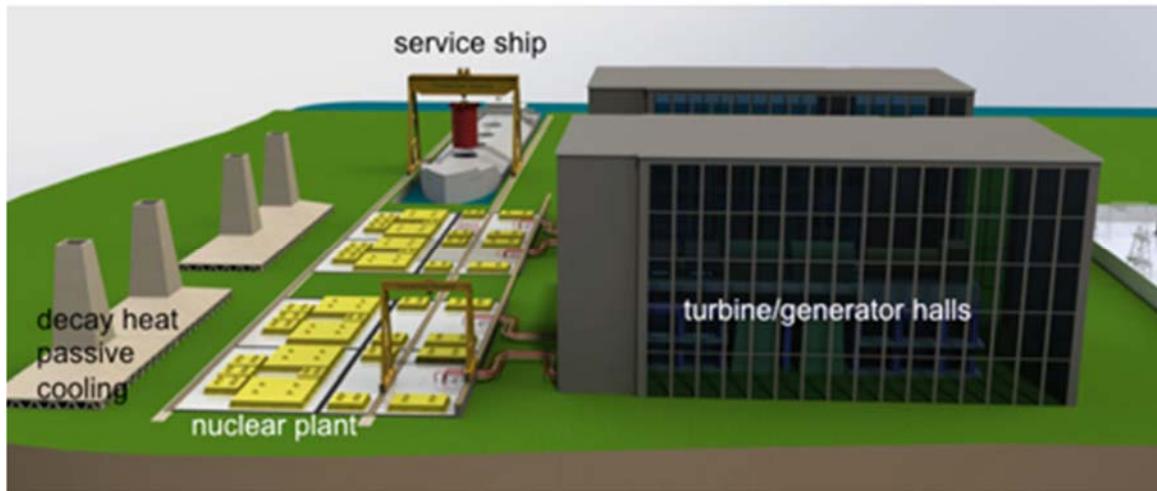


Thorium Converter (ThorCon)-A Doable Molten Salt Reactor

Ganapati Myneni,

ThorCon mass-producible nuclear power plants are being built to generate electricity cheaper than coal, at a scale to make a real improvement in world poverty and environment, now.



ThorCon's chief architect previously designed and built the world's largest double hull supertankers. Shipyard construction technologies are now being applied to molten salt reactors pioneered by Oak Ridge National Laboratories. ThorCon design philosophy has been guided by three important principles:

- 1. Cost:** Nuclear power must be cheaper than coal with a zero CO₂ price to have any real impact.
- 2. Rapid Scalability:** unless we can quickly build nuclear power plants at the rate of 100 GWe per year, we will have little effect on energy poverty, coal pollution, or CO₂ emissions.
- 3. NOW:** We have no time to wait for technological advances. We must go with the technology that we have now.

ThorCon irradiated materials and fuel salt are designed to be replaced in four-year cycles with no impact on electricity generation. This flex-fuel plant and its replaceable reactor cans can operate with mixtures of thorium and uranium at multiple enrichments. Fuel salt can be NaF/BeF₂ or LiF/BeF₂ if available. ThorCon's design exceeds current nuclear power safety practice. The team calls for regulatory participation in rigorous testing of a full-scale prototype to develop licensing guidance.

<http://thorconpower.com/>

Prof. Ganapati Myneni

Prof. Ganapati Myneni, Taksha Professor of Physics and also Professor of Homeopathy, graduated from the Indian Institute of Technology Madras (Chennai), India. His Ph. D thesis work was carried out at the Fritz Haber Institute of the Max Planck Society in Berlin, supported by the Joint European Torus (JET) Culham in England, and his post doctoral work was conducted at the Institute of Cryogenics, University of Southampton, England. His areas of expertise and experience include low temperature physics, vacuum and cryogenic instrumentation, surface science, hydrogen in matter and the superconducting science and technology of ingot niobium.



Prof. Myneni now represents several scientific organizations and universities in Virginia, among which is a recent appointment by the Governor of Virginia to serve on the Virginia Energy Council as the representative of the Virginia Nuclear Energy Consortium Authority. In addition, he frequently conducts international conferences and workshops on science and technology on topics of current interest, and has edited several conference proceedings and published numerous papers in peer-reviewed journals.