HILUX FUEL CELL CONVERSION PROJECT



TOYOTA MOTOR MANUFACTURING UK LTD

Katherine Chamberlain Senior Manager, New Product Development "I commit to put all members safety first in everything I do" 'I will ensure all members feel included and if I see something I will say something"



TODAY'S SUMMARY

TOYOTA HYDROGEN STRATEGY

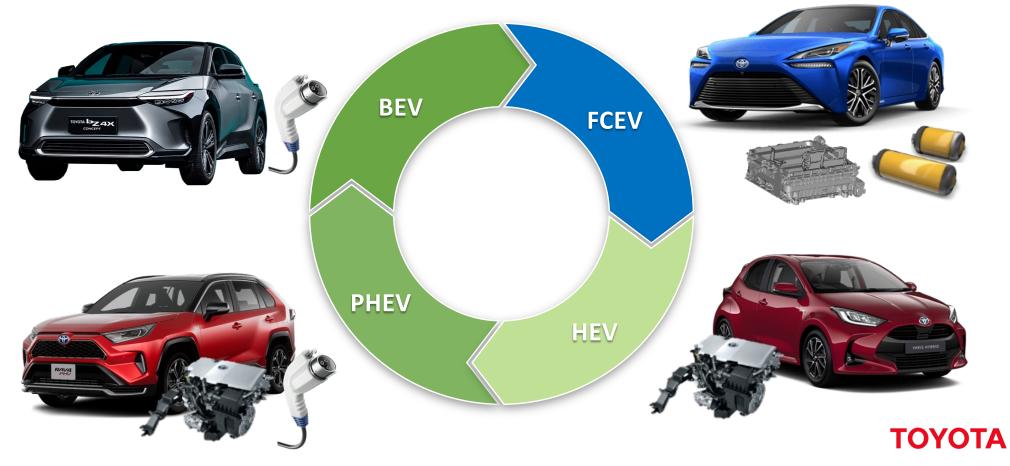
WHY FUEL CELL HILUX?

PROJECT OVERVIEW

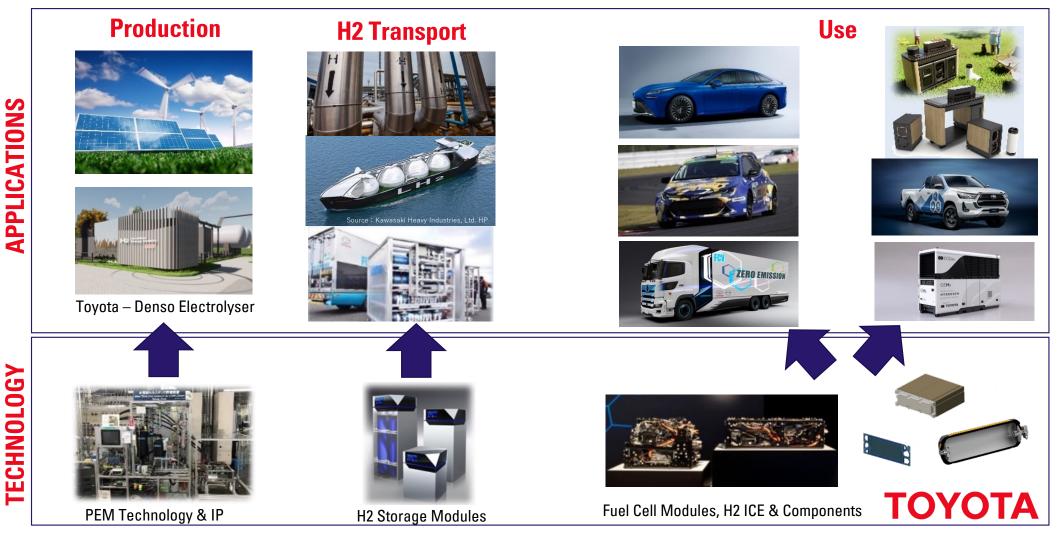


OUR COMMITMENT: A CARBON NEUTRAL SOCIETY

TOYOTA HAS MORE THAN ONE SOLUTION



TOYOTA : WORKING TO CREATE A HYDROGEN SOCIETY



ADVANTAGES OF HYDROGEN FOR LCV



Infrastructure density required for LCV is lower than PC



Strong performance requirements (range, payload, towing) that can not be fulfilled by BEV



