

## Aberdeen Hydrogen Refuelling Facility

- The UK's first fully integrated H<sub>2</sub> production bus refuelling station in Aberdeen
- Built and operated by BOC, a member of The Linde Group
- Capable of producing up to 360kg of hydrogen per day from electrolysis
- Designed to refuel a bus in less than 10 minutes
- Located at Aberdeen City Council's Kittybrewster depot

H<sub>2</sub>  
Aberdeen

Aberdeen  
HydrogenBusProject

# Aberdeen Hydrogen Bus Project



[www.aberdeeninvestlivevisit.co.uk/hydrogen](http://www.aberdeeninvestlivevisit.co.uk/hydrogen)



Key industry and public sector players have joined forces to fund and deliver Europe's largest demonstration of hydrogen fuel cell buses in Aberdeen, realising an aspiration to become a world-leading city for low carbon technology.

The Aberdeen Hydrogen Bus Project is made up of two separate EU-funded projects, High V.LO-City, which supports the delivery of the four First Group buses, and HyTransit, which supports the delivery of the six Stagecoach buses. Both projects are supported by the Fuel Cells and Hydrogen Joint Undertaking.

The hydrogen bus project will deliver a hydrogen infrastructure in Aberdeen, including:

- Production of hydrogen from one 1MW electrolyser
- Establishing a state-of-the-art hydrogen refuelling station. This will be Scotland's first commercial-scale hydrogen refuelling station that will include hydrogen production through electrolysis
- Deployment of Europe's largest fleet of hydrogen fuel cell buses
- The development of a hydrogen safe maintenance facility, within an operational fleet maintenance depot

The buses only emit water vapour, reducing carbon emissions and air pollution and are quieter and smoother to run.



FUEL CELLS AND HYDROGEN  
JOINT UNDERTAKING



## Partners, Funders and Contributors:

The Aberdeen Hydrogen Bus Project is a £19million project with funding from the following organisations:

**Fuel Cell and Hydrogen Joint Undertaking (through the High V.LO-City and HyTransit projects)**

**Innovate UK**

**Aberdeen City Council**

**Scottish Government**

**Scottish Enterprise**

**Scottish Hydro Electric Power Distribution**

**Scotland Gas Network**

There are also financial contributions from the following organisations:

BOC is funding the build of the hydrogen refuelling facility

First and Stagecoach are contributing by leasing the buses and through comparative fuel costs

## The Partners:

**VanHool** built the 10 hydrogen fuel cell buses

**Stagecoach** and **First** will be operating the buses

**BOC** has built and will operate Scotland's first fully integrated hydrogen production and refuelling facility.

## Project Support:

**Ballard** - Supplying the fuel cells for the buses

**Element Energy** - An analytical partner

**Dantherm Power** - Part of the Ballard family, will service the buses.

**Hyer** - Dissemination and communication partner for hydrogen and fuel cell technologies

**Planet** - Data collection for HyTransit project

## How a fuel cell works

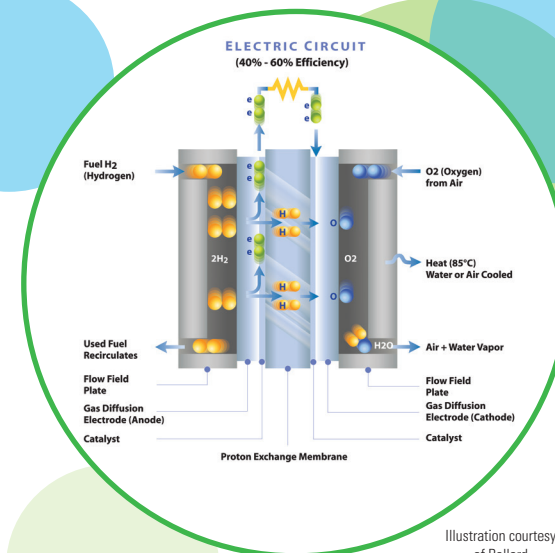


Illustration courtesy of Ballard