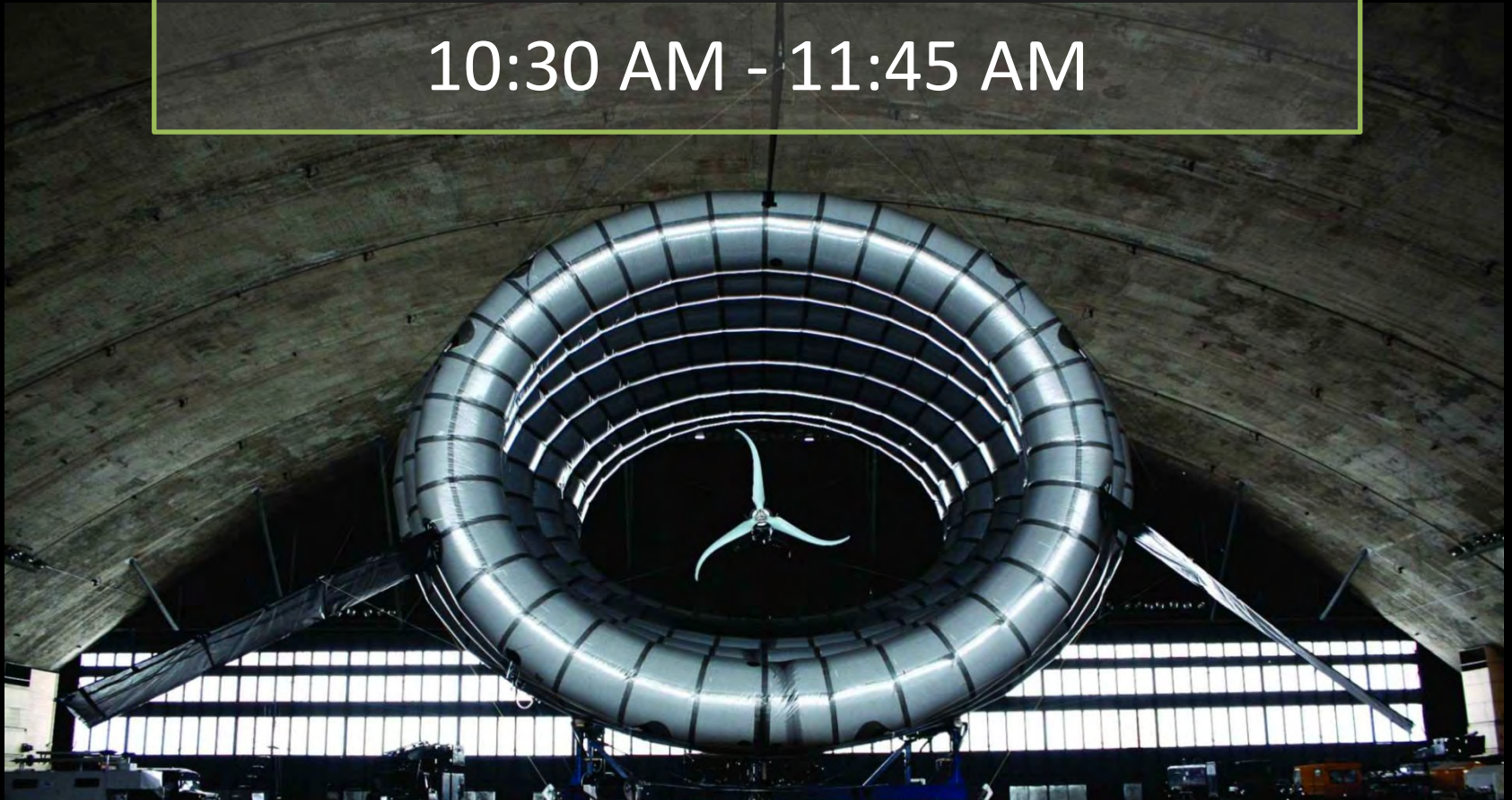


Aztec Room

10:30 AM - 11:45 AM



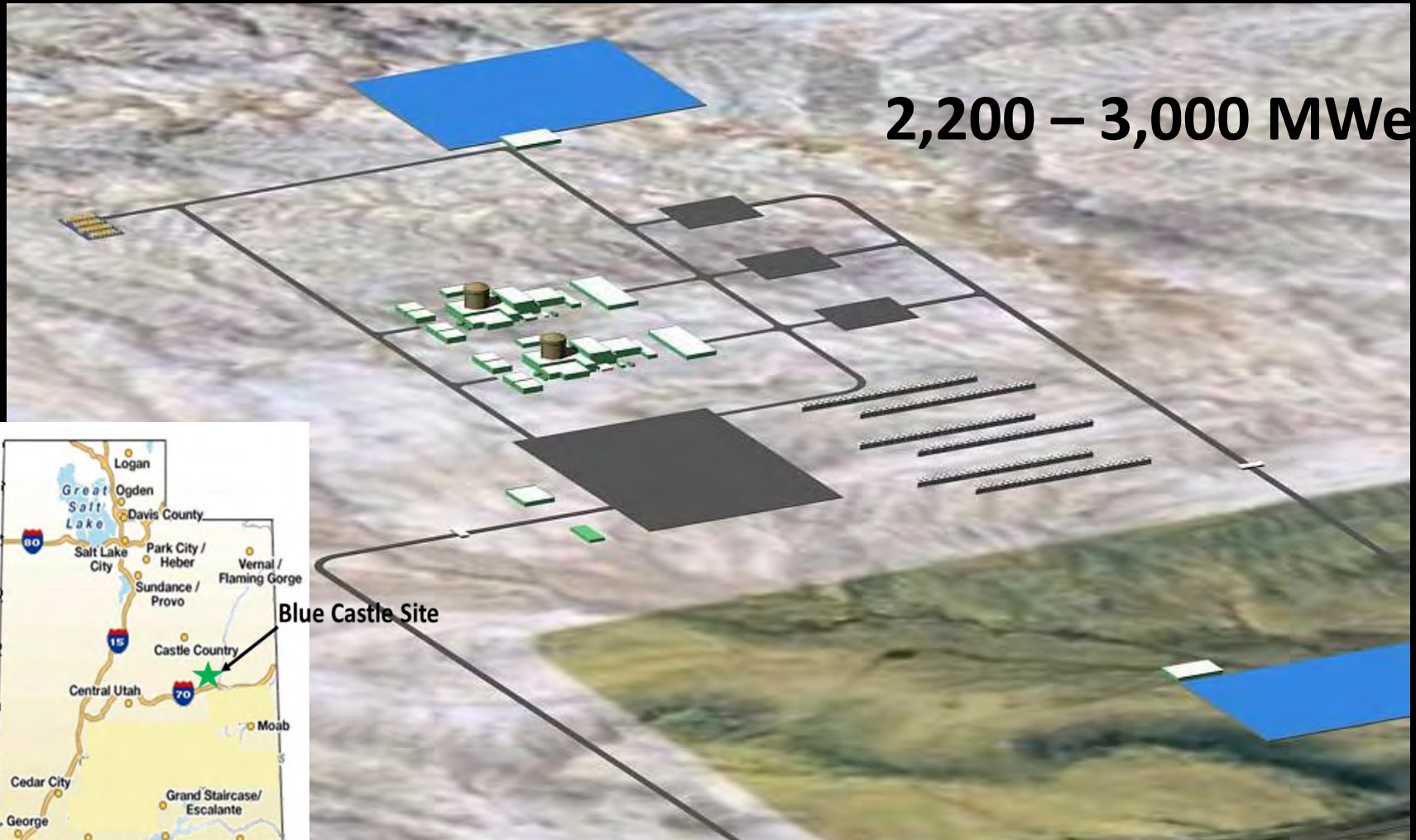
No-Carbon New Generation Technologies
in the West

