



&



Hydrogen UK present

CCSHFC
2023

HYDROGEN AND FUEL CELLS FUELLING THE FUTURE NOW

Conference Sponsors

centrica



RWE



Marubeni
Europower



HORIBA



HYPERMOTIVE

UNIVERSITY OF BIRMINGHAM | ateta

Media Partners



Partners



Programme for the 19th annual
UK Hydrogen and Fuel Cell Conference

Free WiFi: nccvisitor

#CCSHFC2023

@H2ukorg

@ClimateCSolutio

NCC, Solihull, B92 0EJ

EDITOR'S NOTE

Welcome to 'Fuelling the Future Now', the 19th annual Hydrogen and Fuels Cells conference.

Hydrogen UK is delighted to be partnering with Climate Change Solutions on the hydrogen event of the year.

2023 will be a big year for hydrogen in the UK with lots of progress expected on the project, technology and policy front and so its brilliant to be gathering together as an industry to share learnings and hear from the organisations that are on the forefront of the hydrogen revolution!

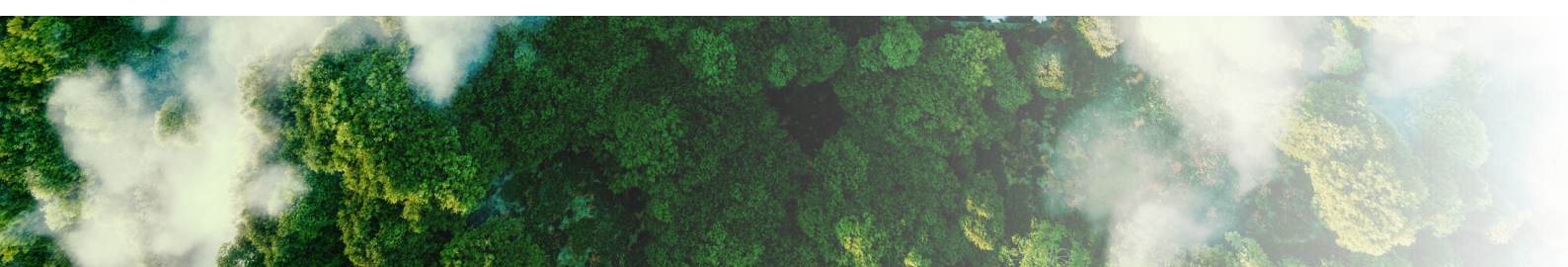
Hydrogen offers the UK an amazing opportunity to deliver clean, affordable energy for our businesses, industries and consumers whilst creating thousands of high-value jobs. But if we are to realise hydrogen's full potential then we need to go further and move faster.

At Hydrogen UK, we are committed to supporting industry and working with Government to ensure that the UK emerges as a global leader, not only in the deployment of hydrogen solutions but also in the development and manufacturing of those solutions. We've seen a lot of progress over the past year but there is still so much further to go.

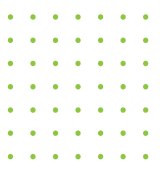
A massive thank you to all our speakers and sponsors, without whom this event could not take place. And of course, a massive thank you to you for coming and engaging with our many workshops and exhibits.



**Clare Jackson, Chief Executive,
Hydrogen UK**



HYDROGEN AND FUEL CELLS FUELING THE FUTURE NOW



The Hydrogen and Fuel Cell conference is the largest and longest running hydrogen gathering in the UK.

Entering its 19th year, the conference this year is being delivered in partnership with Hydrogen UK, the UK's leading hydrogen industry association.

The conference will showcase the latest developments in hydrogen and fuel cell technologies and projects both in the UK but also internationally. Sessions will focus on production, distribution and end use of hydrogen as well as discussions on how regional and international collaboration can support the emerging hydrogen sector.

This year is bigger and better than ever, with the projected attendance of over 500 delegates; conference partners are benefiting from significant brand exposure to industry leaders across the UK and with the extended the exhibition space we are pleased to have been able to offer an increased range of opportunities for exhibitors especially those wishing to take a larger space.

• Welcoming over 500 • delegates in 2022

Having experienced significant growth in recent years, welcoming over 500 delegates in 2022, the conference is moving to a new venue which can better accommodate this rapidly growing event. The new home of the conference, National Motorcycle Museum, is a prestigious venue in the West Midlands that will enable us to support a larger exhibition space including more vehicle showcase space, a larger conference hall and better networking spaces.