Short refuelling time reduces wasted time for the business



Secure the operations in case of potential electricity grid issues



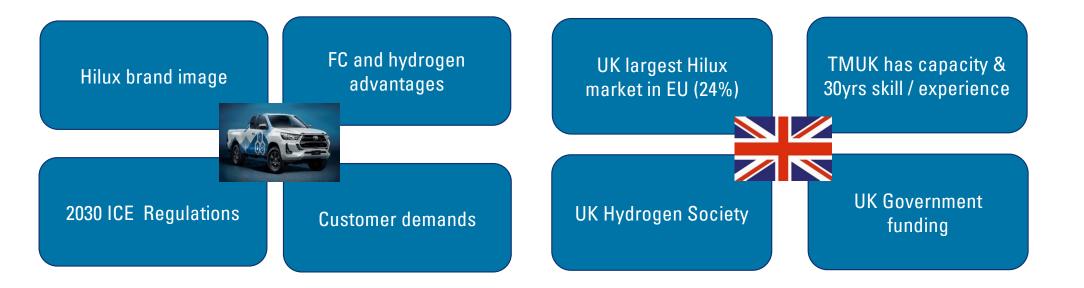
Lower weight of FC system \rightarrow higher payload capacity



Companies (fleet) move faster to ZEV to meet Carbon Neutrality Targets



PROJECT STRATEGY: WHY FUEL CELL HILUX IN THE UK?



ΤΟΥΟΤΑ



FUEL CELL HILUX CONVERSION

PROJECT SUMMARY

Today's overview

- -APC Funding
- Project content
- Project Master Schedule
- Target customers
- Public Relations

ΤΟΥΟΤΑ

UK GOVERNMENT FUNDING: APC



PROJECT CONSORTIUM





ADVANCED TECHNOLOGIES





UK GOVERNMENT SUPPORT FOR DEVELOPMENT OF FC HILUX





FC HILUX CONCEPT

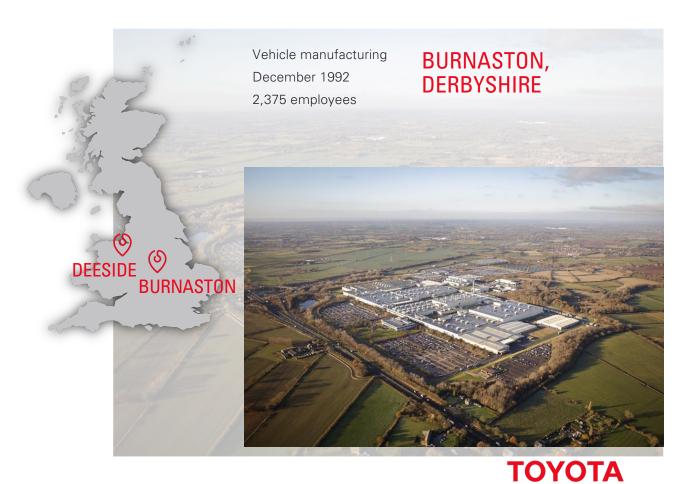






TMUK FUEL CELL HILUX PROTOTYPE MANUFACTURING

- First FCEV in TMUK
- First Hydrogen project in TMUK
- First major conversion in TMUK
- First HRS onsite @ TMUK



TMUK PREPARATION

1) Hilux & FCEV vehicle study





TMC benchmark visit



8 TMUK members visited TMC:-

- PC
- Assembly
- QA
- H&S







Honsha Plant: **FC Stack** production 24th March



Shimoyama Plant: **Hydrogen Tank** production 27th March

TMUK MEMBER SKILL DEVELOPMENT



PROTO BUILD IN PROGRESS







HILUX DELIVERED

PREPARATION

PROTOTYPE BUILD



TMUK TEAM

PROTOTYPE TESTING WITH ALIGNED COMPANIES

UK







GERMANY





CLEAR COMPANY TARGETS TOWARDS 2030 ZERO EMISSION VEHICLES



PROMOTION

HIGH INTEREST FOLLOWING ANNOUNCEMENT



BUILD ON THE INTEREST DURING Q3 & Q4 2023 WITH STATIC & DYNAMIC VEHICLE REVEALS







START THE JOURNEY

GENERATE CLUSTERS AND DEMAND FOR HYDROGEN

PROVE PERFORMANCE IN HARD TO DECARBONISE SECTORS

ΤΟΥΟΤΑ

THANK YOU!

