



MILFORD HAVEN:ENERGY KINGDOM

THE FUTURE OF ENERGY

IN PEMBROKESHIRE RIGHT NOW

















Pembrokeshire is making the change to renewable energy.

MILFORD HAVEN: ENERGY KINGDOM shows how clean energy can be stored so it can be used for transport or heating.

The project demonstrates how

HYDROGEN

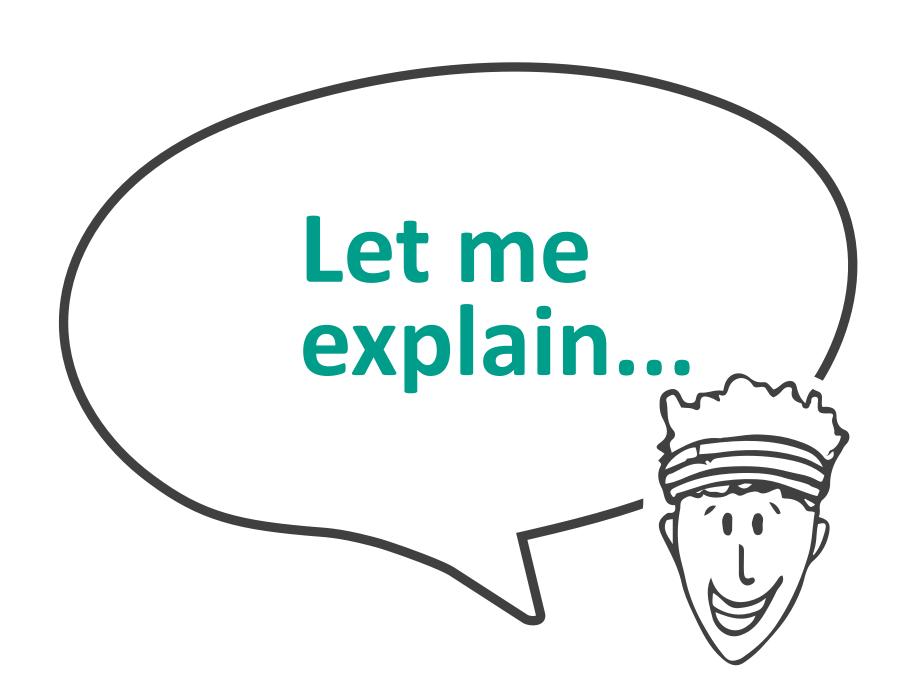
can be used to achieve this.





But what did it take to make this happen?

