



# Equitable Access to Water and Sanitation

Energy-Water-Food Nexus: How energy and water efficiency can contribute to equitable WASH access

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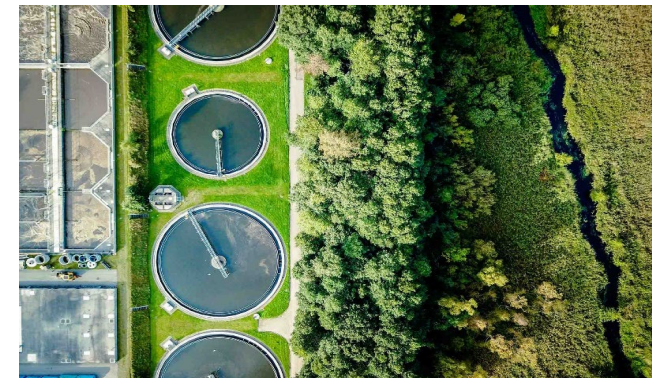
# Who we are

- ~ **European Federation of Water Services** (1975)
- ~ **35** national associations of **drinking water and waste water operators** from **30** European countries
- ~ **70,000** operators
- ~ Realising the **human right** to **water and sanitation**
- ~ Protecting **public health** and the **environment**

New member:  
Ukraine



6 CLEAN WATER AND SANITATION





Energy crisis

Construction costs

Supply chain issues

Extra treatment

**Human right to WASH**

- Availability
- **Accessibility**
- Acceptability
- **Affordability**
- **Quality/safety**



**Investment needs**

Maintenance

Leakage

New connections

Energy efficiency

Energy- & climate neutrality

Renewable energy

Water reuse

Food production

Resource recovery

Climate change

More pollutants

Cost recovery?

3Ts?

'Political' tariffs?

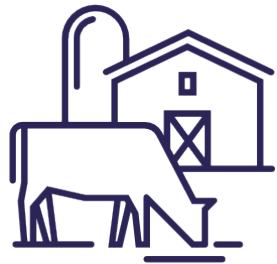
Polluter pays?

Obligation to connect?

# FOOD

## Circular economy:

- Reclaimed water
- Recovered P, N, C
- Additional costs



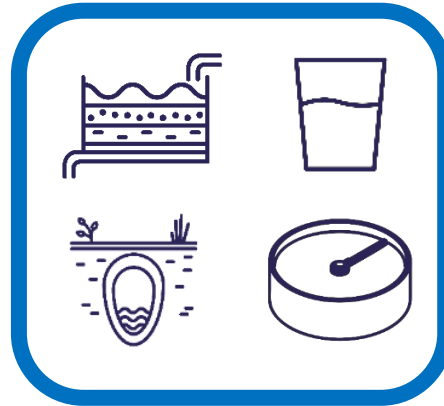
Abstraction

## Pesticides, Nitrate:

- Additional costs
- More energy



# Water operator



# ENERGY

## Energy needs:

- Important energy user
- More treatment -> more energy



## Energy generation:

- Biogas
- Power, heat



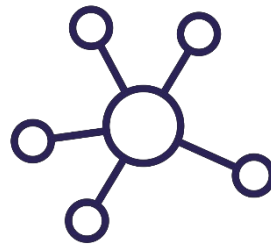
## Energy efficiency

Pollution control at source

Priority for DW supply

Quality requirements

Market for recovered nutrients / reclaimed water



Accessibility  
Affordability  
Quality/safety

Energy efficiency/Renewables

Access to energy market

Leakage reduction

Pollution control at source

# Conclusions

## Water services

- ~ strive to realise SDG6
- ~ depend on non-contaminated water resources
- ~ can supply nutrients and reclaimed water to agriculture
- ~ are big energy users but can become energy-neutral/positive

- **Ensure full cost recovery (add 'polluter-pays' to 3Ts)**
  - Include investment costs (connecting people, energy, resource recovery, leakage)
  - Ensure affordability through 3Ts/polluter-pays and social policy
- **Avoid pollution at the source to**
  - minimise energy and resource use
  - maintain affordability and
  - enable nutrient and water recycling

# Thank you for your attention

## Questions?

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