

KEY NOTE ABSTRACT

POTENTIAL OF DISTRICT HEATING SYSTEMS AS A LEVIER OF THE ENERGY TRANSITION

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Abstract

In Europe, district heating system is seen as a promising lever to reach the targets of energy transition policies. The various ongoing works and projects around these systems testify of the interest for DH despite the differences in the penetration rate of this technology between the countries.

This technology contributes to the local energy system optimisation and its flexibility. It fosters the integration of renewable energy and offers real advantages in a multi-carrier energy approach of the energy management.

To support this contribution of DH in the low carbon energy transition complementary knowledge is needed for a transition towards a more efficient local energy system: assessment of the impact of a change in the demand, potential improvement offered by the Information and Communication Technologies, coupling with other energy distribution networks, Low Temperature DH and energy retrofitting of the building stock, local mechanisms of energy exchanges...

The presentation will illustrate how modelling and optimization can contribute to some of these challenges with a will to take into account the real context of the systems (stakeholders, constraints, operational objectives...)

Short Curriculum Vitae

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