How can turning waste into energy reduce costs and create income?

What stood out

Organic waste becomes biogas for heat and electricity.

43 GWh electricity in 2024 | THB 180m+ avoided power cost

The 3Rs

Risk

Less fossil-fuel price exposure and unmanaged waste.

Resilience

Own biogas supplies about 35-40% of energy demand.

Revenue

THB 180m+ avoided power cost; about 4.8-year payback.

Key lesson

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

Source: TEGH / Kokanutaporn et al., Sustainability 2026
Class deck pp. 7-9: waste to biogas. Study p. 7, Table 1: 2024 power and avoided cost; p. 7: payback; p. 9: energy share.