



NuScale Power Leverages ANSYS In Design Of Nuclear Power Plants

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PITTSBURGH, Nov. 5, 2015 /PRNewswire/ -- As part of its commitment to help make nuclear power safer and more reliable, designers of small modular reactor (SMR) nuclear plants, [NuScale Power](#), is expanding its use of engineering simulation solutions from [ANSYS](#) (NASDAQ: ANSS). The new multi-year agreement will provide NuScale with access to a broad range of ANSYS' leading engineering simulation solutions to accelerate design and minimize time to market in developing SMR prototypes.



The agreement provides NuScale with access to the ANSYS structures and fluids suites as well as access to high-performance computing solutions. NuScale will leverage the power of ANSYS technology to simulate designs for module containment, thermal hydraulics and structural integrity of reactor power modules, instead of solely relying on costly physical prototypes and testing. The added insight into the design process of reactor modules provides NuScale with increased confidence to meet the demanding safety and environmental approval process within the nuclear industry while continuing to meet customers' quality requirements and minimize cost.

"For 45 years, ANSYS has been the nuclear industry's gold standard in simulation," said Randy Morrill, lead engineer for NuScale. "As the industry's demands grow, the challenges become far more complex and require innovative engineering solutions. This agreement with ANSYS enables us to continue to develop accurate and reliable products that our customers rely on."

"I am pleased with the continued support from ANSYS," said Dale Atkinson, NuScale's chief operating officer and chief nuclear officer. "Their knowledge and experience in the area of engineering simulation solutions will continue to be a powerful asset to NuScale's SMR design and deployment."

"The nuclear industry maintains a sharp focus on delivering reliable and safe energy in a very challenging cost and regulatory environment," said Ahmad Haidari, global director for the energy industry at ANSYS. "We are thrilled to provide NuScale with best-in-class engineering simulation solutions that will enable the company to further improve reactor module safety and reduce construction and operational costs, while meeting regulatory and industry requirements."

About NuScale

NuScale Power, LLC is developing a new kind of nuclear plant; a safer, smaller, scalable version of pressurized water reactor technology, designed with natural safety features; a technology initially developed and tested at Oregon State University. Fluor Corporation, a global engineering, procurement, and construction company with a 60-year history in commercial nuclear power, is the majority investor in NuScale. As the sole winner of the second round of the U.S. Department of Energy's (DOE) competitively-bid, cost-sharing program to develop nuclear small modular reactor (SMR) technology, NuScale's design offers the benefits of carbon-free nuclear power but takes away the issues presented by the cost of installing large capacity. A nuclear power plant using NuScale's technology is comprised of individual NuScale Power Modules™, each producing 50 megawatts of electricity (gross) with its own factory-built combined containment vessel and reactor vessel, and its own packaged turbine-generator set. A power plant can include as many as 12 NuScale Power Modules to produce as much as 600 MWe, gross (570 net, nominal, after house loads). The reactor coolant is driven by natural circulation and can be shut down safely with no operator action, no AC or DC power, and no external water supply. NuScale power plants are scalable - additional modules are added as customer demand for electricity increases. NuScale's technology also is ideally suited to supply energy for district heating, desalination, and other applications. NuScale is headquartered in Portland, Oregon and has offices in Corvallis, OR; Rockville, MD; and Charlotte, NC. For more information visit: <http://www.nuscalepower.com/>.

About ANSYS, Inc.

ANSYS brings clarity and insight to customers' most complex design challenges through fast, accurate and reliable engineering simulation. Our technology enables organizations — no matter their industry — to predict with confidence that their products will thrive in the real world. Customers trust our software to help ensure product integrity and drive business success through innovation. Founded in 1970, ANSYS employs over 2750 professionals, many of them experts in engineering fields such as finite element analysis, computational fluid dynamics, electronics and electromagnetics, embedded software, system simulation and design optimization. Headquartered south of Pittsburgh, U.S.A., ANSYS has more than 75 strategic sales locations throughout the world with a network of channel partners in 40+ countries. Visit www.ansys.com for more information.

ANSYS also has a strong presence on the major social channels. To join the simulation conversation, please visit: www.ansys.com/Social@ANSYS

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Contact	Media	Amy Pietzak 724.820.4367 amy.pietzak@ansys.com
		Mike McGough 503.715.2238 mmcgough@nuscalepower.com
	Investors	Annette Arribas, CTP 724.820.3700 annette.arribas@ansys.com

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