

Offshore Electrification & Wind | 2019 to 2022

Kellas Midstream Limited and Flotation Energy Limited

Customer: Managing Director, New Energies

Project phase: Appraise, Select

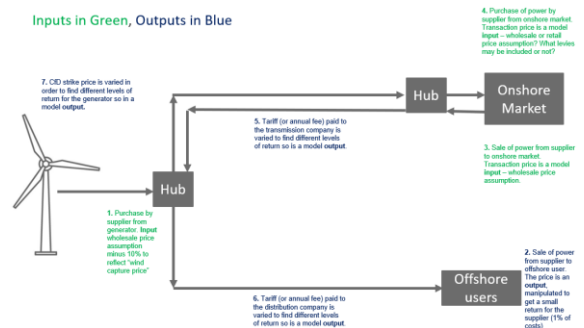
Dundas scope: Economic model building
 Estimation of input data
 Carrying out evaluations and provision of advice
 Definition of a commercial business model
 Project framing facilitation to establish documented project goals, scope and priorities
 Reconciliation against NSTA modelling

PROJECT DESCRIPTION

Kellas Midstream Limited (Kellas) is an independent energy infrastructure company with an established portfolio of critical assets in the Central and Southern North Sea. Flotation Energy Flotation Energy is a leading developer and owner of offshore wind projects.

Kellas retained Dundas consultants Ltd to assist in evaluating opportunities to invest in offshore electrification infrastructure.

The evaluations carried out covered electrification via cable from shore and also incorporating a large scale windfarm option (follow on study along with Flotation Energy).



DUNDAS ROLE

Dundas assisted with defining appropriate scenarios for evaluation along with estimation of CAPEX, OPEX saving, power requirements, emissions impacts, sales gas impact, Diesel savings. Dundas also assisted with developing a set of assumptions around system power losses, commercial business model definition, appropriate legal entity ownership boundaries, schedule, CO₂ price, power prices and so on. Bespoke discounted cashflow models were prepared and appropriate evaluations carried out for a system potentially involving five different legal entities Transmission, Generator, Supplier, Users, Distribution. Clear recommendations were made to Kellas senior management in a formal written report and summary presentations.

