

TERRAPOWER: A NUCLEAR ENERGY TECHNOLOGY COMPANY

In 2006, Bill Gates and a group of like-minded visionaries decided to develop a sustainable, environmentally friendly and cost-competitive energy source that would enhance global development. TerraPower LLC® was formally established in 2008 with its headquarters in Bellevue, Washington. Its vision is to become a global innovation center for the nuclear energy sector. Its mission is to develop and commercially implement a base load, safe, cost-competitive, environmentally beneficial and weapons proliferation resistant nuclear power plant technology that will raise standards of living on a global scale by advancing economic development.

KEY INVESTOR REPRESENTATIVES

Current investors include individuals and institutions that support clean and sustainable energy and innovation in nuclear energy technology. Some of the key supporters include Bill Gates, Nathan Myhrvold, Vinod Khosla, Izhar Armony and Mukesh Ambani.

MANAGEMENT & PERSONNEL

TerraPower has a world-class team of highly trained and experienced nuclear physicists, engineers, project managers, operators and business professionals. These individuals have developed, built, fueled and operated fast and light water reactors for some of the most prestigious laboratories and energy companies in the world.

The company also has contractual relationships with nuclear research facilities around the world, including the Argonne, Idaho, Lawrence Livermore, Los Alamos, Pacific Northwest and Oak Ridge national labs in the United States; the Research Institute for Atomic Reactors in Russia; and the Korea Atomic Energy Research Institute. TerraPower also has relationships with more than 80 corporations, universities and consultants including Kobe Steel, Babcock & Wilcox, Massachusetts Institute of Technology, University of Michigan and Texas A&M. With more than 350 person-years of direct nuclear expertise, TerraPower is positioned to establish a global advanced reactor development network and supply chain to bring the company's technology rapidly to market.

TRAVELING WAVE REACTOR (TWR) TECHNOLOGY

Based on scientific theories first developed in the 1950s and real experience in the historical fast reactors in the United States, the TWR is a sodium-cooled fast reactor that creates and uses its own fuel that will be able to:

- Produce up to 50 times more energy than current light water reactors;
- Produce a minimum of seven times less waste than current reactors;
- Use inherent safety features and eliminate all possibility of a Fukushima-type accident; no on-site or off-site power or water is needed;
- Greatly reduce or eliminate the need for uranium mining, enrichment and reprocessing;
- Use existing depleted uranium reserves of waste;
- Save approximately \$3 billion per plant in fuel and operating costs;
- Provide a safe, economic solution to waste disposal; and
- Greatly reduce the possibility of nuclear weapons proliferation.

COMMERCIALIZATION SCHEDULE

The nuclear core conceptual design is complete and a prototype plant is expected to be built by 2023, followed by commercial plants expected to be completed in the late 2020s or early 2030s – well ahead of other advanced generation plants being considered today. TerraPower is confident that the prototype facility can be licensed within five years due to the use of proven technology, and that a commercial plant can be licensed and commissioned based on testing and data collection in Russia's Bor-60 test facility, the TWR prototype plant and other facilities.

PROGRAM FUNDING

TerraPower is a technology innovation company – not an owner/operator of nuclear plants. To date, TerraPower has raised private funding to cover more than five years of research and development. TerraPower is confident that together with our partners and other entities that will benefit from the TWR program, sufficient funding can be raised.

