



Solar Heat
Europe
ESTIF

Solar Heat in Europe

Overview on market & policy opportunities

Irene di Padua, Policy Officer



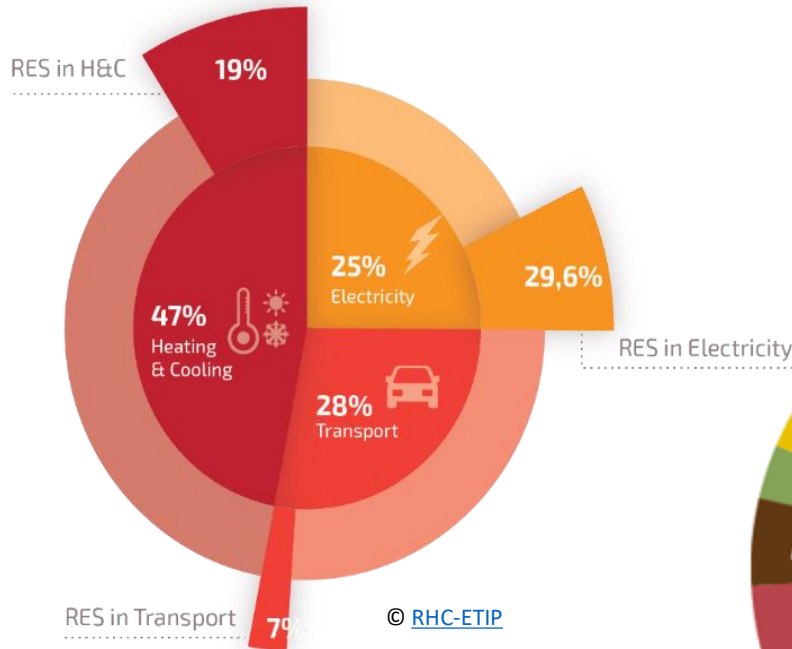
What is Solar Heat Europe?





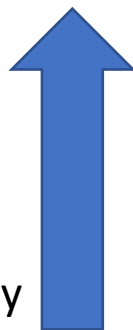
Solar Thermal Market in Europe

EU Final Energy Demand

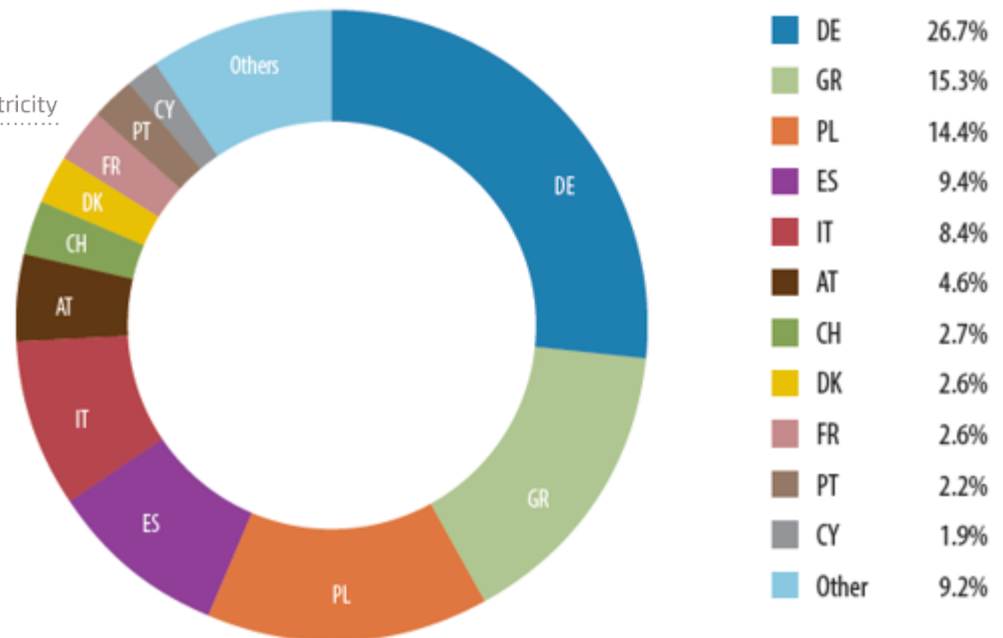


Market grew
by 7.8% in 2018

1.5 GWth newly
installed capacity



Shares of European Solar Thermal Market (Newly installed capacity)



