

Generator Fuel Cost Calculator

Projects generator fuel use, total fuel expense, and hourly operating cost from entered burn rate, runtime, and fuel price.

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

Inputs

Input	Value	Unit
Fuel burn rate	1.8	gal/h
Runtime	10	h
Fuel price	4.25	\$/gal

Results

Result	Value	Unit
Fuel used	18	gal
Fuel cost	76.5	\$
Cost per hour	7.65	\$/h

Calculation details

Detail	Value	Unit
Calculation basis	Fuel used equals burn rate multiplied by runtime. Fuel cost equals fuel used multiplied by the entered price.	
Fuel boundary	Screening estimate only; no tank sizing, run-profile, warm-up, idling, delivery, maintenance, tax, or fuel-quality result is made by this calculator.	

Formulas

$$G_{\text{used}} = r_{\text{fuel}} \times t_{\text{run}}$$

$$C_{\text{fuel}} = G_{\text{used}} \times p_{\text{fuel}}$$

$$C_{\text{hour}} = r_{\text{fuel}} \times p_{\text{fuel}}$$

Warnings and limitations

This generator fuel-cost estimate uses entered burn rate, runtime, and fuel price only. It does not model tank size, load variability, warm-up, idling, site conditions, duty cycle, maintenance, taxes, delivery charges, or fuel quality.