Power Usage Effectiveness (PUE)

Data Center Load

Total Facility Energy

Power

- Transformer
- UPS
- Rectifier
- Light
- PUD
- Etc.

Cooling

- Chillers
- Precision Air
- Comfort Air
- Cooling Tower

IT Equipment Energy

IT Load

- Servers
- Storages
- Telco equipment
- Etc.

$$PUE = \frac{\text{Total Facility Energy}}{\text{IT Equipment Energy}}$$

Power Usage Effectiveness 2025

In 2025, the Company enhanced the energy efficiency of its data centers by setting a target to maintain Power Usage Effectiveness (PUE) at no higher than 1.7, thereby minimizing power losses and improving overall operational efficiency.

In UPS (kWh)	% Loss	Out UPS (kWh)	Non-UPS (kWh)	Total PUE
25,479,708	6.61%	23,795,091	13,289,987	1.629

$$PUE = \frac{\text{Total Facility Energy}}{\text{IT Equipment Energy}}$$

$$PUE = \frac{25,479,708 + 13,289,987}{23,795,091} = 1.629$$

Power Usage Effectiveness Performance

Year	2022	2023*	2024	2025
Average PUE	1.684	1.663	1.656	1.629
Coverage (% of total ICT population)	100	100	100	100

Note:
- PUE Target 1.700
- Combined Performance True and dtac since 2023

Renewable Energy 2025

In 2025, renewable electricity accounted for 36.10% of total electricity consumption, exceeding the target of 35%. Renewable energy adoption (particularly solar power) continues to expand as part of the Company's decarbonization efforts.

Data Center Energy Usage (MWh)	Electricity Generation from Solar Cell (MWh)	Percentage of Renewable Energy of total energy
38,770	13,996	36.1%

$$\% \text{ of Renewable Energy (of total energy)} = \frac{\text{Electricity Generated from Solar Cells}}{\text{Data Center Energy Used}} \times 100$$

Renewable Energy Performance

Year	2022	2023*	2024	2025
Total Energy Consumption in Data Centers (MWh)	37,586	37,437	38,912	38,770
Percentage of Renewable Energy of total energy (%)	33.18	34.19	35.22	36.10

Note:
- Percentage of Renewable Energy Target 35%
- Combined Performance True and dtac since 2023