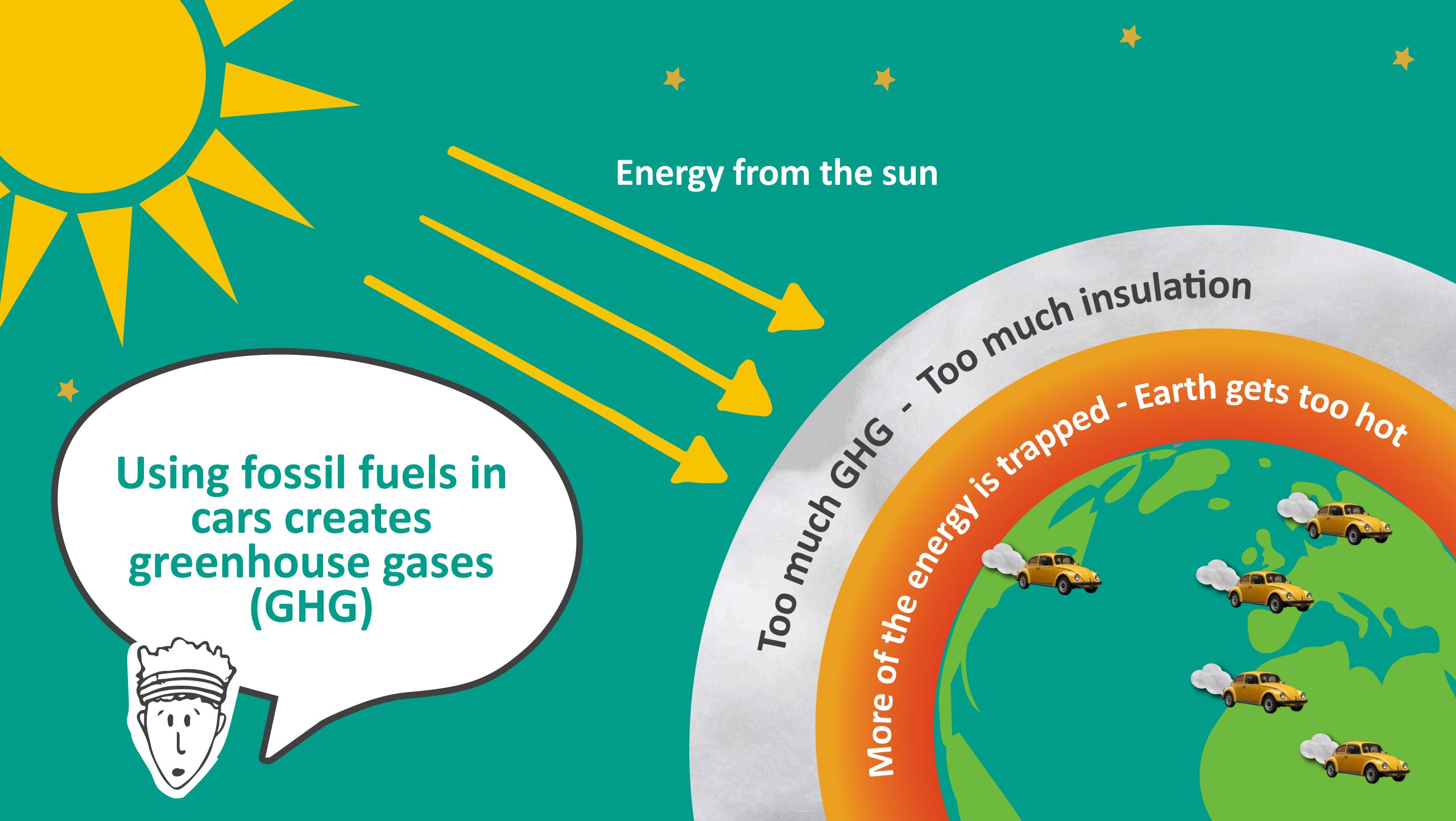






What's the problem with fossil fuels?





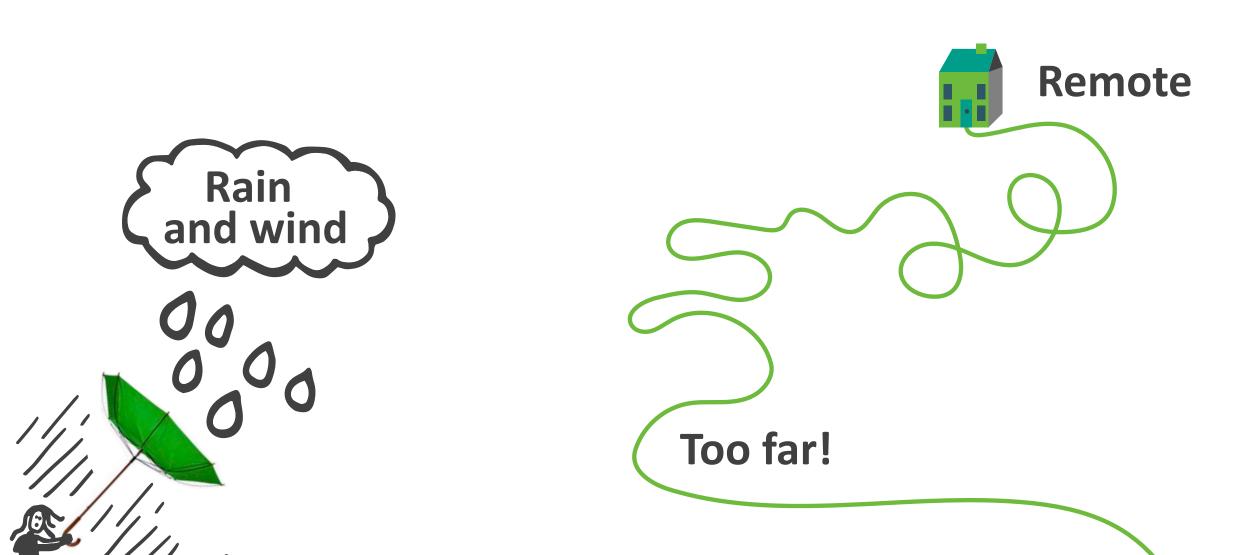
So, what can We do?