Palo Verde Nuclear Station



Courtesy of Bob Bement (Senior VP of Site Operations, Palo Verde Nuclear Generating Station, APS)

Blue Castle Project: 2 Unit Nuclear Site Near Green River, Utah

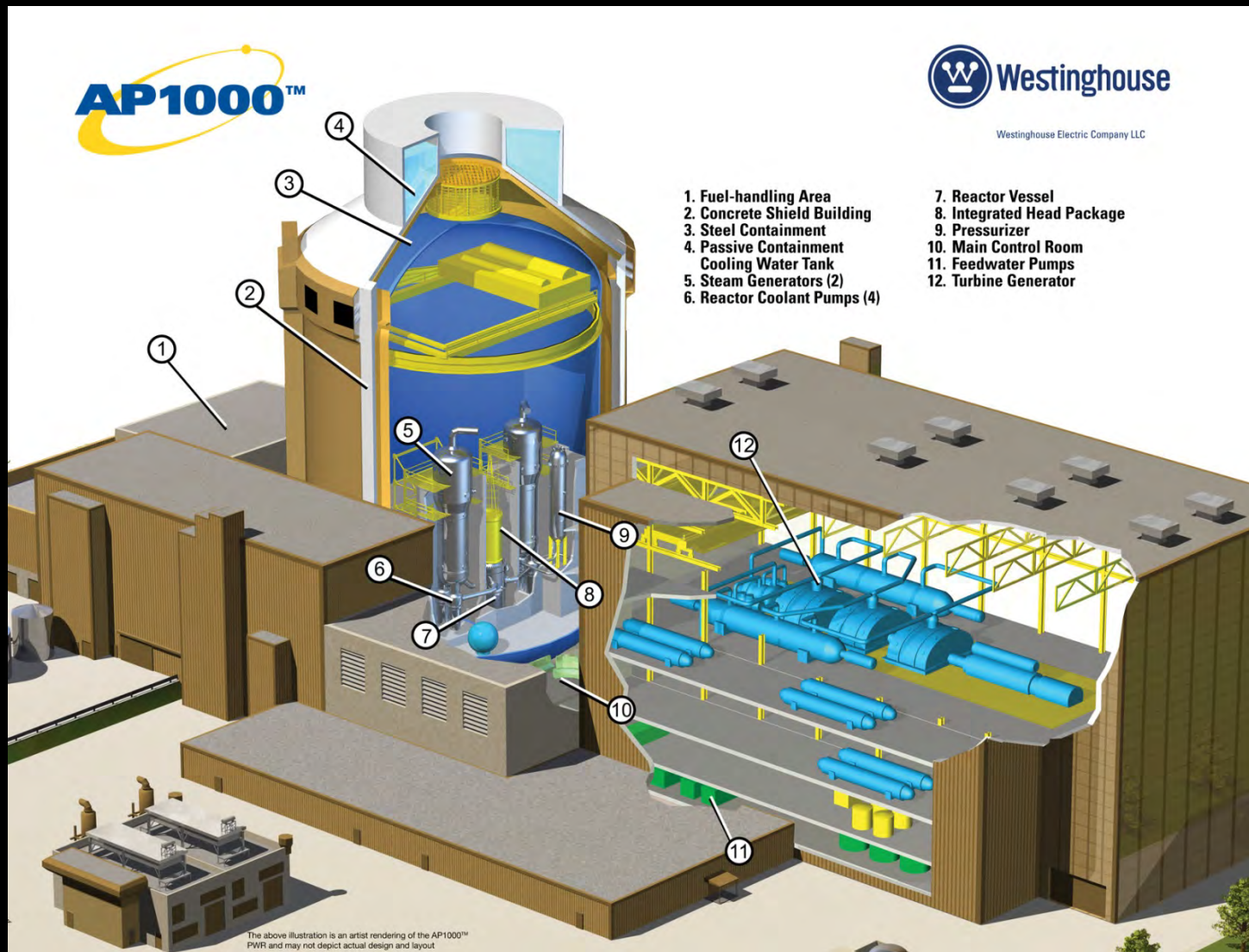


Courtesy of Aaron Tilton (President & CEO, Blue Castle Holdings)

Blue Castle Project Site Views



Blue Castle Project Generation III+ Reactor

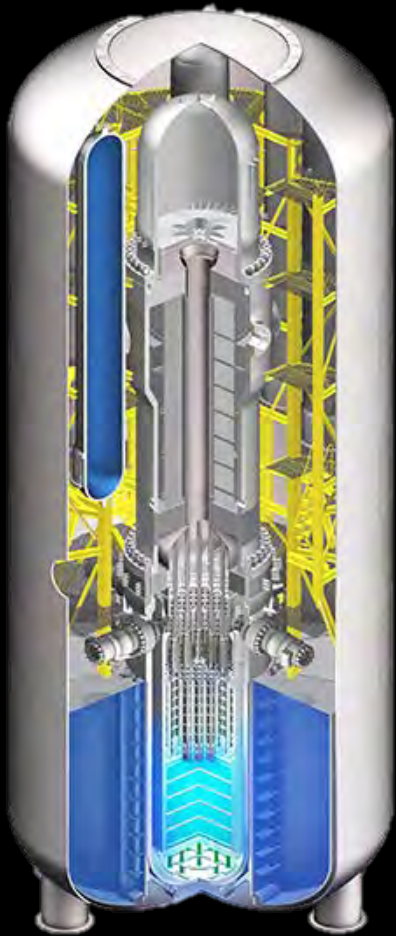


Courtesy of Aaron Tilton (President & CEO, Blue Castle Holdings)