17:30 – 19:30 Pre-conference drinks reception (Monday 6th March)

08:15 Registration – Lobby

09:00 – 09:15 Welcome – Imperial Room
Councillor Majid Mahmood | Cabinet Member for Environment

09:15 – 10:45 Keynote Session – Imperial Room
Chair – Claire Jackson | CEO, Hydrogen UK

Jane Toogood Sector Chief Executive – Johnson Matthey, Hydrogen Champion – UK Government

Accelerating UK Hydrogen

Jeremy Smith Hydrogen Regulatory and Subsidy Manager – UK and Ireland RWE

RWE and Hydrogen

Catherine Raw Managing Director – SSE Thermal

Unlocking the Hydrogen value chain

William Mezzullo Head of Hydrogen – Centrica

Accelerating the potential of hydrogen as an energy transition solution for our customers

Dr Angela Needle Director of Strategy – Cadent, Vice President – Hydrogen UK

Role of networks in delivering the hydrogen economy

10:45 – 11:15 Break, Exhibition and Networking

11:15 – 13:00 Parallel Sessions

Delivering Hydrogen Transport Solutions
– Imperial Room

Chair – Steffan Eldred | Innovate UK

Darrell Jones Director – Northern Valve & Fitting Company Ltd

Building Connections

Jake Martin International Hydrogen Business Development Leader – Ingersoll Rand

Hydrogen Refuelling Stations – Key considerations on your journey to H2 refuelling

Lewis George Product and Applications Specialist – HORIBA
Hydrogen and Fuel Cell Business

HORIBA Fuel Cell & Electrolyser Testing Solutions

Harsh Pershad Head of Hydrogen – Tevva Electric Trucks

Tevva Update – A UK OEM providing hydrogen electric trucks & services

John-Paul Rooney Patent Attorney and Partner – Withers and Rogers LLP

Patent Filing Trends in Hydrogen Fuel Cells for Transportation

Ben Todd CEO – Ballard Motive Solutions

Hydrogen-power for heavy-duty transport

Hydrogen for Power Stationary, Portable, Small & Large-Scale Applications – Trafalgar Room

Chair – Prof Martin Freer | Director of the ERA*,
University of Birmingham

Katie Mollon Product Manager for Stationary Power – BOC

Hydrogen for Zero Emission Off-Grid Power

Ben Richardson Head of Solid Oxide Fuel Cell Systems (SOFC) UK& I – BOSCH

Powering the future with Solid Oxide Fuel Cells – Hydrogen to Power

Stuart Turl Business Development Manager – Wood plc

Electrolyser manufacturing: Global market dynamics & accelerating scale-up

Tim Calver Commercial Director – ITM Power

Pathway to delivering the world's largest PEM electrolyser project

Andrew Cunningham Managing Director – Geopura

Hydrogen for power – successful deployments, challenges and the future of zero-emission fuels

Ian Davidson Project Sales Manager UK & Nordics – Cummins

Cummins Electrolyzer Solutions 75 Years of Customer Support for their Hydrogen needs

* Energy Research Accelerator

13:00 – 14:00 Lunch, Exhibition and Networking

14:00 – 15:30 Parallel Sessions

Hydrogen & Fuel Cells – The Future of Mobility – Imperial Room

Chair – Brett Ryan | Head of Policy & Analysis, Hydrogen UK

Duncan Yellen Head of Hydrogen Mobility – BP

The hydrogen highway: Navigating the UK's clean energy transition

Jonathan Brown Strategy Director – Hypermotive

Integration: the invisible challenge to our hydrogen utopia

George Potter Business Development Manager – Applied

Technologies Reaction Engines

Next-Gen Thermal Management – Enabling Hydrogen Powered Vehicles

Luke Bates Automotive Trend Strategist – APC

Getting ahead of the curve with fuel cell technology in the UK

Cedric Rouaud Director Fuel Cell Systems – Bramble Energy

Innovative Printed Circuit Board Fuel Cell Stack and Systems

Jon Hunt Manager Alternative Fuels – Toyota GB

Climbing the ladder

Regional and Global Hydrogen Landscape: How can collaboration move hydrogen forward? – Trafalgar Room

Chair – Nigel Holmes | CEO, SHFCA

Tomoki Nishino CEO Marubeni Europower

Partnerships for the hydrogen future (with a bit of Japanese flavour)

Professor Robert Steinberger-Wilckens Chair Fuel Cell and Hydrogen Research – University of Birmingham

Training, re- and up-skilling for the hydrogen economy

Faye McAnulla Programme Director – HyDEX

HyDEX: Creating a new hydrogen economy in the Midlands

Mark Lewis Low Carbon Consultant – Tees Valley Combined Authority

The Tees Valley – A real Hydrogen Valley

Chris Manson-Whitton CEO – Progressive Energy

HyNet – A blue print for decarbonisation

16:00 – 17:30 Hydrogen for Heat and Industry – Can it be delivered? – Imperial Room

Chair – James Earl | Director of Gas Energy Networks Association

Conall McGinley Horizon Europe UK National Contact Point for Energy and Global Innovation Lead for Energy – Innovate UK

The role of public sector innovation funding in supporting Hydrogen for Heat and Industry

Phil McDermott City Energy Transformation Lead – EON

Developing a hydrogen supply chain in Sheffield – HYDESS

Dr Angela Needle Director of Strategy – Cadent

Hydrogen's role in heating homes

Simon Holt Manager Emerging Energy – Phillips 66

Hydrogen, a silver bullet?

