

WATenERgy CYCLE

Urban water full cycle: from its source to its
end-users and back to the environment

WP6 Transnational Strategy, Policy
Recommendation & Sustainability

Joint Del. 6.3 Energy Recovery Policy Recommendation



PP2 - General Secretariat for Natural Environment and
Water

WP6: Transnational Strategy, Policy Recommendation & Sustainability

- Responsible partners:
 - **PP2 - General Secretariat for Natural Environment and Water**
- Partners involved: ALL
- Budget: 38,628.99€

WP6: Transnational Strategy, Policy Recommendation & Sustainability

- WP6 includes:
 - Water Pricing Policy Recommendation Paper
 - Water Efficiency Policy Recommendation Paper
 - **Energy recovery Policy Recommendation Paper**
 - Transnational Strategy, Policy Recommendation & Sustainability Action Plan

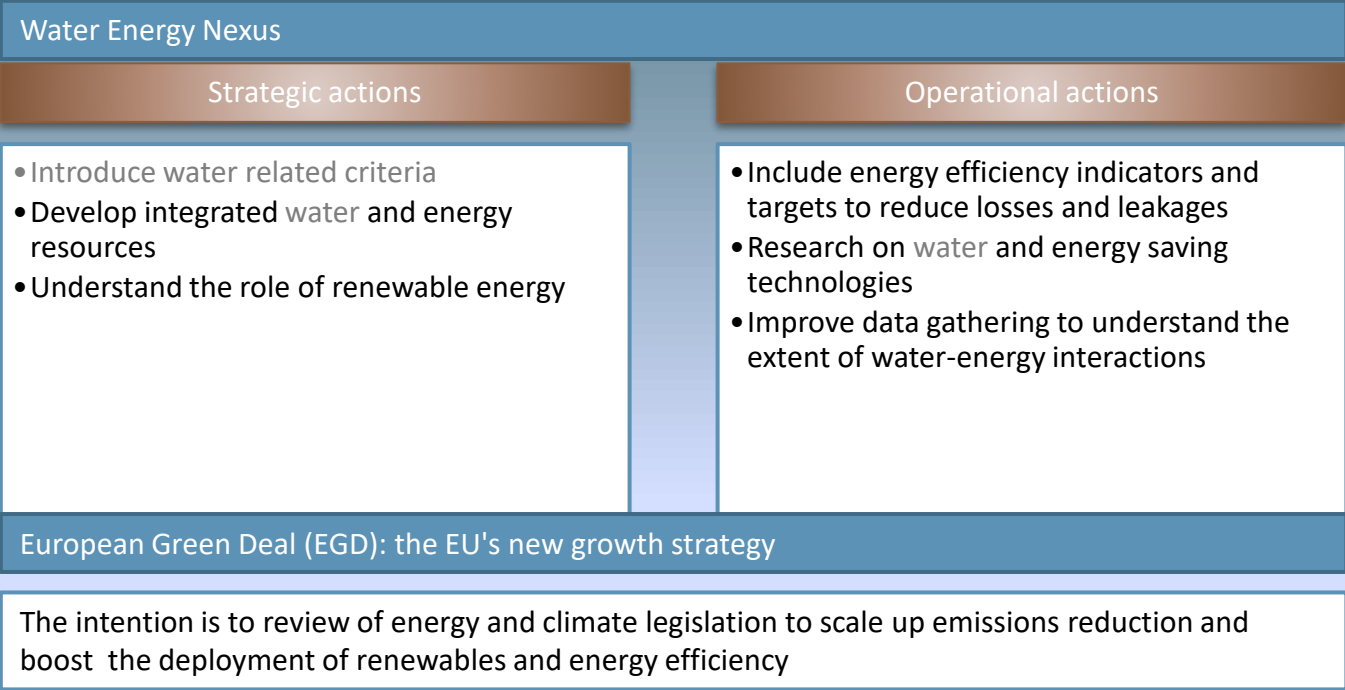


Existing policies on energy efficiency

- *The Energy Efficiency Directive 2012/27/EU* in 2012: This legislation entails a 20% improvement in energy efficiency.
- *The new amending Directive on Energy Efficiency (2018/2002)*: This directive updated some specific provisions from the previous directive while introducing several new elements that set an energy efficiency target of at least 32.5% for 2030.
- 3-year national energy efficiency action plans (*NEEAPs*) of each individual country including annual progress reports that would outline the main drivers regarding the estimated energy consumption, planned energy efficiency measures, long-term renovation strategies, and the improvements that expect to achieve so that they can reach the EU 2020 target of 20%.

