

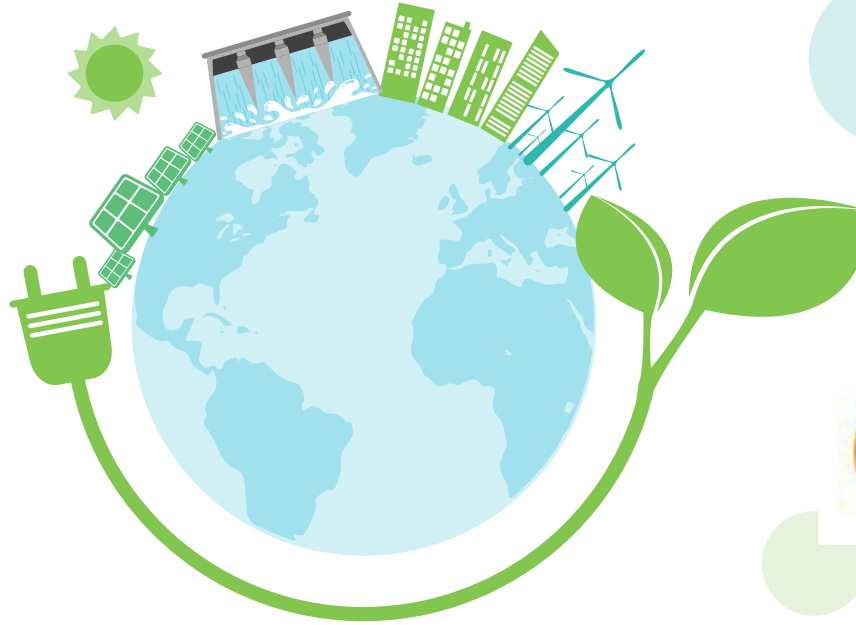


KANEPACKAGE PHILIPPINE INC.



JCM-Relevant Project Concepts from Japan and Philippines

January 21, 2026



SOLAR PV ROOFTOP SYSTEM



Company name KANEPACKAGE PHILIPPINE INC.

President Mr. YUJI KANEHIRA

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Branches: KP Lima, FPIP, Cebu, Cavite

TEL (049)545-7166 to 69

URL <http://www.kane-package.net/>

Establishment 1996/8/8

Capital PHP30,000,000

**Number of
employee** 700 (Including 5 of Japanese staff)

HQ カネパッケージ株式会社（埼玉県入間市南峯1095-15）

Business Cushion Components, Design, Evaluation, Manufacture
Sales of Corrugated Board Products and Packages

