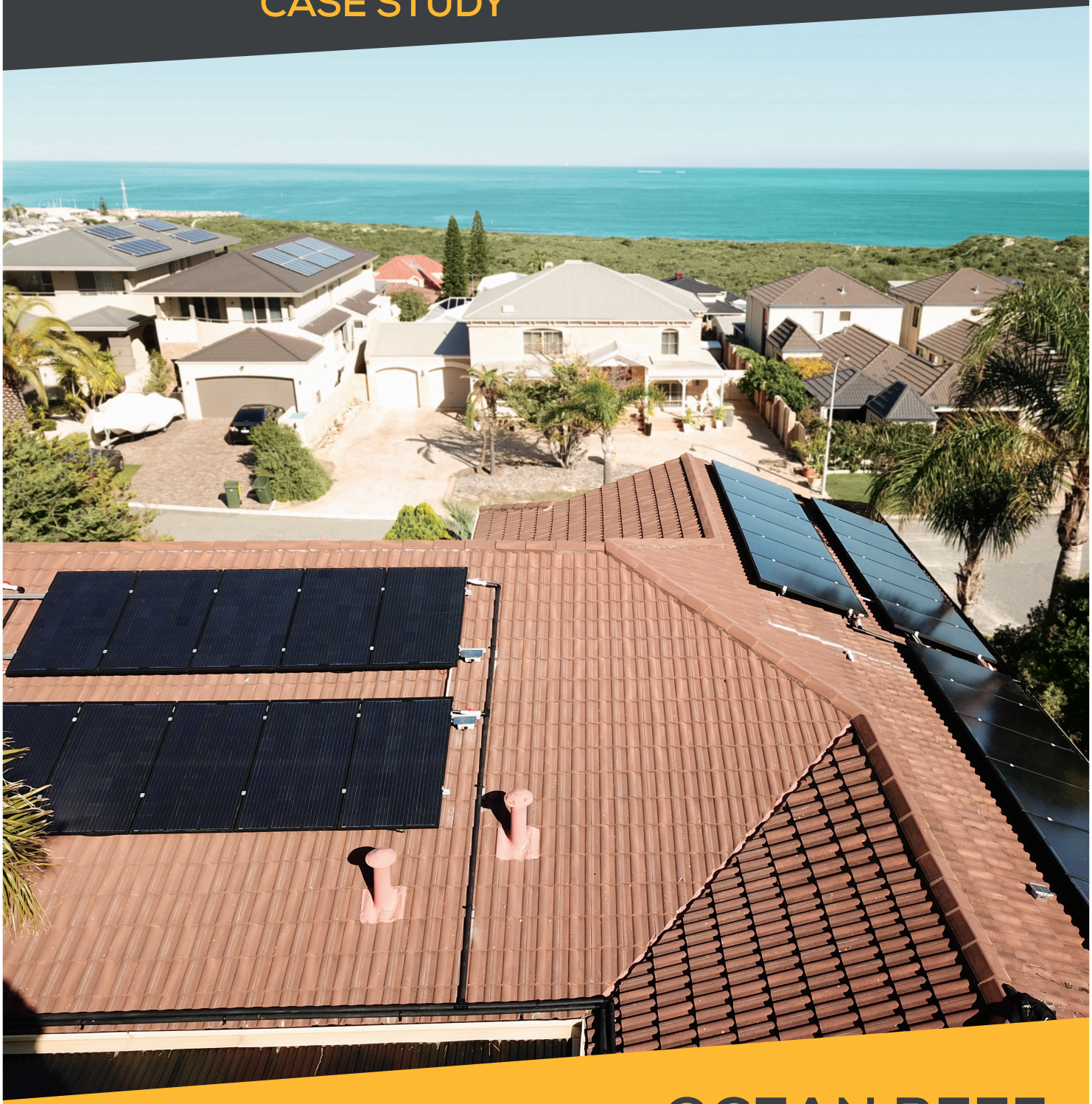
HEATSEEKER
# DUALSUN

## CASE STUDY



# OCEAN REEF

## NORTHERN PERTH, WESTERN AUSTRALIA

Supreme Heating
*Our Innovation. Your Lifestyle.*

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## NORTHERN PERTH, WESTERN AUSTRALIA

HEATSEEKER DUALSUN

**Impressed by the two-in-one solution, the homeowner saw an opportunity to reduce their energy expenses without having to sacrifice their solar pool heating**

| | |
|---|---|
| **System Installed** | Heatseeker DualSun hybrid PV/T solar system |
| **Solar Collectors** | 10.08kWp & 28.58Wth DualSun PV/T collector (36 x 280Wp & 794Wth panels) |
| **Inverter** | Fronius 8.6kw Single Phase Inverter |

Initially wanting to remove their existing solar pool heating to make way for a new PV solar system to help reduce their rising energy bills, the customer contacted Supreme Heating upon learning about Heatseeker DualSun. Impressed by the two-in-one solution that Heatseeker DualSun provides, the customer saw an opportunity to reduce their energy expenses without having to sacrifice their solar pool heating.

Evaluating the customer's energy needs and pool heating requirements, Supreme Heating proposed a 10.08kWp & 28.58Wth system consisting of 36 Heatseeker DualSun panels. The system design was comprised of 18 panels on the North East facing roof and 18 panels on the North West facing roof, taking advantage of exposure to the sun throughout the entire day.

With an average thermal output of 170kWh/day, the system provides ample coverage to adequately heat the customers 60,000L in-ground swimming pool to average temperatures of 28°C to 30°C throughout the swimming season between the months of September and April.

The Heatseeker DualSun system is also capable of generating an average of 52kWh/day of electricity, covering over 100% of the customer's $4,200 worth of annual energy expenses.

With average energy savings of $7,395 per annum, the customer can expect that their Heatseeker DualSun system to pay for itself within just over 5 years, based on current energy prices.

The equivalent cost of using an inverter heat pump to create the same energy outputs of the solar system would be $2,709, negating the benefit of the electrical savings provided by a standard PV system.

**1 YEAR**

- 18.98 MWh IN PV ELECTRICAL PRODUCTION
- 61.92 MWh IN HEATED WATER PRODUCTION
- $7,395 SAVED IN COMBINED ENERGY EXPENSES

**20 YEARS**

- 379.6 MWh IN PV ELECTRICAL PRODUCTION
- 1,238 MWh IN HEATED WATER PRODUCTION
- $147,900 SAVED IN COMBINED ENERGY EXPENSES

Savings data based on the alternative use of an inverter heat pump with a COP of 6 and an electricity tariff of 25c/kWh heating the pool from September to April to temperatures of 28-30°C. Savings data does not account for inflation.