

## Transatomic Power Corporation Passes the Torch

December, 2018

Like many companies who work with the GAIN initiative to transform the modern nuclear landscape, Transatomic Power Corporation (TAP) accepted the risks associated with being a "start-up." The tremendous technical work and social awareness that TAP contributed to the advanced nuclear industry should not be diminished. It is clear that they were motivated in large part by the desire to make the world a cleaner, safer place through the development of their reactor concept. The hope of the GAIN initiative and TAP is that this fundamental work will continue to support the rapidly evolving nuclear community. This is reflected in the TAP decision to open source their technology for all to use as announced by Leslie Dewan (TAP CEO) in the statement below. The GAIN initiative is pleased to have the privilege of facilitating access to the TAP legacy in support of this ideal.

What follows are statements from Leslie Dewan and links to the TAP legacy documents available through GitHub.



*"Transatomic is extremely grateful to the GAIN initiative for supporting our technology development and the growth of the advanced reactor sector as a whole. Via GAIN, we've worked with the Oak Ridge National Lab to validate our reactor's neutronics and fuel cycle performance, and with the Argonne*

*National Lab to gather material property data for our fuel salt. One of the things we like best about our work with GAIN is that, once a project is completed, the results are openly published so that everyone in the advanced reactor community can learn from the research.*

*We saw firsthand the benefits of GAIN's collaborative and inclusive attitude – in a new and rapidly-developing sector like advanced reactor design, everyone wins when we can pool resources and share knowledge. Ultimately, GAIN inspired us to put our reactor design in the public domain, making it available for any researchers – private, public, or non-profit – who want to continue the work we've started.*

*It will take all of us working together to build a robust advanced nuclear sector and make better sources of carbon-free electricity."*

~ Leslie Dewan, TransAtomic Power Corporation



[Transatomic Legacy Documents](#)



[Transatomic Final Post](#)

**GAIN NE Vouchers Announced**  
**U.S. Advanced Nuclear Technology Projects to Receive \$18 million from the U.S. Department of Energy**  
*November 13, 2018*

WASHINGTON, D.C. – The U.S. Department of Energy (DOE) today announced funding selections for eleven domestic advanced nuclear technology projects. These projects, located across six states, will receive varying amounts for a total of approximately \$18 million in funding, with project values totaling approximately \$25 million. The projects are cost-shared and will allow industry-led teams, including participants from federal agencies, public and private laboratories, institutions of higher education, and other domestic entities, to advance the state of U.S. commercial nuclear capability.

DOE has selected five companies to receive technology development vouchers under the GAIN program. The companies selected are Westinghouse Electric Company (Cranberry Township, PA) in the amount of \$420,000; Elysium Industries USA (Boston, MA) in the amount of \$500,000; NexDefense (Atlanta, GA) in the amount of \$400,000; Exelon Generation (Kennett Square, PA) in the amount of \$480,000; and Eastman Chemical Company (Kingsport, TN) in the amount of \$350,000. Further detail and description of these awards can be found under the [GAIN website](#).

GAIN 2018 3 <sup>rd</sup> Round NE Voucher Recipient	Awarded Proposal	Partner Facility
Eastman Kingsport, TN	Integrated Nuclear Hybrid Energy System	Idaho National Laboratory Oak Ridge National Laboratory
Elysium Industries USA Boston, MA	Assessing Fuel Cycle Options for Elysium Molten Chloride Salt Fast Reactor from Spent Nuclear Fuel, Plutonium, and Depleted Uranium	Argonne National Laboratory
Exelon Corporation Kennett Square, PA	Plasma Separation Process Feasibility Study for the Commercial Enrichment of Gadolinium-157	Oak Ridge National Laboratory
NexDefense, Inc. Atlanta, GA	NexDefense - Nuclear Cybersecurity Initiative	Oak Ridge National Laboratory
Westinghouse Electric Co. Cranberry Township, PA	Development and Testing of Alumina-forming Austenitic Stainless Steels for Lead Fast Reactor Application	Oak Ridge National Laboratory

More information on the Office of Nuclear Energy and its programs can be found [here](#).

 [Voucher Recipients & Abstracts](#)

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