Sanmen AP1000 Plant



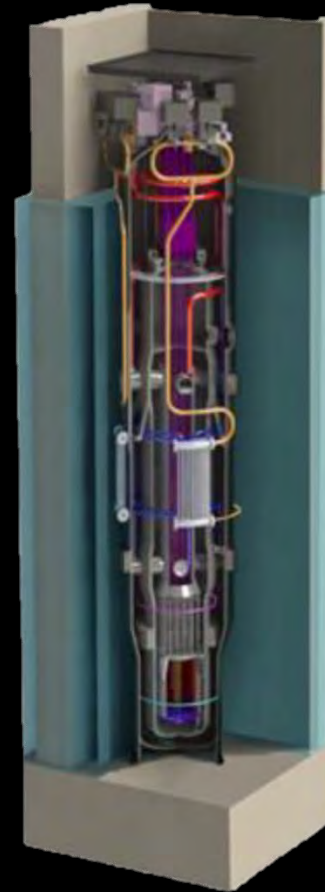
U.S. Small Modular Reactors



Westinghouse SMR



Holtec SMR-160



NuScale SMR



B&W mPower SMR

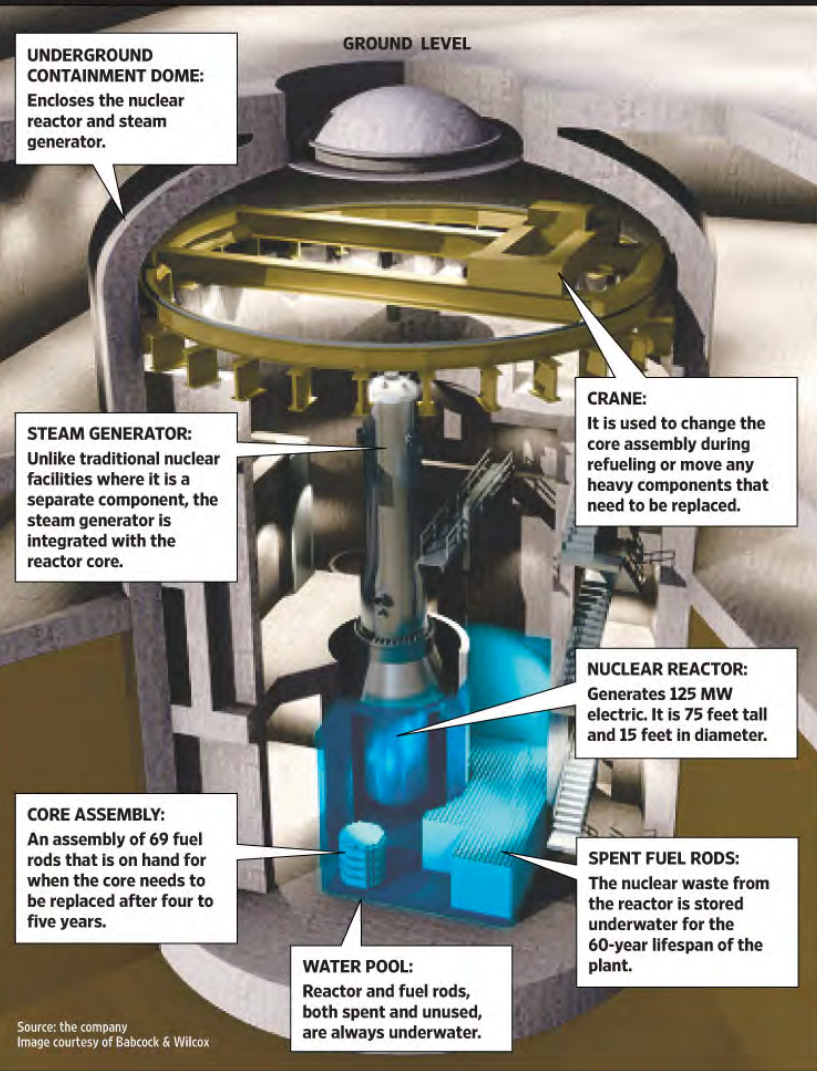
Small Modular Nuclear Reactors



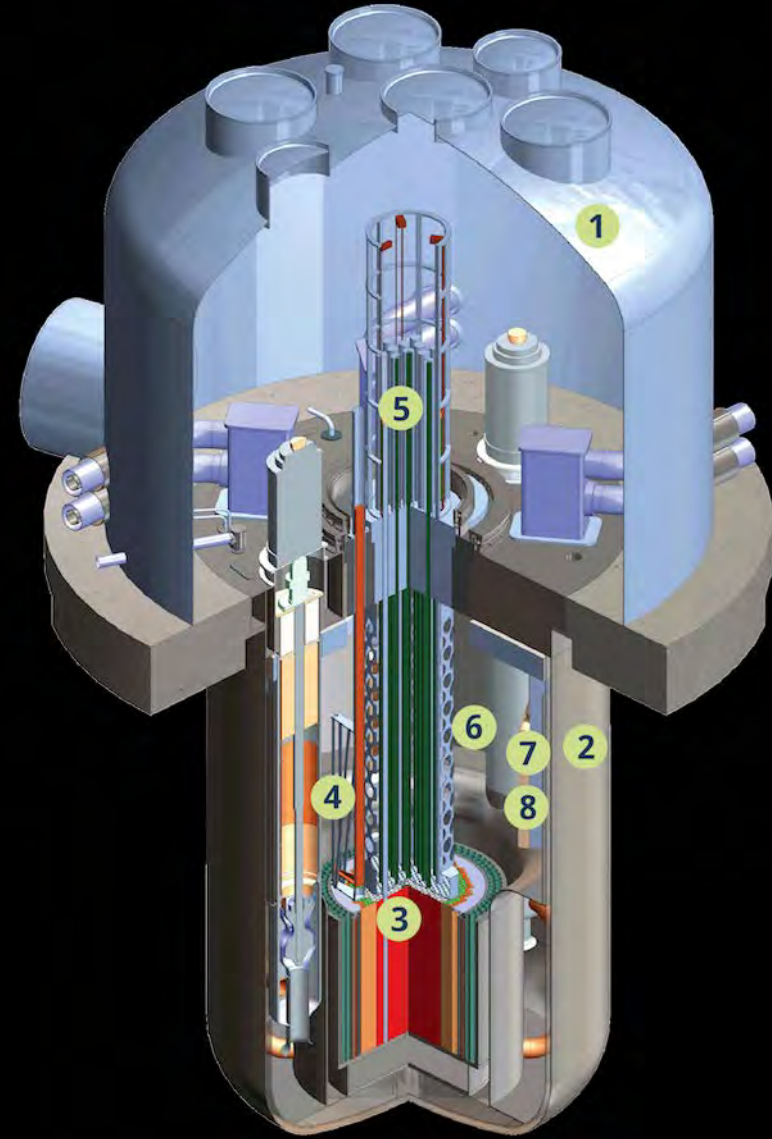
B&W Modular Nuclear Reactor

Compact Power

Babcock & Wilcox's reactor design is significantly smaller than that of existing nuclear plants.



TerraPower's traveling wave reactor (TWR)



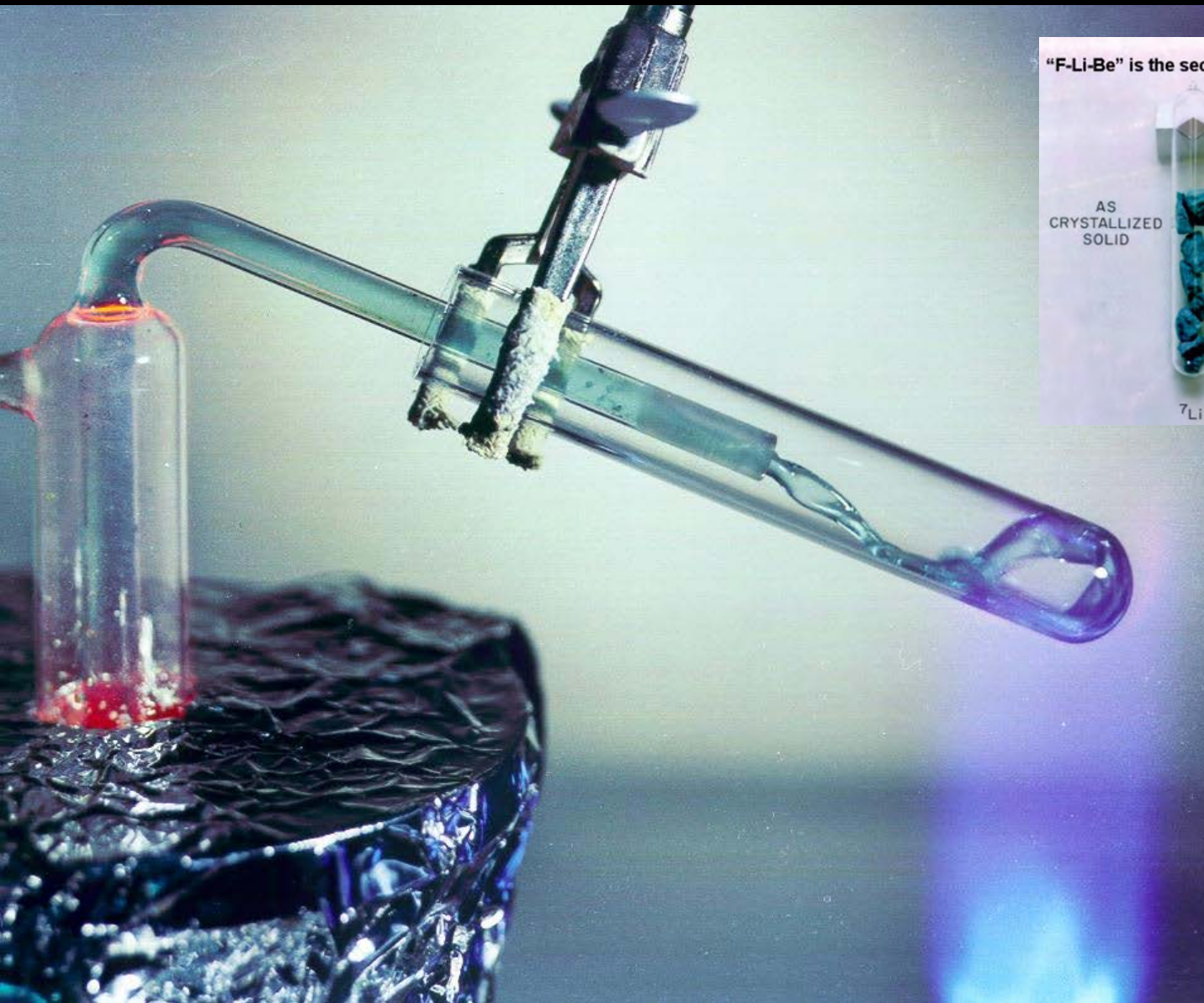
Thermal baffle being lowered into the 500 MWe Prototype Fast Breeder Reactor in India, May 2010