BACKGROUND OF THE PROJECT

Energy security & resiliency

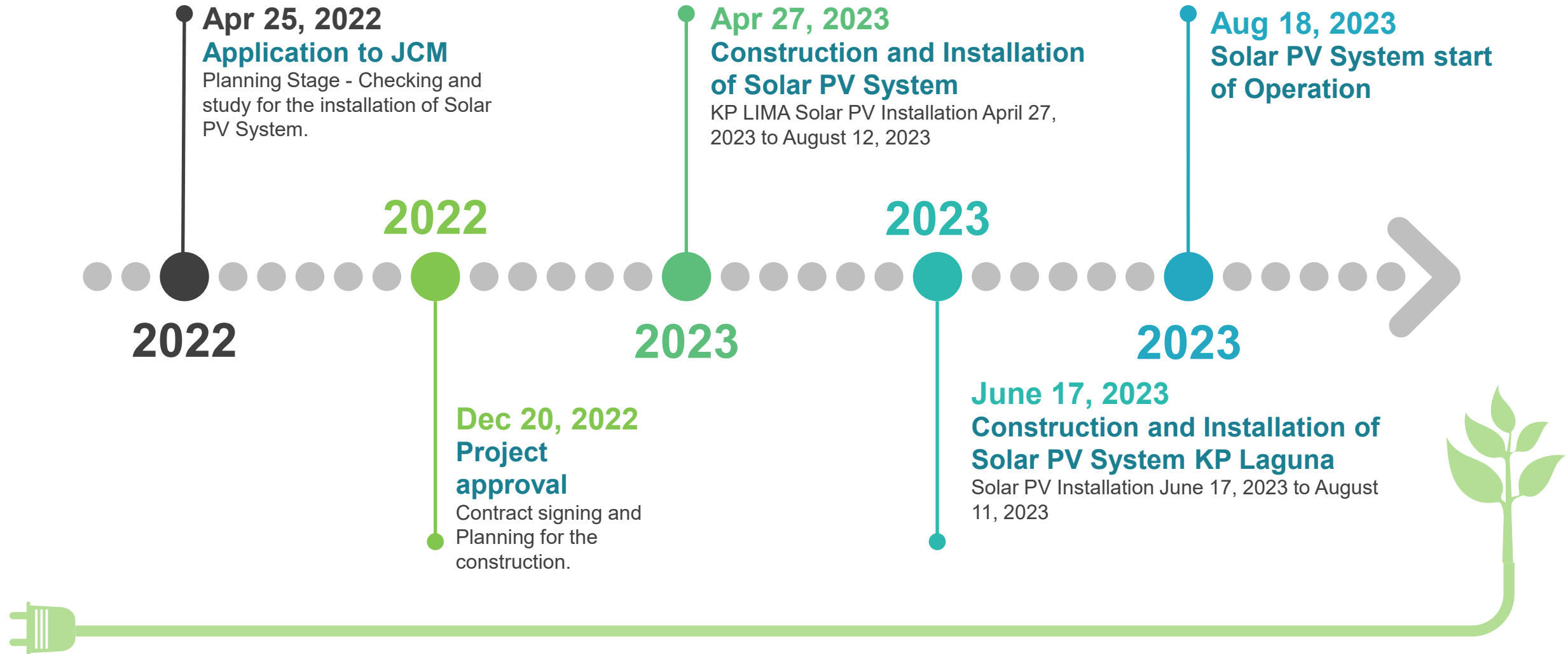
Sustainability / ESG and carbon reduction



Long-term asset value

Corporate reputation & employer branding

TIMELINE OF PROJECT IMPLEMENTATION



KP Lima (231kWp) and KP Calamba (154kWp) | Year 1: Sep 2023-Aug 2024 | Year 2: Sep 2024-Aug 2025

KP LIMA (231kWp)

	Year 1	Year 2
Actual PV (kWh)	206,641	210,875
Simulated Yield (kWh)	321,300	314,874
Curtailment (kWh)	88,587	90,884
Attainment (Actual)	64%	67%
Inc. Curtailment	92% vs sim	96% vs sim
Reported Savings (PHP)	1,154,634	1,712,829

Plant health notes: Y1: Inverters A & B operational error (Sep 2023). Y2: No major faults recorded.

KP CALAMBA (154kWp)

	Year 1	Year 2
Actual PV (kWh)	179,429	172,182
Simulated Yield (kWh)	207,129	203,543
Curtailment (kWh)	46,040	33,048
Attainment (Actual)	87%	85%
Inc. Curtailment	109% vs sim	101% vs sim
Reported Savings (PHP)	1,712,829	1,689,101

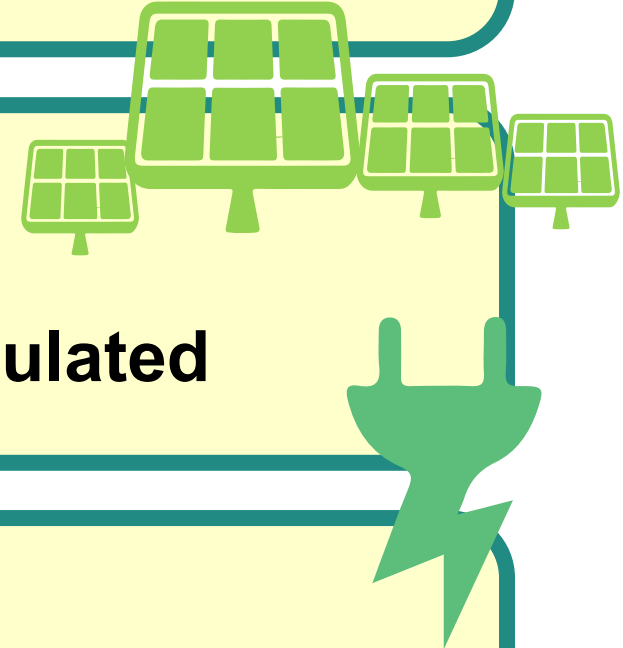
Plant health notes: Y1: No major faults recorded. Y2: No major faults recorded.

