MES

Minewater Energy systems

What challenge or problem are you addressing? What is the need for the project?

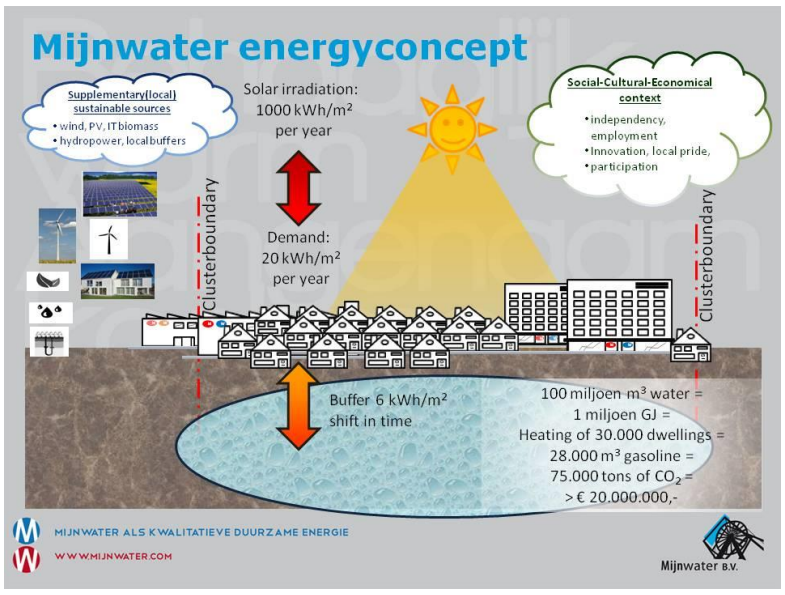
Approx 5-10 % of EU citizens live on former mines. These are filled with ground water and can be utilized as thermal storage reservoirs. In urban environment waste heat and solar gains are available, but support does not match demand. Large amounts of energy have to be stored to heat buildings and DHW during winter. Minewater reservoirs are a financial attractive opportunity for this goal. Combined with heat pumps in buildings the reservoirs avoid peaks on the electricity grid.

Objective of the project: What your project wants to achieve/change

To build knowledge on and demonstrate the possibilities of storing energy in abandoned mines. Moreover establish a range of showcases where stored energy is fed into LT urban DHC grids.

Why do you need transnational cooperation?

The investments and product development costs are high. These urban grids with large volume storage need a big market to become competitive to conventional solutions. Specific for utilizing mine reservoirs transnational cooperation is needed to exploit economies of scale.



What kind or partners are you looking for?

Knowledge Institutes for Education and dissemination;
Municipalities for Legislation and Policies;
Networking Platforms like EGEC and EH&P
Engineering and constructing Financing.

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