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Source: [Solar Heat Europe](#)



Solar Thermal Market in Europe

New installations:
2,1 million m² / 1,5 GW_{th}



Total installed capacity
in operation:

36.1 GW_{th}



Total installed
capacity in 2018:

1.5 GW_{th}



Estimated number of solar
thermal systems in operation:

10.1 million



Annual energy
generation (estimated):

25.6 TWh_{th}



(Estimated)
sector turnover

1.85 EUR billion



Numbers of jobs
(estimated):

18 800



Estimated
6.8 Mt CO₂
emission savings



(estimated)
Energy storage capacity:

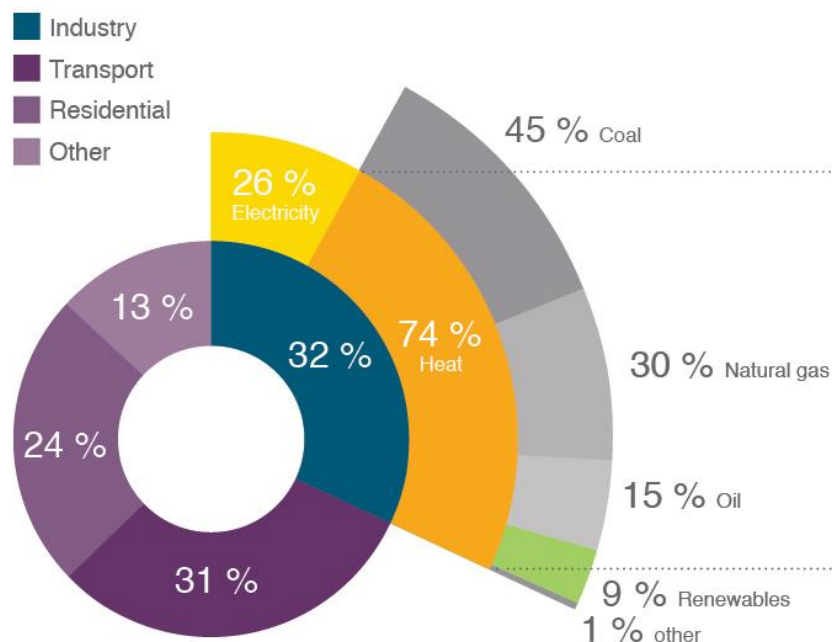
180 GWh

(connected with solar thermal systems)



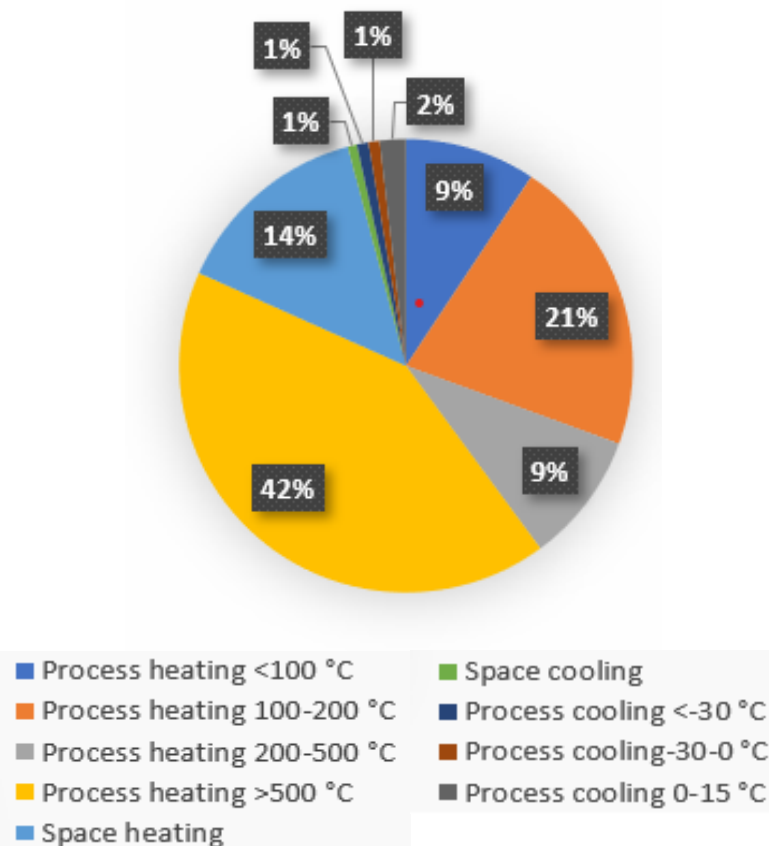
Heat Demand in Industry

Global Energy Demand in Industry



© [Solar Payback](#)

