CLEAN ENERGY FOR ALL EUROPEANS

WHAT ARE THE GOALS OF THE CLEAN ENERGY FOR ALL EUROPEANS PACKAGE?

- Putting energy efficiency first
- Demonstrating global leadership in renewables
- Delivering a fair deal for consumers

An opportunity to...

- create jobs & growth
- spur investment
- secure energy supply
- make the market fit for purpose
- bring down GHG emissions
- foster innovation

2 #EnergyUnion
CLEAN ENERGY FOR ALL EUROPEANS PACKAGE

Energy Union Governance

- Energy Efficiency

- Renewables
  - Revised Renewable Energy Directive

- Electricity Market Design
  - Regulation and Directive on internal electricity market; Regulation on risk-preparedness, ACER regulation

Innovative

Inter-connected

Socially fair

Inclusive

Safe for all

Digital

Investment-friendly
Transition towards "3 D" energy system: 
*decarbonised, decentralised, digitalised*

MORE POWER COMING FROM RENEWABLES

- 2014: 29%
- 2030: 50%
ACTIVE CONSUMERS ARE KEY TO DELIVERING A MORE FLEXIBLE ENERGY SYSTEM...

BUILDINGS & SMART APPLIANCES WILL BECOME THE ACTIVE ELEMENTS OF ENERGY SYSTEM

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EMPOWERING CITIZENS AND COMMUNITIES

A EU-LEVEL FRAMEWORK FOR RENEWABLE SELF-CONSUMPTION IN WHICH CITIZENS ARE AT THE CORE

1. Renewable self-consumers to be allowed to generate, store, sell and consume their own electricity

2. Renewable self-consumers in multifamily houses to be allowed to generate, store, sell and consume their electricity jointly

3. No disproportionate procedures and charges that are not reflective

4. Specific provisions for energy communities
Preparing the ground for smarter homes & buildings

Revision of the Energy Performance of Building Directive (EPBD)

new article 8(6) proposes introducing **Smartness Indicator (SI)** for buildings.
- Will characterize the ability of a building to manage itself,
- To interact with its occupants,
- And to take part in demand response and contribute to smooth, safe and optimal operation of connected energy assets.

Progress towards ‘smarter’ building systems can support a more efficient implementation of the EPBD and result in additional benefits for building users, energy consumers and future grids.

The SI will support the uptake of technical innovation in the building sector, where there is a lack of investment despite short payback periods.
Key challenge: flexibility
Key enabler: interoperability

How do we address it?
H2020 2018 IoT call - large scale pilot on Interoperable and smart homes and grids
## 'Digitalisation of the energy' R&D priorities

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<th>Priority</th>
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<td>Multiplication of connected objects (Internet of Things)</td>
<td>Develop the future energy system – increase the digital capacity of the energy sector for the benefit of a system that is able to integrate higher shares of RES and to optimise energy use across the system improving overall energy efficiency</td>
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<td>Exponential increase in generation of energy-related data (Big Data)</td>
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<td>Reliable &amp; Secure energy &amp; telco infrastructure (cybersecurity)</td>
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Registrations open for EUSEW 2017!

See you on 21 of June in Brussels:
http://eusew.eu/digitalisation-energy