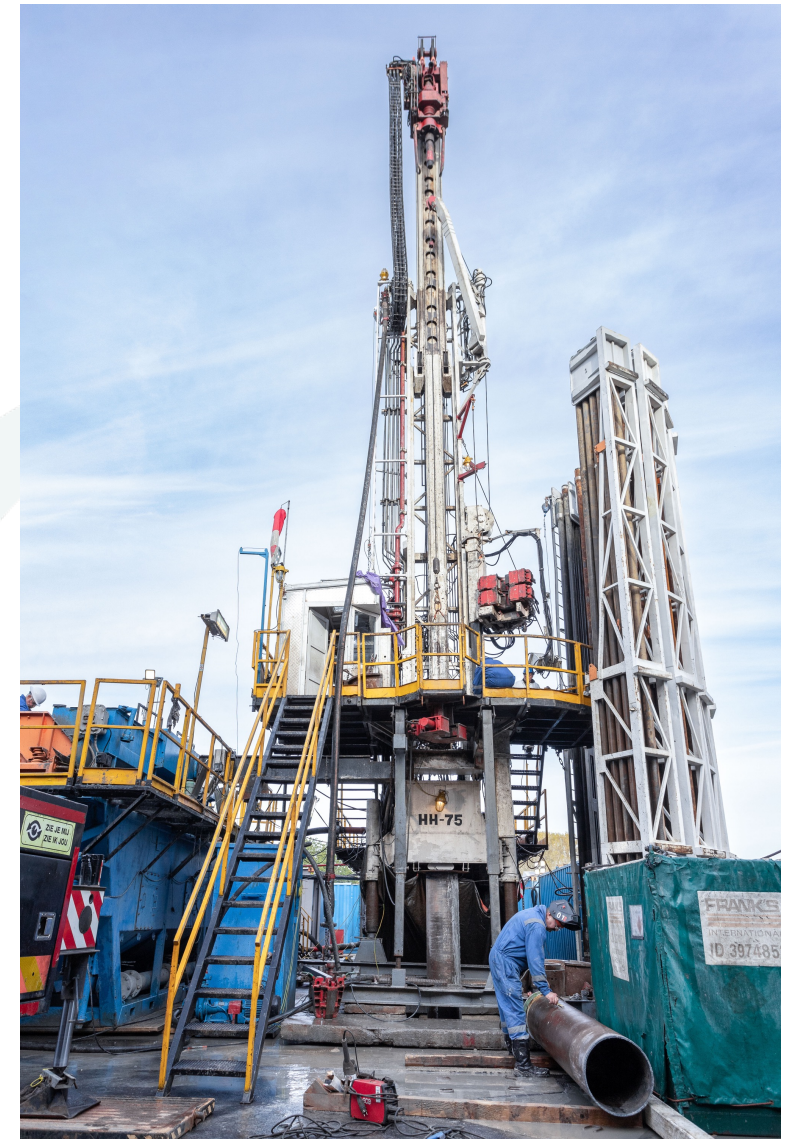


# Masterplan '23 – '30

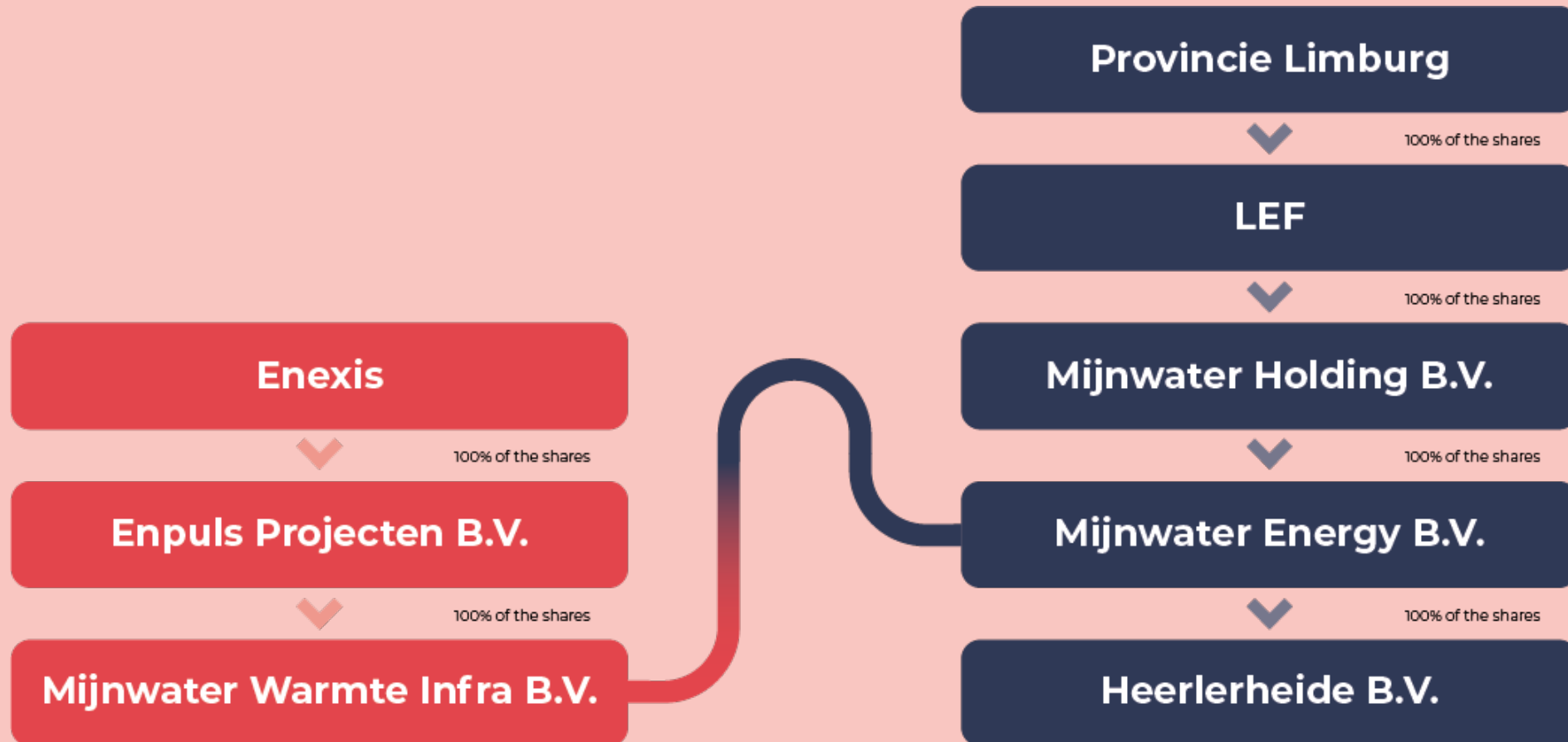
# Agenda





**mijnwater**

# Governance

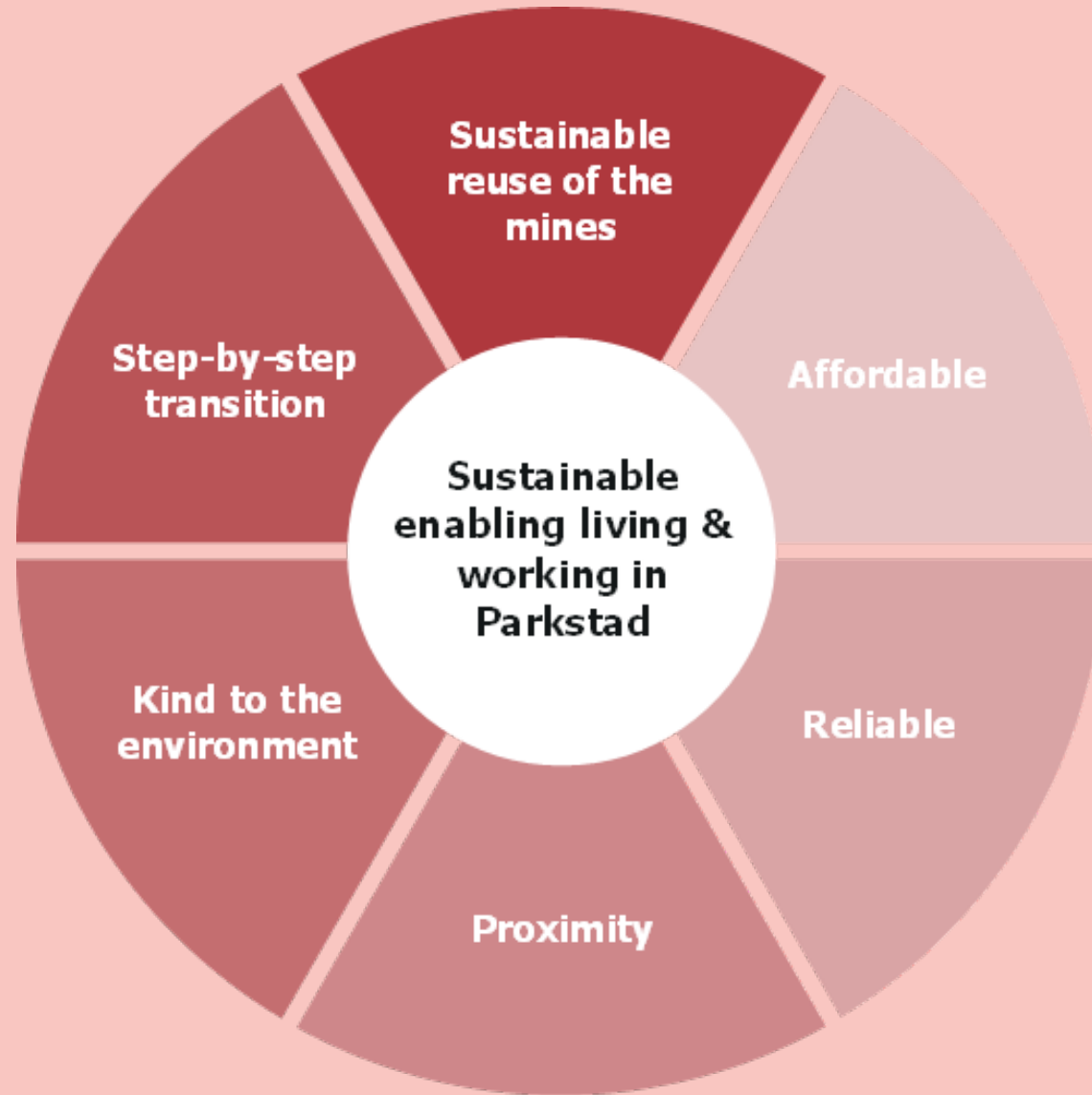


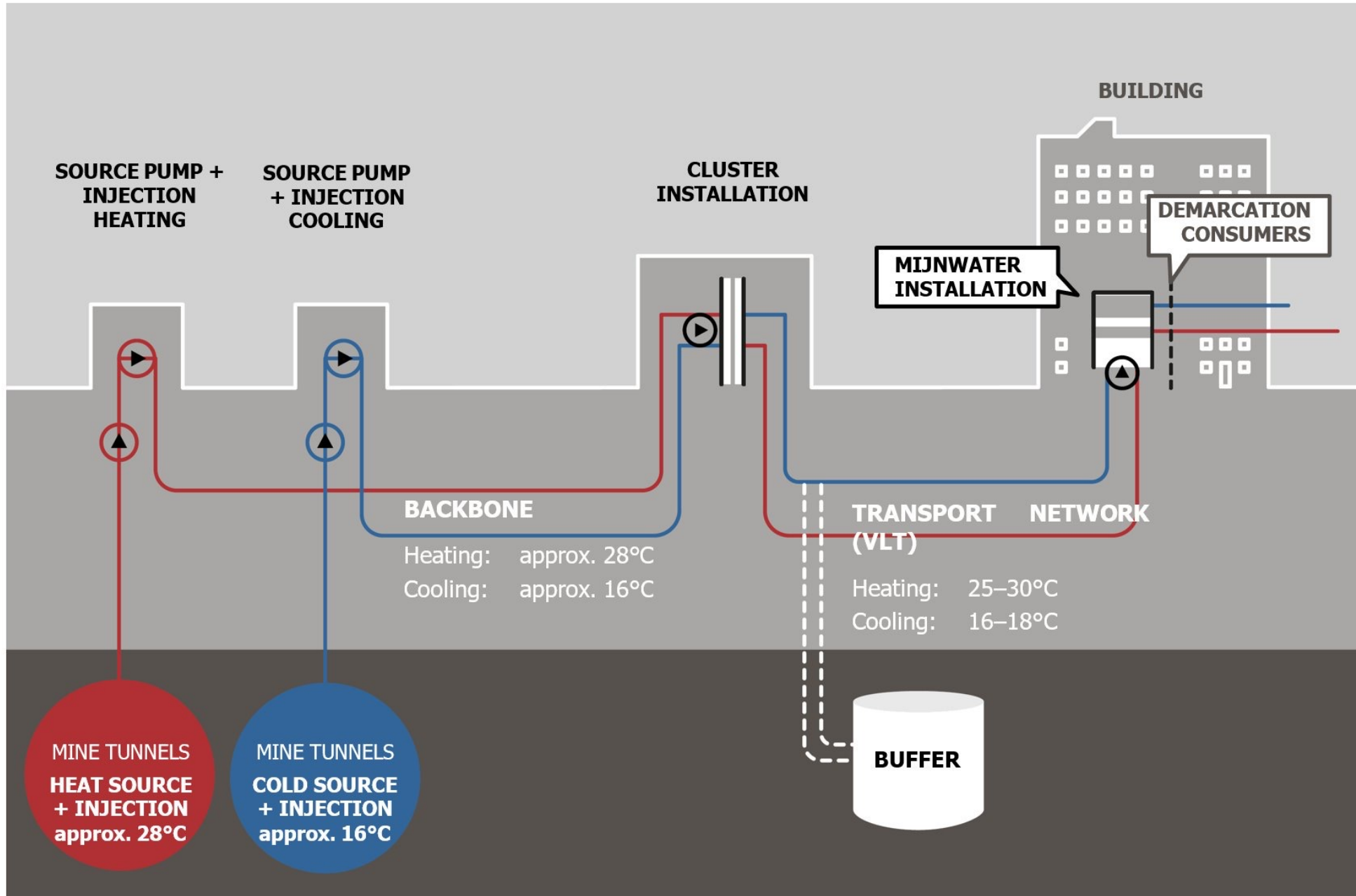
# Historical context

- Coal mining until 1974
- Mine shafts filled with groundwater
- Natural heating
- Deep-seated water – warm
- High-seated water – cool
  
- 2003-2004: Investigation into low-temperature sources in coal basins
- 2005-2007: Drilling of five sources
- 2008: Establishment of the first Mine Water Energy Plant (Gen Coel) in Heerlerheide