ACTIVE TRAVEL PUBLIC TRANSPORT

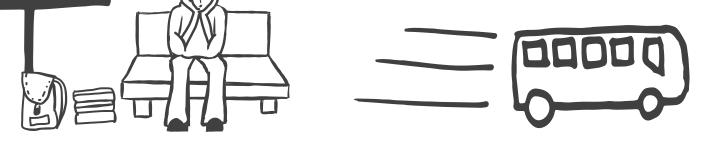




But sometimes we NEED a car!



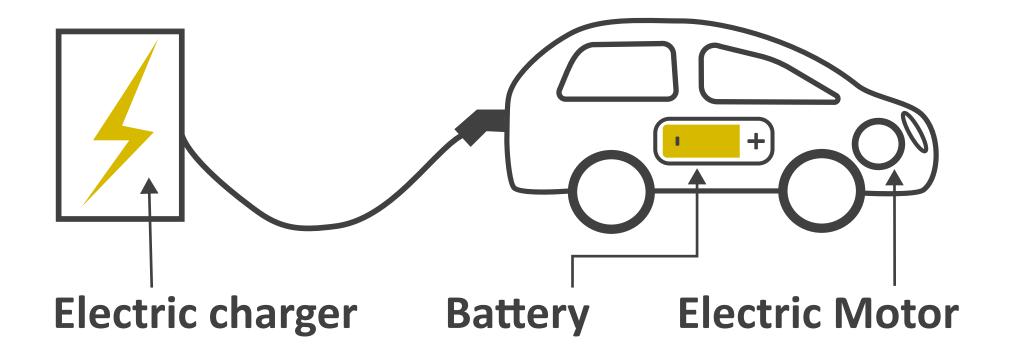




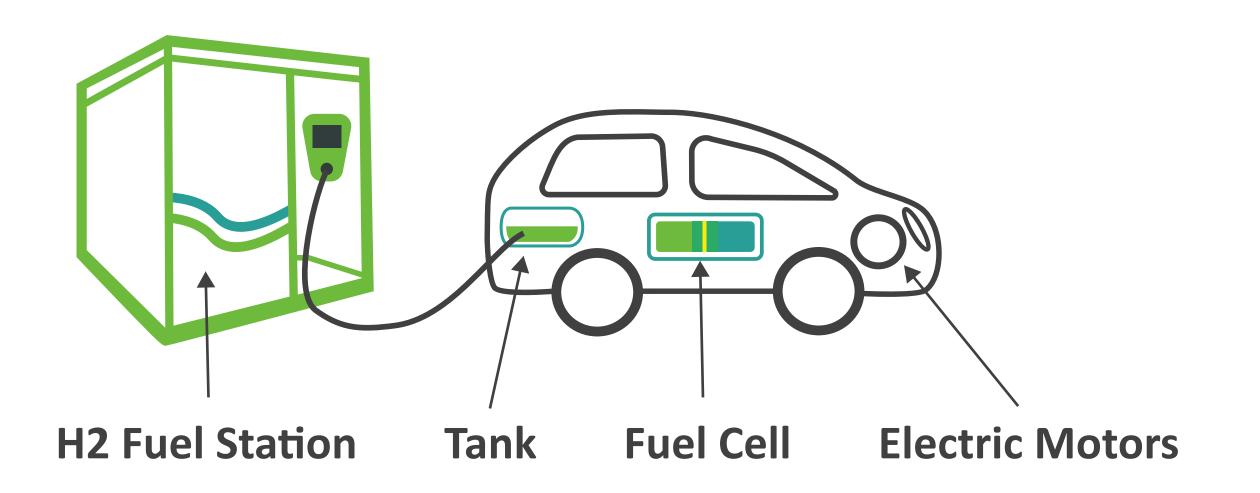
Well let's talk about 'Hydrogen fuel cell electric vehicles'!

