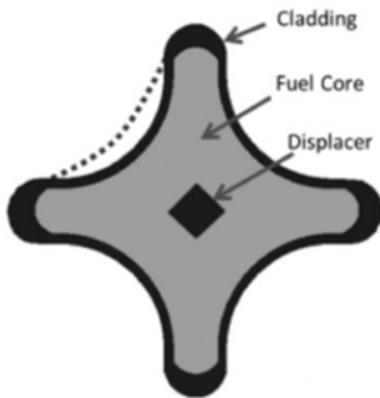


Fact Sheet: Lightbridge Corporation

Key Facts

- Committed to addressing the world's climate and energy problems through advanced nuclear technology.
- Developing innovative nuclear fuel that is safer, more efficient and cost competitive than existing designs.
- America's leading plant operators have officially registered interest in Lightbridge fuel to the U.S. NRC.
- Industry's first application to load Lightbridge fuel in a U.S. commercial reactor is expected in 2017.



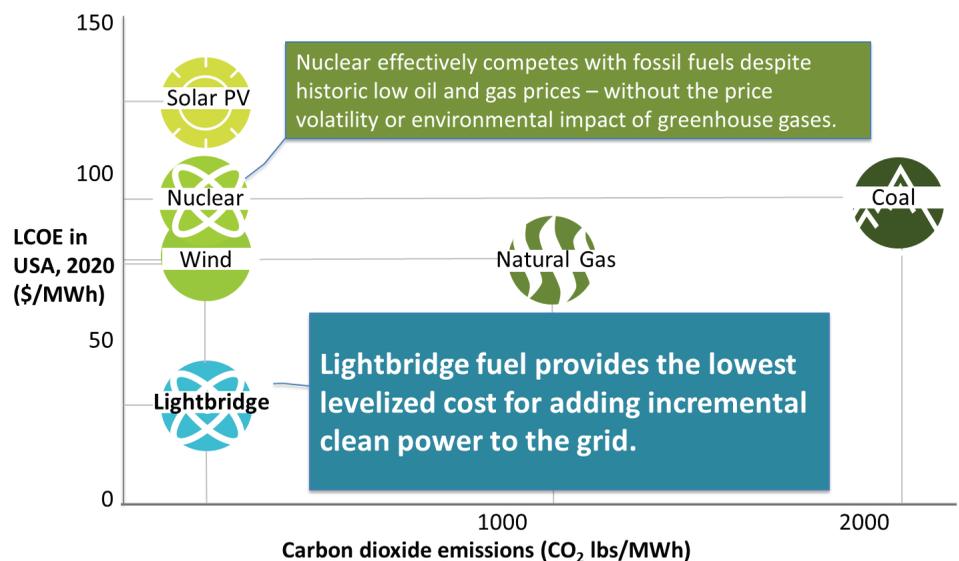
About Lightbridge

Lightbridge Corporation (NASDAQ: LTBR) is a U.S.-based, publicly-traded company headquartered in Reston, Virginia. Lightbridge has developed a proprietary, independently-validated fuel technology capable of transforming the safety, efficiency and economic competitiveness of today's nuclear power plants. Lightbridge is also advising the most promising emerging nuclear markets as they plan to introduce nuclear generation into their respective electricity mix.

Nuclear Energy That Is More Efficient

With feedback from America's leading nuclear operators, Lightbridge designed a new fuel utilities can use in existing and new power reactors. Lightbridge's more efficient fuel design allows reactors to operate at significantly lower temperatures while extracting more heat from the fuel core, resulting in greater electricity output. With Lightbridge fuel, existing pressurized water reactors can achieve 10 percent power increases and add six months to their fuel cycles, from 18 to 24 months. Thus Lightbridge fuel alone could vastly improve nuclear plant economics in the near-term.

Generating Sources: How Cost and CO₂ Emissions Compare



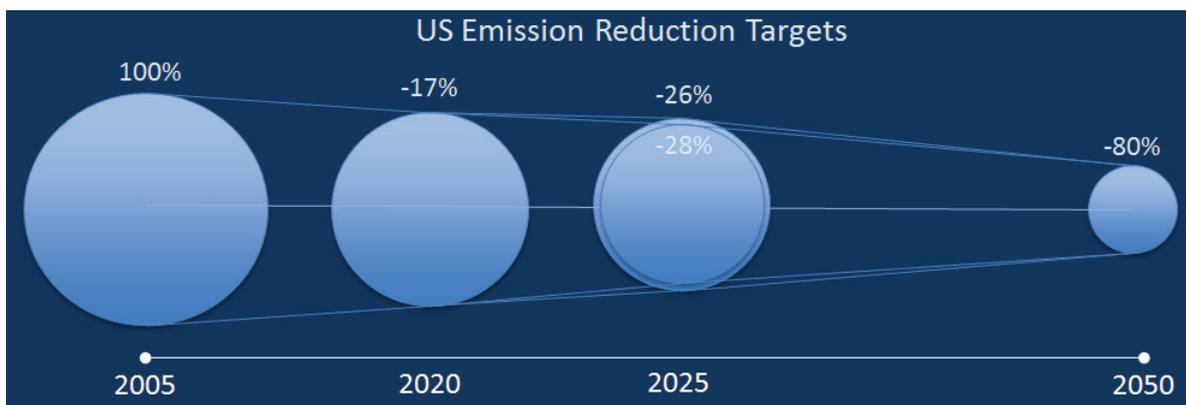
LCOE: Levelized cost of electricity.
Sources: US Energy Information Administration, Annual Energy Outlook 2016

Nuclear Energy That Is Safer

Lightbridge's innovative fuel design is markedly safer than the fuel currently used in reactors. Lightbridge fuel achieves these safety advantages by metallurgically bonding the fuel rod components during the fabrication process, improving the rod's integrity while eliminating a potential source of radiation release. The unique shape of Lightbridge's fuel design increases its surface area by 35 percent and improves its ability to cool by creating a 40 percent shorter distance between the heat and water. Because Lightbridge's design allows the fuel to operate at temperatures 1000°C cooler than conventional fuel and has superior heat conductivity, cooldown is much more rapid in the unlikely event of a serious accident.

Helping Achieve Pressing Climate Goals

Nuclear energy must make a significant—and growing—contribution to the global energy mix if the world is to meet increasing energy demands while reducing the impact of carbon emissions. Wind, solar and new types of reactors simply cannot be brought online soon enough at large enough scale to make the difference. Lightbridge will bring to market a transformational technology for meeting our energy needs, combating climate change and increasing safety and capacity, while lowering the costs of operating existing and new nuclear power plants.



Working With Leading Nuclear Companies

Dominion, Duke Energy, Exelon and Southern Company—utilities representing 50 percent of installed U.S. nuclear generating capacity—have asked the Nuclear Regulatory Commission to prepare to review industry's first application in 2017 to use Lightbridge fuel in a commercial reactor.

Lightbridge is working with leading nuclear fuel manufacturers, including AREVA NP and BWX Technologies, to fabricate fuel for test purposes and eventually for commercial-scale production of Lightbridge fuel.

Lightbridge's Nuclear Utility Fuel Advisory Board



Dominion
NYSE:D



DUKE ENERGY
NYSE:DUK



Exelon Generation
NYSE:EXC



SOUTHERN COMPANY
NYSE:SO

Ready To Make A Difference Today

Lightbridge is an American company that has developed technology with the potential to reach customers around the world. Lightbridge owns the patent rights to its designs and has invested \$24 million in rigorous design, testing and independent validation.

Lightbridge Corporation

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