Hydrogen in Automotive Application, with Burgaflex B.V.



Aishwarya Aswal (HAN)

aishwarya.aswal@han.nl

HAN_UNIVERSITY OF APPLIED SCIENCES

H,

Η,

Background

Motive behind project start?

- To learn about hydrogen technology!

Best possible option?

- Student project

Create a plausible case to be solved?

A project with physical implementation

Opportunities:

- Students become educators.
- **Re-use** what is available.
- Company invests and HAN provides the technical support with tools.



Transpor

Project Objective

Feasibility study of converting an electric to a fuel cell hybrid driveline with EMS in a forklift application.

Challenges:

- **Static** behavior of the fuel cell
- Fuel cell warm up
- Packaging of the fuel cell
- Component integration
- Operational in March 2023



FCEV Driveline



https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.intechopen.com%2Fchapters%2F18666&psig=AOvVaw2jrvoZJAn6pXydk3 nzSVeP&ust=1674545014425000&source=images&cd=vfe&ved=0CBAQjRxqFwoTCMi517eU3fwCFQAAAAAdAAAABAE

10 [kW] FCEV Driveline



Energy Management System



Various Fuel Cell hybrid driveline projects



1 [kW] Fuel cell as 'Range extender'

Thank you!

Questions?

Contact details for future questions:



Aishwarya.Aswal@han.nl +31650093178