- 2012: Further development into an energy exchange network (5th generation District Heating & Cooling)
- 2020: Splitting Mijnwater into Mijnwater Energy BV and Mijnwater Warmte Infra BV



# Strategy





# Productportfolio

Product A	Product B	Product C
Source temperature (VLT)	Low temperature (LT)	Medium temperature (MT)
<ul style="list-style-type: none"> <li>▪ Heating around 28°C – capped at 60 W/m<sup>2</sup> building power demand</li> <li>▪ Cooling around 18°C</li> <li>▪ Supply of heating/cooling to customer installation via heat exchanger station</li> </ul>	<ul style="list-style-type: none"> <li>• Heating around 45°C – capped at 60 W/m<sup>2</sup> building power demand</li> <li>• Cooling around 12–18°C</li> <li>• Supply of heating/cooling to Mijnwater's heating and cooling plant via heat exchanger station</li> </ul>	<ul style="list-style-type: none"> <li>▪ Heating around 65°C – capped at 60 W/m<sup>2</sup> building power demand</li> <li>▪ Cooling around 12–18°C</li> <li>▪ Supply of heating/cooling to Mijnwater's heating and cooling plant via heat exchanger station</li> </ul>



# Scaling up

## Current and future network



**EXISTING SITUATION**

- Backbone
- Cluster networks
- Cluster installation
- Heat source
- Cold source

**INTENDED EXPANSION**

- Backbone
- Cluster installation
- Heat source
- Cold source
- Other sources  
(Eliminated in optimized situation)

# Benefits

- Reducing Energy Poverty Contribution
- CO2 Reduction
- Lessening Network Congestion as a Smaller Issue
- Environmentally Friendly
- Infinite Source
- Avoidance of Heat Stress



# Thank you for your attention!

[www.mijnwater.com](http://www.mijnwater.com)