ReUseHeat - excess heat recovery from the data centre in Braunschweig, Germany

Reykjavík, 24.10.2019
• EU H2020; Innovation Action; TRL 8
• 4 years (October 2017-2021)
• 9 countries
• 16 partners
• 5 M Euro
• 4 demonstrators
  - sewage water in Nice
  - metrostation in Berlin
  - hospital in Madrid
  - data centre in Braunschweig

Co-funded by the Horizon 2020 programme of the European Union
District heating in Braunschweig

BS|ENERGY, Veolia’s subsidiary in Braunschweig, Germany:

- District heating since 1924
- Share of the heat market: ca. 45%
- 95.6% heat-generation in CHP plants
- 263 km district heating grid
- Supply of about ca. 56,000 customers
**Project location**

- Planned commercial area
- Energy station, heat pump
- Existing arm of the DHN
- The data centre
- New housing estate

**ReUseHeat** - excess heat recovery from the data centre

**Housing area:** Heinrich der Löwe

**24.10.2019**
Project concept

ReUseHeat - excess heat recovery from the data centre

Combined heat and power plant

DHN

Heat exchanger

CO2-heat pump

Energy station

Residential area

~ 600 housing units
~ 48,000 m² net floor

70°C

Low temperature DHN

40°C

25°C

Cooling water cycle

18°C

Excess heat recovery

~ 12 MWth excess heat available

Data centre

Water to air heat exchanger

Air flow
On-site

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Project results

1,750 MWh/year of waste heat recovered from the data centre

Primary energy savings:

1,284 MWh/a

CO2 emission savings:

304 t CO2/a
Contact info

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