Our Heat Pumps on today’s menu are really good choice” 😊
Czechia is new member of HPT TCP as of 2022!

New member country of HPT TCP
In October Czech Republic formally joined the HPT TCP, and thereby the TCP has 18 member countries. The Czech delegates attended the spring ExCo meeting as invited guests and attended the fall meeting as formal delegates.
Current status of HP technology in CZ

HPs among top 3 RES in country energy mix

About 11 PJ of ambient energy utilized by HPs in 2021 (~1% of final energy use)

Over 200 thous. installations estimated to be put into operation since 2010 (as of end of 2022)
HP energy and installations statistics since 2010

Estimation of ambient energy used by HPs (TJ/year)

Estimation of heat pumps sales by category, 2010-2022
Since start of war in Ukraine...

• Steep increase in number of new HP sales (~ 40 thous. by mid of 2023, ~ 75 thous. in total in 2023 is expected)

• Plans for large increase in capacities of HP manufacturers in CZ (Daikin and Panasonic)
Major HP manufacturers in CZ

- DAIKIN
- Panasonic
- Local HP manufacturers (ACOND, Mastertherm, AC Heating, Mach etc.)

Today in total 150-200 thous. units a year manufactured.

By 2030 as much as 1 mil. units/y may be expected!
Major HP market brands in CZ

- ACOND (CZ manufacturer)
- Mastertherm (CZ manufacturer)
- Mach (CZ manufacturer)
- Stiebel Eltron
- IVT + Bosch
- Nibe + Alpha Innotec
- Viessmann

http://www.avtc.cz/
Subsidy schemes...

Residential sector: Nova zelena usporam (NZU)

Public sector: OPZP 2021-2027

SMEs and large enterprises: OPTAK

District Heating: HEAT (Modernisazion Fund)
Major barriers...

High capital costs (residential HP typical price 10-20 thous. EUR inc. VAT 21 %)

Distribution tariffs (in future maximum power use, not per MWh)

Lack of power capacity in grid (phase-out of coal in Czechia by 2030s)

Long-term investment pay-back period
HPP idea in Prague
~ 180 MW<sub>th</sub>
Invitation to Prague (:)

Industrial Heat Pumps

The Future is Electrified, Get Ready!

International Conference

Interest in Large Heat Pumps Booming Across the Globe.

A major international event dedicated to large heat pump technology is coming to the heart of Europe, Prague. The conference will focus on district heating and include applications up to 200°C as well as sector coupling and accumulation. Part of the heat pump is a high-temperature heat pump, which has the potential to help reach 2050 climate targets, not least because it leverages and central substation of the national grid as a heat source.

This event is an opportunity to hear the latest trends in European innovation.

Keynote Speakers

Dr. Jan Rosenow

Rosenow is one of the world's top 25 energy experts in Europe, having been named to the list by the New York Times, Financial Times, the BBC, Wired, The Times, The Guardian, The Telegraph and Bloomberg, among others. He is Director and Co-Founder of Energy Kenobi, a research institute that specializes in energy policy and economics.

Dr. Cordin Arpagaus

Arpagaus is a leading expert on energy policy and economics, having worked for the United Nations and the European Commission.

Stephen Renz

Renz is an expert on energy policy and economics, having worked for the United Nations and the European Commission.

Uta Wein

Wein is an expert on energy policy and economics, having worked for the United Nations and the European Commission.

Thomas Nowak

Nowak is an expert on energy policy and economics, having worked for the United Nations and the European Commission.

Event Agenda

29 Nov

Strategic Outlook for Large Heat Pumps

Dr. Jan Rosenow

29 Nov

Heat Pump Technologies for District Heating

Mr. Thomas Caik

30 Nov

High-Temperature Heat Pumps for Industry

Dr. Cordin Arpagaus

Innovative Heat Pump Technologies

Session from 9:00

01 Dec

Networking Banquet

Banquet with Ice Rink

National Theatre

O2 Universum

Mlync Restaurant

Partners

Q&A

Tomas Vorisek
SEVEn, The Energy Efficiency Center

(Email: tomas.vorisek@svn.cz)

(Note: Photo on initial page originally comes from Restaurant Mlynec Photo Gallery (https://www.mlynec.cz))