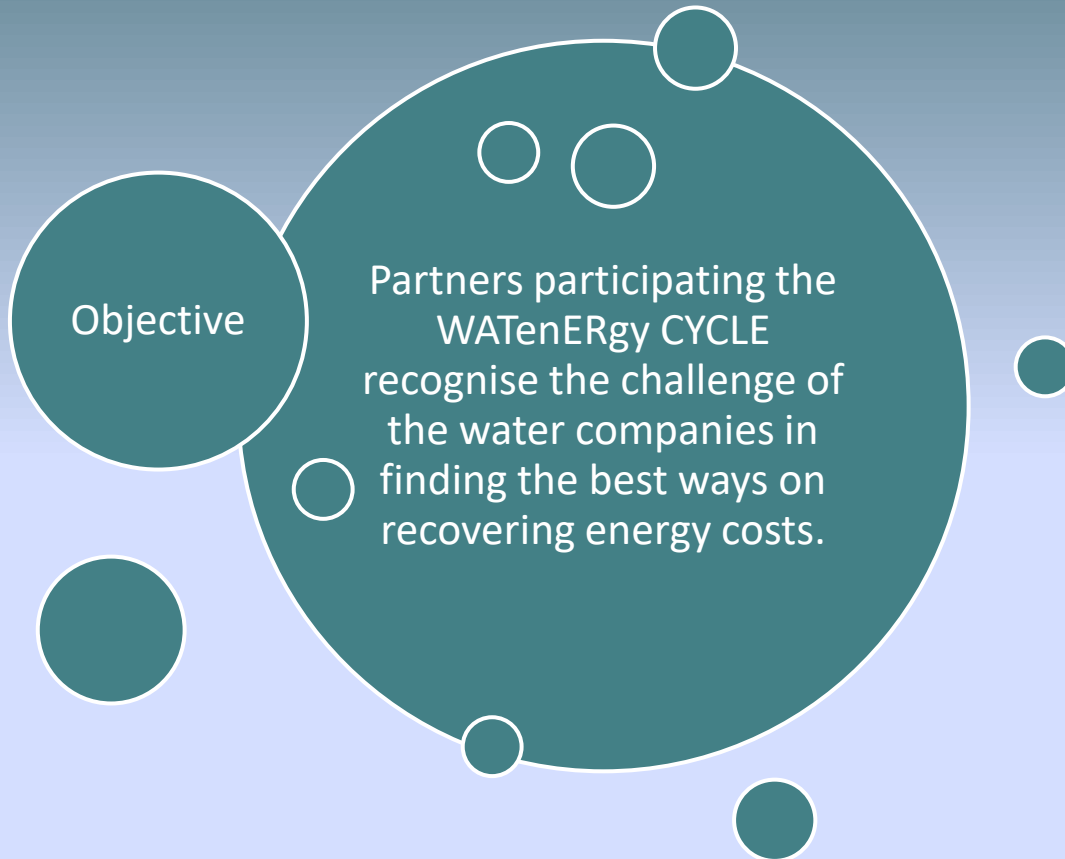
Regarding **Greece**, the program *Intelligent Energy Europe (IEE)* contributes to the European Strategy for Energy 2020 and facilitates the implementation of the European Action Plan for Energy Efficiency and Directive 2009/28/EC on the promotion of the use of Renewable Energy.

Existing policies on energy efficiency





Within WATenERgy CYCLE...

