



Snow & Company, Inc. Delivers Hybrid Catamaran



Snow & Company, Inc. of Seattle, WA recently completed construction of a 50' Hybrid research catamaran for the Pacific Northwest National Laboratory. It is the first and only hybrid vessel in the Department of Energy's fleet. "R/V Resilience" was designed by Incat Crowther with propulsion integration provided by Pacific Power. Hybrid propulsion is accomplished by joining twin Volvo Penta marine engines, and two Danfoss motor-generators. Power is stored using a Spear Trident battery system. This new combination allows the vessel to operate in a zero-emission "quiet" state, which is a more effective approach for marine research. This innovative model is less intrusive for studying fish and wildlife while also greatly reducing air pollution and carbon dioxide emissions.


The vessel is stationed at PNNL Sequim, a Department of Energy (DOE) marine research facility. Resilience will be a multi-use platform for deploying research equipment, ROV's and diving operations in support of various research projects, including power generation and environmental surveys.

This hybrid vessel is a huge step for the blue economy and marks the start of a new generation of technology, enabling a future of research and testing of renewable power from the ocean itself. This hybrid vessel represents great advancements in the effort to decarbonize marine transportation.

R/V Resilience is a plug-in hybrid vessel that operates quietly on electric power at lower speeds as well as traveling 20 knots on diesel power.

- Length: 50'**
- Beam: 16'**
- Draft: 3.5'**
- Displacement: 55,000 lbs**
- Fuel: 600 gallons**
- Fresh water: 80 gallons**
- Person: 2 crew, 6 scientists**
- Speed: Diesel - max 28 knots**
- Electric - max 6 knots**
- Electric "quiet" propulsion mode 1-6 knots for 4 hours**
- All-aluminum construction**
- 5,000 lb capacity A-Frame**
- 1,000 lb capacity crane**
- 500 lb davit**
- Dive operations platform**
- Onboard Scuba Bottle air compressor**
- Garmin electronics suite**
- Flir camera**



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