

Revolutionizing Renewable Heat for Large Heat Users

Market opportunity \$2 Tr / year of fossil fuel is burned to generate **heat**, ~50% of the world's energy end use

Status TIGI invented a renewable heat solution with novelty in components and system that is lucrative for large heat users. **Patented, Certified, Proven, Selling**

The Novelty TIGI developed solar thermal collectors that generate heat at high efficiency even in cold climate conditions and for high target temperatures, as needed by commercial and industrial users.

The Challenge solar thermal collectors lose heat energy to the environment and efficiency drops when it's cold outside or when supplying high temperatures. These losses are minimized using insulation. On the sun-facing side however, insulation would block the sun's energy and is thus not practical. The result – most of solar thermal losses are on the sun facing side and performance decreases to 0!

The technology using transparent insulation on the sun facing side, TIGI's collectors lets solar irradiation in and minimizes convection and back radiation losses, leading to enormous (up to 5x!) performance advantage. Generates more energy per area unit, temperatures up to the boil, advantage in winter and cold climates, lower cost per kWh.

Example: yearly collector output in Israel for industrial scenarios heating water from 45 → 85 °C: TIGI collectors generate 980 kWh/ m² / year and a normal flat collector only 300 kWh/ m² / year

Target market commercial / industrial large heat users

Awards TIGI was named a "Global Cleantech 100" company and won the Intersolar Award.

Patents 8 families of granted and filed patents

Stage mass-manufacturing, global go-to-market

Seeking equity investment, partnerships

Major immediate opportunities

Use	Target temperature
Industry: pasteurization, drying, washing, laundry	65-95 °C
Kitchen and dish washing	80-90 °C
Hotels, elderly people homes hot water, pool	60-95 °C

Commercialization TIGI is initially focusing on large heat-energy users in the commercial and industrial segments. The company recently installed systems for industrial laundry, wineries, a hatching farm, a food plant, industrial dish-washing, elderly people homes and more. In the cold-climate residential domain, TIGI delivers heat for a new neighborhood in Norway. Pilot projects successfully finalized with the USA government and leading European integrators.

Business models TIGI proposes selling systems – or heat / energy to large users, in an ESCO model with non-financed IRR frequently at > 20%! We aim to become a distributed renewable heat utility company.

Team TIGI's founders, serial entrepreneurs with backgrounds in high-tech, industry and energy, successfully built, sold and took public companies in electro-optics, communications, chemical industries and medical devices. The company's management team and advisory board bring extensive background from the Fraunhofer institute, Solar City, collector manufacturers and energy project financing.



Barrel washing, Golan Winery



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