

**IEA DHC Annex TS5 -  
Integration of Renewable Energy Sources into existing  
District Heating and Cooling Systems (RES DHC)**

<https://www.iea-dhc.org/2019-2024-annex-ts5/>

**Annex TS5 meeting (hybrid meeting)**

20+21 April 2023, Milan

**Preliminary agenda**

**Meeting places**

TS5 Meeting 20 April:  
Politecnico di Milano, Piazza Leonardo da Vinci 32, Building 1, Sala Donatori, Milano

Workshop 21 April (only in presence):  
Andreola Central Hotel, Via Scarlatti 24, Milano

See also map at the bottom

**Online participation (only 20. April)**

<https://politecnicomilano.webex.com/meet/paola.caputo>

**Arrival day Wednesday, 19 April**

19:30 **TS5 come together**  
Pizza Naturale, Via Gaetano de Castillia 24, Milano,  
[www.pizzeria-naturale.it](http://www.pizzeria-naturale.it)

**TS5 meeting day Thursday, 20 April (hybrid)**

9:30 **Opening**

- Welcome by Prof. Capolongo, Director of DABC at Politecnico di Milano
- Introduction and aims of the meeting

- 9:45 **Subtask C - Decentral integration of RES into DHC systems**
- Update on subtask C activities
  - Participant contributions
    - Axel Oliva, Fraunhofer ISE: Project WOpS – optimized operation of multiple decentral feed-in
    - Vera Boss, TU Dresden: update on recent decentral feed-in projects
    - Daniel Heiler, AGFW: Integration of large-scale solar heating plants in peripheral areas of large DHC networks
  - Guidelines for decentral integration
  - Completion of case studies
  - Further planning and next steps
- 11:15 **Coffee break**
- 11:30 **Work Item A.3. - Methodologies for RES potential assessment**
- Status, contextualisation and anticipated outputs of work item A.3
  - Participant contributions
    - Saeid Atabaki, Halmstad University: Intermediate results of a literature review on RES potential assessment methods
    - Annika Brecht, AGFW: Considerations on the practical application of RES potential assessment in the field of heat and DHC transformation planning
  - Discussion: Inputs and further planning of the working group
- 12:40 **Work Items A.1 - State-of-the art review on RES DHC and A.2 - Inventory of RES technologies for DHC**
- Update on country reports, technology and application fact sheets
  - Further planning
- 13:00 **Lunch break**
- 14:00 **Subtask B session - Transformation of large DHC systems to higher shares of RES**
- Update on subtask B activities
  - Participant contributions
    - Alessandro Maccarini, AAU: Presentation of DHC system modelling and simulation activities
    - Michael Salzmann, AEE Intec: Lviv case study
  - Update on case studies, results of case study analyses
  - Discussion of deliverables and transformation guidelines
  - Further planning and next steps
- 15:10 **Non-technical aspects of DHC transformation processes**
- Update and planning of contributions

- 15:40 **Coffee break**
- 16:00 **Reporting and Dissemination**
- Update and planning
- 16:20 **DHC transformation beyond TS5 activities**
- Viktor Unterberger, BEST: Cooperation with IEA SHC Task 68 – Efficient solar district heating
  - Urban Persson, Halmstadt University: Swedish project related to solar district heating
  - AGFW, News from the German BEW subsidy programme
  - Cooperation with upcoming EU-Life-projects related to support to DHC trafo planning
  - Politecnico di Milano: Outlook to the workshop with Italian stakeholders on the next day
  - Update round (all)
- 17:00 **Meeting wrap-up and next steps**
- Presentation of the October 2023 meeting in Sweden
  - Wrap-up of the meeting and activities of the next phase
  - Miscellaneous
- 17:15 **End of the first meeting day**
- 19:30 **Joint meeting dinner**
- Locanda del Menarost, Via Giuseppe Compagnoni 24, Milano,  
[www.menarost.it](http://www.menarost.it)

**Second day, Friday 21 April (only in presence)**

See separate programme for the workshop with Italian DHC stakeholders,  
9.15 - 14 h, Andreola Central Hotel, Via Scarlatti 24, Milano

### Map of meeting locations