SOLAR PV
PERFORMANCE
(Year 1 vs Year 2)

OVERALL COMPARISON OF KP LIMA Y1 VS Y2:

ACTUAL PV ENERGY DELIVERED + SAVINGS

- Year 1: 206,641.30 kWh generated; ₱1,154,634.17 savings
- Year 2: 210,874.65 kWh generated; ₱1,707,879.46 savings



PLANT HEALTH:

- Year 1: 295,228.48 kWh, only 92% vs simulated
- Year 2: Overall attainment would reach 96% of simulated

CURTAILMENT

- Year 1 curtailed: 88,587.18 kWh; weekends contribute significantly
- Year 2 curtailed: 90,883.93 kWh; weekends still a major contributor

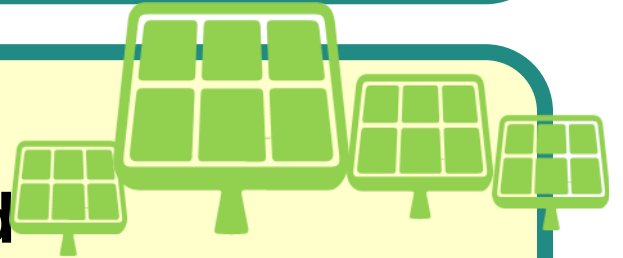
OVERALL COMPARISON OF KP CALAMBA Y1 VS Y2:

ACTUAL PV ENERGY DELIVERED + SAVINGS

- Year 1: 179,429.37 kWh generated; ₱1,712,828.95 savings
- Year 2: 172,181.51 kWh generated; ₱1,689,100.61 savings

PLANT HEALTH:

- Year 1: 225,469.00 kWh, only 109% vs simulated
- Year 2: Overall attainment would reach 101% of simulated



CURTAILMENT

- Year 1 curtailed: 46,039.63 kWh
- Year 2 curtailed: 33,048.01 kWh



CARBON REDUCTION

KP Lima: Carbon Reduction from Solar PV

C

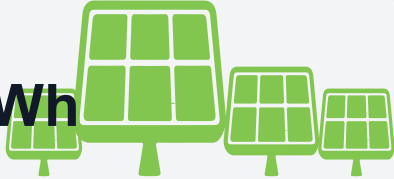
arbon
REDUCTION

Basis: PV energy consumed (kWh) × grid emission factor (0.0006935 tCO₂/kWh)

