

# The 1st year

Braving the high seas for increased wind turbine productivity and availability



Following their **2015 launch**, Siemens' first two Service Operation Vessels (SOVs) were put straight to work, embarking on a new journey for offshore wind service.



This marked an exciting time for our service technicians, who set sail for a pioneering adventure as modern seamen.



## Let's take a look at their first year at sea.

Our two SOVs operated at **four** different wind farms in the **Baltic and North Sea**.

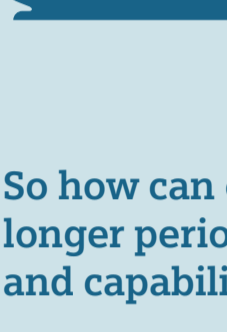


Accumulating more than



**7,000 operational hours**  
time available to service wind turbines

## Perfectly suited for far-from-shore wind farms



The SOVs were able to stay close to these wind farms for up to **4 weeks** at a time.

× port days   × site days

Thanks to this longer period at sea our SOVs' availability on the wind farm was

**3 times higher**  
compared to standard CTVs.



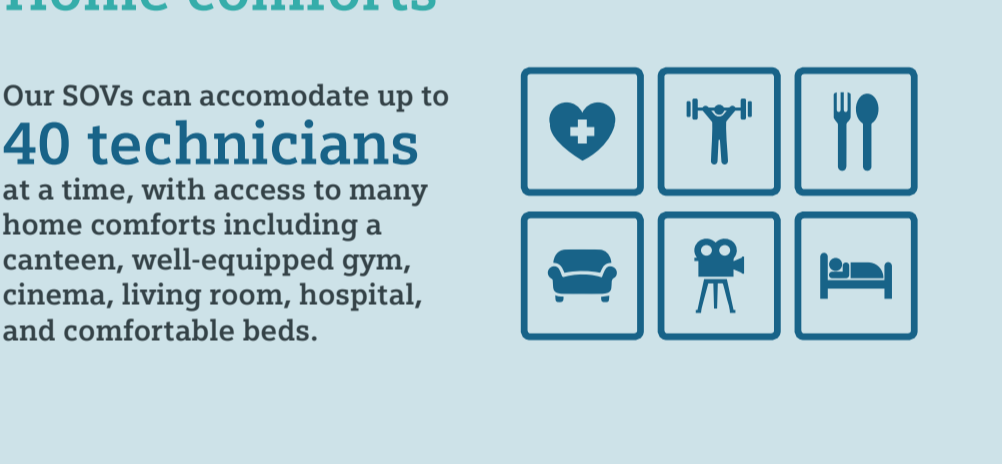
**CTV: 7h a day**



**SOV: 21h a day**

So how can our SOV stay far from shore for longer periods? Thanks to its innovative design and capabilities:

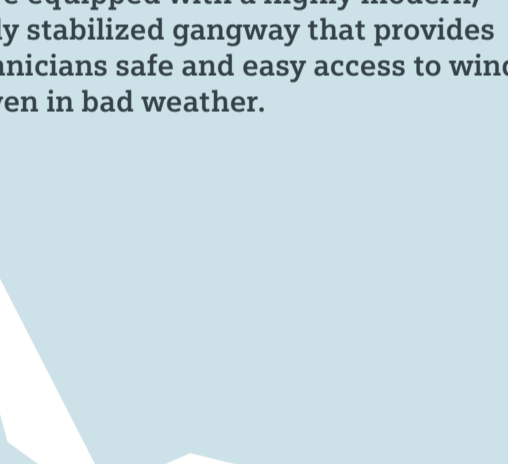
## A floating warehouse



Below deck, our SOVs have a warehouse area measuring

**430 m<sup>2</sup>**

space for **6** standard shipping containers



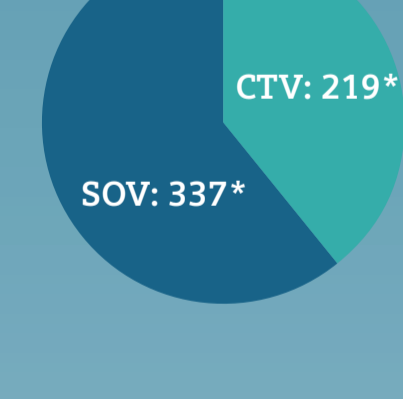
storing many spare parts.

With these spare parts stored on the SOVs, our technicians were able to perform various tasks including:

- Scheduled service
- Preventive maintenance
- Retrofits
- Troubleshooting
- Minor repairs
- Turbine installation assistance

## Home comforts

Our SOVs can accommodate up to **40 technicians** at a time, with access to a canteen, well-equipped gym, cinema, living room, hospital, and comfortable beds.