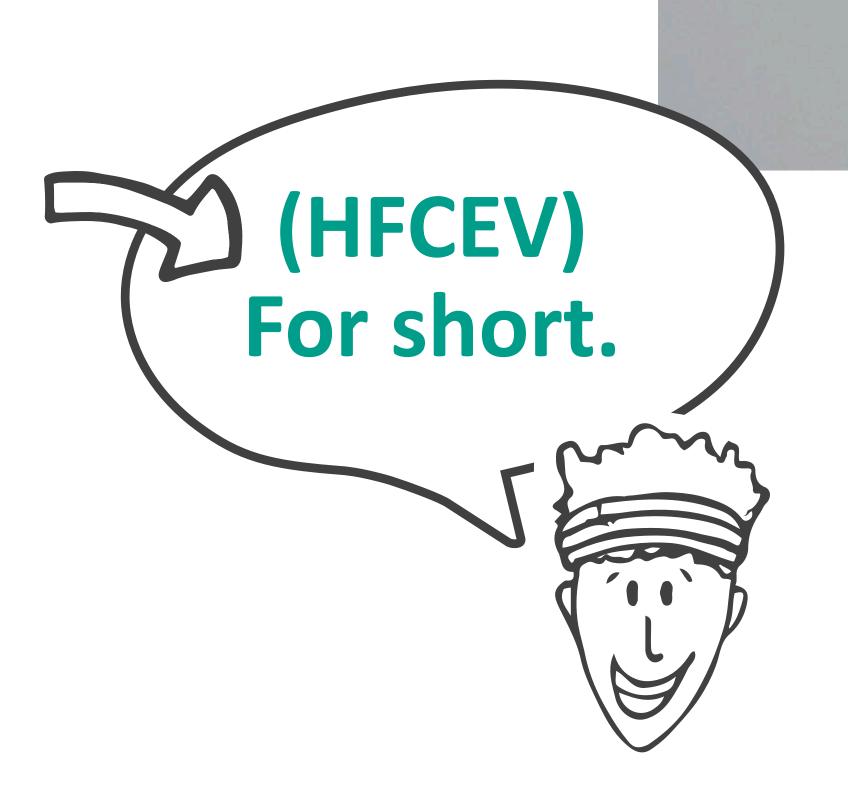
Last bus has gone

Battery electric vehicles

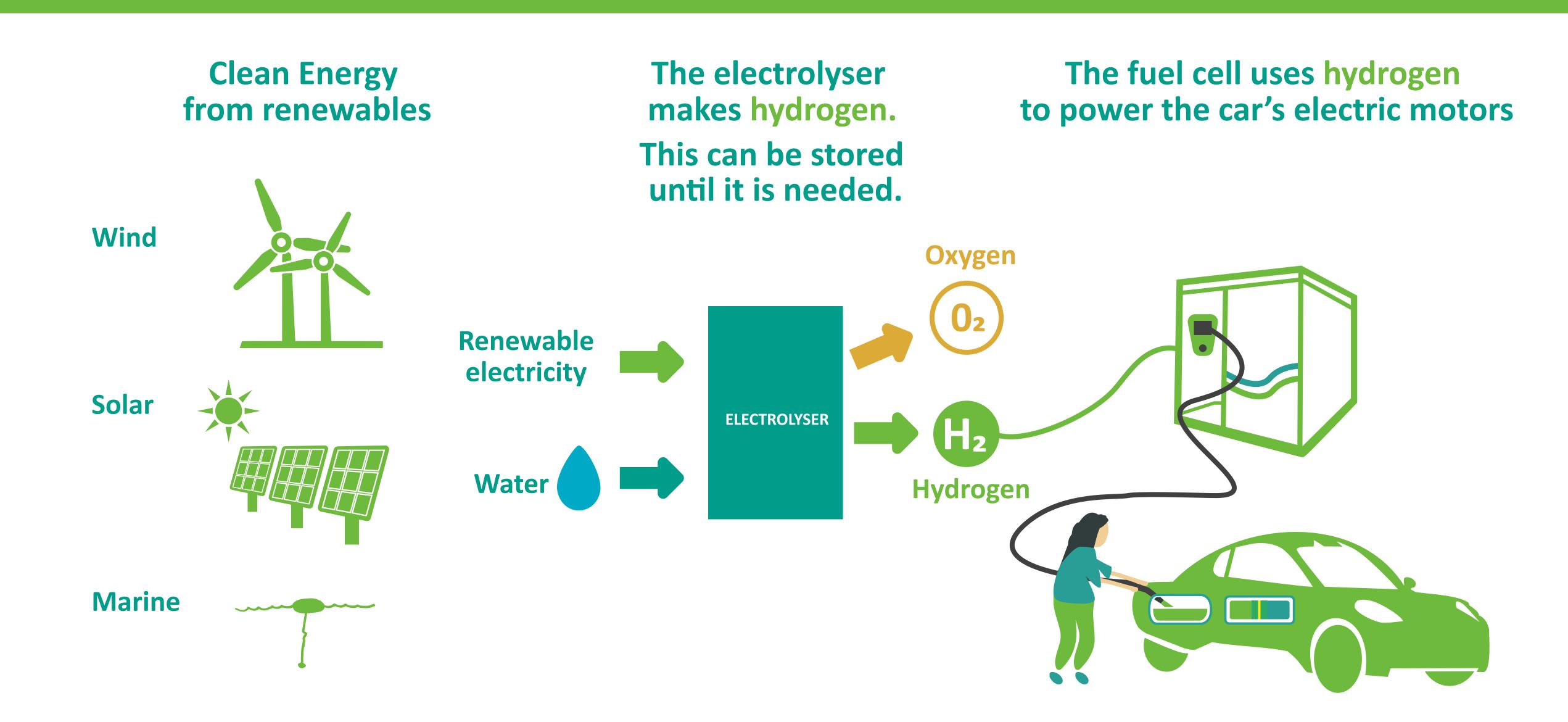


Hydrogen fuel cell electric vehicles





How do HFCEVs work?



HFCEVs MEAN:

- X No fossil fuels
- X No extra greenhouse gases
- Energy on demand



What are cars made of?



ALL cars are made of many different materials

Most materials are made from other materials that are dug out of the ground.

