

1. Project description

Blue World aims to develop and demonstrate a reformed methanol fuel cell range-extender platform for heavy-duty road transportation. The solution solves critical pain points and barriers for mass adoption of sustainable and clean transportation of goods and people. Range limitations, long charging durations, limited charging infrastructure and heavy investments in refueling infrastructure are some of the barriers preventing end-users from acquiring electric- and hydrogen fuel cell powered trucks and busses. Powered by liquid renewable methanol, the solution pushes well-to-wheel CO₂ emissions towards zero and eliminates all harmful emissions (NO_x, SO_x and particle emissions). The solution enables long driving ranges (above 1000km) and a short refueling time similar to diesel vehicles. The HT-PEMFC systems developed by Blue World Technologies operates at a 45% net electric efficiency ensuring a cost-competitive fuel economy. Methanol is easily stored and distributed by using the existing fossil fuel infrastructure, and large infrastructure investments are therefore eliminated.

Blue World is an advanced developer and manufacturer of innovative methanol fuel cell components and systems for stationary and mobility applications. With more than 20 years of experience in R&D and system engineering, we are a leading player in commercialization of HT-PEMFC technology. We are an active partner in research and development projects and have prior experience with industrial, mobility and stationary applications. At our headquarters in Aalborg, Denmark, we are currently ramping up for mass-manufacturing of the core HT-PEM technology with a planned annual capacity of 750MW.

Please select which part of the value chain for hydrogen your project focuses on (select one or more, where applicable):

Production	Transmission	Industrial application	Mobility	Energy	Housing application	Other
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

2. Partnerships and spillover effects

We are searching for industrial- and technology partners to develop and demonstrate the value of renewable methanol as a large-scale storage medium for renewable electricity and a versatile, sustainable, and cost-effective fuel for industrial, transportation and residential applications.