The HPT TCP functions as an international framework of co-operation and knowledge exchange for the different stakeholders in the field of heat pumping technologies used for heating, cooling, air-conditioning and refrigeration in buildings, industries, thermal grids and other applications. The mission of the HPT TCP is to accelerate the transformation to an efficient, renewable, clean and secure energy sector in its member countries and beyond through collaboration research, demonstration and data collection and through enabling innovations and deployment in the area of heat pumping technologies.

Main areas of work

- Affordable and competitive heating and cooling technologies
- Flexible, sustainable and clean system solutions using heat pumps with other technologies
- Opportunities offered by developments in digitalisation and the Internet of Things
- New or special markets and applications for heat pumping technologies
- New, alternative or natural refrigerants with low global warming potential

Key activities and accomplishments (2017-2018)

- Heat pumps in smart grids
- Cold climate heat pumps
- Performance indicators for energy efficient supermarket buildings
- Organisation of the 12th Heat Pump Conference, 2017 (triennial event)

Priorities and projects (2019 - 2020)

- Heat pump systems with low global warming potential refrigerants
- Advanced cooling/refrigeration technologies development
- Long-term performance measurement of ground source heat pump systems serving commercial, institutional and multi-family buildings
- Reducing acoustic emissions and further increasing acceptance of heat pumps
- Heat pumps in multi-family buildings
- Design and integration of heat pumps for nearly zero energy buildings

The role of heat pumping technologies in the future energy system (Source: Heat Pump Centre)
## Why should your organisation become a member of the HPT TCP?

Heat pumping technologies play a vital role in achieving the ambitions for a secure, affordable, flexible, high-efficiency and low-carbon energy system for heating, cooling and refrigeration across multiple applications and contexts. The HPT TCP is the key worldwide player in this process by communicating and generating independent international collaboration.

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## Upcoming events

13th Heat Pump Conference, Jeju, Korea: 11-14 May 2020

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**Multilateral collaborations**

- **Comfort and Climate Box:** Joint project with the TCP on Energy Storage and Mission Innovation Challenge on Affordable Heating and Cooling of Buildings (IC 7)
- Strengthened collaboration with international partners including the European Heat Pump Association (EHPA), the International Institute of Refrigeration (IIR), and the European Commission

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**Membership**

Austria | Canada | China | Denmark | Finland | France | Germany | Italy |
---|---|---|---|---|---|---|---|
Japan | Korea | Netherlands | Norway | Sweden | Switzerland | United Kingdom | United States

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