High Temperature Gas-Cooled Reactor being developed at Tsinghua University in China



Molten Fluoride salt of Lithium and Beryllium (FLiBe) Fuel for a molten salt reactor



"F-Li-Be" is the secret to unlocking thorium's potential

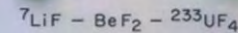
AS
CRYSTALLIZED
SOLID



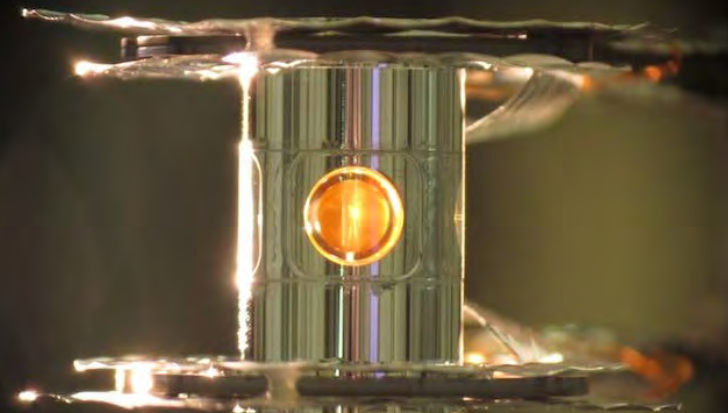
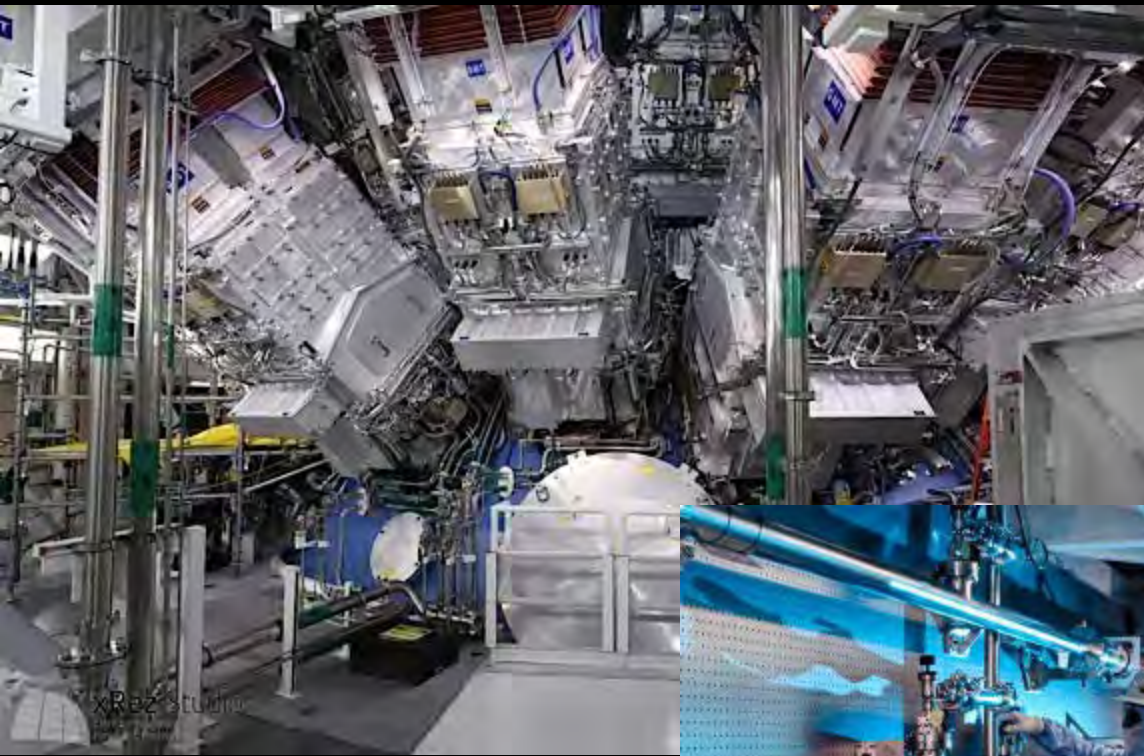
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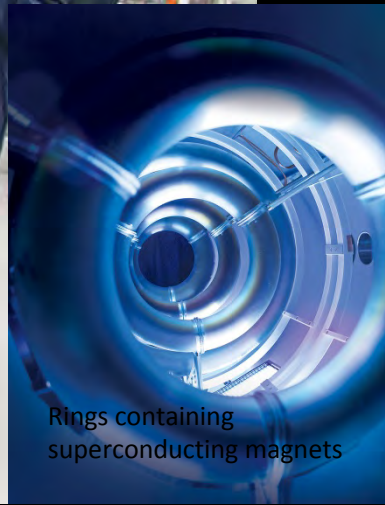
LiF = lithium fluoride
BeF₂ = beryllium fluoride
LiF-BeF₂ → "FLiBe"



National Ignition Facility (NIF) at Lawrence Livermore National Laboratory



Lockheed Martin – plasma containment for compact fusion reactor



Rings containing superconducting magnets

First Solar - Desert Sunlight Solar Farm



Courtesy of Maja Wessels (Senior VP, First Solar)

First Solar – Operations Center



Courtesy of Maja Wessels (Senior VP, First Solar)

