

# HOLTEC HIGHLIGHTS

A Summary Report to Our Clients, Suppliers, and Company Personnel

## U.S. Department of Energy Makes a Partial Award for Small Modular Reactor Development; More Awards Will Follow

We respect the Department of Energy's (DOE) decision to make only one award at this time from four applications it received in May of this year for the Small Modular Reactor (SMR) Funding Opportunity Announcement (FOA). We applaud the DOE's decision to seek additional FOA awardees in another round of solicitation which is consistent with the Department's role to serve as a catalyst and not a pre-selector of the best technology. Holtec International is hopeful that the Company will merit an award in the second round of DOE's solicitation on the strength of our reactor's unrivaled safety features, cost competitiveness, innovative security features, and operational reliability.

Holtec's Director of the SMR-160 development program, Dr. William S. Woodward stated, *"The deferral of the DOE award will have no adverse impact on our SMR-160 program. We will continue our careful and deliberate technology development effort which befits a program that aims to produce a 21st Century nuclear technology that is unassailably safe and inherently green. Our business and intellectual commitment to the SMR-160 program remain as firm as ever."*

The SMR-160 is Holtec International's flagship small modular reactor engineered to produce 160 MW of electrical energy (see attached brochure). We are most grateful to Holtec's council of distinguished cadre of experts drawn from the various sectors of the nuclear industry, which serves to advise and critique the details of our SMR-160 design and safety evaluations as they are completed. The council's role in improving our reactor design has been invaluable. In addition to the Savannah River Site where the DOE has graciously agreed to host (possibly) the first SMR-160, discussions are also underway with a leading nuclear utility to co-locate one or more SMR-160 reactors at an existing plant site.



SMR-160 Shown with 100% Dry Cooling Option



For more information please contact:  
Ms. Joy Russell  
Vice President, Corporate  
Business Development

Telephone:  
856-797-0900, Ext. 3655

Email:  
J.Russell@holtec.com

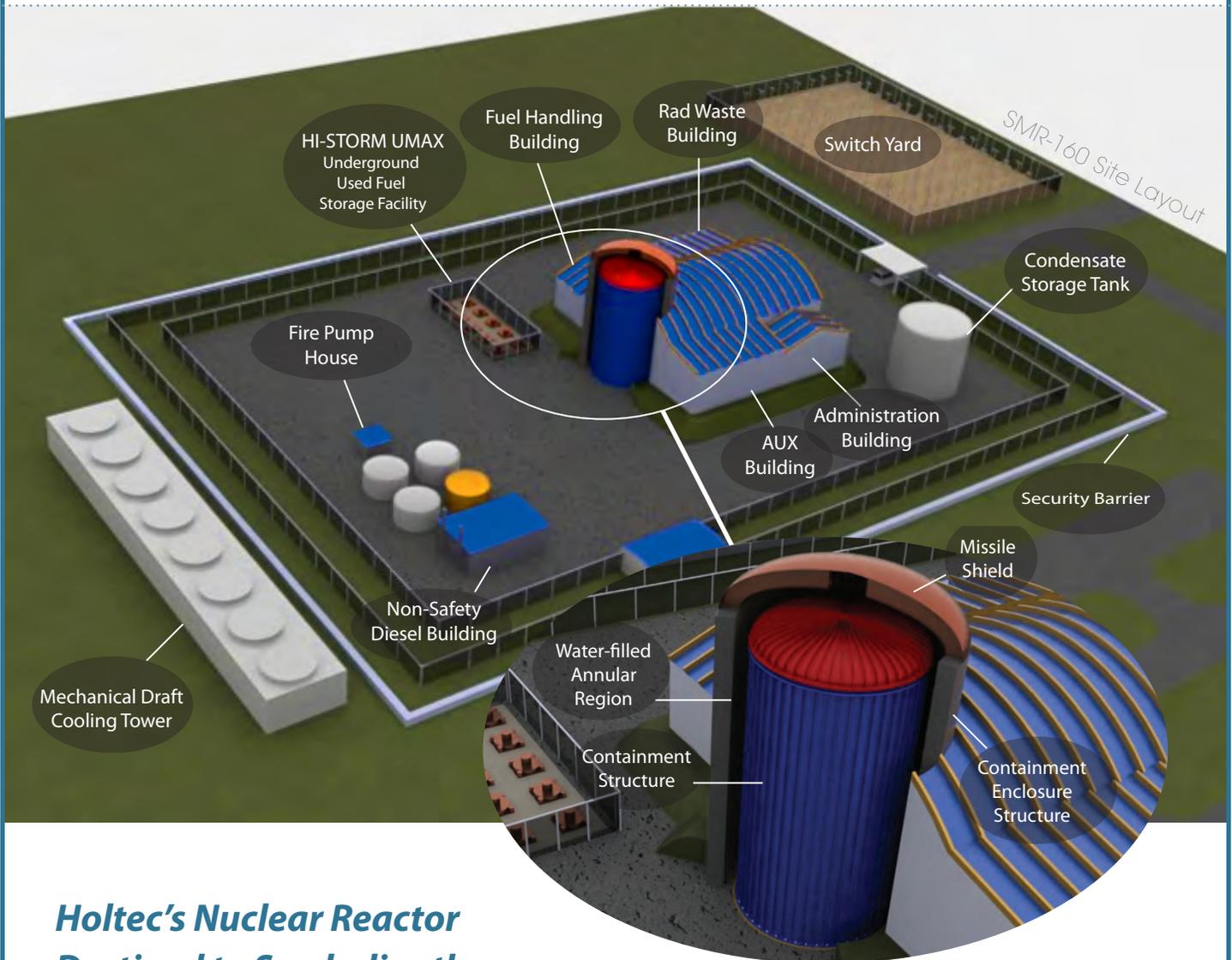
Visit our website at:  
[www.holtecinternational.com](http://www.holtecinternational.com)



Holtec Center  
555 Lincoln Drive West  
Marlton, NJ 08053

# 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 **H**oltec **I**nherently-**S**afe **M**odular **U**nderground **R**eactor (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.

The information contained in this brochure is copyrighted by Holtec International. All innovative design features of the device described herein are subject to intellectual property protection under U.S. and international laws on patent rights. For more information, contact Stephanie Grant at + 1 (856) 797-0900 ext. 3626 or visit our website at [www.holtec.com](http://www.holtec.com).

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## 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



## SMR, LLC

A Holtec International Company  
1001 U.S. Highway 1 North  
Jupiter, FL 3347  
Phone: +1 (856) 797-0900  
E-mail: [smrsales@holtec.com](mailto:smrsales@holtec.com)  
[www.holtec.com](http://www.holtec.com)



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