

Heating accounts for the largest share of energy demand

Solar District Heating (SDH)

- offers a clean and scalable solution
- uses solar radiation as unlimited resource
- is a proven technology, ready for real projects
- works well with other heat sources and heat storage
- reduces fossil fuel demand and improves energy autonomy
- may receive subsidies/funding from government programmes



IEA SHC Task 68 is

- an international collaboration with experts from academia, research institutions and industry (2022–2025)
- working on “Efficient Solar District Heating Systems – Considering higher temperatures and digitalization measures”
- showing how SDH can become more attractive in the future sustainable energy system



All publications are free and available online

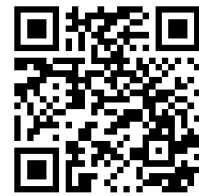
- Technology Position Paper (key results)
- Technical Reports (from Subtasks A to D)
- Webinars & videos
- Scientific publications
- Further material on Solar District Heating

→ Scan here or visit: task68.iea-shc.org/publications



These results are relevant for

- Utilities & cities
 - planning, operation, costs
- Policymakers
 - frameworks, recommendations, costs
- Researchers
 - methods, data, insights



Recommended starting point: the TPP



Subtask A: Concepts

- Requirements | Planning | Configuration | Modelling

 <p>Technology Position Paper</p> <p>Efficient Solar District Heating Systems – Considering higher temperatures and digitalization measures</p>	 <p>Solar Collector Technologies for District Heating</p> <p>An analysis of technical and economic characteristics and systems integration</p>	 <p>Simulation and Calculation Tools for Solar District Heating</p> <p>An Overview of the Tools Used by Experts</p>	 <p>Annual Yield Check of Large Scale Solar Thermal Systems</p>
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Subtask B: Data preparation & utilization

- Gathering/Storing data | Auto. Monitoring/Evaluation | Control

 <p>Efficient Data Management and Validation</p>	 <p>Guide to ISO 24194:2022 Power Check</p>	 <p>Control of Solar District Heating Systems</p> <p>Comparison of state-of-the-art and advanced control strategies on the component and system level</p>	 <p>Solar Energy Software</p>
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Subtask C: Business models

- Financing & Investment schemes | Risks & Barriers | Cost red.



Subtask D: Use Cases and Dissemination

- Case | Awareness | Market overview | Best practice

 <p>Policies and Business Models for Solar Thermal District Heating Systems</p> <p>Subtask C report B2C</p>	 <p>Checklist Solar Thermal District Heating</p> <p>Subtask C report B2C</p>	 <p>Solar District Heating: Measures to Reduce Costs</p> <p>Subtask C report B2C</p>	 <p>Drivers, Data, and Design: A Study of Best-Practice Solar District Heating Installations</p>
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