



Accelerating the geothermal and solar thermal cooling by innovative Business models

According to several experts, there is a high demand of renewables in the sectors of heating and cooling in general. As the climate change and finances expert Jan W. Bleyl once mentioned, “The industrial use of heating and cooling and the heating of private and public buildings account for around half of energy consumption in Germany”.¹

That demand is partly covered by renewables already today. Figure 1 shows the comparison between different kind of renewables and their energy yield.

Annual end energy production comparison

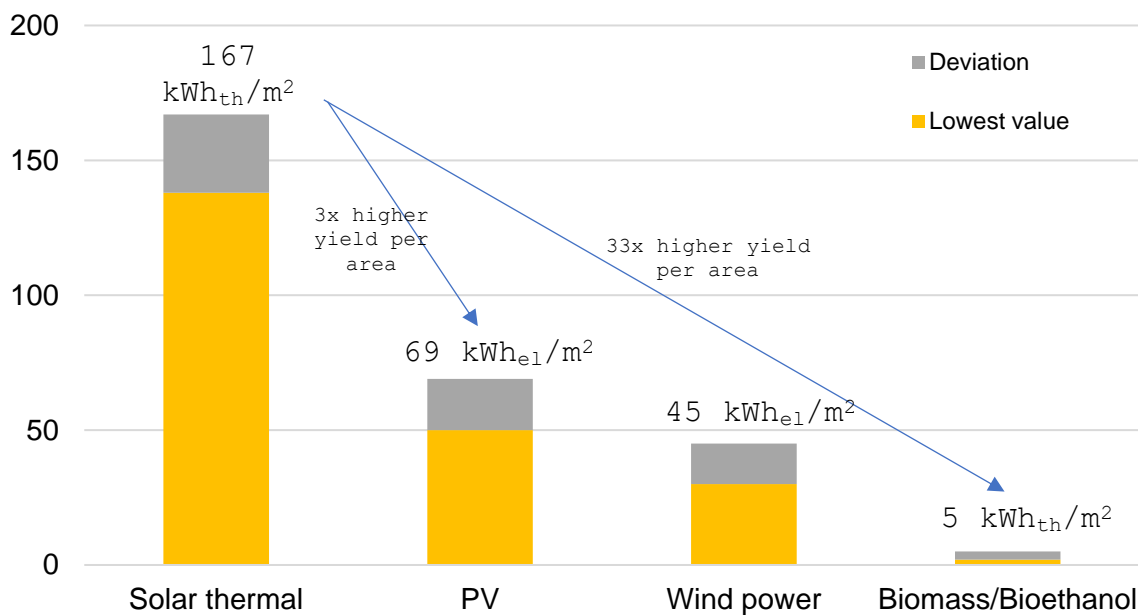


Figure 1: Yield per area comparison of different renewable energy technologies
 Source: [news](https://solarthermalworld.org/news/operator-models-for-solar-district-heating/) on solarthermalworld.org from 31 July 2017 | Fraunhofer ISE, PlanEnergie and Chalmers University

The financing of energy supply contracts can become hard, so it is necessary to include Business models in the research and to show possibilities to handle the financing well. The financing options can be grouped as follows.²

- Own financing

¹ <https://solarthermalworld.org/news/operator-models-for-solar-district-heating/>

² IEA SHC Task 65 | 6th Expert meeting Innsbruck March 2023 | Expert Jan W. Bleyl





- Public finance
- Third Party Financing
- Special Purpose Vehicle
- Development aid

Also, there can be made a separation between Business modelling and simple financing. While the financing itself mostly only contains of the equipment acquisition, Business models mainly offer services containing energy supply or the utility services.

Further on in the project **Cooling Down** the different possibilities will be discussed and researched in depth. Stay tuned to not miss this.

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