



# WATER WIDE WEB

## A Network to store and generate Energy from Water

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Water

### Challenge

Amsterdam and Seoul are both looking at new ways to get energy since there is a **shortage in the renewable energy** when compared to the need for energy.

This means a **new system for energy** is needed where the people live closer to the source.

**Goal** Build an energy network with the stored energies and close to home energy production

### The main Idea

#### Generating energy

- Generators in pipes
- Warmth from sewage

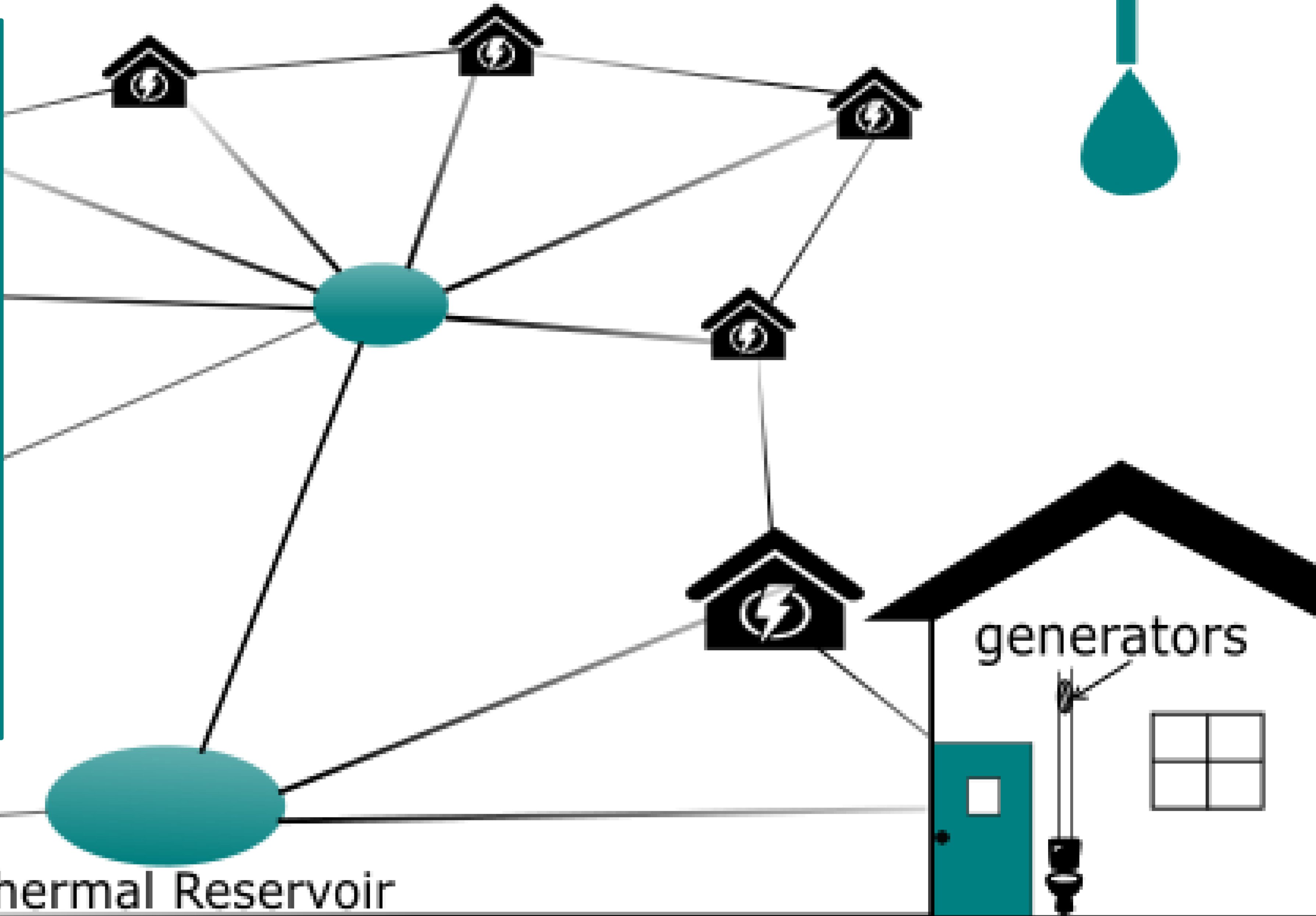
#### Storing energy on different levels

- Warm water tank → Thermal energy
- Batteries inside houses

#### A decentralized network

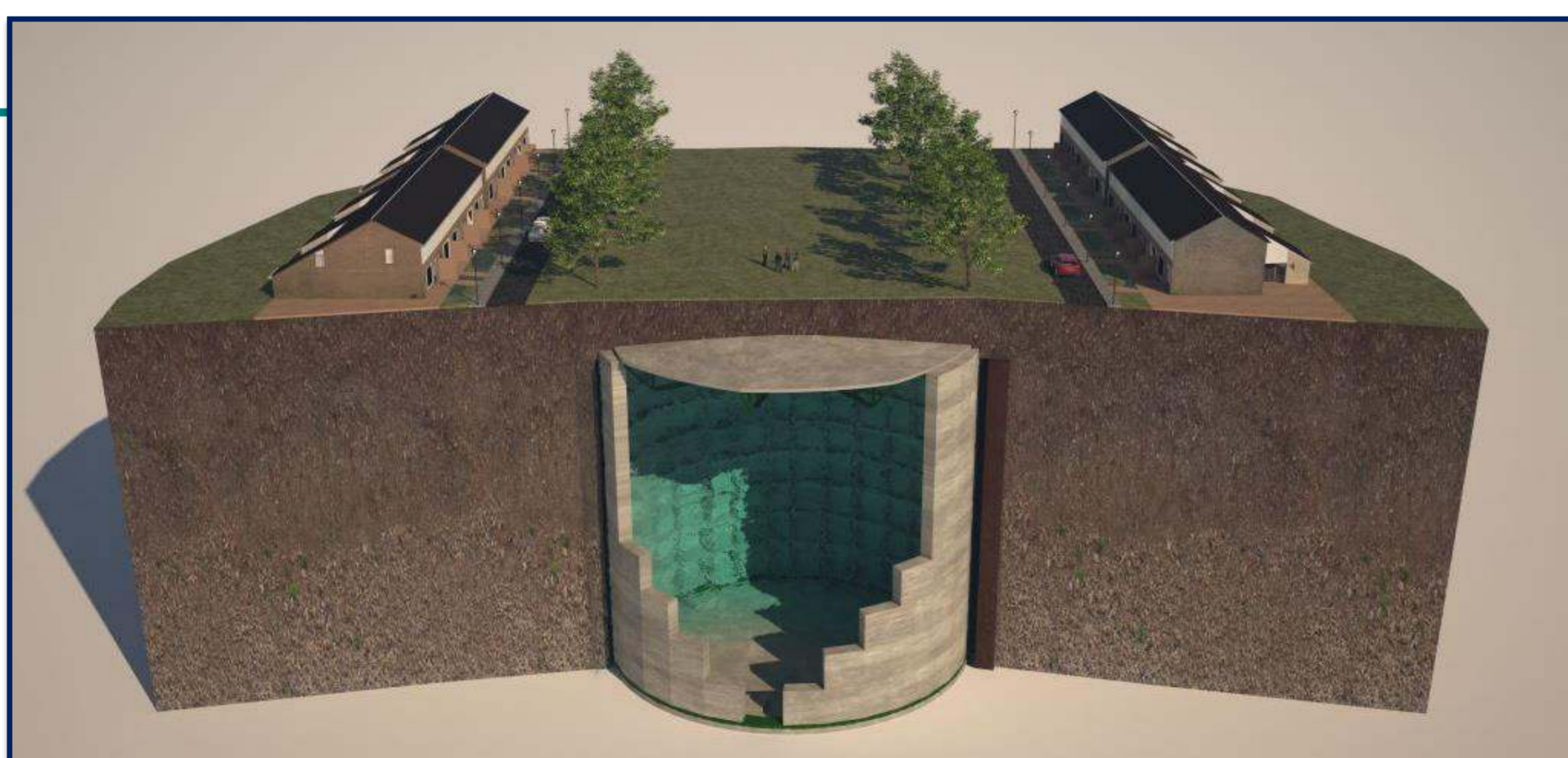
- Houses connected
- Districts connected