Ivanpah CSP Plant



Floating Solar Panels



Taos Community Solar Garden



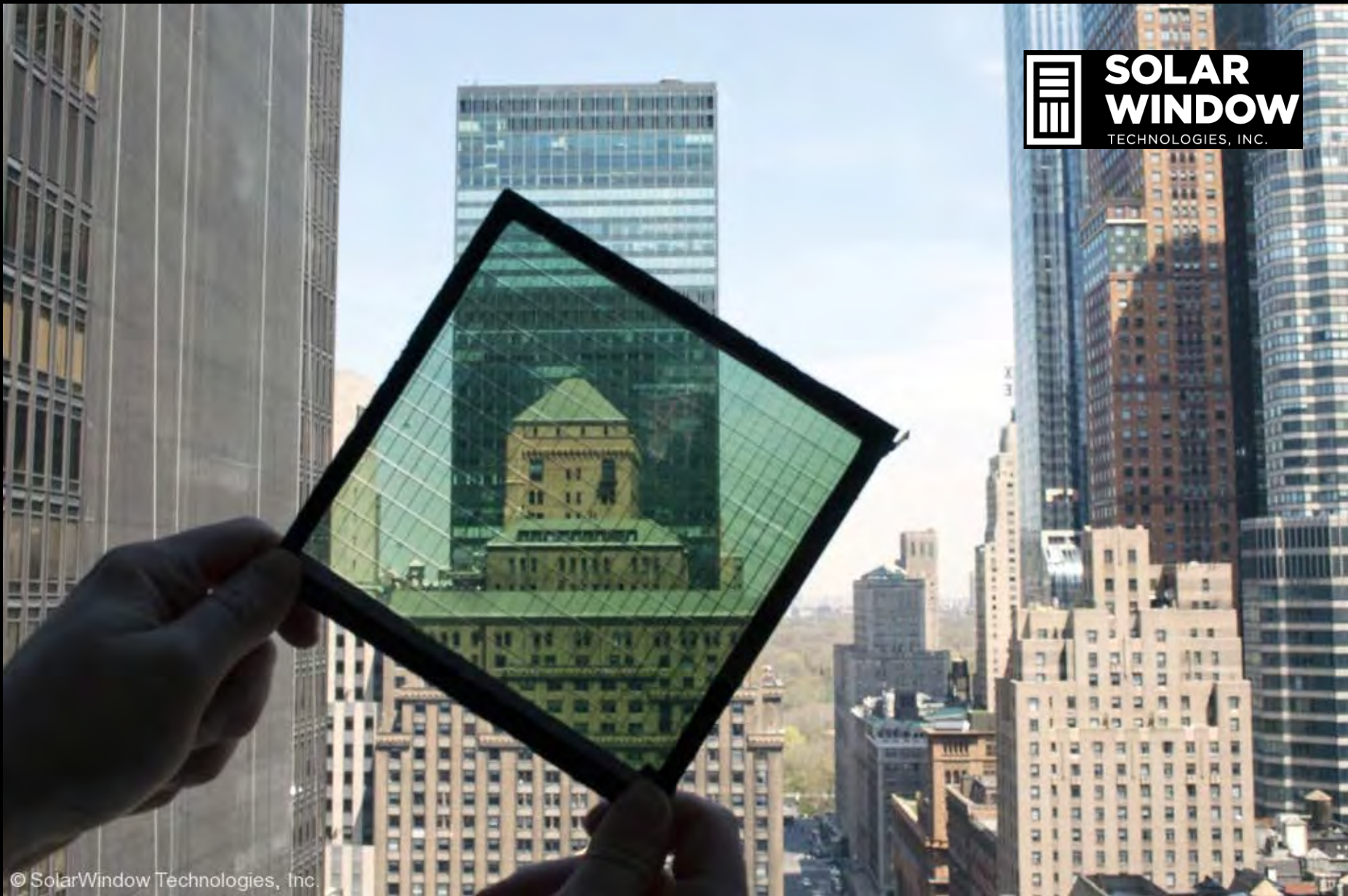
San Miguel Power Association Community Solar



Ripasso Solar Dish with Stirling Engine



Transparent Solar



Transparent Solar



Energy Storage North America: Customer Sited Finalists

Green Charge Networks



USCD BMW 2nd Life EV Energy Storage



Courtesy of Lon Huber (Director, Straten Consulting)

Energy Storage North America: Utility-Scale Finalists

SCE Tehachapi Wind Energy Storage



SMUD 2500 R Midtown project
Sunverge Solar Integration System



Abengoa Solana Solar
Thermal with Storage

Energy Storage North America: Mobility Finalists

SEPTA Energy Optimization Project



Powertree San Francisco One



Benicia City Hall Solar EV Fast Charger with Energy Storage



Courtesy of Lon Huber (Director, Strategen Consulting)

Hampton Wind Smoothing



Courtesy of Lon Huber (Director, Strategen Consulting)

Xcel - Community Energy Storage at SolarTAC



Courtesy of Lon Huber (Director, Strategen Consulting)

Tesla's Stationary Power Systems



Aquion Energy's Aqueous Hybrid Ion batteries



Alstom - Offshore Wind



Anholt Wind Farm - Denmark



Siemens 6 MW



Floating wind turbine and substation off the coast of Fukushima



Platform for 7 MW Wind Turbine off the coast of Fukushima



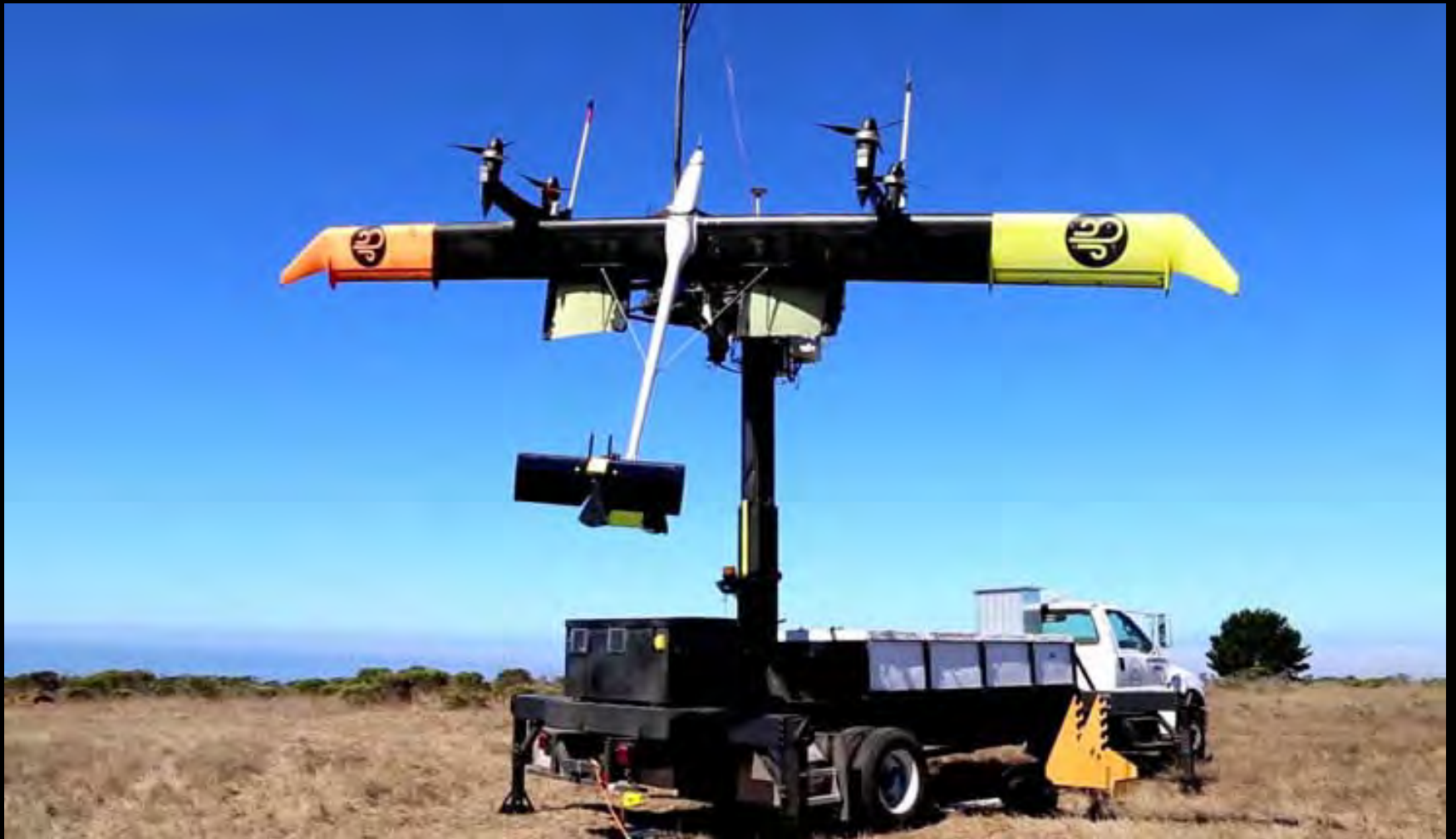
Vestas 20 MW dyno ready to test its 8 MW offshore turbine



