

# Energy Management Performance

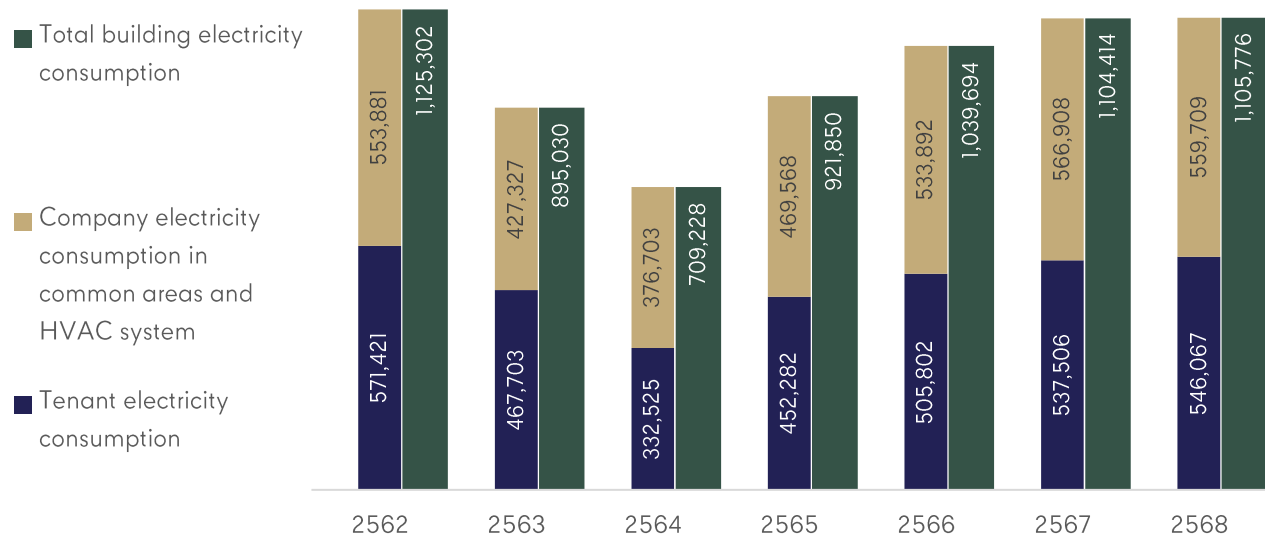
	<p><b>2025 Performance</b></p> <p><b>1.3%</b></p> <p>Reduce electricity consumption under the Company's control compared with 2024.</p> <p><b>25%</b></p> <p>Reduce the intensity of electricity use compared with the base year 2015.</p>	<p><b>Goal</b></p> <p><b>Short term 2025: 5%</b></p> <p>Reduce electricity use compared with 2024.</p> <p><b>Medium term 2034: 147 kWh / sqm. / year</b></p> <p>Electricity consumption intensity (Average only for new projects since 2024)</p>
	<p><b>2025 Performance</b></p> <p><b>3.62%</b></p> <p>Proportion of renewable energy to total energy use in the buildings.</p>	<p><b>Goal</b></p> <p><b>Short term 2025: 4.5%</b></p> <p><b>Medium term 2034: 10%</b></p> <p><b>Long term, year 2050: 90%</b></p> <p>Proportion of renewable energy sources to total electrical energy consumption.</p>

Results from the application of 6 engineering measures and the integration of smart technology  
Leads to concrete energy saving and cost reduction

## 01. Overall Energy Consumption

- Electricity from the Metropolitan Electricity Authority (MEA) and Provincial Electricity Authority (PEA) totaled **1,105,776 MWh**, accounting for **86%** of total energy consumption.
- Energy from fossil fuels (Gasoline, Diesel, Oil and LPG) totaled **138,054 MWh**, accounting for **11%**.
- The energy consumption rate is **296.4 kWh/sq.m./year**.

Total Non-renewable Electricity Consumption (MWh)



Number of properties for energy consumption calculation

	2019	2020	2021	2022	2023	2024	2025
Shopping malls and mixed-use projects	36	36	36	39	39	42	44
Office buildings (exclude those already included within mixed-use projects)	4	4	4	4	4	4	5
Community malls	14	14	14	15	15	15	15
Hotel	-	-	-	-	4	4	4

## 02. Results From Energy Conservation Measures and Value Creation

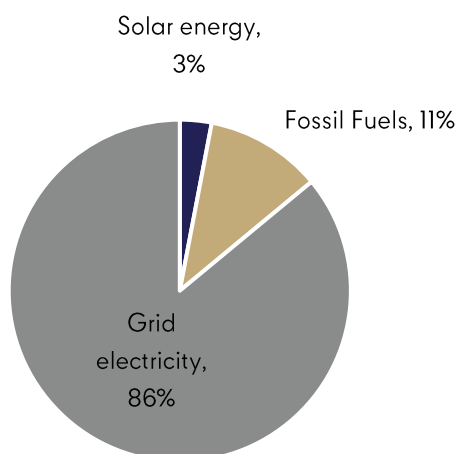
- From the implementation of energy conservation measures in 2025, a total of **66** measures, representing an investment value of **92** million baht.
- The goal is to reduce electricity consumption by **7,093** MWh per year. Already saved **6,855** MWh per year. (Achievement at **96.6%**).
- Representing savings and avoiding utility costs (Avoided OPEX) totaling **27.5** million baht.

