





























ENERGY EFFICIENCY IN THE DECADE OF CLIMATE ACTION

HARRY VERHAAR, CHAIR
EUROPEAN ALLIANCE TO SAVE ENERGY (EU-ASE)

ENERGY AND MANAGING AUTHORITIES MEETING 2 DECEMBER

Why ENERGY EFFICIENCY is crucial?

Resources are limited

EE allows us to do more with less

EE is a driver for innovation, growth and jobs

According to the European Commission for every 1% extra energy savings by 2030:

- EU gas imports fall by 4%
- GHG emissions decrease by 0.7%
- Employment increases by 336,000 jobs

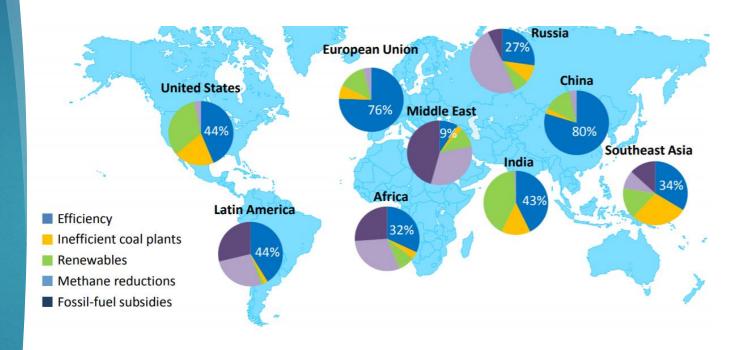
On average 1€ invested in energy efficiency saves
3€ over the lifespan of a technology

EE mitigates climate change

According to IEA, in the EU, to meet the objectives of Paris Agreement, 76% of emissions reductions will need to be achieved through EE measures

Energy efficiency is key to decarbonization

- ▶ Globally, energy efficiency alone can deliver around 50% of the cumulative CO2 savings through 2050 required to meet global climate goals (IEA 2015)
- In EU, 76% of emission reductions to meet Paris objectives will need to come from energy efficiency (<u>IEA 2015</u>)
- Energy efficiency is the most costeffective way to decouple economic growth from emissions
- Despite that:
 - World economy will triple between 2016-2050
 - Global population will increase by nearly 2.3 billion by 2050



Without bold energy efficiency policies, it is impossible to reach the Paris Agreement

Despite energy efficiency policy and targets

Energy consumption has been increasing since 2014...

In 2017: PEC was 5.3% and FEC 3.4% above the 2020 target level

...and in the draft National Energy and Climate Plans (NECPs), there is an energy efficiency gap

6.2 % (if considering primary energy consumption) 6 % (if considering final energy consumption).

We need a prompt and adequate Implementation of the current regulatory framework

Energy Efficiency Directive

- Lays down the EU targets for 2020 (20%) and for 2030 (32.5%) and review clause by 2023
- Establishes a common framework of measures:
 - Exemplary role of public buildings (Art. 5)
 - (0.8% annual savings obligation up to 2030 (Art. 7)
 - Energy audits and energy management systems (Art. 8)
 - Metering and billing (Art. 9-11)

Governance Regulation (NECPs) EU headline targets for 2030

- Introduces the EE First principle in the EU regulatory framework
- Requires members states to draft NECPs

We need to realize the full energy efficiency potential of buildings

Today the buildings are...

responsible for 36% of EU CO2 emissions

represent 49% of Europe's energy demand

...and...

97% of existing buildings are in need of renovation

Building renovation impacts Around 20 million jobs

15 million Construction sector

1.8 million Electric installers

200K Solar industry

92% of companies are SMEs

We need a prompt and adequate Implementation of the Energy Performance of Building Directive

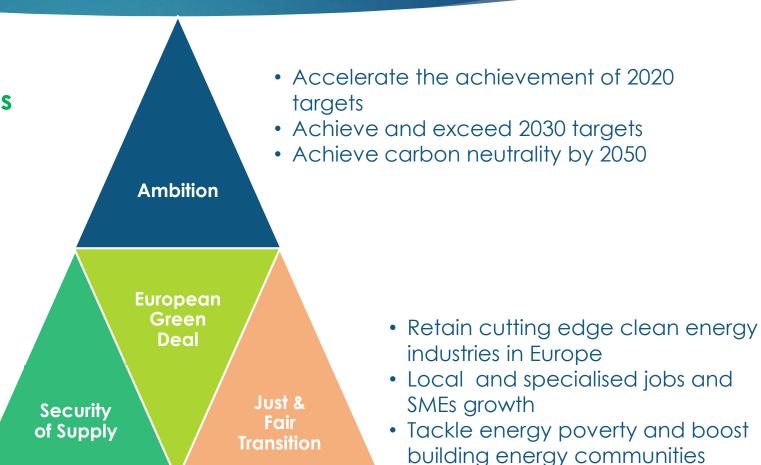
- Renovation: accelerate current low renovation rate (from 1% to 3%)
- Long Term Renovation Strategies: ambitious plans integrating EE1st and consultations with stakeholders
- Digitisation: smart technologies, building integration and flexibility, synergies with renewables and e-charging infrastructure
- Decarbonization: Full decarbonization of the building stock by 2050

What does buildings renovation mean for the EU

A Green Deal for Our Buildings

The European Green Deal

- Reduce EU Energy Consumption
- Increased local renewables supply
- Sectoral integration, increased flexibility ad distributed generation
- Reduction of EU energy imports



What does buildings renovation mean for EU citizens



We need **JUST** transition towards a carbon neutral economy





Citizens must be at center of climate discussions because they are at the heart of a new decentralized energy system

Inputs for European Green Deal



European Green Deal

- Energy Efficiency First: pillar of EU decarbonization package (gas package)
- Flagship initiative on building renovation to accelerate current renovation rate. To include full decarbonization of all buildings of EU institutions by 2030
- Digitalization, sectors integration and systemic approach to energy efficiency

Climate Pact

- Strengthen/launch multi-level energy dialogues
- Involve local, regional and national actors

Just Transition

Assistance to region in transition with training (upskill/reskill) for energy efficiency

How to trigger the necessary private investments for energy efficiency projects?



- EU funds post 2020
 - Climate mainstream of 25% of resource.
 Let's use them for energy efficiency
- New EIB energy lending policy and InvestEU
 - Deliver multiple benefits to citizens, business and the environment by leveraging EIB investments in energy efficiency projects
- Scale up innovative financing mechanisms across the EU
 - ESCOs models, EPCs and accounting rules, green mortgages, fiscal incentives
- Secure certain, stable and long-term regulatory framework for certainty of investments
 - Measures and Targets for 2030 and 2050

TECHNOLOGIES ARE AVAILABLE!





























Let's work together for an energy efficient Europe!

THANK YOU VERY MUCH!