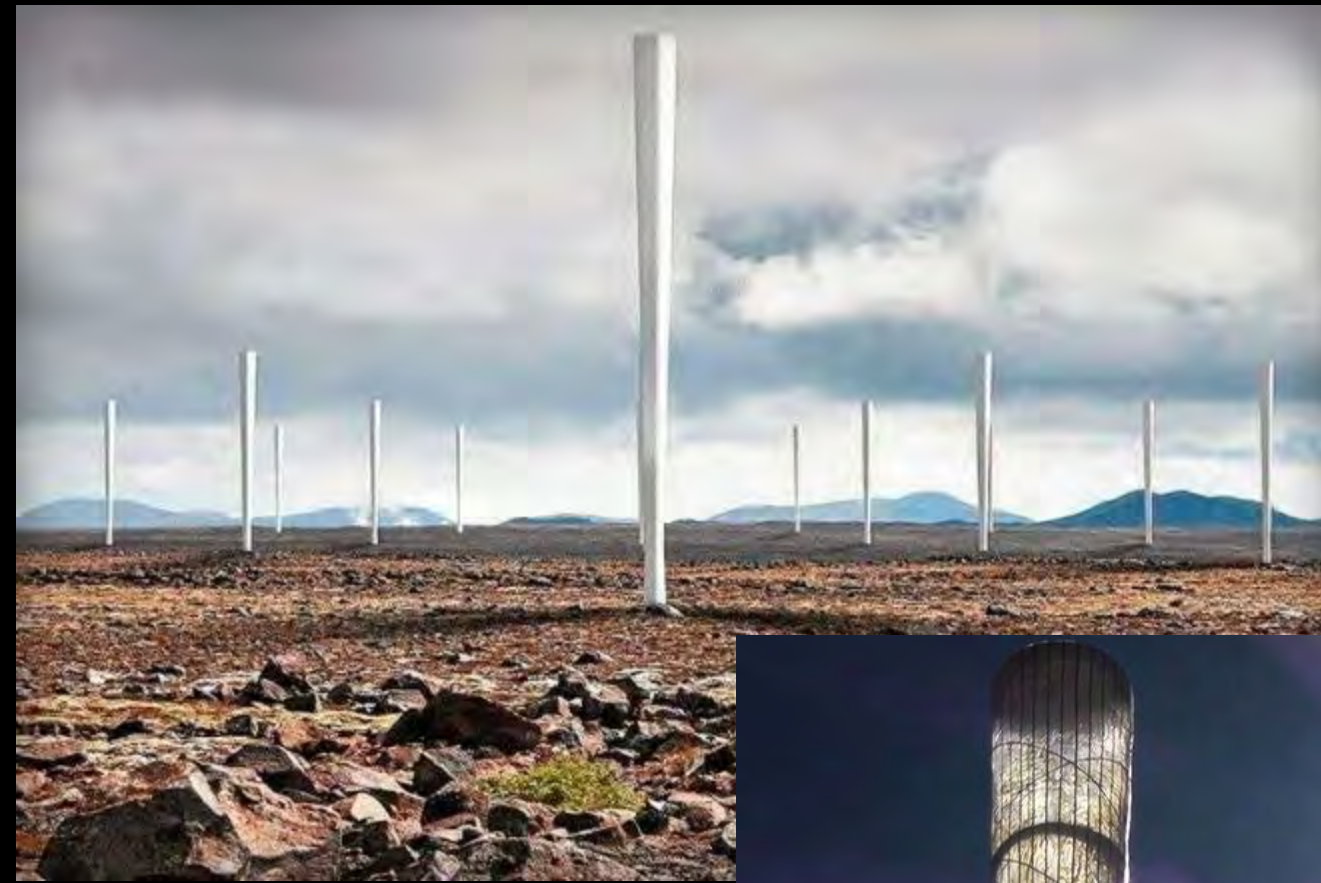
Altaeros-Energies Airborne Wind Turbine



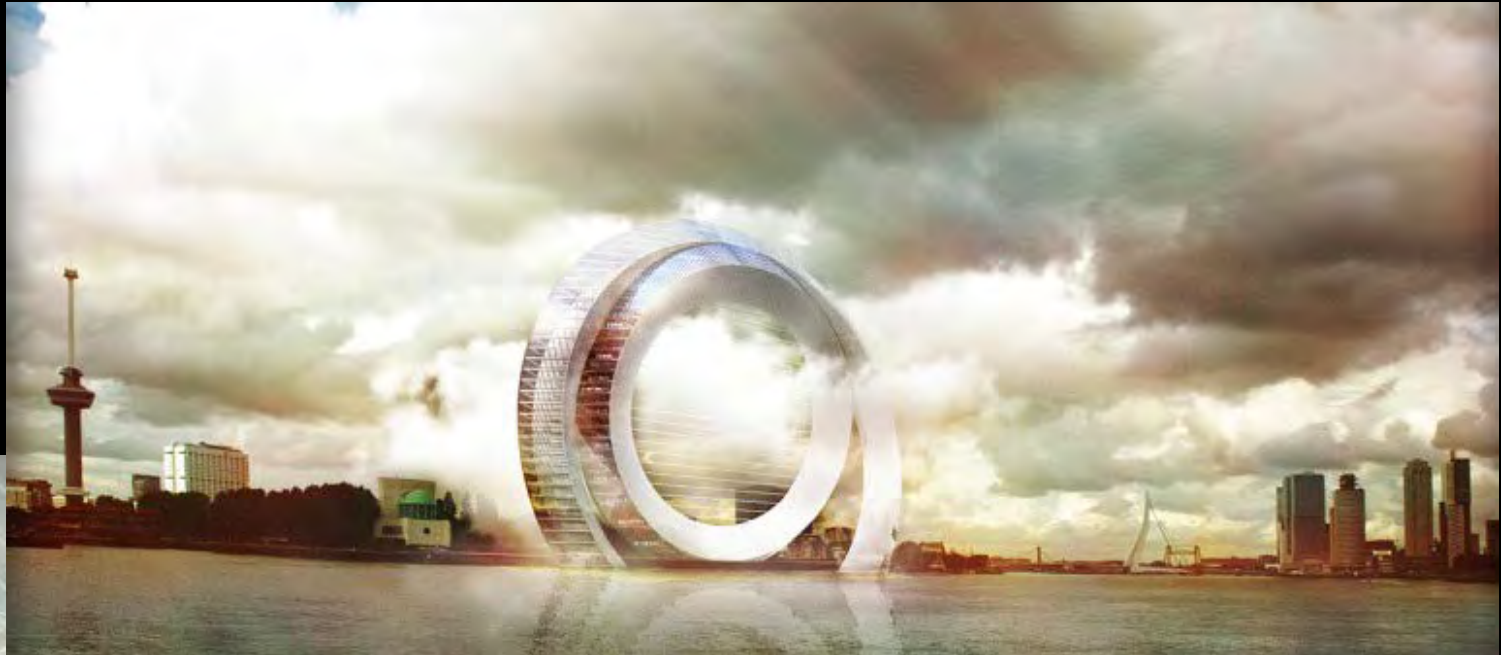
Makani Airborne Wind Turbine



Vortex bladeless turbines



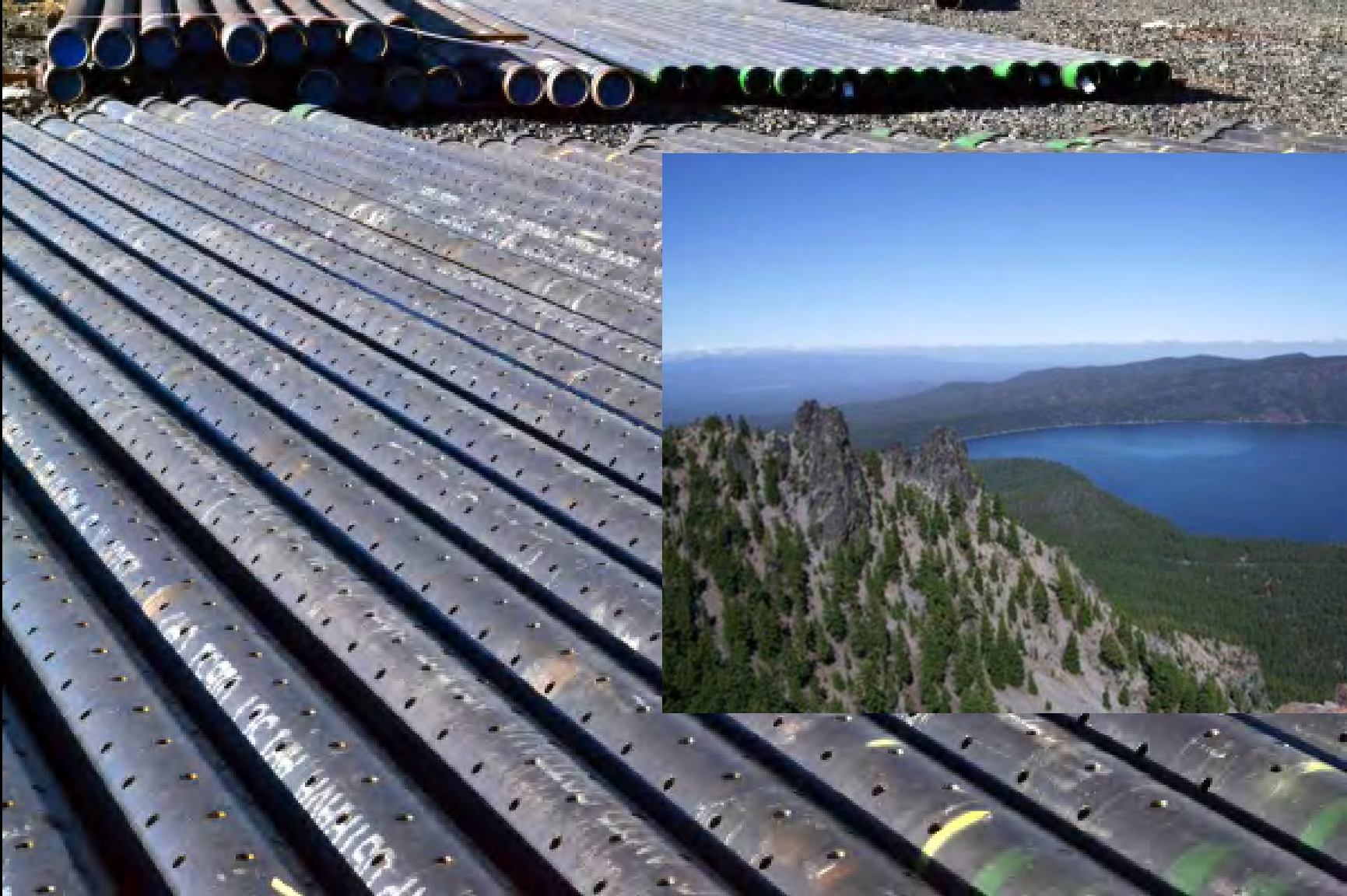
“Other” Wind - The Dutch Windwheel is a huge circular wind energy converter that would house apartments, a hotel and a giant coaster ride.