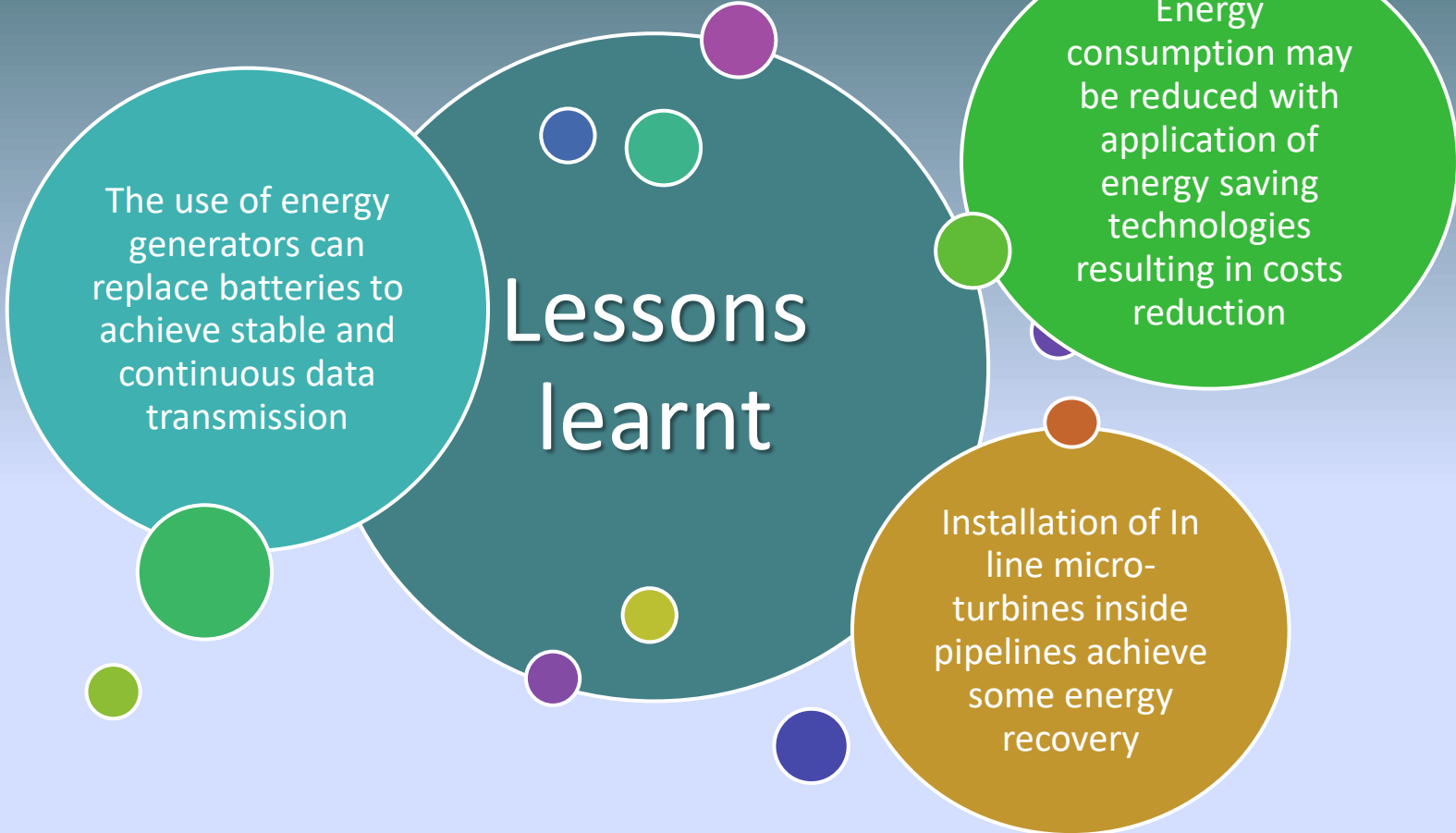


Objective

Partners participating the WATenERgy CYCLE recognise the challenge of the water companies in finding the best ways on recovering energy costs.



Within WATenERgy CYCLE...



