

## TCP on District Heating and Cooling including Combined Heat and Power (DHC TCP)

The DHC TCP conducts research and development as well as policy analysis and international co-operation to increase the market penetration of district heating and cooling systems with low environmental impact.

### Main areas of work

- DHC system technologies
- Transition to low DHC temperatures
- Strategies for increased DHC deployment

### Key activities and accomplishments (2017-2019)

- Effects of loads on asset management of 4th Generation District Heating System
- Mapping the potential of waste heat from open data (MEMPHIS)
- Integrated cost-effective large-scale thermal energy storage for DHC
- Stepwise transition strategy for future district heating systems
- [16<sup>th</sup> International Symposium on District Heating and Cooling](#)



Example of a heat exchanger in the CLIMESPACE "Canada" district cooling production centre in Paris. This unit uses river water from the Seine in the cooling production cycle. (Photo courtesy of John Dulac).

### Priorities and projects (2020 – 2023)

- Decarbonisation and temperature reduction in district heating networks
- Improving the business case of DHC including the integration of prosumers
- Digitalisation – systematic optimisation of DHC in the era of big data

## Multilateral collaborations

- Co-operation with the TCP on Energy in Buildings and Communities (EBC TCP) on the Net Zero Emission Communities project
- Participation in the EBC TCP Working Groups on Cities and Communities
- Hybrid energy systems: a new task-shared annex in collaboration with ISGAN and other TCPs

## Membership



Austria



Belgium



Canada



China



Denmark



Finland



France



Germany



Korea



Norway



Sweden



United Kingdom

- International District Energy Association (IDEA)

## Why should your organisation become a member of the DHC TCP?

District heating and cooling is an integrative and facilitative technology that is relevant to many policy areas and is key to a cost-effective transition towards a sustainable energy system. The DHC TCP works to raise awareness for district heating and cooling as a key energy efficiency and climate change mitigation strategy based on international research.

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