

Acorn Hydrogen & CCUS Project | 2018 to 2019

Total Energies

Customer: Head of New Technology Innovation

Project phase: Appraise, Select

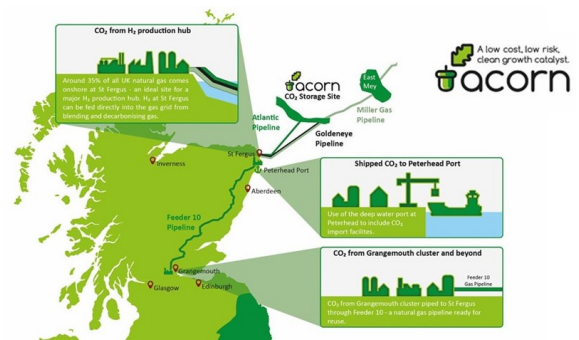
Dundas scope: Engineering management
Economic model building
Economic evaluations and provision of advice
Commercial advisory services
Project framing

PROJECT DESCRIPTION

TotalEnergies is a broad energy company that produces and markets energies on a global scale: oil and biofuels, natural gas and green gases, renewables and electricity.

Total was in partnership with Pale Blue Dot energies to study the potential of the Acorn project. The Acorn project included a number of component parts – Hydrogen production from natural gas, CO₂ transportation and storage, and carbon capture from existing processes. Total has subsequently exited the joint venture.

Total retained Dundas consultants Ltd to provide multi-disciplinary advisory support through a two year period of Appraise and Select studies.

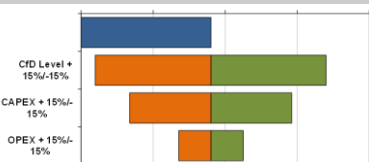


DUNDAS ROLE

Dundas assisted with a multi-discipline team effort including:

- Origination of the economic model including the Government subsidy frameworks
- Strategic review of European and UK energy market
- Preparation for engagement with Government representatives
- Economic modelling work to meet specific requirements of Total HQ Hydrogen specialists
- Economic evaluations
- Provision of the engineering manager
- Project framing facilitation
- Advisory services on commercial structures and risk

Clear recommendations were made to Total senior management in formal written reports and summary presentations.



IRR (real) v CO₂ Tariff, £/tonne, RT 18



Project Cashflow, Transportation & Storage Project

