



In our product energy-saving evaluation, USI's eco-design products saved 22,023 MWh, equivalent to reducing 14,191 metric tonnes of CO₂ and accounting for 10.14% of USI's total revenue.

Product Energy Efficiency Evaluation

Product Category	Communication	Consumer Electronics	Cloud and Storage	Industrial	Automobile Electronic	Total
Energy Saving in 2022 (kWh)	684,542	39,420	4,324,796	13,300	16,960,801	22,022,859

To intensify the promotion of green products, USI established the Green Design Innovation and Invention Patent Incentive System at the end of 2017. We give weighted scores to green-related designs to encourage a green and innovative corporate culture and facilitate green design proposals. In 2022, green products were designed based on the four main aspects of green product eco-design and four directions of green promise, the results of green-related design are as follows:

USI's Green Design in 2022

Product Design Aspect	Key Features	Performances
Choice of raw materials or components that have a lower environmental footprint	▶ Miniaturization design	<ul style="list-style-type: none"> ▶ Reduced raw material usage by a total of 5,664 kg in the annual shipment of miniaturized products <ul style="list-style-type: none"> • In terms of optimal circuit design, CAD reports are used to optimize the layout of components and wiring, reducing the use of capacitive/resistive components by up to 11.5% • The antenna design for wearable devices continues to replace existing parts with small, slim, and lightweight parts, and the modular design saves up to 56% of the material area for the reference circuit board area
	▶ Hazardous Substance Free management	▶ 100% met RoHS environmental protection requirements
Direct operations, production & manufacturing	▶ Reduction waste	▶ Improved shared specifications by using the same size shield, thus reducing the use of mold material by up to 75%
	▶ Product testing operating efficiently	▶ Streamlined the product testing process and reduced testing lead time by up to 11% to reduce energy consumption in the production line
	▶ Manufacture CO ₂ reduction and circular	<ul style="list-style-type: none"> ▶ Facilities promote energy-saving schemes, which saved a total of 1,563 MWh of electricity and reduced CO₂ emissions by 960 metric tonnes ▶ We plan to recycle as much water as possible via improvement of equipment and technology, the process water recycling rate of 78.1%
Distribution, storage, and transportation	▶ Using recyclable and reusable packaging material	▶ USI recycled and reused about 30,000 plastic pallets, 10,000 wood pallets, 6.43 million trays, 150,000 partitions, and 350,000 recycling bins, reducing a total of 828 metric tonnes of waste
Use phase - operation and servicing/maintenance	▶ Improve energy efficiency	▶ The DC-DC conversion efficiency of the DC power supply of the server product is more than 90.4%
	▶ Energy efficiency regulations	<ul style="list-style-type: none"> ▶ All internal power supplies complied with 80 Plus Titanium certification ▶ 100% in compliance with the California Energy Commission Appliance Efficiency Regulations (CEC), European Commission's Eco-design Directive (EU ErP Lot 3, Lot 26) and the latest regulations of the EU Code of Conduct Tier 2 (CoC Tier-2)
	▶ Energy-saving	▶ In our product energy-saving evaluation, eco-design products saved 22,023 MWh
End of life management	▶ Meet WEEE criteria	<ul style="list-style-type: none"> ▶ Collaborated with customers and 100% met WEEE criteria in mechanical parts design ▶ 33,362 kg of recyclable and reusable materials were used in USI's annual shipments