

Health centre, Chiang Mai

Load is double the PV - add panels

Upgrade opportunity

5.12 kWp

PV · 5 kW inverter

517 kWh

PV, 1-24 Oct

4.21

kWh/kWp/day

1,105 kWh

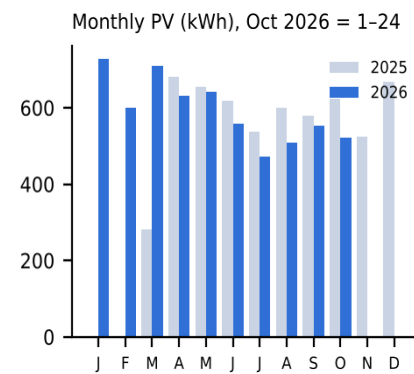
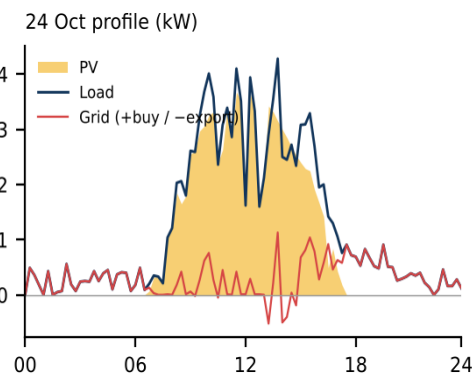
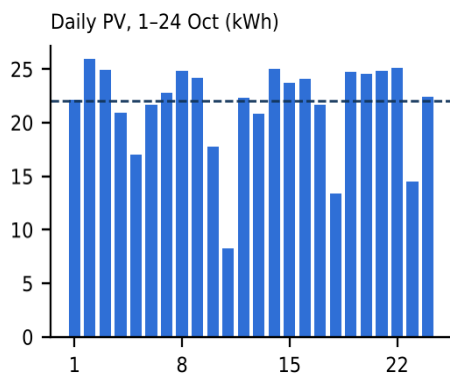
Consumption

589 kWh

Bought from grid

1 kWh

Exported



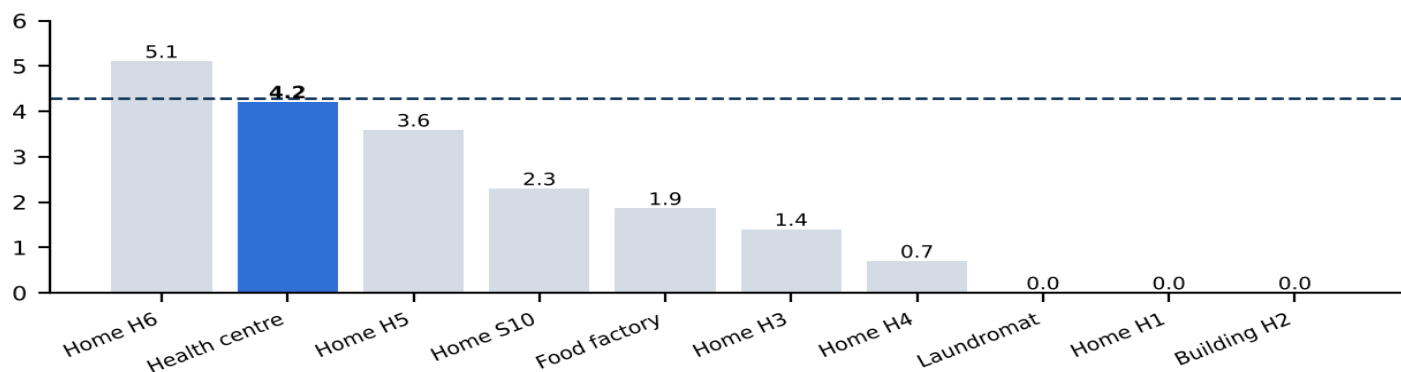
What we found

- 5.12 kWp with optimizers made 21.6 kWh a day (4.2 kWh/kWp), close to what we expect. All 8 optimizers are working evenly.
- The health centre used 1,105 kWh in 24 days but PV covered only 47%. It bought 589 kWh and exported almost nothing (1.2 kWh).
- At midday PV follows the load, with the meter close to 0 kW, so the zero-export limit is holding output back slightly on low-load days.

What to do

1. Propose about 5 kWp more PV with a second inverter (the existing 5 kW three-phase inverter is fully used). That would cover about 600 kWh a month more and save around 2,700 THB a month.
2. Keep zero export on. If the panels are added, check the daytime load first, as weekend load is lower.

How this plant compares (kWh/kWp per day, 1-24 Oct)



Rank 2 of 10 Huawei plants. Dashed line = expected 4.3 kWh/kWp per day.