ENERGY FOR EVERYONE®
propane

Home Generator Sizing: Matching Power Needs to Energy Demands

LOWER ELECTRIC LOADS AND SAVE MONEY WITH PROPANE APPLIANCES

Builders and homeowners understand the value of whole-home backup power — but a generator's size and cost depend on the home's electrical load. By choosing propane appliances like water heaters and furnaces instead of electric models, homeowners can lower that load, enabling a smaller, more affordable generator and saving thousands in upfront costs.



PROPANE/ELECTRIC HOME

4 Bedroom | 3 Bath | 3,200 Square Feet
16kW Standby Generator



$3-6K

GENERATOR PURCHASE PRICE

By using propane appliances, this home reduces its reliance on electricity, enabling better performance, greater efficiency, and cost savings with a smaller generator.

Propane Appliances
Water Heater, Furnace, Cooking Appliances, Clothes Dryer

Electric Appliances
Sump Pump, Air Conditioner, Refrigerator/ Freezer, Microwave

ALL-ELECTRIC HOME

4 Bedroom | 3 Bath | 3,200 Square Feet
22kW Standby Generator



$5-8K

GENERATOR PURCHASE PRICE

This home uses only electric appliances, requiring a larger, more costly generator to meet its power needs.

Propane Appliances
None

Electric Appliances
Water Heater, Furnace, Cooking Appliances, Clothes Dryer, Sump Pump, Air Conditioner, Refrigerator/Freezer, Microwave



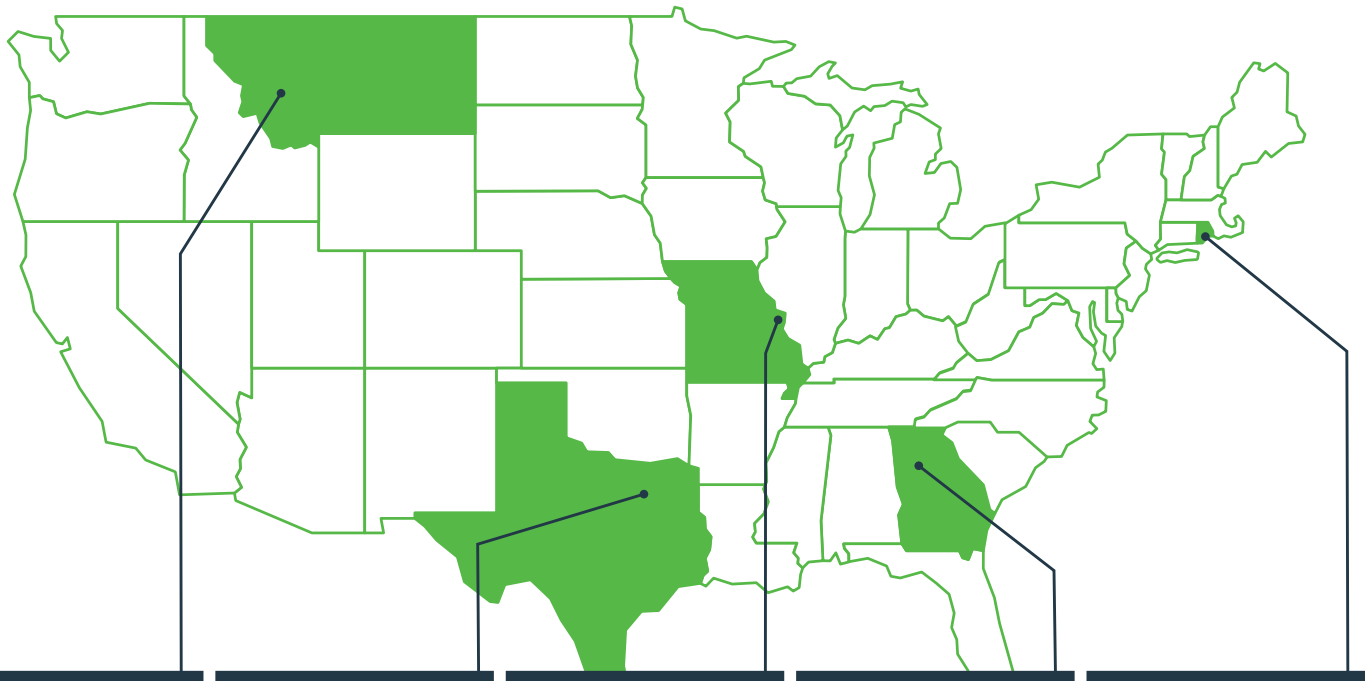
The Savings are Real with Propane

Builders and homeowners can reduce costs on a whole-home standby generator while enhancing comfort, efficiency, and energy savings by choosing propane appliances over electric. Regardless of location or climate, homes with propane appliances enjoy these advantages. Additionally, homes that use a mix of propane and electric appliances require a smaller kW generator compared to all-electric homes.

RECOMMENDED GENERATOR CAPACITY

By analyzing a 3,200 sq. ft., four-bedroom, three-bath home on a slab foundation across five states, the results are clear: in every region, regardless of climate, a dual-fuel home uses less electricity and requires a smaller generator.

DUAL-FUEL HOMES	ALL-ELECTRIC HOMES
9kW to 16kW	16kW to 22kW



WESTERN	SOUTHWESTERN	MIDWESTERN	SOUTHEASTERN	NORTHEASTERN
Helena, MT	Dallas, TX	St. Louis, MO	Atlanta, GA	Providence, RI

To learn more about building with propane appliances and propane standby power, visit **propane.com**.

200 S. 10th Street, Suite 1075 / Richmond, VA 23219
P 202-452-8975 / F 202-452-9054

Propane Education & Research Council

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