

# 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.

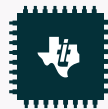
## Chip efficiency

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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