



NATIONAL WORKSHOP

11TH NOVEMBER 2024  CIEMAT • Sala Margarita Salas, E01.S1.17 • Avenida Complutense, 40 • 28040 Madrid  11:00h

Coinciding with the Executive Committee meeting of the International Energy Agency's Technology Collaboration Programme (TCP) on Heat Pumping Technologies (HPT), 12-13 November 2024, this national workshop (11 November) is organised by the Heat Pump Spanish National Team.

The aim is to promote interaction between the HPT and the Spanish stakeholders on heat pumping technologies, presenting the activities of all partners and networking.

WORKSHOP PROGRAMME

11:00h >11:15h	Welcome and opening	<p>Yolanda Benito CIEMAT General Director</p> <p>Eva Ortega-Paíno General secretary of Research, MCIU</p> <p>Lucía Blanco Deputy Assistant Director for Energy Forecasting and Statistics of MITERD</p> <p>Miguel Rodrigo Director of Knowledge, Development of New Business Models and Competitiveness, IDAE</p>
11:15h >11:45h	Introduction to the Technology Collaboration Programme on Heat Pumping Technologies by IEA (HPT TCP)	Stephan Renz Chairman of IEA HPT TCP
11:45h >12:00h	Brief presentation of the Heat Pump Spanish National Team	Guillermo Zaragoza Spanish ExCo Delegate of HPT TCP
12:00h >12:15h	Heat Pumps in the Spanish National Integrated Energy and Climate Plan (PNIEC) 2023-2030	Enrique Palop / Aurora Recio (MITERD)
12:15h >12:30h	Statistical study of heat pumps in Spain	Silvia Vera (IDAE)
12:30h >12:45h	Technical guide of heat pumps in the energy rehabilitation of buildings	Antonio García (IDAE)
12:45h >13:00h	Heat Pumps in the State Plan for Scientific and Technical Research and Innovation (PEICTI)	Alberto Coronas Spanish ExCo Alternate Delegate of HPT TCP

13:00h >14:00h **LUNCH** *Confirm your participation*

14:00h > 15:45h	SESSION 1 // Ongoing Spanish team activity on HPT	
<p><i>Each speaker will have 10 minutes to show the topic, followed by 3 minutes for discussion</i></p>	High Temperature Industrial Heat Pumps: Simultaneous Cooling and Heating Applications.	José Pascual Martí Rank
	---	---
	SAFEHEAT: Sustainable Alternative Fluids for Efficient HEAT pumps.	Ramon Cabello Universitat Jaume I
	---	---
	HAPPENING: HeAt PumPs in existing multi-family buildings for achieving union's ENergy and enviroNmental Goals Demo case in PASAIA.	Jose Luís Corrales Tecnalia
	---	---
	Project TERARED: Research into Technologies as a Path towards Decarbonization through Hybrid Renewable Energy Networks of the Future.	Francisco López Keyter - Intarcon Group
	---	---
Project SUSHEAT: (High temperature Heat Pump based on reverse Stirling cycle).	Ruben Barbero Universidad Nacional a Distancia (UNED)	
---	---	
Heat Pumps for Multi-Family Residential Buildings in Cities (Annex 62). Spanish Contribution and Perspectives.	José González Macía Universidad Politécnica de Valencia	
---	---	
Digital twin for thermal systems simulation of vapour compression cycles. Focus on achieving fast, accurate and robust simulations.	Carles Oliet Universitat Politècnica de Catalunya	
---	---	
Energy Optimisation in Buildings with Heat Pumps and TES-THUMBS UP Project.	Juan Carlos del Castillo CARTIF	

15:45h >16:15h **Coffee Break**

16:15h > 18:00h	SESSION 2 // Ongoing Spanish team activity on HPT	
<p><i>Each speaker will have 10 minutes to show the topic, followed by 3 minutes for discussion</i></p>	Domestic heat pumps using Hydrocarbons: status and market overview.	Emilio Navarro Universidad Politécnica de Valencia
	---	---
	Experimental results of vapor compression high temperature heat pumps for industrial purposes.	Joaquín Navarro Universitat Jaume I
	---	---
	Evaluation of lower-GWP refrigerants for residential heat pumps.	Jaime Sieres Universidad de Vigo
	---	---
	High temperature heat pumps for industry decarbonisation.	Jose Ignacio Linares ICAI-Universidad Pontificia Comillas
	---	---
	Development and Testing of an FDD for Variable-Speed Heat Pumps under Laboratory Conditions.	Ivan Bellanco IREC
	---	---
Waste heat recovery from urban underground infrastructure using heat pumps.	Javier Muñoz Universidad Politécnica de Madrid	
---	---	
Re-Energize – Educational project to enhance training and skills in heat pump technologies.	Bernardo Peris Universidad de Málaga	
---	---	
Experimental analysis of a photovoltaic-assisted DHW heat pump	Francisco Aguilar Universidad Miguel Hernandez de Elche	
---	---	
NZPools – Design and evaluation of decarbonisation strategies to achieve near zero emissions indoor swimming pools assisted by renewable Energies.	Francisco J. Sánchez Velasco Universidad Politécnica de Cartagena	

18: 00h **Closing**

ORGANIZER



Guillermo Zaragoza
PSA-Ciemat

Alberto Coronas
Universitat Rovira i Virgili

CONTACT

 info@hptes.eu