

## PROJECT

Transportation of offshore wind columns inside a shipyard in Setubal, Portugal



SMARTER, SAFER, STRONGER

### SECTOR

Offshore

### EQUIPMENT

44 axle lines of SPMT

### WEIGHTS

Wind columns - 700t-900t

### OVERVIEW

- Reduced schedule
- Bespoke solution
- Minimised disruption
- Short notice mobilisation

### LOCATION

Setubal, Portugal



## THE PROJECT

ALE has performed the transportation of 6 columns, weighing 700t-900t, into Lisnave shipyard in Setubal, Portugal.

The columns were transported from their manufacturing area to the dry dock where they were assembled and then launched afloat. The transportation was performed using 44 axle lines of SPMT along an 800m route that included 2 turns of 90 degrees and a slope of 2%. The 6 columns were transported and adjusted into their assembly positions with a tolerance of only 10mm within 6 days. The operation was completed in only 10 days.

The 6 columns were later assembled to form 2 'WindFloat units' (floats) for offshore wind turbines for the Windfloat project.

WindFloat is a floating foundation for offshore wind turbines. The innovative features of the WindFloat dampen wave and turbine-induced motion, enabling wind turbines to be sited in previously inaccessible locations where water depths exceeds 40m and wind resources are superior. Further, economic efficiency is maximised by reducing the need for offshore heavy lifting operations during final assembly, deployment and commissioning.

