Our chip story

TI constantly works to enable more energy-efficient semiconductor chips while operating responsibly and reducing environmental impact.

Responsible sourcing

100% of metals* for integrated circuit chips are from certified conflict-free sources

99% of production suppliers (in the top 80% of our supplier spend) participated in an assessment of their environmental and social programs

*Tantalum, tin, tungsten and gold

Manufacturing efficiency*

ENERGY

↓8%

Average annual energy reductions per chip

WATER

↓6%

Average annual water reductions per chip

GHG EMISSIONS

↓6%

Average annual greenhouse gas reductions per chip

WASTE

92% average annual hazardous and nonhazardous waste recycled

*Average from a 2005 baseline.

Chip efficiency

The energy required to operate a chip for a year can be as little as:

AAA

0.15 Watt-hours

Operational energy can be so low that some chips will run for more than 10 years on a single AAA battery.

Some chips are so efficient that they can operate on ambient energy harvested from light, heat or vibration.

↓7% Average annual reduction of energy needed to operate a typical chip

Customer applications

The use of TI products in just two applications can enable significant annual savings:

MOTORS

45% of global energy use

If all U.S. homes used a variable frequency drive (with TI chips) to run just their air-conditioner fan, it could reduce U.S. energy consumption by almost 2% and save consumers: **$7 billion**

LIGHTING

20% of global energy use

If all U.S. homes switched to energy efficient LED bulbs (with TI chips) it could reduce U.S. power consumption 3% and save consumers: **$11 billion**

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