AltaRock Newberry Enhanced Geothermal



AltaRock - Newberry Enhanced Geothermal



Ormat's 21.8 megawatt Desert Peak 2 plant in Nevada



Raft River Geothermal Plant in Idaho

Conventional hydrothermal setting and an EGS demonstration project



Atlantic Resources 1 MW AK-1000 Mark II tidal turbine



Alstom 1 MW Tidal Stream Turbine Installation



Pelamis Wave Energy



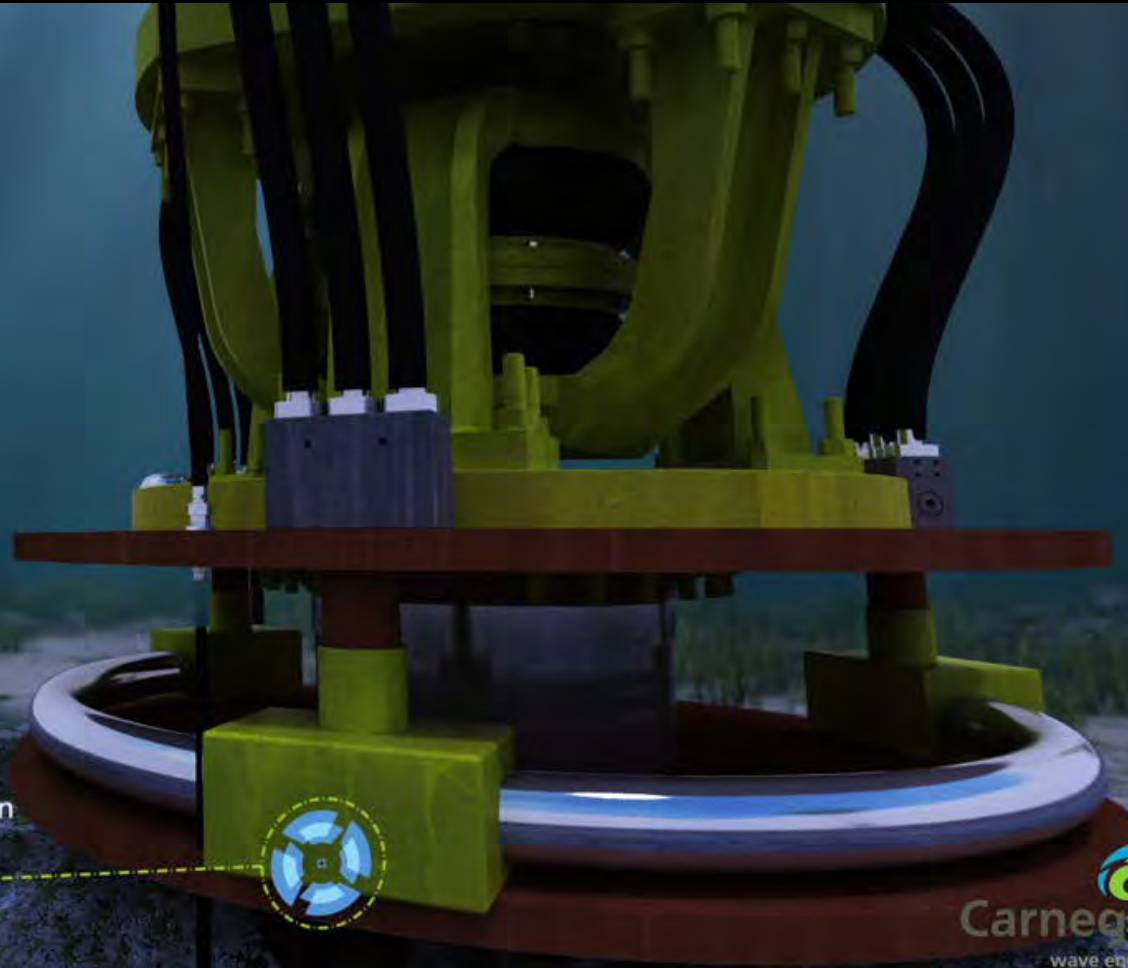
Carnegie Wave Energy

Foundation

