



Harnessing the potential of energy management and district heating in REPowerEU

Valérie Plainemaison, EFIEES



**SUSTAINABLE
ENERGY WEEK**

An initiative of the  European Commission



EFIEES – Who we are

- A European trade association representing more than 100.000 professionals committed to decarbonising our economy on a daily basis in 10 EU Member States.
- Our Members: National associations representing **Energy Service Companies (ESCOs)** in their countries and private companies providing Energy Efficiency Services (EES).

Our members' activities:

- Design and implement **energy performance solutions, such as Energy Performance Contracts (EnPCs)** according to clients' specific needs;
- Proactively **manage the building/asset** of the clients to deliver the expected performance ;
- **Contractually guarantee the results over time** (notably energy and CO2 savings).





Energy Efficiency services: the key to higher energy performance

The objective:

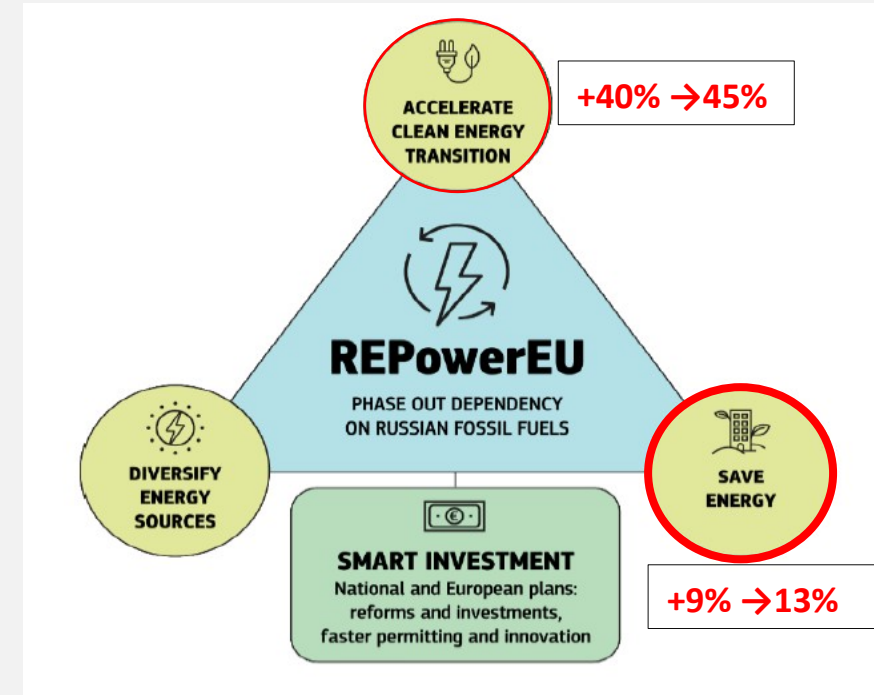
- RePower EU: “**rapidly** reducing our dependence on Russian fossil fuels”
- Buildings: 40% of EU energy consumption, highly carbonized → A **massive renovation effort** needed to improve the energy performance of the buildings.

The challenge:

- Ensure the buy-in of users for immediate **behavioral change** (sobriety)
- Ensure the expected performance of EE actions/investments will effectively be **delivered** and **sustained**

The contribution of energy efficiency services:

- Proactive energy management:
 - Design the optimum solution
 - Check **performance** at **commissioning stage**
 - Maintain and **operate at the optimum efficiency**
 - Effective **demand management** (energy coaching/awareness of users)
- **Guarantee a sustained** (and measured) energy performance: **Energy Performance Contracts**






From Energy performance contracts to Energy and carbon performance contracts

- Energy performance contracts increasingly include commitments on RES or carbon footprint performance.
 - French ESCO Association FEDENE confirms in a survey carried out on 150 EnPC that

44% With 44% of EnPC including a GHG commitment EnPC is a comprehensive answer to lower fossil consumption

- A global solution that offers the optimum between improved efficiency and RES investments:
 - Prioritise EE actions
 - Switch to RES for residual energy consumption
 - **Connection to EDHC**
 - On site RES

49 municipal buildings
Évian (Haute-Savoie)



ENERGY SAVINGS
30 % final energy savings

- 102 energy performance works implemented

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ENVIRONMENTAL PERFORMANCE
40 % CO2 emissions reduction

- Replacement of fuel boilers by small biomass based District Heating Networks



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From Energy and carbon performance contracts to district solution

- At investment stage: necessity to coordinate renovation policies and DHC planning at local level
 - Sizing infrastructure to take into account future energy performance
 - Renovation actions should take into account at investment stage the best conditions for the energy carrier
 - ✓ Physical parameters
 - ✓ Data exchange
- When operating the building:
 - Maintain the appropriate parameters
 - Load management and pick-shaving
 - Temporary interruptibility

Warsaw DHN



Facts:

1 000 buildings connected to BES
(11/2020)

12 %

average reduction of energy
consumption per building



Thank you for your attention

