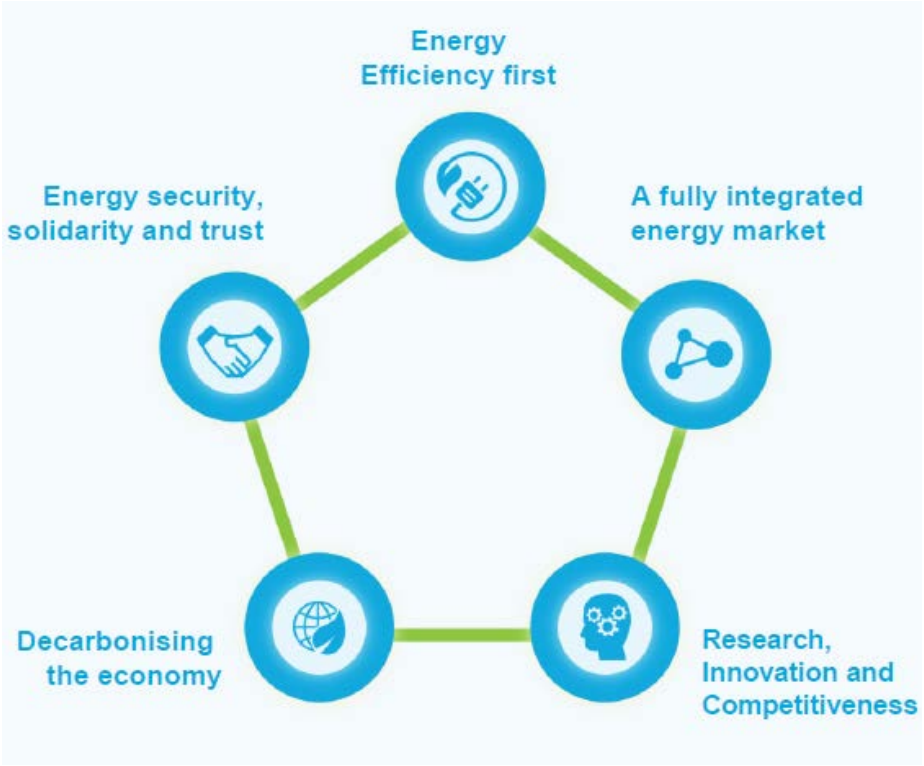

Thank you for your attention