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

- o DHC system technologies
- o Transition to low DHC temperatures
- o 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
- 16th International Symposium on District Heating and Cooling



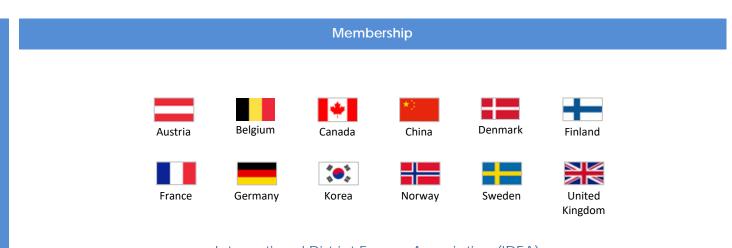
Example of a heat exchanger in the CLIMESPACE "Canada" district cooling production centre in Paris. This unit uses river water from the Seine in the cooling production cycle. (Photo courtesy of John Dulac).

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



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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