

# Small Reactors Hold the Key to America's Energy Future

## *Federal Program Ushers in a New Era of Clean Power and Job Growth*

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Ever since the 1950s, when the age of televisions, air conditioning, and other modern conveniences first became household necessities, America has been on an electricity binge.

We've consumed electricity with an insatiable appetite, driven even higher in the past 30 years by the technology boom. With the explosive growth in personal computers, cell phones, tablets, video games, big-screen TV's, kitchen appliances, and the sheer size of new homes, America has doubled-down on its need for more and more readily-available, clean and affordable electricity.

The net effect of this trend is that the U.S. Energy Information Administration now predicts that total U.S. electricity consumption will increase 28% by 2040. That means we'll need to build an additional one trillion kilowatt-hours of generating capacity in the next 25 years.

But much of that growth will not come from major cities. It will come from those areas in states like (STATE) where the population is rising—high-growth areas outside the cities where residential, commercial and retail development has found room to expand and needs energy to make it successful.

And there's the problem—this new energy demand is too great for most utilities to meet with their existing generating capacity, but not large enough to justify the large capital cost of a new 300-500 megawatt power plant. What these utilities need for powering the 21<sup>st</sup> century is a smaller-scale plant that can come online quickly, meet demand and support economic growth, all while protecting the environment and controlling costs.

New technology is now available to add new small-scale power right where it's most needed—and it's American-made, clean and affordable. Small, modular nuclear reactors developed by Westinghouse are smaller than traditional peak power stations, more compact and can produce enough electricity for a community of 45,000 homes, or a city the size of (CITY).

The Obama administration is interested in small, modular reactors, or SMR's, that can be built and brought online soon to help keep pace with the rising demand for electricity. SMRs hold promise for new and untapped markets and can replace aging oil, gas and coal-fired plants. But most importantly, they provide utilities with just enough new capacity power growth in a region at a lower cost than large-scale plants.

Westinghouse Electric Company has led the world in nuclear power technology for more than 50 years, and now leads the industry in the development of SMR technology. More than 60 percent of the United States' nuclear plants and about half of the world's plants are based on Westinghouse technology.

That's why we're certain that the SMR represents a significant opportunity to extend the benefits of nuclear power into America's energy grid while, at the same time, powering economic development and job growth. SMR technology can provide a significant boost to U.S. economic growth, creating thousands of well-paying engineering, construction and manufacturing jobs as well as up to 300 permanent operational and maintenance jobs at each operating SMR power station. And 100 percent of the components for the SMR will be provided by American suppliers, making Westinghouse SMR technology one of the largest "Made in the USA" technology industries in America.

Just try to find any other U.S.-made product that can make such a claim.

Westinghouse SMR technology incorporates a design that takes plant safety to levels never before possible. The safety features in the Westinghouse SMR reactor eliminate many of the electrical components that failed in the Fukushima-Daiichi accident of 2011 and with them, virtually all of the risks that plagued the Japanese reactor.

So as the federal government considers the best course of action for making small modular reactors a part of America's energy portfolio, there can be no doubt that Westinghouse is the clear choice to make this technology available. It's not for government to pick winners and losers; that's for the marketplace to decide. But a return on the taxpayers' investment in the federal technology development program is vital to ensure the commercial feasibility of these plants. So it's worth noting that Westinghouse has already completed an SMR fuel test in South Carolina, giving our technology a significant head start toward commercialization. Hence, the Westinghouse SMR has the best chance for being licensed and deployed first, a critical goal of the federal nuclear SMR program.

Unfortunately, Westinghouse thus far hasn't been awarded federal funding to bring our SMR technology to market. All that is required to make the best use of taxpayer dollars and satisfy the basic requirements of fairness and opportunity is to include Westinghouse in the portfolio of SMR reactors receiving this funding. Our technology represents the future of energy technology and our experience, capabilities and expertise will ensure that SMR plants can be commercialized quickly and put more Americans to work now.

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