

CASE STUDY

HyTIME

Hydrogen Truck Implementation for Maximum Emission reductions



Project

HyTIME is trialling a range of vehicles and associated duty cycles with hydrogen dual-fuel technology.

Customer Requirement

A hydrogen refuelling station (HRS) for Veolia to operate two hydrogen-diesel, dual-fuel, refuse collection vehicles for Westminster City Council.

Solution

H2Tec has designed a HRS that offers a flexible and resilient hydrogen fuel supply, while optimising refuelling capacity, capital investment and operating costs. This HRS meets all applicable PED and ATEX regulations and meets the requirement to dispense a minimum 10 kg of H₂ per day.

Result

40%-70% reduction in tailpipe CO₂ emissions.
Improvement in real-world air quality relative to MY16 standards.
Well-to-wheel reduction of 5%-60% depending on H₂ source.

Deliverables

Hydrogen Refuelling Station.
10 kg H₂ daily capacity.

Challenges

Supply Chain.
Storage of high pressure H₂.
H₂ supply.

Benefits

Economic solution.
H₂ used as a fuel for a local fleet.
Reduction in CO₂ emissions.
Increase in air quality.