TARN | GROUP 2 | YOUR TOPIC

Waste to Energy

One example

TEGH turns organic waste into biogas for heat and electricity. Deck pp. 7-8; study p. 3.

Three numbers, three meanings

- **43.0 GWh** electricity in 2024 (study p. 7, Table 1).
- **More than THB 180m** avoided electricity cost, not profit or sales (study p. 7).
- **About 4.8 years** estimated renewable-energy asset payback, not a guarantee (study pp. 7, 14).

The 3Rs

Risk: energy prices and unmanaged organic waste.
Resilience: biogas covers roughly 35-40% of total energy across rubber and palm (study p. 9).
Revenue: avoided purchases first; fertiliser is an outlet, with no separate sales figure disclosed.

Key lesson

Use waste to replace a real cost before chasing new income.

Say if challenged: one company, partly company-reported. Absolute emissions can rise with expansion. Deck 76.1% is LPG substitution, not total-energy share.

Do not know? I don't have a verified figure for that. The study doesn't break it out, so I wouldn't guess. I'd check the underlying operating records or ask Khun Nuch before making that claim.

Speak the example, the 3Rs, then your decision. Do not read the source footnotes aloud. Full evidence and Q&A are in the notes.