



Innovating Nuclear Power Generation

*GAIN Micro-Reactor Workshop
Idaho National Laboratory*

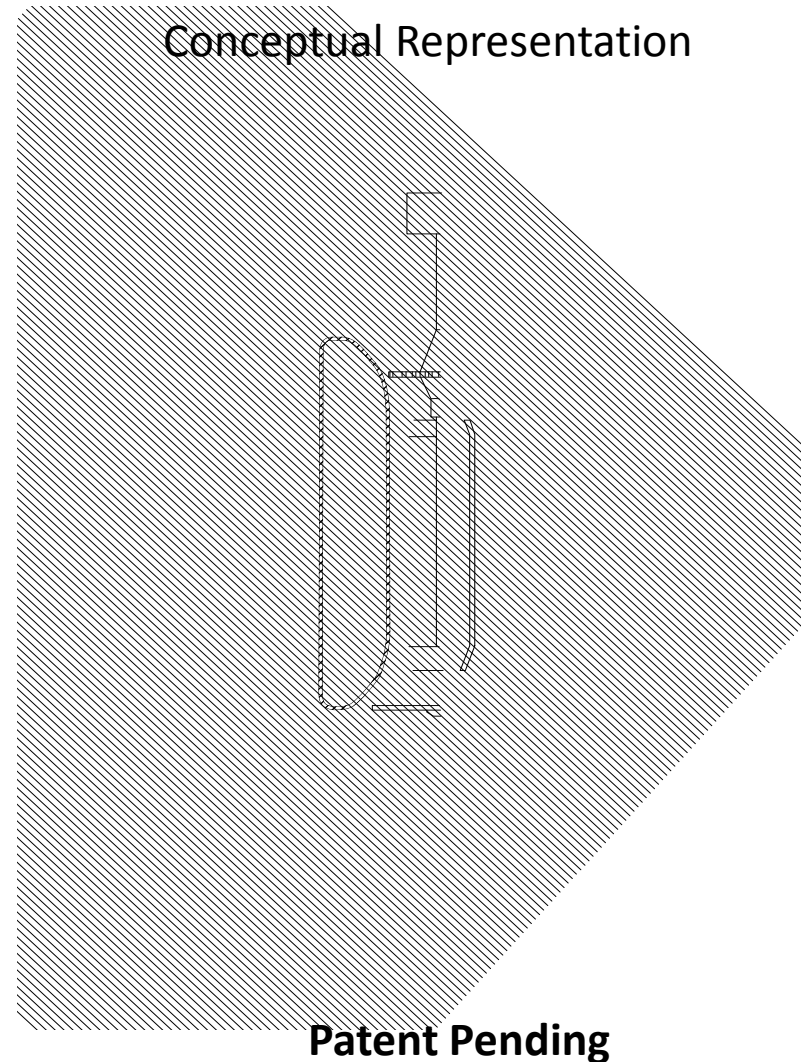
**NuGen's Mission: Develop an Innovative Fully
Integrated Modular Nuclear Engine**



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The NuGen Engine™

- Compact Single-Module Direct-Cycle Gas-Cooled Micro-Reactor
- Patented Helical Fuel Core Fully Integrated with Other Components
- Safe, Simpler and Integrated Design
- Scalable, Adaptable and Highly Manufacturable (particularly suitable for 3D printing)
- Output: 1-50 MWe, with Process Heat and Direct Mechanical Capabilities
- Initial Focus: Autonomous Transportable Unit for Civilian Applications, Military Bases, Other Security Needs and Remote Locations
- Adaptable for Space Applications, including Lunar and Mars Missions



Areas for Potential National Lab Assistance

Programmatic Needs:

Fuel Qualification Program

Licensing Evaluations

Instrumentation and
Control R&D

Structural Materials Testing
Program

Design Evaluations and
Demonstrations

Additive Manufacturing (3D
Printing) Program



NuGen Engine™

Illustrative Examples:

Idaho National Lab

- Advanced Fuels
- Advanced Reactor Technologies
- Gas Reactors

Sandia National Lab

- Energy Conversion

Oak Ridge National Lab

- Additive Manufacturing
- 3D Printing



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Thank You

Information about NuGen, its team and technology are at www.nucdev.com

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