Heat Consumption in EU-28 Industry

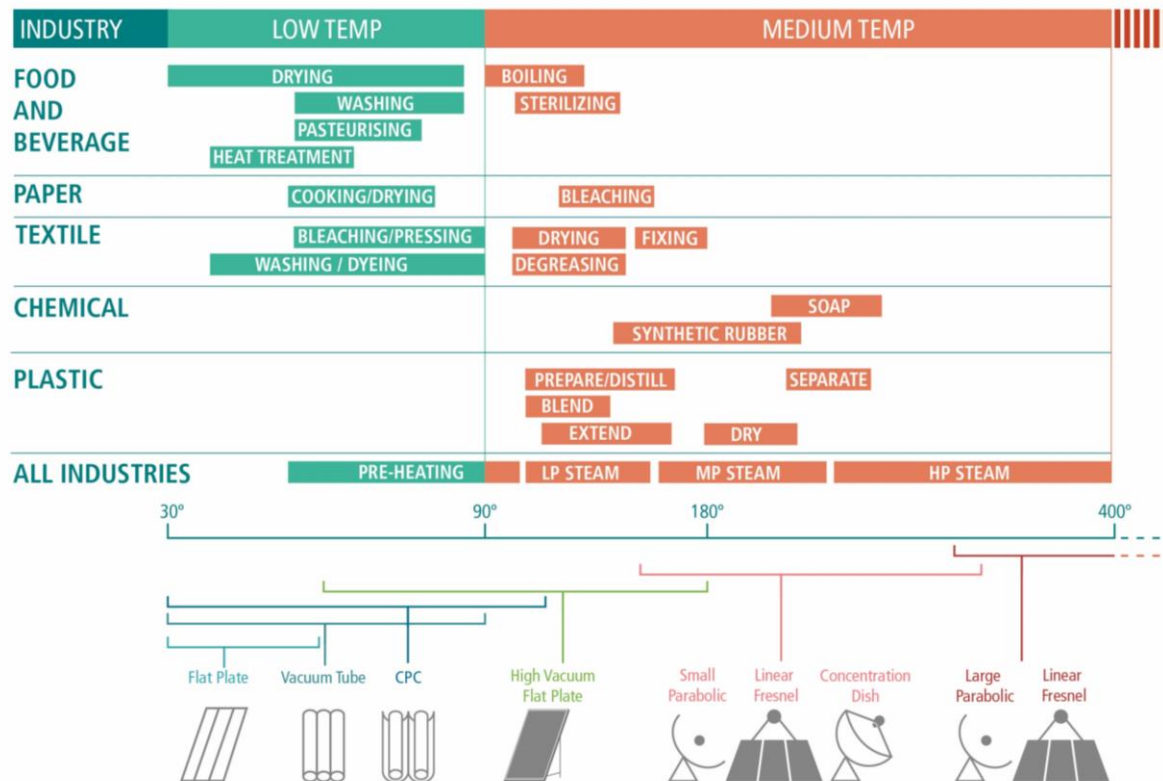


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Heat Demand in Industry

Market Segments for Different Collectors



© [TVP Solar](#)

