

# Capabilities and Core Competencies

Holtec International is a global turnkey supplier of equipment and services for the Nuclear, Solar, Geothermal and Fossil Power Generation sectors of the energy industry. Holtec is recognized as the foremost technology innovator in the field of carbon-free power generation, specializing in technology and services for decommissioning shutdown nuclear energy facilities, nuclear fuel and high-level waste management, heat transfer equipment and services, state-of-the-art custom manufacturing, and engineering and consulting services. Holtec has played a preeminent role since the 1980s in expanding nuclear plants' wet spent fuel storage capacity at over 110 reactor units in the U.S. and abroad. Dry storage and transport of nuclear fuel is another area in which Holtec is recognized as the foremost innovator and industry leader with a dominant market share and an active market presence at over 130 reactor units around the globe. Among the Company's pioneering endeavors is the world's first below-ground Consolidated Interim Storage Facility for nuclear fuel being developed in New Mexico and a 160-Megawatt walk away safe small modular reactor, SMR-160. The SMR-160 is developed to bring cost competitive carbon-free energy to all corners of the earth. Holtec is also a major supplier of special-purpose pressure vessels and critical-service heat exchanger equipment, such as air-cooled condensers, steam generators, feedwater heaters and water-cooled condensers. Virtually all products produced by the Company are built in its three large manufacturing plants in the U.S. and one in India. Nearly 100 U.S. and international patents protect the Company's intellectual property from predation by its global competitors and lend predictable stability to its business base.



## Nuclear Fuel and HLW Management

- Storage and transport systems
- Wet nuclear fuel storage systems
- Innovative approaches to improve safety, reduce cost and risk
- Dry storage services include civil/architectural design, site construction, supply of systems and full loading campaign
- Wet storage services, including rack installation



## Engineering and Consulting Services

- Engineering change packages
- Design and product development
- Licensing services
- Nuclear engineering: dose assessments, shielding, criticality
- Fluid mechanics and heat transfer
- Seismic and structural analyses
- Solid and soil mechanics
- Civil engineering Services
- Safety, analysis and licensing
- Project support services
- Project management
- 3<sup>rd</sup> party project oversight



## State-of-the-Art Manufacturing

- Three manufacturing plants located in OH, PA, and NJ, covering 1.5 million ft<sup>2</sup> of manufacturing floor space
- Extrude, roll, form, weld, machine and finish precision custom parts
- CNC machine parts up to 62 ft long and 21 ft high, maintaining a dimensional tolerance of less than .0003"
- CNC vertical turning mill cylindrical parts up to 15 ft in diameter, 100 tons in weight, 17 ft high
- Plate rollers up to 7.5-inch thick
- Manufacture and assembly of weldments up to 100 ft long and up to 400 tons
- Largest extrusion press has thrust capacity of 7200 tons and can handle billets up to 14-inch diameter and 700 lb. in weight



## Heat Transfer Equipment

- Shell/tube heat exchangers and pressure vessels for nuclear and commercial power plants
- Feedwater heaters (high pressure, low pressure and intermediate)
- Water-cooled condensers and air-cooled condensers
- Special products (anti-vibration stakes and non-segmental baffles)