



11 APPLICATION BRIEF

Hotels & Resorts

For owners and operators of properties from boutique to 500-key

Energy is your single biggest line.
Cut your thermal energy bill by 50–75% with one R290 platform.

Most Philippine hotels still run legacy heat pumps charged with high-GWP Freon refrigerants (R134a, R410A, R407C) — phasing down under **DENR DAO 2021-31**, leaking faster in coastal salt air, and silently losing 1–2% efficiency every year. Karnot replaces them with a single **CO₂ / R290 natural-refrigerant platform** covering hot water, pool, spa, laundry and kitchen cold storage. **Capital purchase. Two-year payback on DHW retrofit alone. Energy-efficiency capex may qualify for BOI incentives under RA 11285.**

75%

Energy bill reduction

Versus diesel / LPG / electric resistance heating

BOI

Registration support

RA 11285 framework · case-by-case approval

~24 mo

Payback period

DHW retrofit · LPG baseline · published PH 32-room benchmark

— WHAT WE INSTALL

A single platform replaces three machines.

iHEAT R290

9.5–105 kW reversible · 60–82 °C DHW · COP 4.5+

Showers, kitchens, laundry, dishwash boost, room comfort

iSPA

6.5–39 kW · marine titanium · COP 7.5 · heats & cools

Resort pools, spa, jacuzzi — saltwater immune for life

iCOOL

CO₂ (R744) refrigeration · GWP 1 · A1 safety class

Walk-in cold rooms, blast freezers, F&B kitchen storage

iMESH

Adiabatic chiller retrofit · +15–25% COP · bolt-on

Bridge investment for the chillers you already own

— HOW IT WORKS

Audit. Install. Pay-per-kWh.

01

Site survey

One-day audit. We meter your existing hot-water, kitchen, pool and laundry loads and map them against the property's daily demand curve.

02

Design & install

Full mechanical package, BOI registration paperwork, electrical and BMS integration. Phased install in 4–6 weeks. **Zero guest disruption.**

03

Service & warranty

3-year warranty on the heat-pump core. Quarterly service contract, refrigerant management and PH-based parts depot — no 8-week air-freight wait for spares.

— WHAT YOU SAVE

Modelled on real Philippine properties.

PROPERTY TYPE	ANNUAL ENERGY SPEND	AFTER KARNOT	ANNUAL SAVING
80-key resort · coastal · modelled	₱8.2M	₱4.1M	₱4.1M
120-key business hotel · urban · modelled	₱10.4M	₱5.2M	₱5.2M
200-key resort + spa · coastal · modelled	₱21.1M	₱9.5M	₱11.6M

Indicative scenarios — not actual installations. Modelled on Meralco March 2026 industrial tariff (₱13.81/kWh), LPG/diesel baseline, COP 4.5 R290. Per-room saving anchored to the published PH 32-room hotel benchmark (₱25K/room/year for DHW retrofit). Real numbers come from a site audit.

“ Modelled scenario · 80-key coastal resort. Replacing two LPG boilers and an end-of-life R410A heat pump with one Karnot iHEAT system delivers a roughly ₱4M annual saving on the hot-water line, against the published Philippine 32-room hotel benchmark. ”

Indicative case · not an actual installation

Real figures available from a free site audit · book at karnot.com/applications/hotels

Want a one-page assessment for your property?

Send us your last 12 months of utility bills. We come back with a savings model, a tariff and a payback date — no commitment.

stuart.cox@karnot.com

karnot.com/applications/hotels