





Professor Seamus Higson University of Chichester











Centre for Sustainability: Engineering and Digital Technology Park Project

Solar Energy – The power underpinning Food security – and the key to Sustainability?



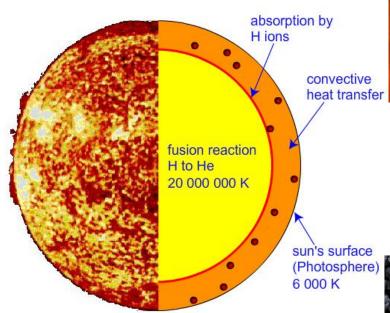


Tech Park Opening on 3rd October





The Sun and Solar Radiation



In 10mins – there sufficient solar energy hits the earth to supply all of mans' needs for 1 year





University of Chichester Academy Trust and Widening Participation

- 'Rocket Science Project' 2016 at Kingsham Primary School...
- Kingsham: One of the twelve schools within the University of Chichester University Academy Trust





The Serpentine – or – 'Crinkle – Crankle Wall'





West Sussex and Horticulture





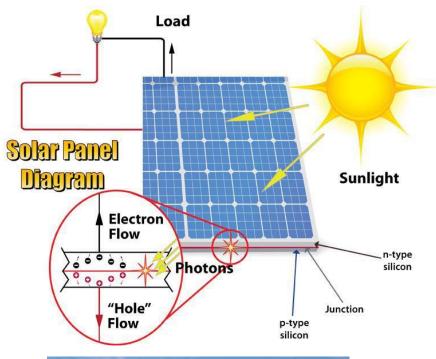
£ 1Bn to the local economy







Semiconductor Based Photovoltaics:





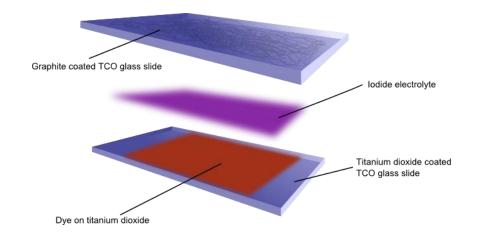


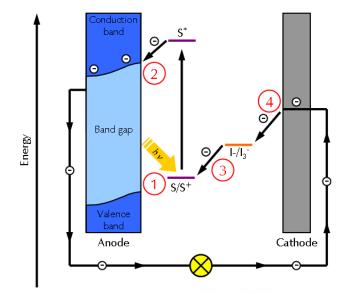


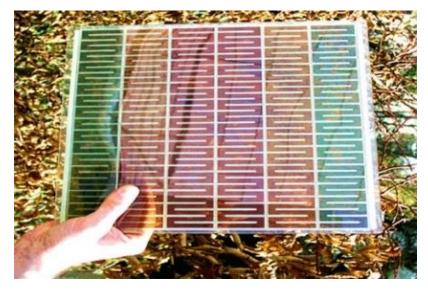




Dye Sensitised (Gratzel) cells:







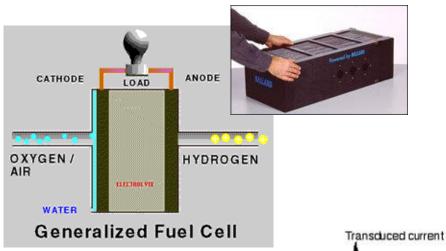




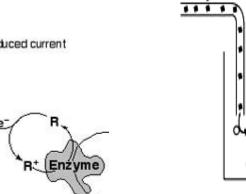


Fuel Cells...One of the solutions to the World Energy Crisis...?

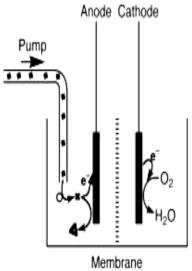
Hydrogen fuel cells utilising H_2 and O_2



And Biofuel cells utilising sugar...







- Microbial cell
- # Fuel product
- Primary substrate
- Oxidised fuel



H₂ Refuelling / Renewable Energy Tech Park Centre for Sustainability:

Partners:











- Centre for Research in Application of Hydrogen Power
- Two Refuellers: Chichester and Bognor Regis campuses as replicable and saleable demonstrators
- Business Modelling and Renewable Power Utilisation
 Software for businesses and individuals to calculate investment, payback and CO₂ reduction along with smart usage of excess green power production
- Partnering local authorities to facilitate hydrogen
 refueller installation throughout Coast to Capital LEP

Cobham Services



Partnered with:





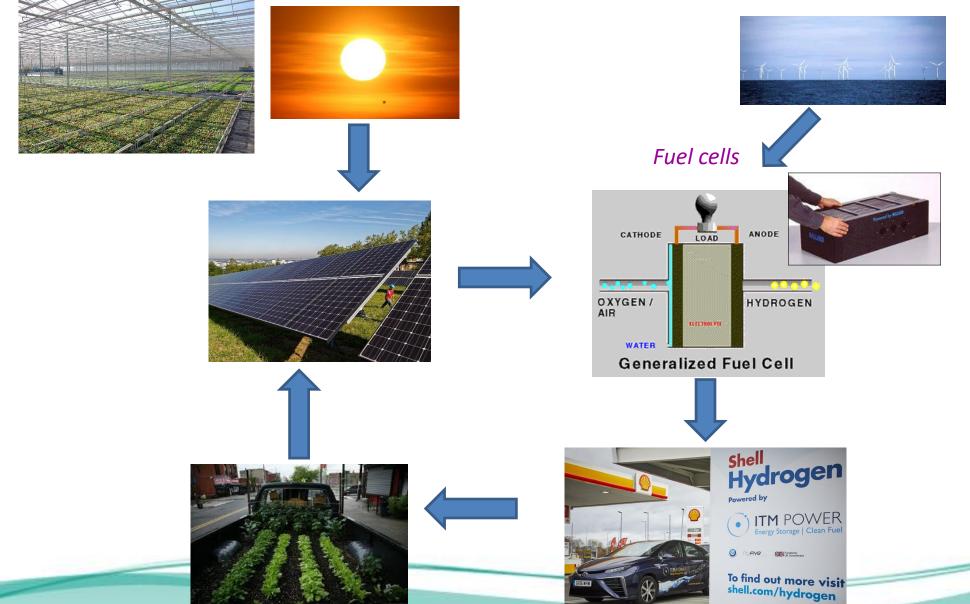








One Input to a Circular Economy and Supply Chain for Sustainability for the Future?





Some of our Supporters











^soboscientific







[NLS]









































BBSRC













































Horticulture 4.0 Conference



Thank you