<i>Measure</i>	<i>Economical results target (kilowatt hours per year)</i>	<i>Economical results target (kWh/year)</i>
1. Improving the building envelope and reducing hot air intake.	<ul style="list-style-type: none"> <li>• Installing a heat shield around the skylight glass</li> <li>• Installation of glass film</li> <li>• Auto Door installation</li> </ul>	131,081
2. Increase the efficiency of machinery and equipment	<ul style="list-style-type: none"> <li>• Changing LED bulbs</li> <li>• Changing the Chiller CDP&amp;CHP coolant pump and motor to high efficiency types.</li> <li>• Changing the water chiller to a high-efficiency type</li> <li>• Installation of VSD AHU</li> </ul>	3,998,950
3. Improving operation and maintenance process.	<ul style="list-style-type: none"> <li>• Cleaning the Chiller scale from the Cooler and Condenser sides.</li> <li>• Cleaning Condenser Tube</li> <li>• Improving the energy efficiency of CDP, CHP and various pumps</li> <li>• Adjust Frequency at VSD of CHP appropriately.</li> </ul>	3,998,950
4. Using renewable energy	<ul style="list-style-type: none"> <li>• Install Air Solar Hybrid by receiving direct current from solar panels. Come to supply coolness to the equipment in the elevator control room.</li> </ul>	143,730
5. Automation technology and control systems (IOT, BAS, CPMS)	<ul style="list-style-type: none"> <li>• Reducing the operating hours of LED bulbs by using a Photo Sensor.</li> </ul>	3,938
6. Personnel training (Energy Training)	<ul style="list-style-type: none"> <li>• Energy training and workshops on energy measures, air conditioning system, internal audit, and intensive energy conservation, totaling <b>31</b> courses, with more than <b>1,816</b> employees participating (covering <b>30.7%</b> of all employees) to enhance knowledge and potential in operating in sustainable energy conservation.</li> </ul>	-

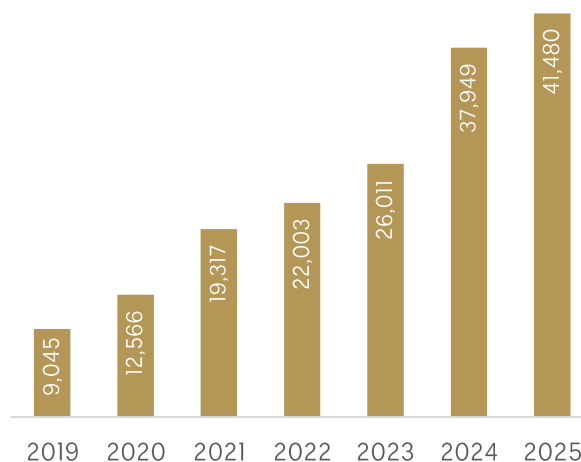
### 03. Renewable Energy Production

- In 2025, the Company has made progress in installing a solar power generation system as planned. Total installed capacity increased to **35.84 MW**, covering **31** shopping centers, **1** hotel, **3** office buildings, and **6** residential projects (installed on the roof of the clubhouse building), This accounted for **47%** of all projects and **70%** only for shopping center projects.
- The Company produced a total of **40,158 MWh** of clean energy for operations within the organization, an increase of **358%** from 2019, which significantly reduces reliance on electricity from the main transmission system.
- For 2026, the Company plans to expand solar installations in new projects and install systems in an additional **30** projects, increasing production capacity by **25.7 MW**, totaling the Company's cumulative installed capacity of **61.8 MW**.

2025 Building Energy Consumption



Renewable Energy Utilization (kWh)



### 04. Achievement in Tenant Participation

Central Pattana has been pushing the Central Pattana Green Partnership project for the 4th consecutive year by expanding it to office tenants who have sustainability guidelines in line with the Company. In 2025, there will be 175 brands, 2,700 shops and space tenants participating in the project (including continuing participants and office tenants), which such synergy has created a positive impact concretely in 3 dimensions as follows.

- **Dimension of financial returns for tenants** In developing corporate carbon reduction strategies for pilot stores in 3 store categories, the main strategy focus on reducing electricity consumption in stores. The assessment found that the Company was able to help tenant shops reduce operating costs (Avoided OPEX), by more than 22 million baht per year (calculating from reducing 4.4 million kWh), strengthening the long-term business resilience of our partners.
- **Dimension of sustainability commitments** Central Pattana collaborates with tenant stores to organize 100% Energy Day activities (only branches that have been open for a full year). These activities help raise awareness and promote concrete energy-saving behaviors among tenants.

## 05. Digital Technology Integration

The Company piloted the implementation of a centralized corporate environmental data management platform, or BMS, and further advanced the initiative into an AI Chiller Plant Management system, covering **2** targeted shopping center branches. The Company is preparing to expand the rollout to another **20** branches by 2026.

## 06. Efficiency in Managing Electricity Demand

Central Pattana has partnered with the Provincial Electricity Authority (PEA), the main electricity supplier, in the Demand Management Program since 2023 to help reduce peak electricity demand. Through this initiative, the Company was able to reduce peak demand by **71.13** MWh per year, resulting in avoided electricity demand costs of approximately **0.56** million baht.

Electricity Intensity (kWh/sq.m.)

