



# Stable Power, Predictable Bills:

## How Nuclear Energy Stabilizes Costs

### What is energy cost-stability?

Energy cost stability is the ability of the power system to deliver electricity at predictable, consistent prices over time. Stable energy costs protect households and businesses from sudden spikes in utility bills driven by fuel price volatility, supply disruptions, or extreme weather events.



### What drives cost-stability on utility bills?

Fuel costs are a major driver of electricity prices and can make up as much as 80–90% of total generation costs. When power generation relies on fuels tied to volatile global markets, price spikes quickly translate into higher utility bills. In contrast, resources with low and predictable operating costs, like nuclear, help stabilize electricity prices. That's why a diverse energy mix anchored by stable resources is key to keeping electricity costs steady for consumers over time.



### How does nuclear energy support cost-stability?

Nuclear energy plays a key role in stabilizing electricity costs due to its unique cost structure. Fuel accounts for only about 20% of total nuclear generation costs, making nuclear far less sensitive to global commodity price fluctuations. Once built, nuclear plants operate with low and predictable costs and can run continuously for decades, providing consistent, always-on power.

This reliability reduces dependence on more volatile energy sources and helps stabilize wholesale electricity markets during periods of high demand or fuel price spikes. With average generation costs of less than 3.1 cents per kilowatt-hour<sup>1</sup>, nuclear energy offers a dependable, low-cost foundation for the grid.

By anchoring the energy mix with stable, long-term generation, nuclear energy helps deliver more predictable utility bills for consumers and greater certainty for energy planning.



#### SOURCES

[1] <https://www.nei.org/getContentAsset/de14ddc6-52de-4925-a0f6-a7849971d149/8d8ff8d6-b2ae-401b-a63c-f6b108e809d2/Just-The-Facts-21.pdf>