

HYBRID ROLL – BOND PHOTOVOLTAIC THERMAL COLLECTORS

? What is?

These advanced PVT roll bond collectors produce solar power and heat generation in a single, high-efficiency unit. Featuring anti-corrosive coatings inside aluminium channels and a tight connection between thermal and photovoltaic components, they deliver improved performance and durability compared to standard hybrid systems. At the same time, this unit holds less space than separate units that produce electricity and heat.

🎯 Challenge

Traditional aluminium roll bond hybrid collector struggle with corrosion and limited lifespan, especially in harsh conditions, reducing their overall efficiency and reliability.

💡 Solution

Our panels enhance longevity and efficiency with protective inner coatings and optimized heat transfer from PV modules to thermal unit, making them ideal for demanding environments.

➡ Key Benefits



Operating life

Extends operating life by at least 50% over standard panels



Resists

corrosion in harsh or salty conditions



Electricity

PV modules are cooling, electricity production is higher for around 15% during summer period



Durability

Combines electricity and heat production in one durable unit

➡ Target Users

- ✓ Designers of RES systems
- ✓ Solar energy installers
- ✓ Building developers
- ✓ Industrial facility managers

➡ Next Steps

- ✓ Development of the technology through further research and commercialization.



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