

Residential Service Headroom Calculator

Estimate residential service headroom before a planned load by comparing entered service capacity, existing peak demand, planned added load, and an entered coincidence factor.

Generated October 10, 2026

<https://www.elecatrix.com/residential-load-service/residential-service-headroom-calculator/>

Inputs

Input	Value	Unit
Entered service capacity	24	kW
Existing peak load	15	kW
Planned added load	5.5	kW
Entered coincidence factor	80	%

Results

Result	Value	Unit
Current service headroom	9	kW
Coincident added load	4.4	kW
Headroom after added load	4.6	kW

Status

Status	Value	Unit
Headroom note	Entered service headroom remains positive.	

Calculation details

Detail	Value	Unit
Calculation basis	Service headroom is calculated by subtracting existing peak and coincident added load from entered service capacity.	
Review boundary	Planning estimate only; no service size, load-control, utility, or code-compliance approval is made.	

Formulas

Current headroom=Service capacity-Existing peak

Coincident added load=Planned added load x Coincidence factor/100

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Headroom after added load=Current headroom-Coincident added load

Warnings and limitations

This residential service headroom estimate does not determine final service size, approve load controls, select service equipment, or replace utility/AHJ review.