This means:



There is a fixed amount of these materials in the world.



Energy is needed to make them which means more GHG.



Some of these materials can be recycled, but the rest end up in landfill.





LOW STOCK









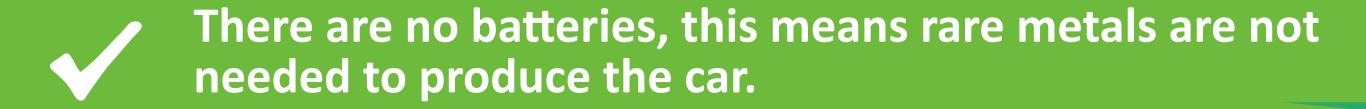


What's different about the way HFCEVs are made?



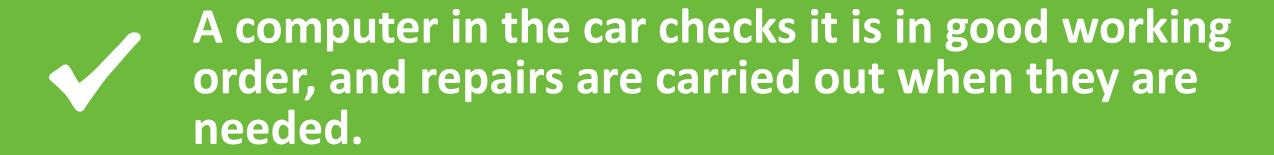
HFCEV engineers plan the best way of making, driving and recycling the HFCEV car.

