

Dairy manufacturer goes solar as an alternative to escalating LPG costs

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A leading South Australian dairy manufacturer sought an advanced solar tube heating solution from Greenland Systems to reduce their dependence on expensive LPG.

One of Australia's most progressive manufacturers and exporters of certified biodynamic-organic dairy products such as milks, yogurt, Quarks, butter and soft and hard cheeses, B.-d. Farm Paris Creek Pty. Ltd. used LPG to provide energy for the hot water and steam processes at their dairy production facility.

However, the escalating price of LPG forced dairy proprietors, Ulli and Helmut Spranz to seek an alternate solution with the assistance of a Clean Energy Grant from the Clean Technology Food and Foundry Investment Program.

Given the high requirement for ultra-hot water in their processes, they wanted a system that was economical, sustainable, environment-friendly and sufficient to meet their energy needs. While solar was always the answer, they also needed a commercial and reliable system.

After searching the market for the most advanced solar thermal technology that would supply them with intensive water heating and steam for their processes throughout the year, Ulli and Helmut discovered Greenland Systems (Melbourne), a world leader in tubular solar energy for high temperature industrial process heating and cooling.

Greenland's systems assure high efficiency all year round, whether in direct or diffuse solar irradiation.

Greenland supplied and coordinated the installation of sixty solar collectors of their patent registered type GLX100. The company also programmed, manufactured and supplied all the purpose-designed automated electronic and power control systems required for the installation.

Greenland Systems MD Marko Pintar expects the system to supply 90% of all heating energy required in summer and approximately 50% in winter, with annual energy savings of 70% to 78%. While the ROI for the dairy manufacturer is approximately four years, the life expectancy of the Greenland Systems solar field made of GLX100 collectors is in excess of 30 years.