Anchors the CETO unit to the ocean floor

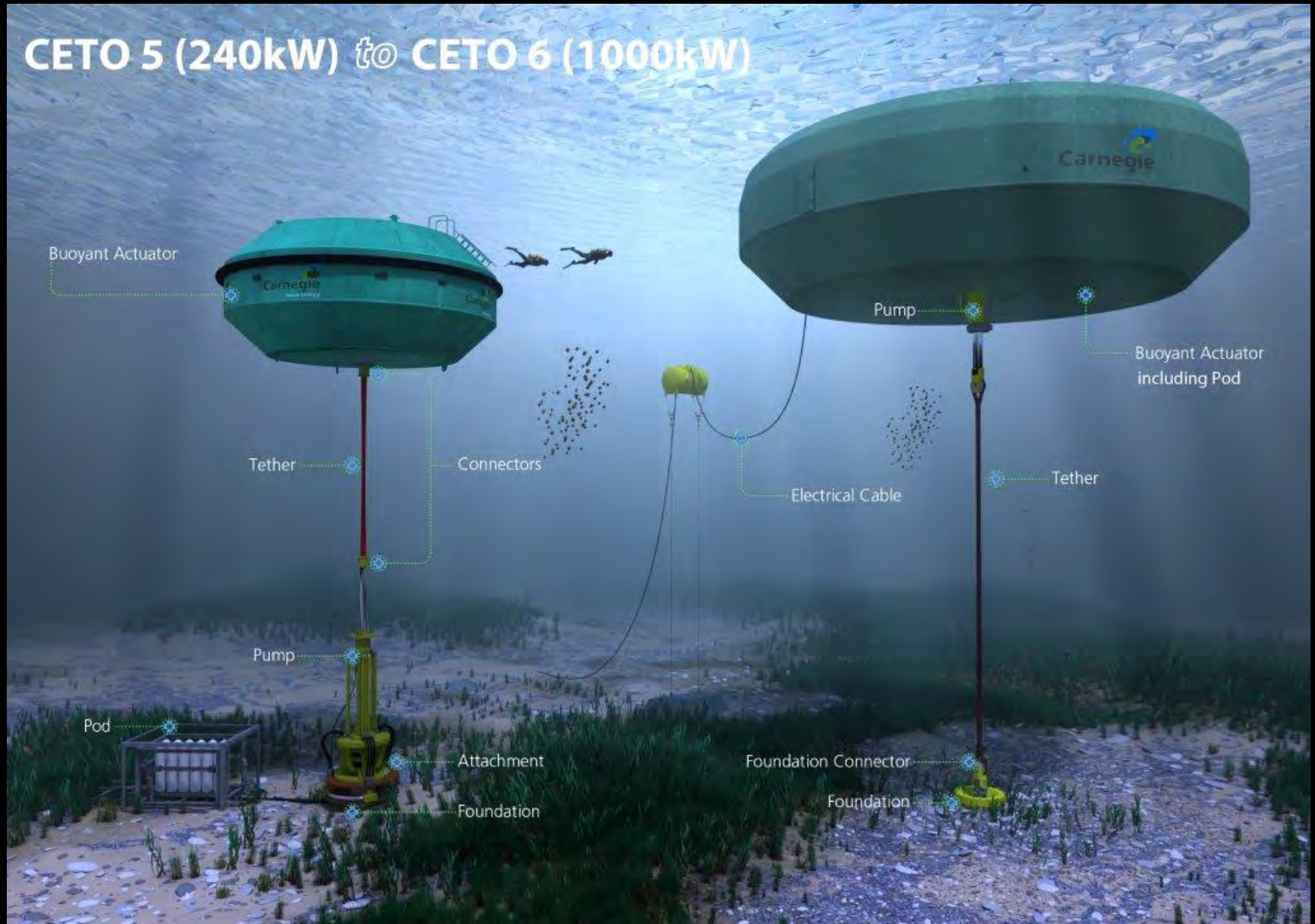
Drilled and grouted pile foundation

Utilises standard offshore design and construction techniques



Carnegie Wave Energy

CETO 5 (240kW) *to* CETO 6 (1000kW)

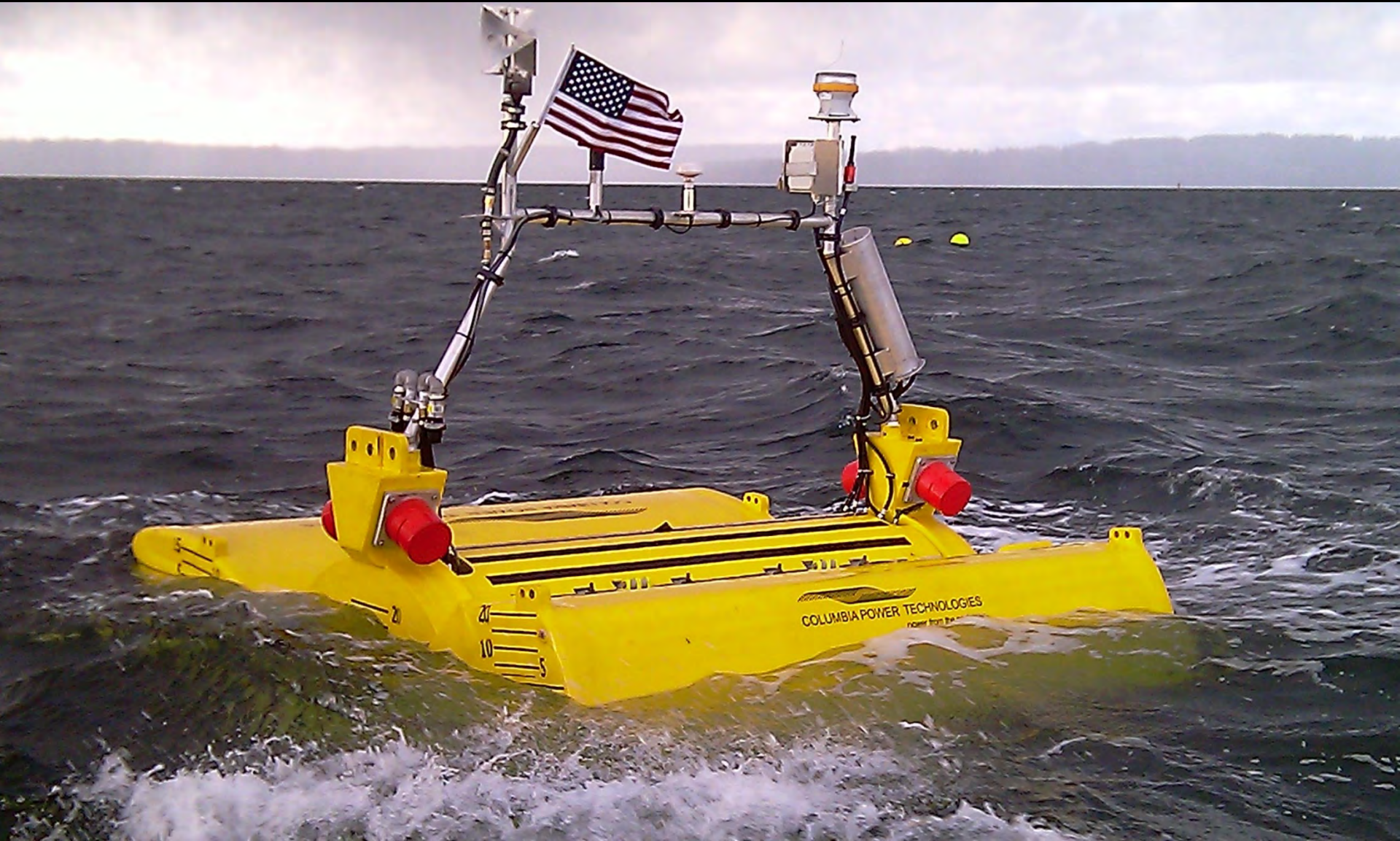


Ocean Power

Autonomous PB40 PowerBuoy® being readied for deployment



Columbia Power Technologies StingRAY wave energy converter



WaveNET - "Squid" generator units

