

# Technology and market mapping of wave energy solutions

A wide variety of technologies are being developed globally to harness the energy of ocean waves for sustainable power production. Ørsted was briefly involved in wave energy several years ago before assessing that the sector was not of a sufficient scale or maturity to be commercially attractive. Ørsted regularly updates this assessment and is seeking the input of a Conflux Consulting team for their next update.

## Engineering challenges to be solved

The research team will be required to collect, synthesize and analyze technical characteristics of many competing and significantly different wave energy technology concepts. They will need to critically assess the techno-economic feasibility of each concept while developing an understanding of the market for wave energy.

## Engineering backgrounds needed

Backgrounds in energy engineering, offshore systems, reliability analysis, techno-economic modelling, energy markets and business case generation will be valuable.

## What do you hope can be achieved with the project?

It is anticipated that the research team will provide a concise summary of the various technology concepts currently leading the wave energy sector, along with their respective pros and cons. Additionally, the current and prospective state of the market for wave energy technologies should be presented.

Finally, Ørsted seeks a recommendation from the research team regarding the position the company should take regarding future engagement with the wave energy sector.