

**Field of expertise:** Tidal energy, hydraulic engineering, mooring

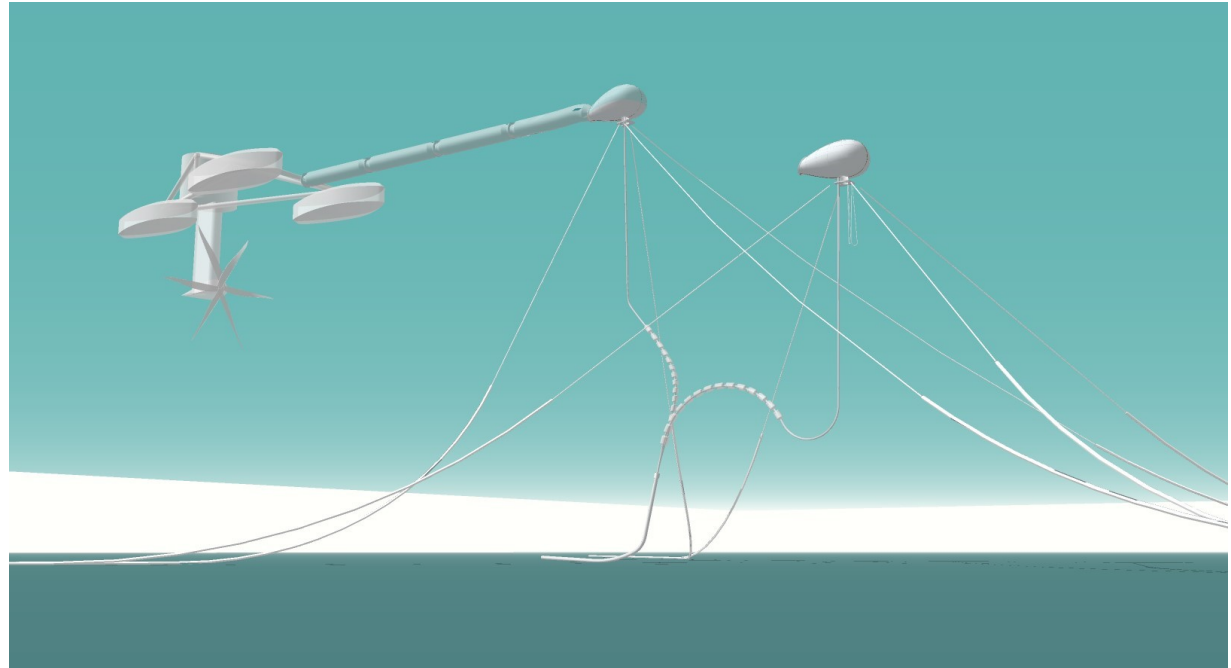
**Client:** Strukton Sustainable Energy

## Project description

Strukton Sustainable Energy asked MH Poly to develop a mooring system for five floating tidal energy turbines that will be deployed in the strait of Raz Blanchard.

The philosophy behind the mooring system is that it allows the turbines to rotate with the prevailing current direction to optimize the amount of energy harvested from the tidal currents. The mooring system is calculated with the dynamic mooring analysis software package OrcaFlex.

## Raz Blanchard: mooring system for floating tidal energy turbine



## Project activities

- ◆ Determining the boundary conditions (waves and currents) under which the tidal turbines were going to operate;
- ◆ Design of the rotating connection between turbine and mooring;
- ◆ Design and calculation of the partially submerged mooring system;
- ◆ Design and calculation of the subsea anchor points;
- ◆ Advise on installation and maintenance strategy.