

Energy Intensity Calculator

Calculate energy and cost intensity from annual electricity use, served floor area, and energy rate for a building-level screening view.

Generated October 10, 2026

<https://www.elecatrix.com/power-energy-cost/energy-intensity-calculator/>

Inputs

Input	Value	Unit
Annual energy	100000	kWh/year
Floor area	50000	ft^2
Electricity rate	0.16	\$/kWh

Results

Result	Value	Unit
Energy intensity per square foot	2	kWh/ft^2
Energy intensity per 1000 square feet	2000	kWh/1000 ft^2
Annual energy cost	16000	\$/year
Energy cost per square foot	0.32	\$/ft^2

Calculation details

Detail	Value	Unit
Calculation basis	Energy intensity equals annual energy divided by floor area. Cost intensity multiplies annual energy by the entered rate and divides by floor area.	
Boundary	Screening estimate only; no weather normalization, occupancy normalization, process normalization, or benchmark comparison is made by this calculator.	

Formulas

energy intensity kWh per ft^2 = annual energy kWh / floor area

energy intensity kWh per 1000 ft^2 = energy intensity x 1000

annual energy cost = annual energy kWh x electricity rate

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energy cost per square foot = annual energy cost / floor area

Warnings and limitations

This energy-intensity estimate uses entered annual energy and floor area only. It does not model weather normalization, occupancy, process variation, or benchmark methodology.