



TVP Solar SA



Project Idea

Hybridized Solar-Thermal Solutions for Net-Zero Industrial and District, Heating and Cooling

Objective: To demonstrate, validate and qualify at an industrial scale (TRL 8) an integrated, modular hybrid energy system that combines solar thermal (ST) systems, high-temperature heat pumps (HTHP), sorption cooling, and thermal energy storage (TES).

Organization name, town and country

TVP Solar SA, **Geneva, Switzerland**

Tresol Srl, **Avellino, Italy** (subsidiary)

Addressed topic(s)/area(s)

HORIZON-CID-2026-01-02 R&I in Support of the CID: Clean Technologies for Climate Action: Enhanced zero-emission power technologies (Renewable heating & cooling)



TVP Solar SA

WHO WE ARE

- A Swiss-Italian deep-tech SME founded in 2008
- We have developed and industrialised a disruptive high-vacuum insulation technology
- We serve **industrial and district heating** applications of **solar heat** in the range of 65-180°C

EXPERIENCE in EU projects

- Completed: 2 H2020 IAs (SHIP2FAIR & SunHorizon; demonstration); 1 Eurostars (ESSteam; next gen collector)
- On-going: 6 HEU IAs + 1 CSA:
Demonstrations: Solar thermal (ST) with heat storage (TES); ST + TES + HPs;
Solar district heating and cooling;
Digital tools for optimization

TVP SOLAR

WHAT WE DO

• Manufacture solar thermal (ST) collectors

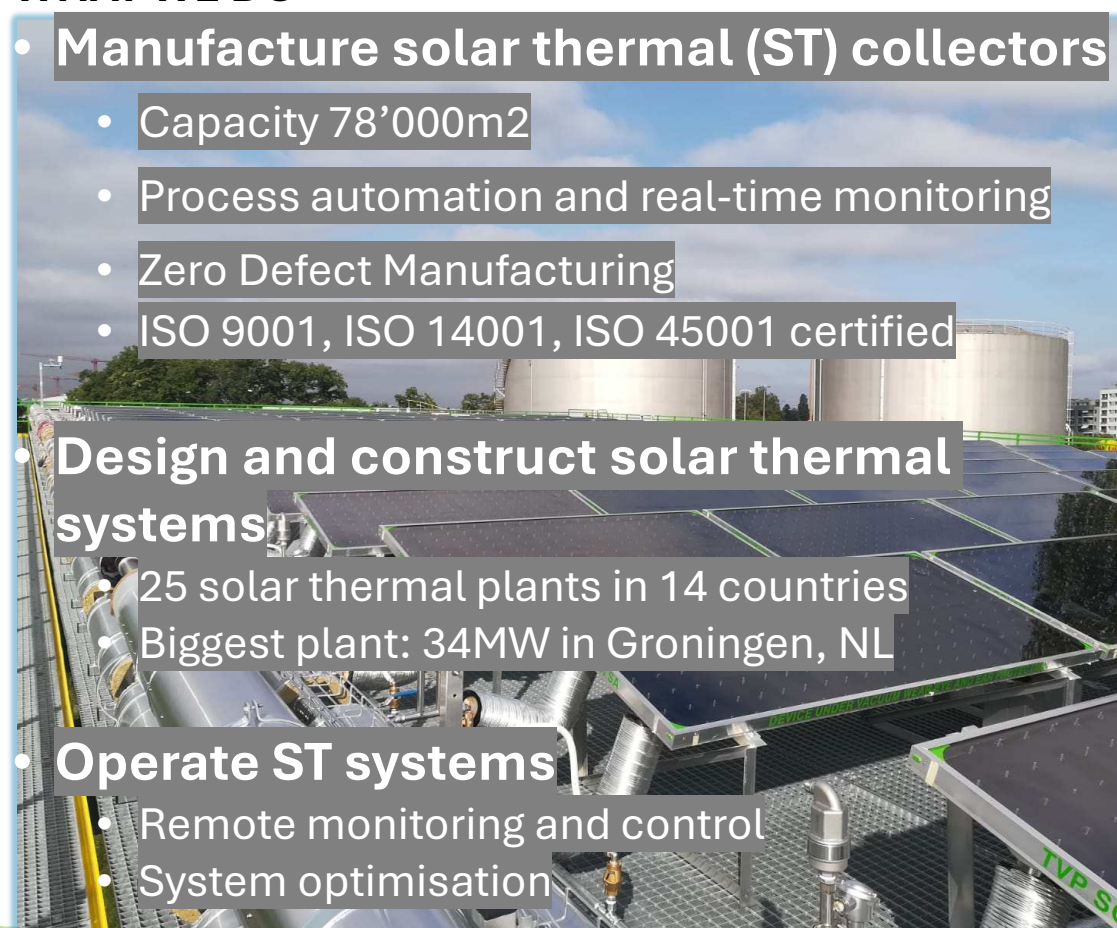
- Capacity 78'000m²
- Process automation and real-time monitoring
- Zero Defect Manufacturing
- ISO 9001, ISO 14001, ISO 45001 certified

• Design and construct solar thermal systems

- 25 solar thermal plants in 14 countries
- Biggest plant: 34MW in Groningen, NL

• Operate ST systems

- Remote monitoring and control
- System optimisation





Made in Europe Hybrid Solar Solutions

PROJECT IDEA

Aim: to cement and strengthen the European leadership on large-scale applications of hybrid solar

Mobilise a European value chain of hybrid solar systems that integrate:

- Solar thermal (ST) systems and Waste Heat Recovery (WHR);
- High-temperature HPs, and/or Mechanical Vapour Recompression (MWR).
- Thermal Energy Storage (TES), short-term and/ or seasonal;
- Heat-driven cooling technologies

WHY IT CAN SUCCEED

- ❖ Heating and Cooling is a decarbonisation laggard
- ❖ Unique worldwide high vacuum flat plate solar thermal technology
- ❖ Established and expanding European-based value chain that delivers solar heating and cooling

- **Clean energy system integrator:**
 - Experience in heating & cooling, and industrial steam
 - European-wide operations
- **Process industry: (demo-provider)**
 - From any sector with heat demand up to 180C; cooling demand >4C
 - Operation: all year round, >250 days/ year;
 - Available space (on the ground or rooftop): > 6'000m²
 - Heating load: >2MW
 - Preference on: peak heating & cooling demand during summer
- **Thermal storage solution provider:**
 - <100C → Value for money
 - >100C → Top efficiency; lifetime: >15 years



Contact details



Contact person

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