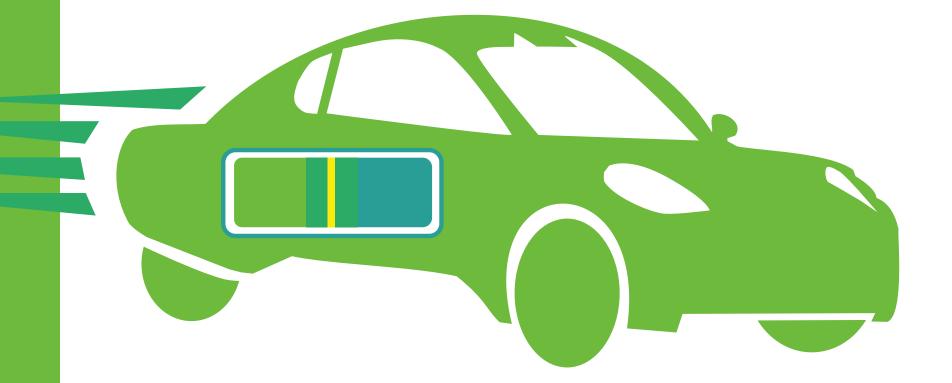






The electric motors need less maintenance and fewer repairs than a petrol or diesel engine.







MILFORD HAVEN: ENERGY KINGDOM is one way people in Pembrokeshire are using science and engineering to act on climate change.



SCIENCE + ENGINEERING = A huge impact on climate change

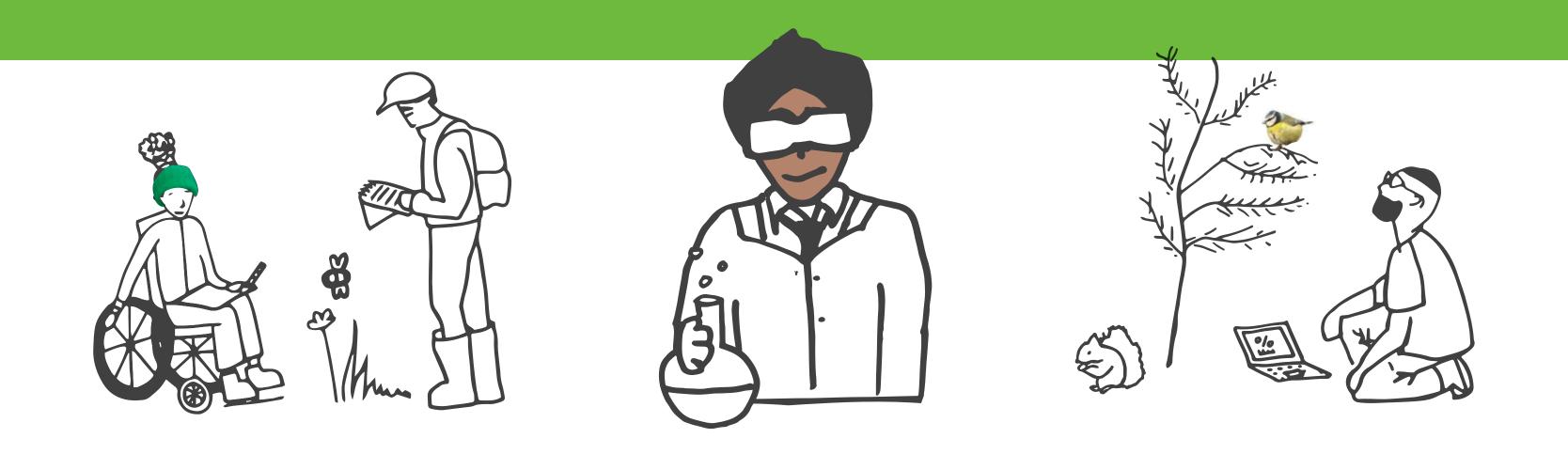
What can WE do now to make a difference?







You could become an inventor or engineer to help make a cleaner, greener future.









With thanks to our project partners









