

JANUARY  
**WORK  
BOAT  
WORLD**  
2019

# THE BEST OF 2018

AWARDS ISSUE



THE YEAR'S BEST OF THE BEST FROM WORK BOAT WORLD AND AUSMARINE



A very interesting and innovative new “concept” vessel, this Norwegian designed and built craft really pushes the boundaries of naval architecture and shipbuilding. Unusually, especially for a catamaran, it has been designed as a “lift-aboard” daughter craft to work from larger vessels. This SES boat is fast, stable, safe and sea-kindly.

“In addition to a strong and sustainable growth of wind farms around the globe, the future wind farms will be much larger and located further offshore in deeper and more hostile waters,” Dr. Nere G Skomedal, Naval Architect and Co-founder, ESNA, told *Work Boat World*. “Sea Puffin is designed to be an efficient and affordable tool for wind farm operators to keep turbine power production record high by providing access to turbines in rougher all year weather with high operational flexibility and safety.

The Sea Puffin is designed as a daughter craft and can be deployed and retrieved from a mother vessel with a single hook davit system. She has proved to be able to safely access wind turbines in 1.75 metres significant wave height, both in short wind driven wave conditions and in long swell dominated sea states.

Sea Puffin is designed as a surface effect ship (SES), so the air cushion between the catamaran hull acts both as a passive shock absorber and with actively controlled pressure control to significantly improve both transit and transfer vertical motions. Without the air-cushion and motion damping software she behaves like a similar-sized catamaran, however, with active pressure control of the air cushion she experiences the ship motions of a much larger vessel.

ESNA was founded in 2015. Since then it has invested heavily in research and development to develop more efficient hull forms and next generation computer based motion damping system. Supported by the Norwegian Regionalt Forskningsråd Agder, Innovation Norway, Sørlandet kompetansefond and the UK-based Carbon Trust Offshore Wind Accelerator program, ESNA has developed a range of SES crew transfer vessel designs from 15 metres and upwards.

This year saw the successful launch and testing of the *Sea Puffin 1*, and ESNA is now heavily involved in new and innovative green vessel designs for new markets and new customers. The company, under a contract with CWind, is developing a hybrid SES CTV, and it hopes a shipyard contract will be signed in 2019.

WB

“Cost-effective SES designs with performance as for larger vessels”

Offshore wind service provider by ownership and management of SES Daughter Crafts and CTVs

[www.windpartner.no](http://www.windpartner.no)

[www.esna.no](http://www.esna.no)