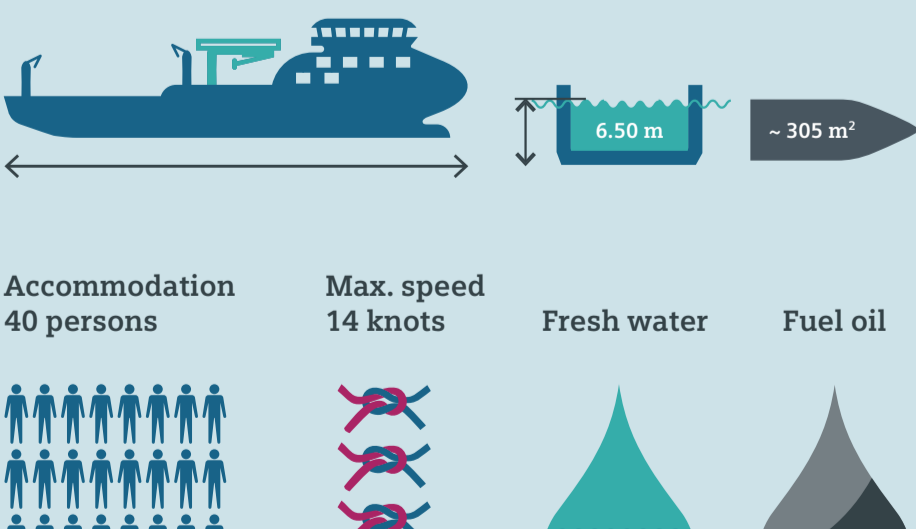


## As easy as crossing the street



Our SOVs are equipped with a highly modern, hydraulically stabilized gangway that provides service technicians safe and easy access to wind turbines, even in bad weather.

And thanks to this gangway system



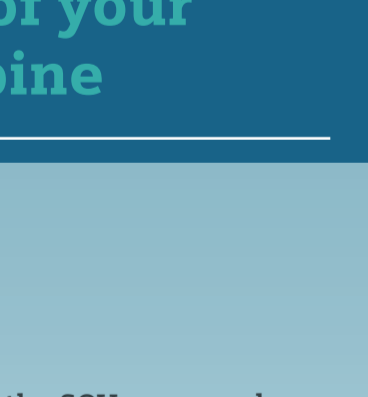
**7,419** technician transfers were safely carried out from the SOV to the wind turbine

This system allowed our service technicians to access wind turbines even at significant wave heights of

**2.5 meters**

Before, access was only possible below 1.5 meters.

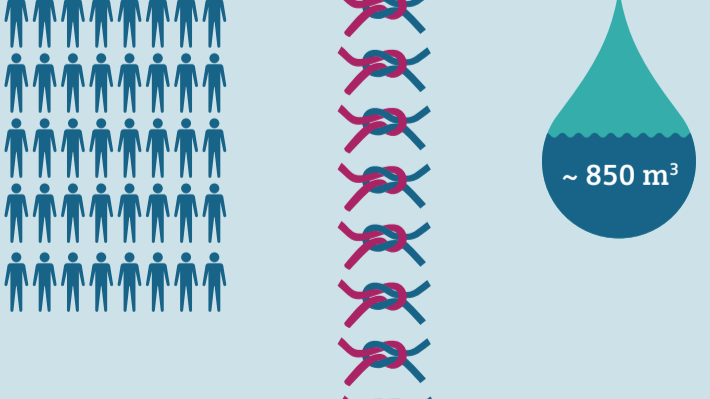
And thanks to this gangway the SOVs' availability in adverse weather was much higher compared to CTVs.



\*Operational days per annum

All of this innovation leads to increased **productivity** and **availability** of your wind turbine

And it's environmentally sustainable – the SOV measured a lower fuel consumption than projected thanks to Siemens Blue Drive technology.



## Facts and figures

| Main statistics          |                     | Capacities            |                      |
|--------------------------|---------------------|-----------------------|----------------------|
| Dimensions               |                     | Draft                 | Deck area            |
| Length 83.70 m           | Width 18 m          | 6.50 m                | ~ 305 m <sup>2</sup> |
| Accommodation 40 persons | Max. speed 14 knots | Fresh water           | Fuel oil             |
|                          |                     | ~ 850 m <sup>3</sup>  | ~ 950 m <sup>3</sup> |
| Deadweight 3200 t        |                     | Water ballast         |                      |
|                          |                     | ~ 2500 m <sup>3</sup> |                      |

## Braving the high seas in the future



Our adventure continues into new horizons, with **three** additional SOVs – now with helipads – soon joining our service fleet.

Want to explore the benefits of our SOV for yourself? Get on board at:

<http://www.energy.siemens.com/hq/en/energy-topics/energy-stories/sov.htm>