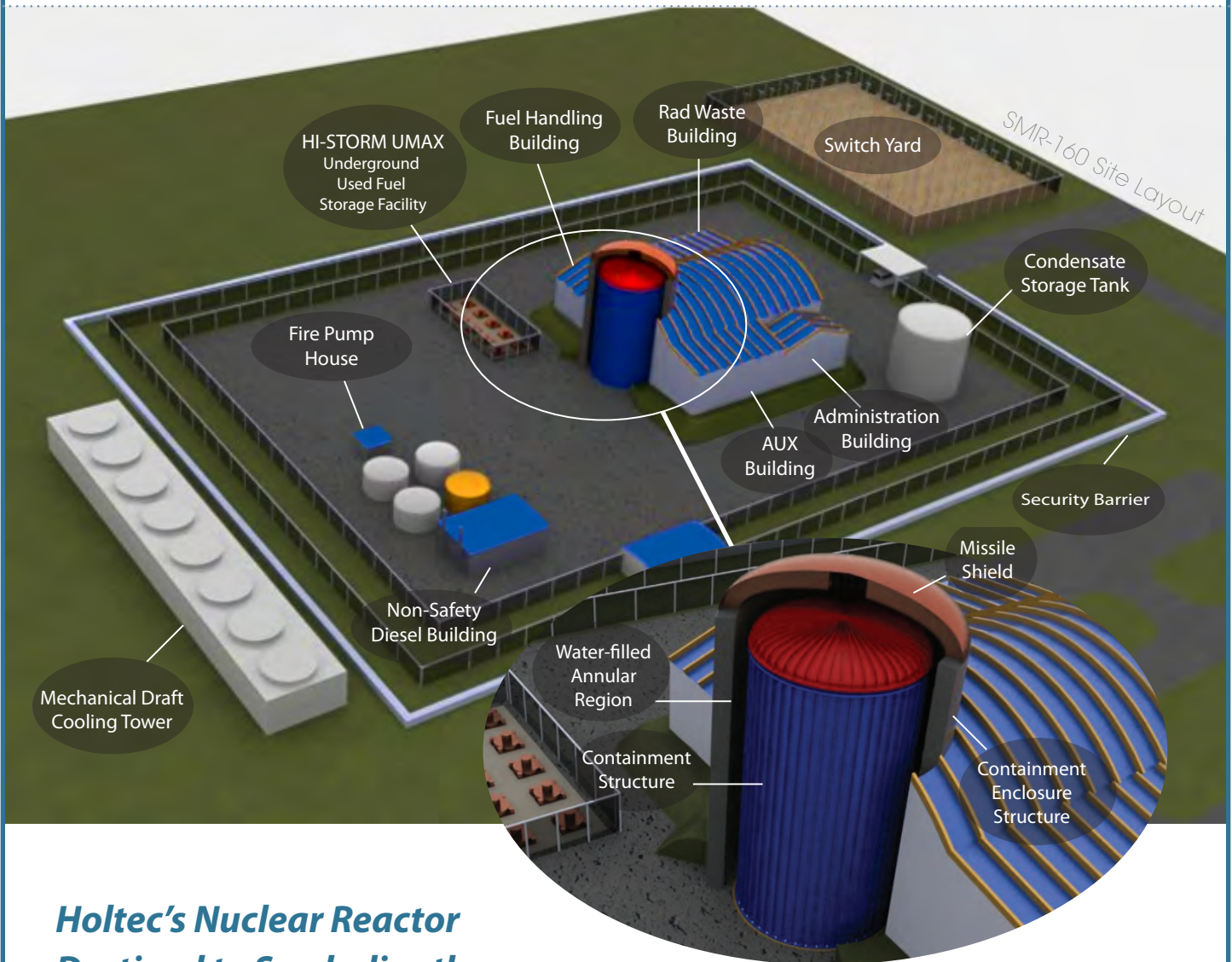


SMR-160

HOLTEC'S SMALL UNDERGROUND NUCLEAR REACTOR



Holtec's Nuclear Reactor Destined to Symbolize the 21st Century's Notion of Supreme Safety and Security

The SMR-160, a **Holtec Inherently-Safe Modular Underground Reactor (HI-SMUR™)** technology based power generation system is a 160 megawatt reactor designed to provide Safe, Secure and Economical source of clean energy from nuclear fission.

SMR-160 will deliver 160 megawatts of electricity day in and day out with a one week break for refueling every 42 months. The power output from SMR-160 will be enough to light up about 100,000 homes in the U.S. and over 300,000 homes in the developing world.

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www.holtec.com

SMR-160 IS THE VERY EPITOME OF SAFETY

SMR-160 is powered purely by gravity and has no pumps, motors and the like, to maintain its safety. SMR-160 will shrug off the 1-2-3 punch of an earthquake, tsunami, and hurricane without falling prey to a nuclear accident. A catastrophe like Fukushima or Chernobyl cannot happen at a SMR-160 site. SMR-160 is an invincible fortress to a terrorist group because it cannot be commandeered to blow up. The reactor automatically shuts down as soon as the water temperature begins to rise uncontrollably.

The used fuel produced by SMR-160 will be stored underground at the plant site for 300 years; there is no need to transport any nuclear waste and there is no environmental impact on the host community. At 800 million dollars per reactor, SMR-160 is affordable to smaller entities, such as municipalities. With a 24 month shovel to commissioning construction cycle, it can be brought on-line to meet the ongoing power needs of a community.

Unlike large power stations, the SMR-160 can be run using air, rather than water as the heat sink; a critical capability to serve water parched regions of the world. With an expected useful service life of 80 years, SMR-160 provides a uniquely long term return on investment - an eight decade money machine!

SMR-160 IS SMALL

The site boundary of one reactor will occupy about five acres (two football fields); two reactors at one site will together take up three football fields.

APPLICATION

Because of its inherent safety and security, SMR-160 will be used by governments to protect their critical infrastructure such as research facilities and military bases. Because of its modest size, SMR-160 will merit use in cogeneration, district heating, and as a source of reliable power to remote locations.

OUR MISSION

The night time satellite photo of the world (below) shows that over three-fourths of the earth's land mass is semi-dark or completely dark. Our goal is to light up the world without producing an ounce of greenhouse gas. Electricity powers industry which creates jobs. Therefore, the rise of SMR-160 will help bring jobs and spur industrial growth in host communities.



Image Credit: NASA GSFC



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