#### Implementation in new neighborhoods



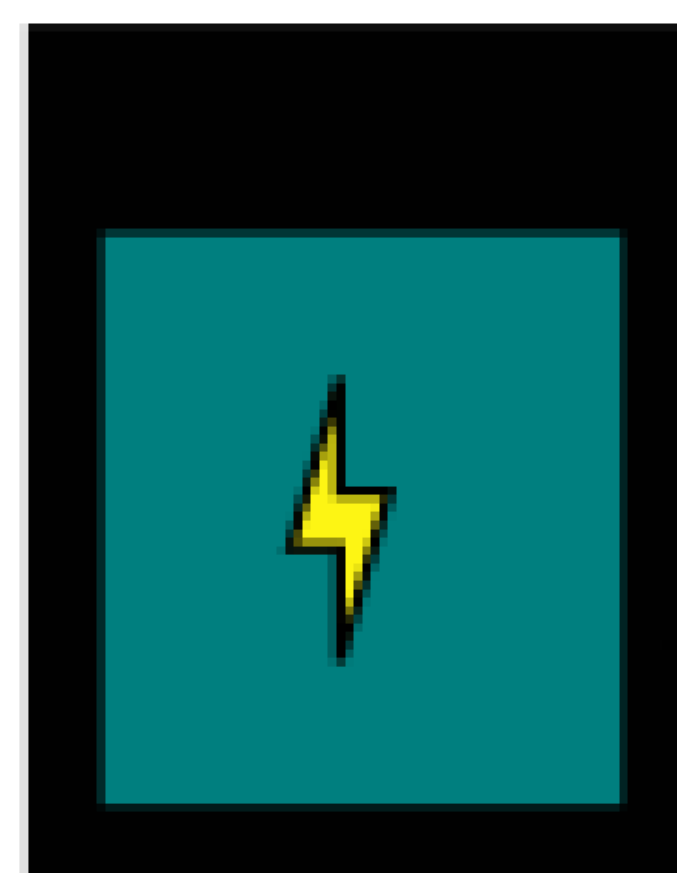
### Two types of Storage

- **Electricity can be stored** in batteries inside houses
- **Heat can be stored** up to 6 months with more than 90% efficiency  
→ Technology by Ecovat



### Advantages

- All participant will have **reduced cost of energy**
- **Less area necessary** for producing electricity
- Technologies already exist  
→ **Feasible** to implement immediately
- **Efficient** distribution of energy
- **Stable & robust** supply of energy