Total PV Used

485,670 kWh

2023–2025 total



Total CO₂ Reduced

336.81 tCO₂e

avoided emissions



Emission Factor

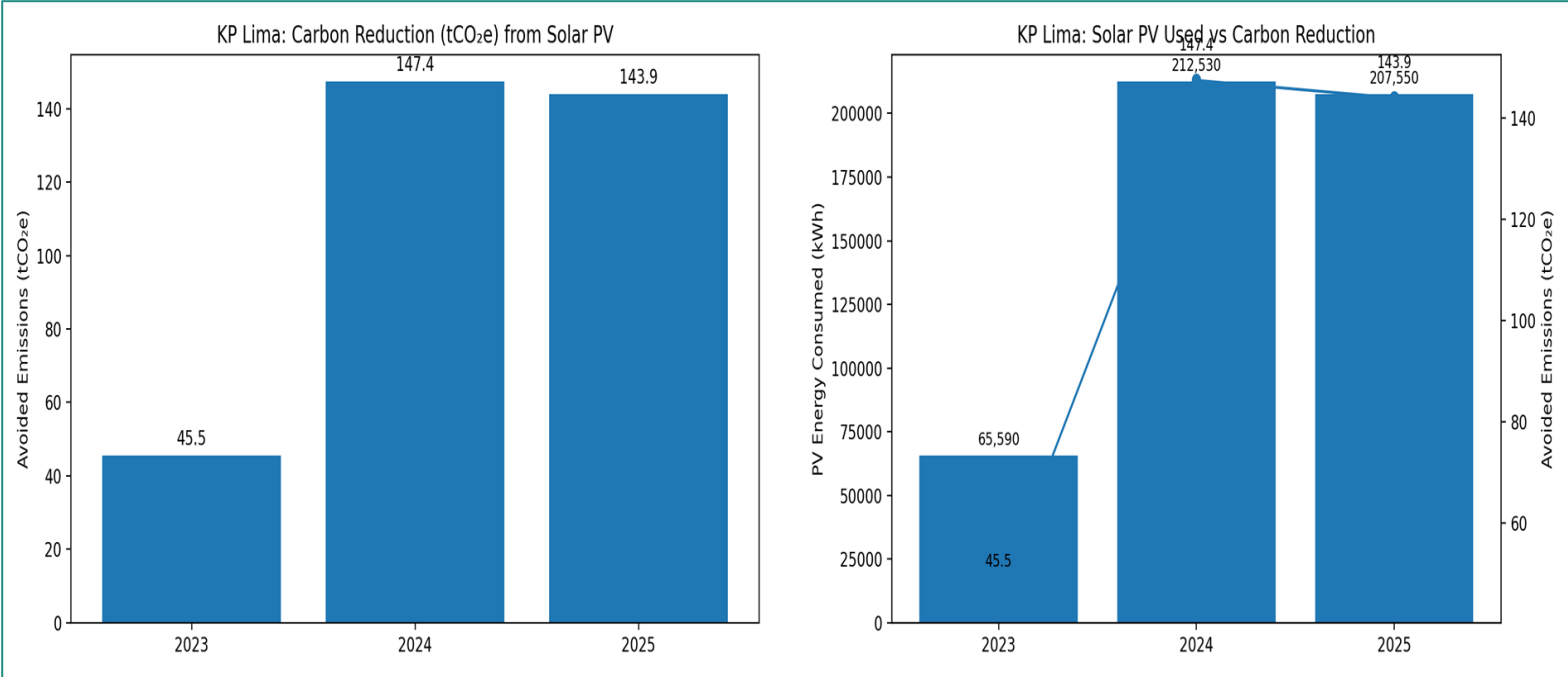
0.0006935

tCO₂ per kWh

Yearly breakdown

Year	PV Used (kWh)	CO ₂ Reduced (tCO ₂ e)
2025	207,550	143.94
2024	212,530	147.39
2023	65,590	45.49

- Total avoided emissions (2023–2025): **336.81 tCO₂e**
- Highest annual reduction: **2024 → (147.4 tCO₂e)**
- Method: PV Used (kWh) × 0.0006935 tCO₂/kWh



*Note: CO₂ reduced is calculated as avoided grid emissions.

KP Calamba: Carbon Reduction from Solar PV

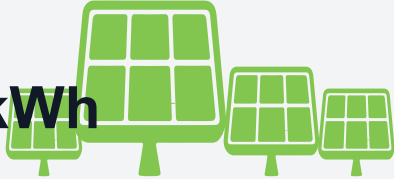


Basis: PV energy consumed (kWh) × grid emission factor (0.0006935 tCO₂/kWh)

