



ELENA Project Factsheet

Fountain Fuel Hydrogen Refuelling Stations (FF-HRS)

Location of planned investments	The Netherlands
Final Beneficiary	Fountain Fuel B.V.
Final Beneficiary's address	Louis Couperusplein 52 2514 HR 's-Gravenhage The Netherlands
Sector(s) of investment	Urban Mobility
Total Project Development Services (PDS) cost	EUR 1 606 000
ELENA co- financing	EUR 1 445 000
Project Development Services (PDS) financed by ELENA	<p>The Project Development Services (PDS) financed by ELENA will provide support to implement the Investment Programme (IP) of deployment of eleven Hydrogen Refuelling Stations (HRS) for the use of passenger vehicles, vans, buses, trucks and garbage trucks in urban/sub-urban areas in the Netherlands. The PDS are needed to secure the coordination of the preparation and development of the investment programme.</p> <p>This specifically entails:</p> <ul style="list-style-type: none"> • Project Management & Coordination: A Project Implementation Unit (PIU) will be established and responsible for the project management during the project development phase. • Technical & Feasibility Studies: <ul style="list-style-type: none"> ○ Conditioning studies for permit applications ○ Functional design and system definitions of the IT system ○ Architectural guidance ○ HRS equipment installation • Legal Advice: <ul style="list-style-type: none"> ○ Procurement advisory ○ Franchising model • Financial Advice <ul style="list-style-type: none"> ○ Project funding
PDS Timeframe	Q4 2021 – Q4 2025
Investment programme description	The Investment Programme targets the deployment of eleven urban and sub-urban Hydrogen Refuelling Stations (HRS) in the Netherlands by 2025. HRS deployment will be in phases starting with implementing 3 HRS in 2022 and continuing with the other 8

	<p>stations. The deployed stations will be operated by the project promoter using a franchise model.</p> <p>The municipalities/locations included in the project are Amersfoort, Rotterdam (two stations), Nijmegen, Apeldoorn – Deventer, Zwolle – Hattemerbroek, Almere, Utrecht, Den Haag – Zoetermeer, Tiel and Venlo/Maastricht.</p> <p>The Investment Programme is the first stage of the promoter's long-term investment plan aiming at deploying 50 stations by 2030.</p>
Investment amount to be mobilized	EUR 33m
Description of the approach to implement the Investment Programme	<p>The IP will be implemented by the promoter, specifically the Project Implementation Unit (PIU) to be established within Fountain Fuel. The PIU, with the support of external experts, will carry out:</p> <ul style="list-style-type: none"> • Project Management & Coordination • Preparing further technical studies • Project procurement • Developing and improving the franchising model to be used in operations • Financial analyses <p>Project investment will be financed by Fountain Fuel through the following resources:</p> <ul style="list-style-type: none"> • Equity from the company shareholders • Lending from commercial banks • Grants
Expected results of investments planned	<p>The project contributes to the decarbonisation of transport deploying hydrogen refueling infrastructure, which contributes to replace travels that are done with carbon emitting vehicles with hydrogen fueled vehicles with zero tailpipe emissions.</p> <p>The total estimated contributions are:</p> <ul style="list-style-type: none"> • Estimated annual reduction of NOX reductions – Annual total reductions of 12.69 NOX t. • Estimated change in modal share – None. Primary impact is decarbonisation of transport through shifting from carbon fueled vehicles to fuel cell electric vehicles (FCEVs) • CO2 reductions – Annual total reductions of 24,108 CO2 eq t. • Jobs created in construction phase estimated at 110 FTE during the project construction and 95 jobs for the operations <p>The project will also contribute to the acceleration in the use of hydrogen fueled vehicles – therefore contributing to the FCEV market uptake. From this perspective, the project is expected to have a high impact in terms of deploying 'new to market' goods and services.</p>
Leverage factor (Minimum 10)	23
Status	ongoing
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