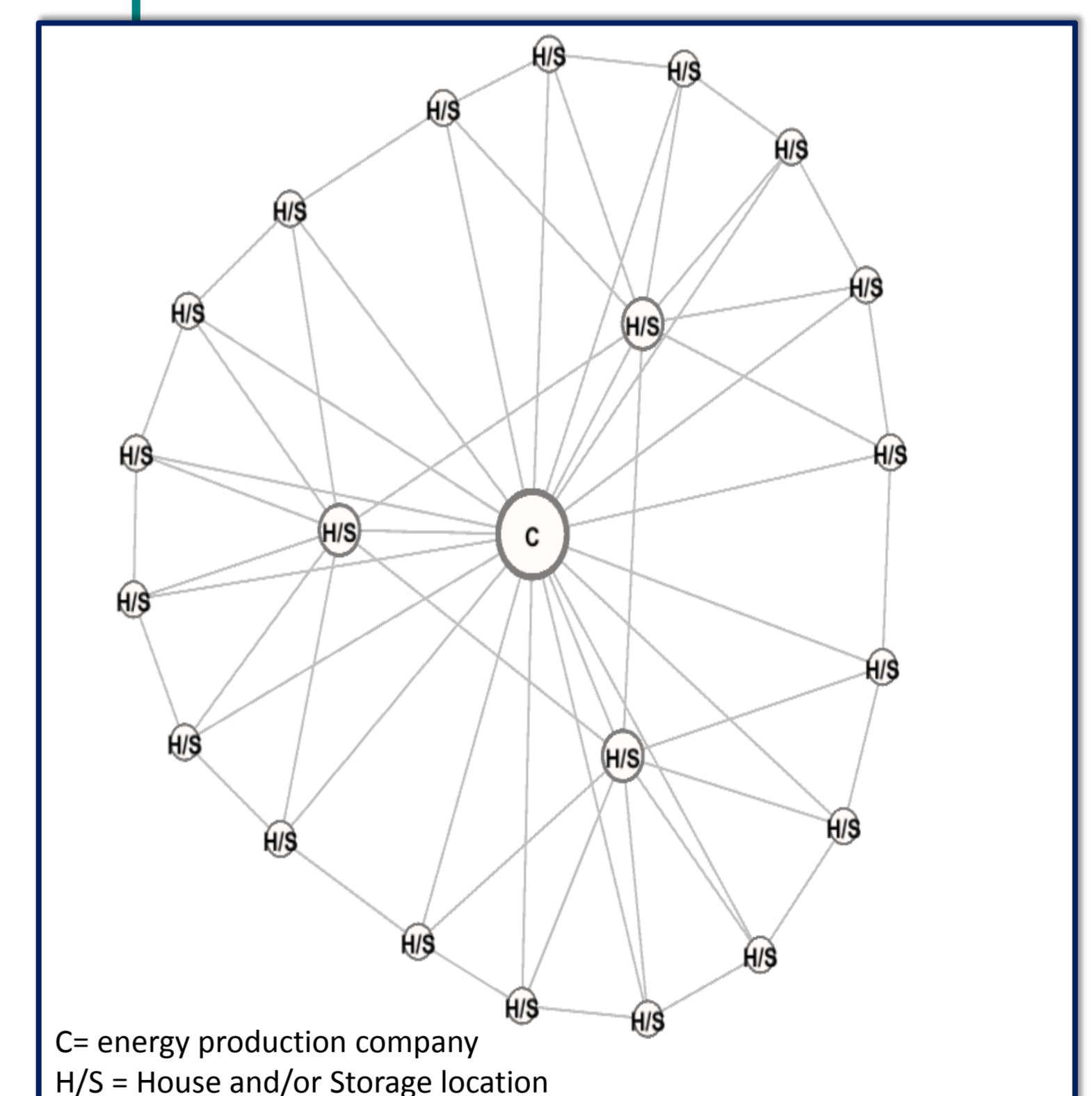


### Generating Energy

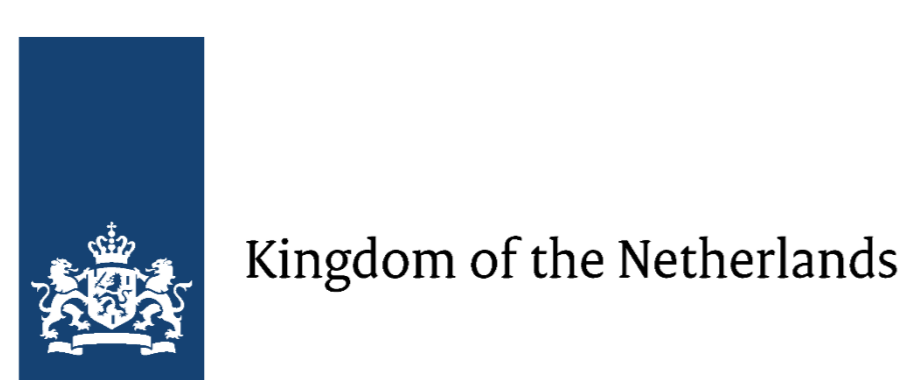
- **Generators** in underground **pipes** and supply pipes in the house
- **Using the warmth** of the sewage system for **electricity**  
→ Technology by Sharc Energy Systems  
→ No costs with heat agreement

### Network

- **Decentralized** energy network  
→ efficient, stable and robust supply of energy
- **Share and store the energy** left over after production.
- **Reduce the cost** of energy use through energy sharing
- Get the benefit from **energy trading**



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