Total PV Used

405,310 kWh

2023–2025 total



Total CO₂ Reduced

281.08 tCO₂e

avoided emissions



Emission Factor

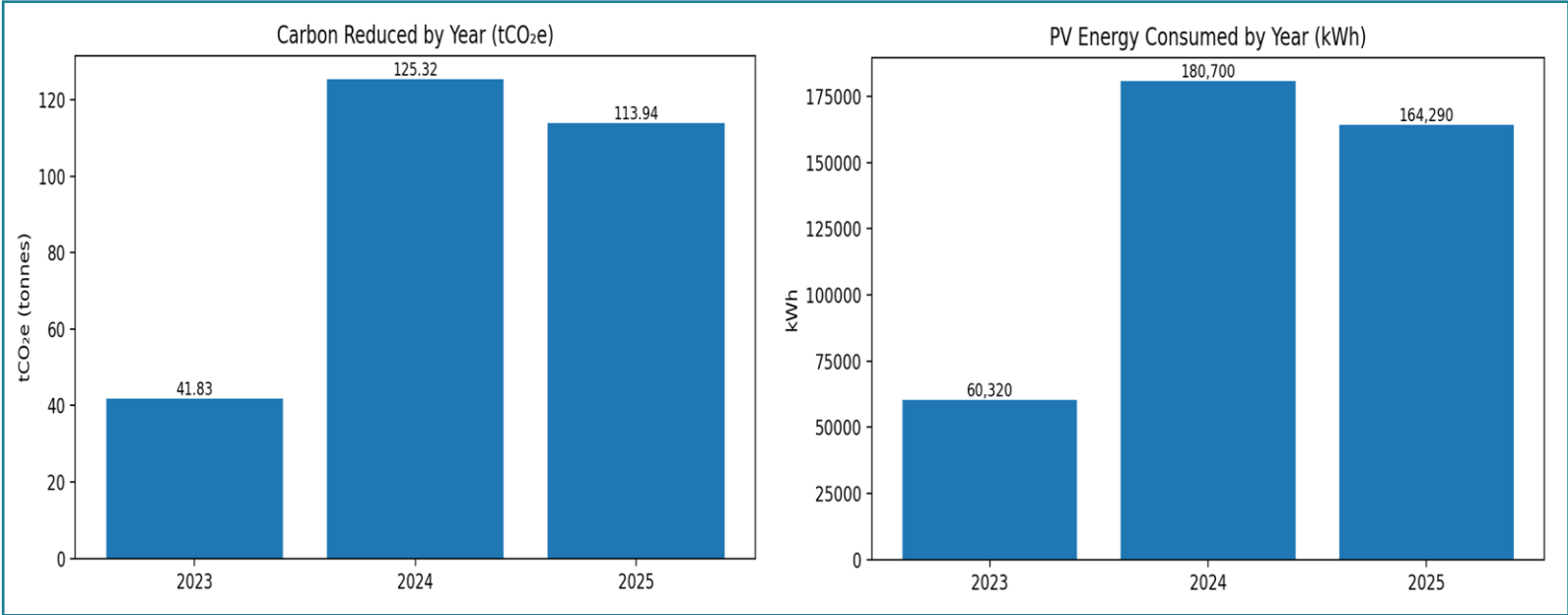
0.0006935

tCO₂ per kWh

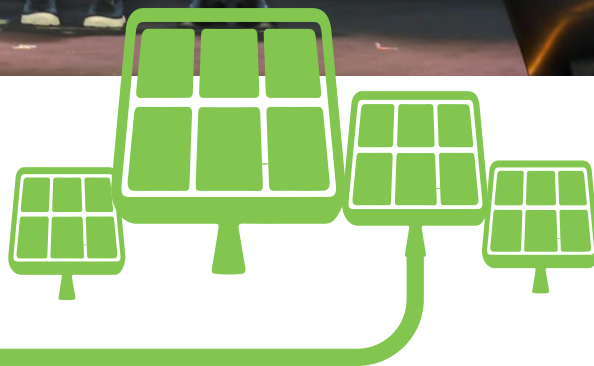
Yearly breakdown

Year	PV Used (kWh)	CO ₂ Reduced (tCO ₂ e)
2025	164,290	113.935
2024	180,700	125.315
2023	60,320	41.832

- Total avoided emissions (2023–2025): **281.08 tCO₂e**
- Highest annual reduction: **2024 → (125.315 tCO₂e)**
- Method: PV Used (kWh) × 0.0006935 tCO₂/kWh



Higher PV self-consumption generally increases avoided grid emissions (carbon reduction).



2025 PEZA OUTSTANDING ENVIRONMENT PERFORMANCE AWARDEE

Commended for its remarkable efforts in championing **environmental preservation** and promoting **sustainable development** for a greener, more resilient Philippines





THANK YOU