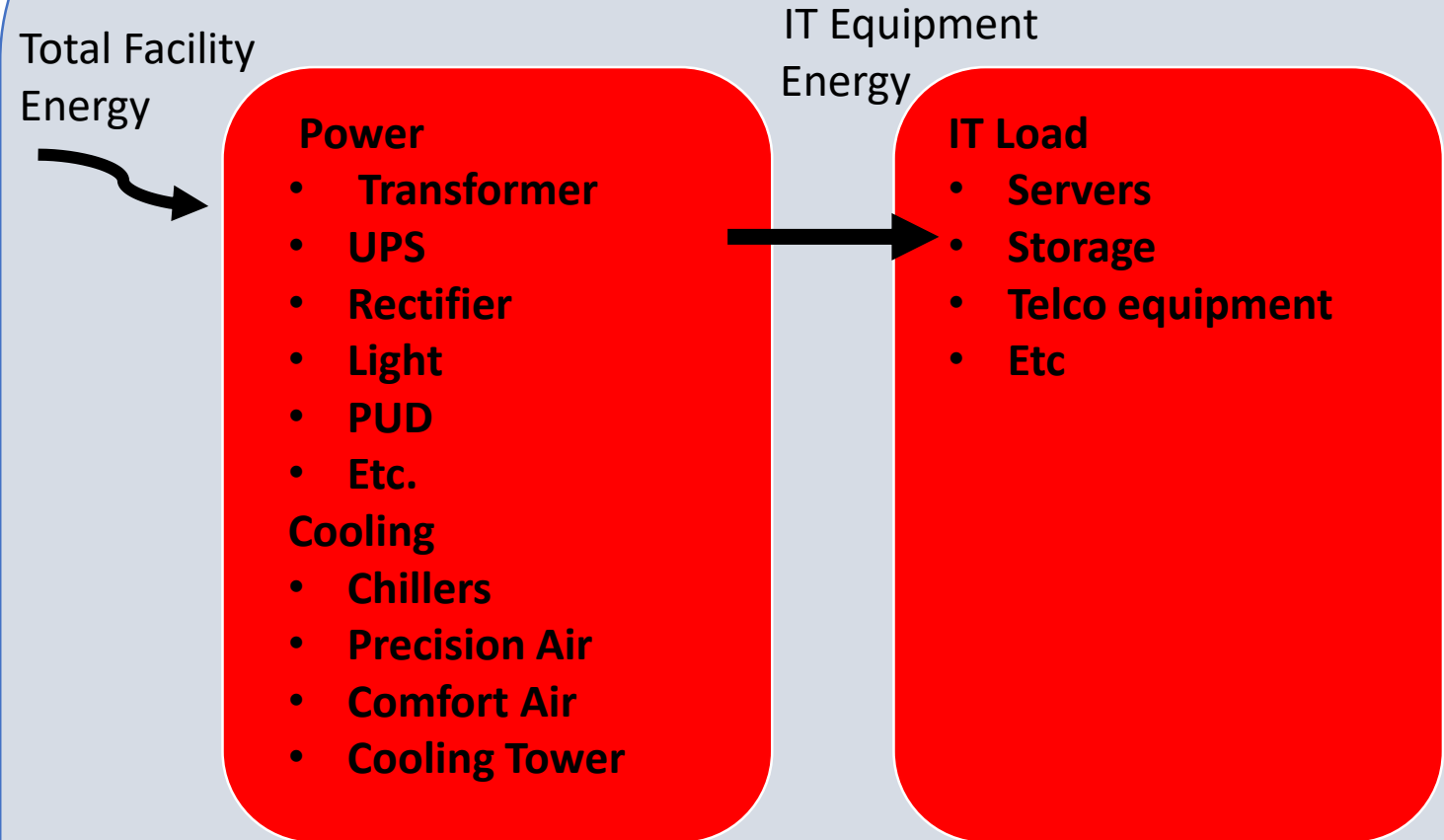


**POWER USAGE
EFFECTIVENESS**
True Group

Data Center Load



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

POWER USAGE EFFECTIVENESS 2020

True group-2020

In UPS (kWh)	% Loss	Out UPS (kWh)	Non UPS (kWh)	Total PUE
22,982,416	7%	21,275,368	13,864,943	1.732

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

$$\frac{22,982,416 \text{ kWh} + 13,864,943 \text{ kWh}}{21,275,368 \text{ kWh}} = 1.732$$

POWER USAGE EFFECTIVENESS PERFORMANCE

Year	2016	2017	2018	2019	2020
PUE Target	1.800				
Average PUE	1.739	1.728	1.799	1.771	1.732
Coverage (% of total ICT population)	100	100	100	100	100

RENEWABLE ENERGY 2020

True group - 2020

Data Center Energy Usage (MWh.)	Electricity Generated from Solar Cells (MWh.)	% of Renewable Energy (of total energy)
36,847.36	5,622.10	15.26

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

$$\frac{5,622.10 \text{ MWh}}{36,847.36 \text{ MWh}} \times 100 = 15.26 \%$$

RENEWABLE ENERGY PERFORMANCE

Year	2016	2017	2018	2019	2020
Renewable Energy Target (Percentage of renewable energy of total energy)	1				10
Total energy used in data centers (MWh)	6,071	11,650	9,719	33,496	36,847
Percentage of renewable energy (of total energy)	0.24	0.26	0.31	1.67	15.26