



## **Net Zero North Sea**

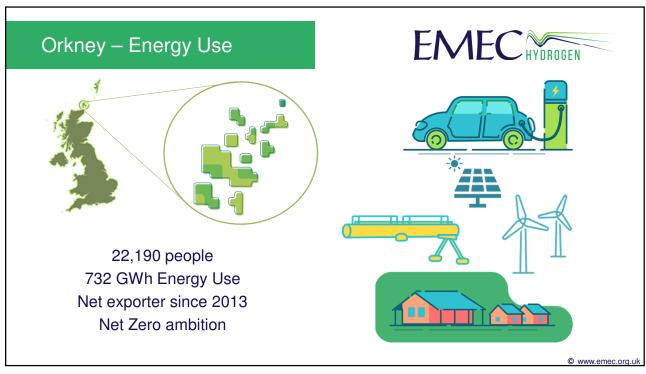
The challenges and realities of renewable integration

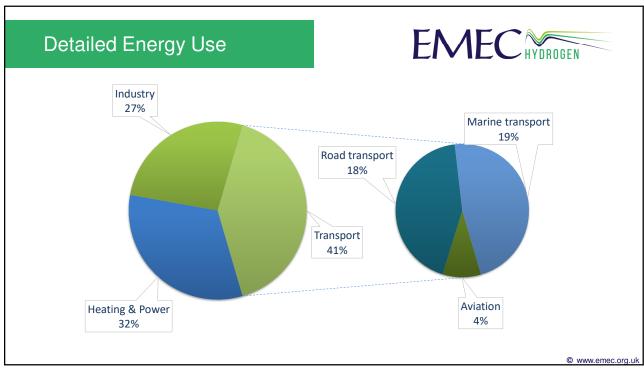
Scott Crawford Hydrogen, Marine and Energy Systems Engineer

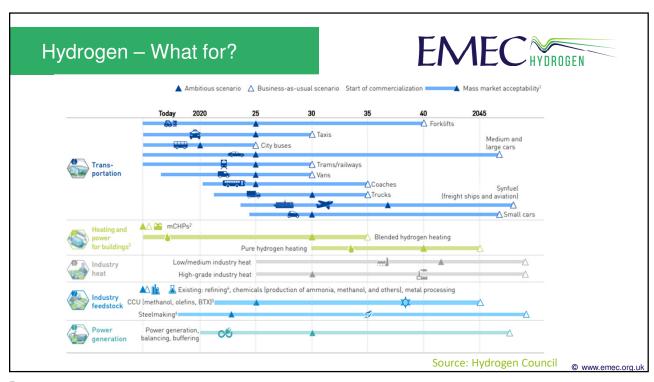
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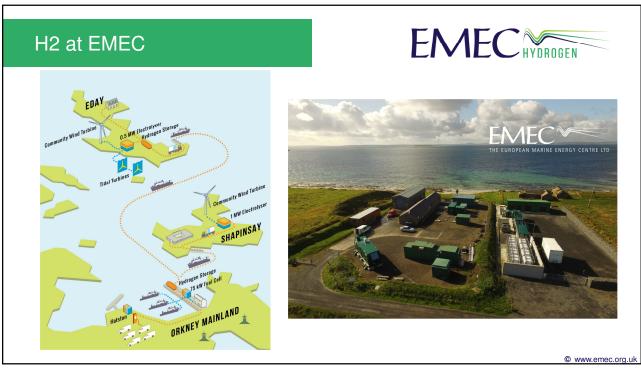
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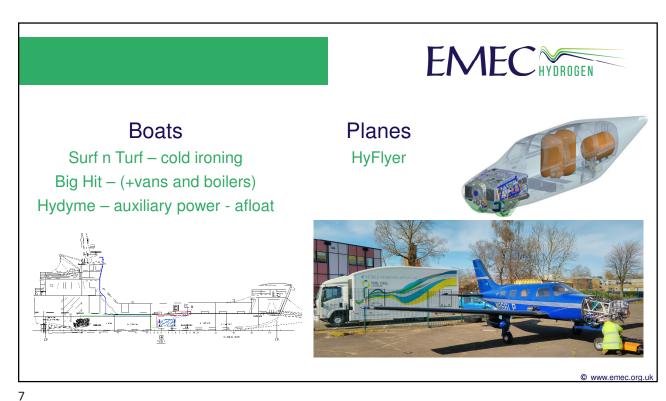












## EMEC HYDROGEN Topsides 2050? Will platforms still be producing oil and gas? Will there be a topsides? Or will everything have gone subsea? How will assets be powered? Traditional natural gas and reinjecting CO2 produced? Renewables? – perhaps, offshore wind very likely but will still be intermittent Could produce, store and consume H2, but only adds to Supply of oil will probably continue largely in present form Gas Stripped of CO2 at source? Steam Methane Reforming with CCS – export hydrogen or derivative? Onshore or offshore conversion? Source: OGA Will demand emerge too late for 'blue' hydrogen? Will green hydrogen undercut it? © www.emec.org.ul

