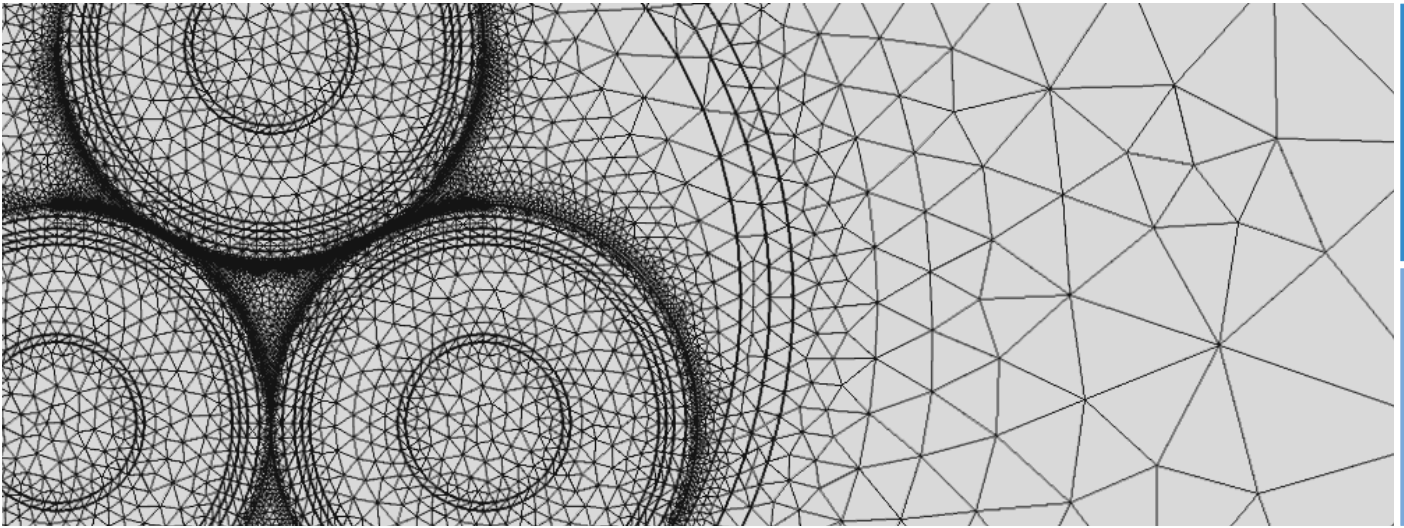


SUBMARINE CABLES, CABLE LANDFALL AND ONSHORE CABLING SERVICES



RES Offshore provides marine and land cable route engineering system, engineering and installation management services for offshore wind, wave and tidal projects, from generator to grid connection. Each phase of the cabling solution can be carried out on a stand-alone basis, as part of a wider project development, engineering or construction activity or as an end-to-end cable management package.

Cable routing and pre-installation engineering

- Geophysical route surveys and analysis of survey results
- Array cable layout development and optimisation
- Route engineering and design risk assessment
- Determination of optimised cable protection requirements
- Cable route, landfall and interface selection
- Identification of suitable cable manufacturers and transportation logistics
- EIA and consent compliance

Cable system design, engineering and procurement management

- Plan and manage the cable system procurement strategy
- Produce/review ITT specifications for cables and accessories
- Review tender submissions including manufacturing, logistics, testing and equipment proposals
- Electrical design and capacity rating evaluation
- Factory acceptance, as-laid testing and cable commissioning
- Client representation

Installation project management

- Installation methodology, logistics and programme review
- Identify suitable sub-contractors for all phases of the installation
- Produce procurement and installation ITT specifications and scopes of work (land and marine)
- Review tender submissions including installation procedures, logistics, cable laying vessels and equipment
- Manage installation contractor, compliance with HSE and quality requirements
- Manage interfaces between cable installation contractors and other stakeholders
- Manage installation reporting and as-built charting and data deliverables
- Determine and manage strategic maintenance and repair solutions

About RES Offshore

RES Offshore offers integrated development, engineering, construction and AO&M services for utility-scale renewable energy projects. From offshore wind to wave and tidal, we bring to projects the considerable skills and experience that we have acquired over 30 years in the renewables industry. RES Offshore is part of the RES Group, one of the world's leading renewable energy project developers. To date, RES has delivered more than 8000MW of wind energy capacity worldwide.

RES Offshore has the full range of in-house capabilities required to deliver each of the project phases and this allows us to develop cost-effective, innovative solutions that can make the difference between project failure and success.

We have applied our development, engineering and technical skills and experience to a number of successful offshore projects and we can provide our services either as a defined package of work or as part of the owner's project team.

RES Offshore has a wealth of in-house experience built on our participation in UK Rounds 1, 2 and 3, and also in the development of projects in Northern Ireland and France. Having expertise and experience on hand has enabled us to engineer designs, mitigate environmental concerns, optimise energy yields and deal with complex technical and performance issues. We work closely with turbine suppliers, electrical equipment manufacturers, grid utilities and statutory authorities to find the right solutions.

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