

Business Case for New Traction Fuels



Increased adoption of new traction fuels will reduce carbon emissions, unburned hydrocarbons, carbon monoxide, carbon monoxide, nitrogen oxides and particulate matter.

Client

UK Department of Transport

Location

United Kingdom

Contract Value

USD 100K

Years

2016-2018

Project Overview

AECOM developed a business case for hydrogen and battery traction trials on East Midlands Rail Franchise, which included the development of Strategic Outline Business Case which assimilated asset lives, rail infrastructure network characteristics, technological advances, and key contractual insertion points, as well as ensuring alignment with wider national energy policy.

Client Benefits

- AECOM collated the technical evidence and led strategic options development, during which we presented complex technical subjects and plans to multiple stakeholders. The team varied the breadth and depth of information to allow informed decision making, carefully phasing the order of stakeholder interaction to validate any consolidation of messages and progress decisions in a logical order.
- The increased adoption of new traction fuels on the rail network reduces the carbon emissions that result from train operations.
- In addition, the increased adoption of new traction fuels on the rail network reduces other emissions, such as; unburned hydrocarbons, carbon monoxide, nitrogen oxides or particulate matter. This improved air quality with associated environmental and human benefits.

Work Performed

AECOM supported the stakeholder, UK Department of Transport, bilateral discussions to understand supplier landscape, direction of travel and appetite/readiness to perform trials, helped with development of specifications for the trial in terms of instructions to tenderers and contract development, and undertook tender assessment.

The strategy development and associated procurement support for alternative powered rolling stock included the development of a Strategic Outline Business Cases (HMT Green Book Standard), which led to the successful funding of trials in revenue service. This has provided key evidence and industry learning to inform wider rolling stock decarbonation policy.

