



Hydrogen  
Society  
of Australia

## World Renewable Energy Congress XXI (WREC 2022)

### Short Course

Sunday 4th December 2022 9:00 -12.00am [AWST]

Registration from 8.00am

Kim Beazley Lecture Theatre, Bush Court, Murdoch University, Perth

### Power-to-Hydrogen-to-X (P2H2X) short course

Kim Beazley Lecture Theatre from 9.00 – 12noon (registration opens at 8.00am).

Cost: \$66 (Students: \$33)

The Hydrogen Society of Australia ([HSA](https://www.hydrogensocietyofaustralia.com.au)) is presenting a brief introduction to the Hydrogen Economy, its production, storage, safety and utilization, as well as export industry opportunity. This short course is aimed at academics and industry leaders interested in learning more about the advantages and uses of different Hydrogen technologies. The Power-to-Hydrogen-to-X (P2H2X) short course covers the Hydrogen Economy's essential technical and economic aspects comprising:

<b>Module 1:</b> Hydrogen Economy background	20 mins + 10 mins Q&A
➤ Hydrogen History	Prof Adam Osseiran
➤ Hydrogen Properties	Mr Furat Dawood
➤ Hydrogen Systems	
<b>Module 2:</b> Hydrogen Production Technologies	30 mins + 10 mins Q&A
➤ Hydrogen Production Pathways	Prof Adam Osseiran
➤ Hydrogen Conversion Technologies	Mr Furat Dawood
➤ Hydrogen Certification Scheme	
<b>Module 3:</b> Hydrogen Storage and Transport Technologies	40 mins + 10 mins Q&A
➤ Hydrogen Storage Technologies	Dr Terry Humphries
➤ Hydrogen Transport Technologies	Dr Tanveer Hussain
➤ Hydrogen Carriers	Dr Arshdeep Kaur

**Tea Break** 10:00 -10:20am

<b>Module 4:</b> Hydrogen Safety and Risk Management	40 mins + 10 mins Q&A
➤ Hydrogen Ecosystem	GEXCON &
➤ Hydrogen Safety and Engineering Controls	Integrated Energy
➤ Hydrogen Standards and Regulation	
<b>Module 5:</b> Hydrogen Utilisation Technologies	40 mins + 10 mins Q&A
➤ Hydrogen Utilisation Pathways	Dr Quentin Meyer
➤ Fuel Cells Technologies	
➤ Hydrogen Fuel	

**Lunch** 12:00 – 13:00pm

The Hydrogen Society industry workshop follows in lecture theatre ECL2.

Registration (online/ in person) is required via <https://www.wrec2022.com/registration.php>

**Cost:** \$110 (Students: \$55)

**Free:** for registered WREC22 conference delegates and conference registered HAS members)  
(note: HSA members can register for the conference at a 10% discount)