Integration

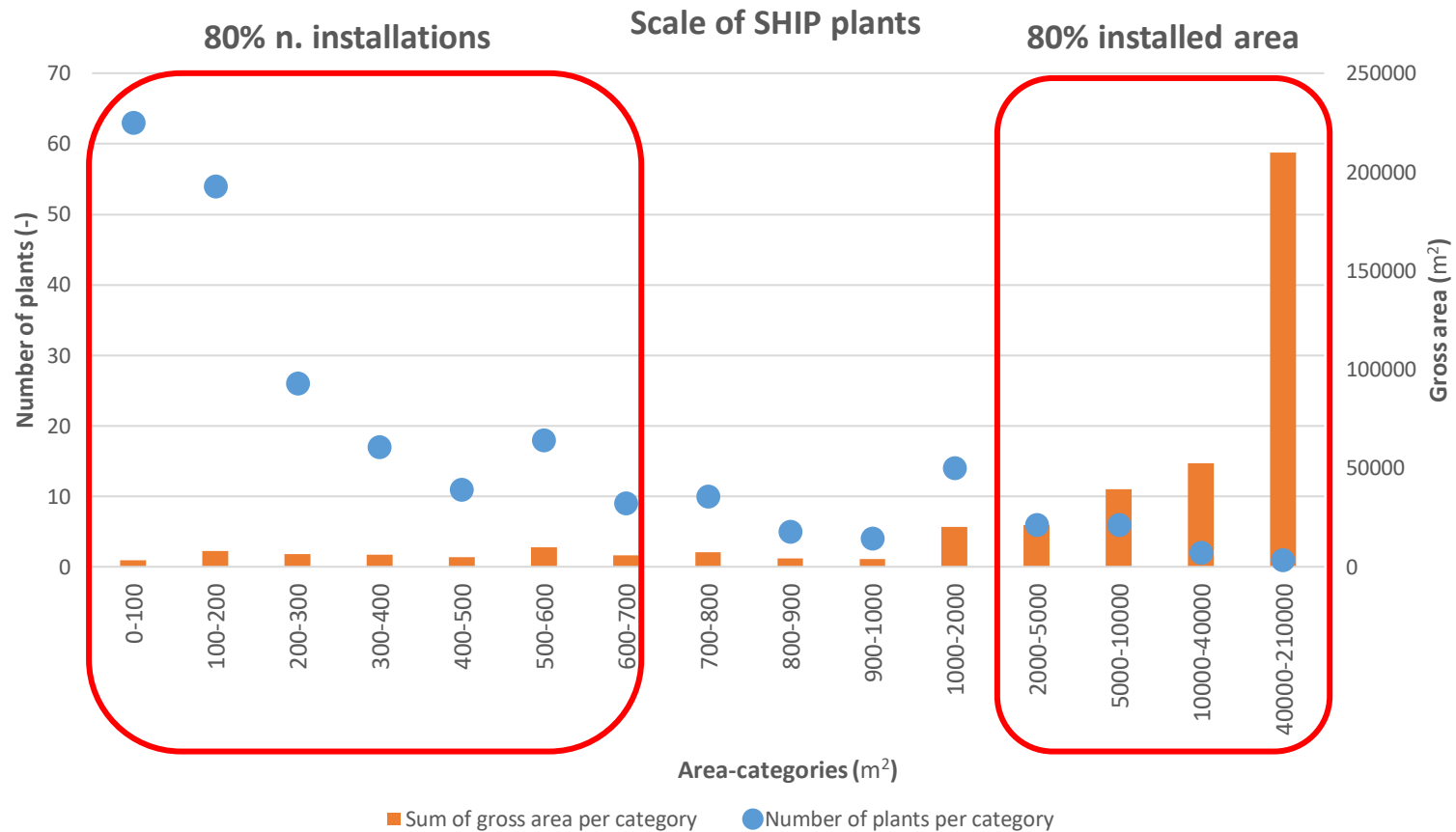
- Pre-heating
- Direct heat

Other applications

- Desalination
- Water treatment/evaporation



The Evolution of SHIP Plants – 2020



© Solar Heat Europe / ESTIF 2019

Source: www.ship-plants.info



The SHIP database

www.ship-plants.info





The largest SHIP plants in Europe



June 2019: Condat paper mill, 4,213 m² (3.4 MW_{th}) tracked flat plate collectors

https://www.solar-payback.com/gallery/gallone_en.php

October 2019, 9,300 m² (6.5 MW_{th}) flat plate collectors supply heat to freesias greenhouse farm



Upcoming installations

14,000 m² for a malting factory planned for 2020 in France

15,000 m² for greenhouse farms in the Netherlands



European Policy Context – the Green Deal

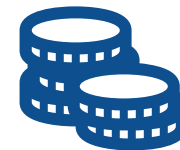
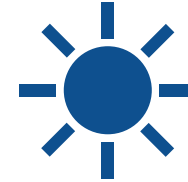




Solar Heat Europe policy asks for industry

Energy relevance for industrial process:

- Extremely relevant
 - Aversion to new solutions
- Marginal relevance
 - Not investing time/worth the effort
- A minimum quota of RES heat
 - Fostering innovation without hindering competitiveness
- A conditionality for financing
 - Locally produced renewable heat
 - Commitment to climate and local economy





Thank you for your attention!

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