Energy Recovery Policy Recommendation



MAIN ASPECTS

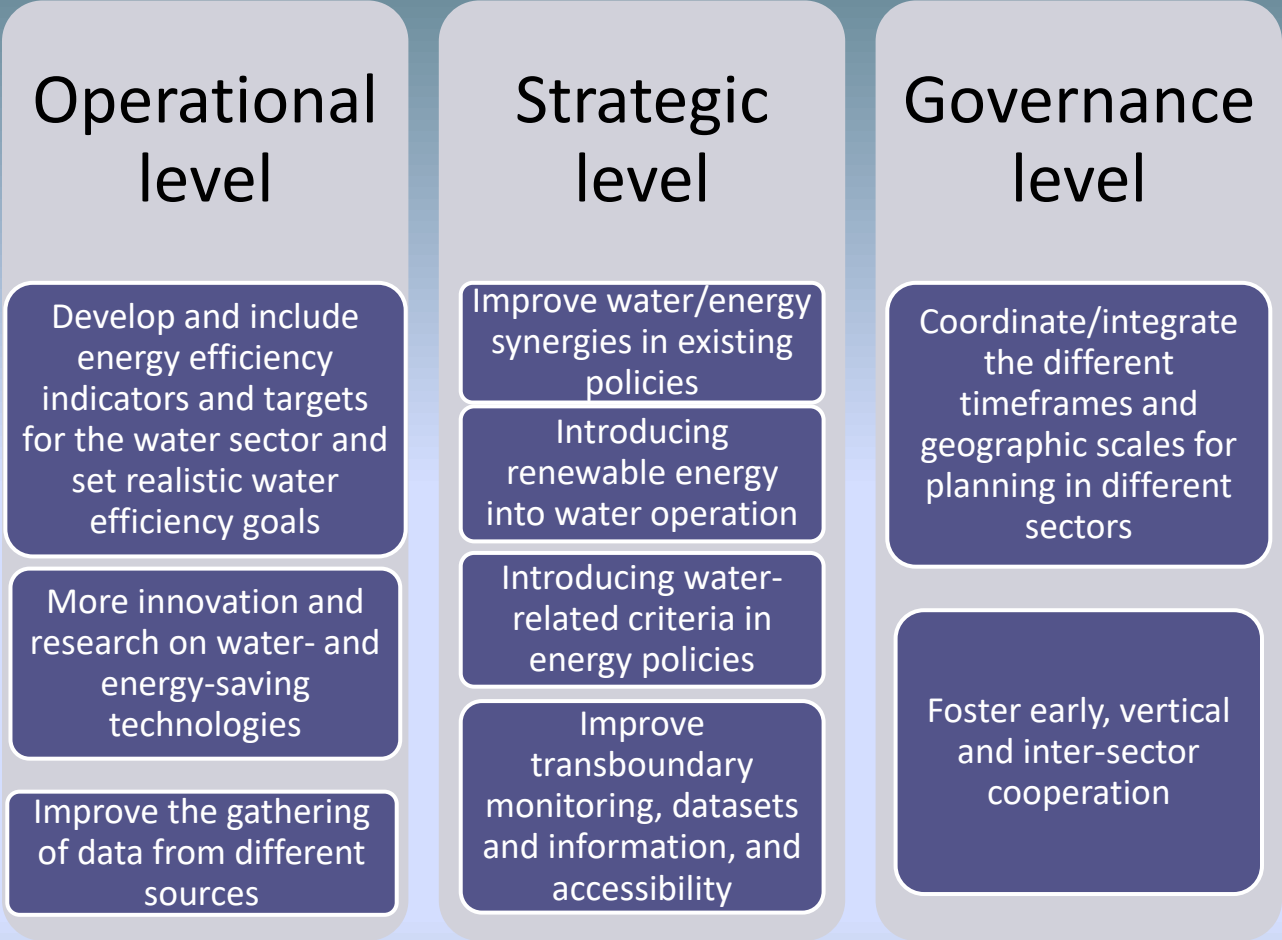
Integrated management of water and energy resources since water and energy interdependence is acknowledged

Further development, and evaluation of the pilot actions outcomes will assist in establishing new knowledge

Definition of specific water efficiency related targets and energy efficiency indicators



Discussing policy recommendations...





A step wise approach...



Goal setting needs to be SMART

WATER

- Percentage of total losses
- Water consumption
- Density of water supply network
- Coverage of water network
- Yearly failures of water network

ENERGY

- Yearly energy consumed per m³ water for water treatment
- Yearly energy consumed per m³ water for water distribution

Policy implementation benefits - challenges



Benefits

- ◆ Common understanding on water efficiency
- ◆ Conserve water resources
- ◆ Lower prices of water to consumers
- ◆ Reduction of energy costs
- ◆ Better regulation of water allocation
- ◆ Reduced risks (e.g. water availability and security)
- ◆ Improve water services to customers
- ◆ Improved likelihood of complying with EU requirements and regional targets



Challenges

- ◆ Evaluating the effects of a policy becomes difficult
- ◆ Sufficient resources may be limited
- ◆ Limited stakeholders' participation
- ◆ Divergent views between stakeholders
- ◆ Lack of understanding and consensus
- ◆ Lack of commitment between parties

Key messages



Join water and energy policies



Share experiences



Upscale implementation



Set SMART goals



Improve data availability



Encourage participation

Synergy policies are the key to unlock implementation of sectoral policies

Policy>

<Politics