

SOLAR WATER PUMPING · OPTION B · EXPANDED SOLAR PACKAGE

Well + pump + solar: water from the sun

Option A plus a solar inverter pump system: 8 × LONGi 650 W panels drive the pump through a Novem solar pump inverter. Free solar power on sunny days, PEA grid backup at night or when cloudy.

TN-20261020-PUMP-06

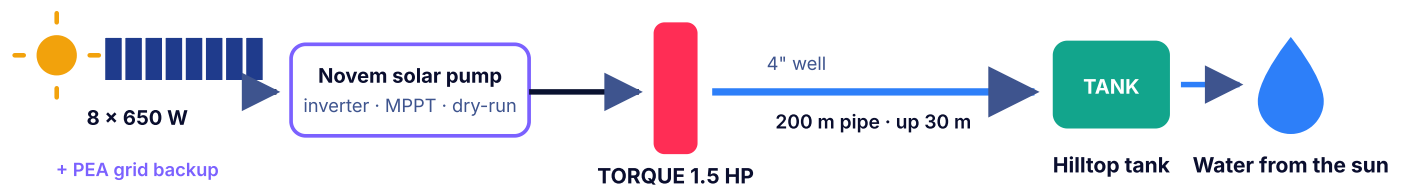
Rev02

20 October 2026

Chiang Rai, Thailand

Approximate prices in THB

How it works



The expanded solar package

 1 Drilling a 4" well Drilling with pipe, accessories and safety sling included	65,000 THB	 2 TORQUE 1.5 HP AC pump TQ-SP-2DLBM20-4/S, 1-phase 220 V	17,000 THB	 3 Solar inverter pump system Panels, Novem inverter, protection, installation	125,000 THB
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Option B total, approx. (drilling + pump + solar system)

207,000 THB

What the solar inverter pump system (125,000 THB) covers

- 8 × LONGi 650 W panels (5.2 kWp) on a galvanised ground-mount frame
- Novem ND1-2-003-S solar pump inverter: solar first, PEA grid backup, dry-run protection
- DC isolator + SPD, AC breaker, PV and pump cables, earthing, tank float switch
- Installation, pipe laying, commissioning and handover

Option A or B over 10 years

Option A · Minimum
grid power only

Build 82,000

Electricity 147,800

229,800
THB over 10 years

Option B · Solar
solar + grid backup

Build 207,000

221,800
THB over 10 years

EXTRA COST VS A
≈ 125,000 THB
207,000 – 82,000

ELECTRICITY SAVED
≈ 13k THB/yr
≈ 90% of pumping on solar

PAYBACK
≈ 9 years
on pumping energy alone

PANEL LIFE
25+ years
typical design life

All prices approximate, before VAT. Running costs assume the pump draws ≈ 1.5 kW for about 6 hours a day at ≈ 4.5 THB/kWh, with about 90% of that from solar in Option B. Drilling depth and price are confirmed by the well driller on site.