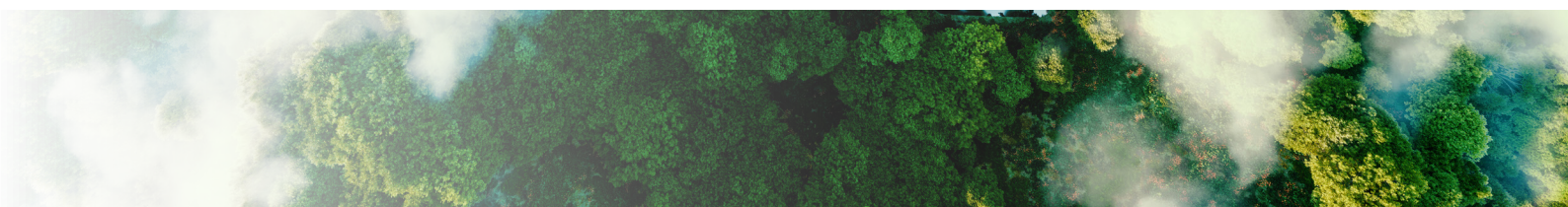
Andy Walker Technology Market Insights Director – Johnson Matthey

Challenges and opportunities for hydrogen in industrial applications

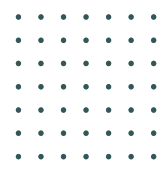
Michael Wagner Special Advisor – AFRY

Hydrogen demand, production flexibility and storage

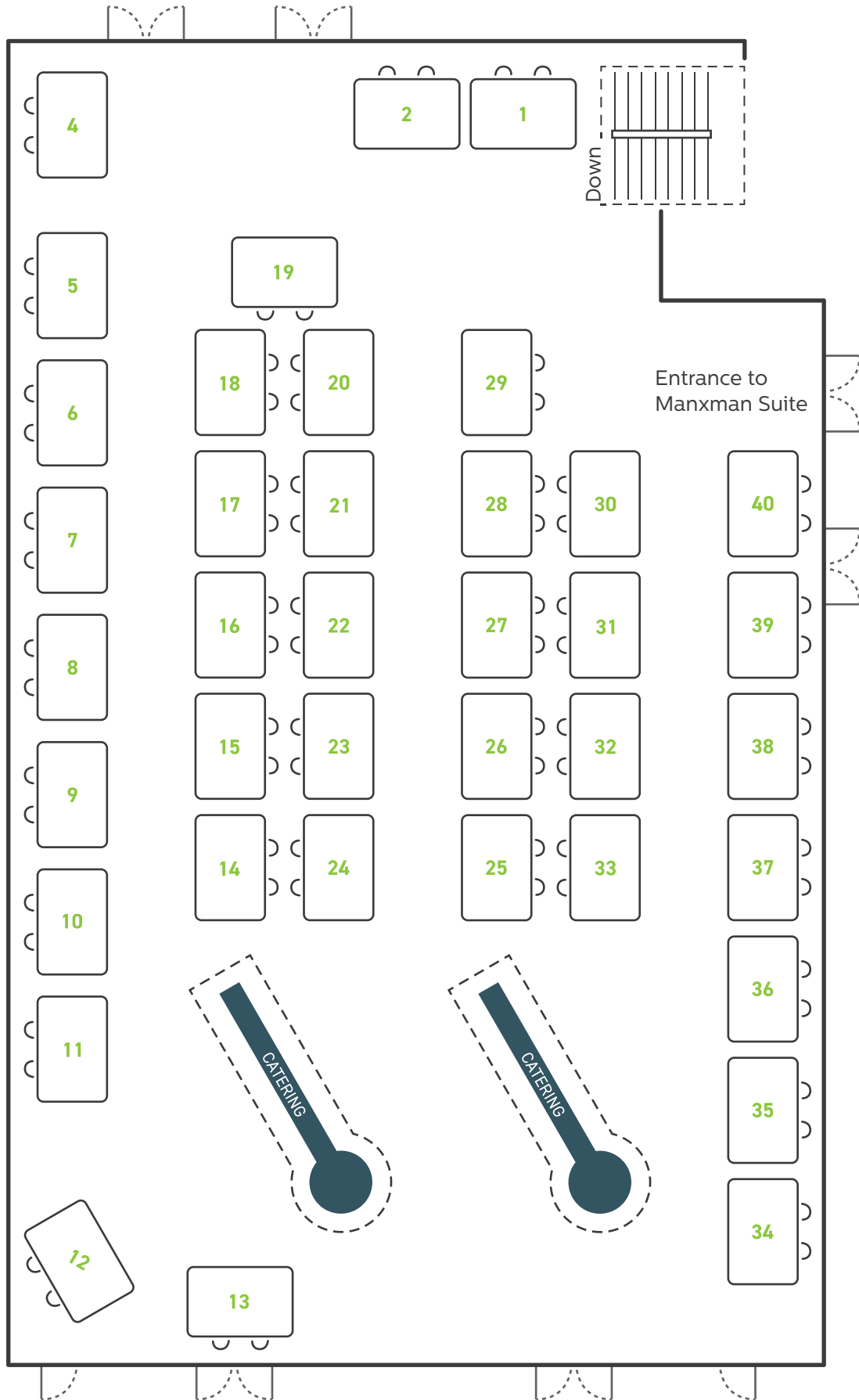
17:30 – 18:30 Drinks Reception



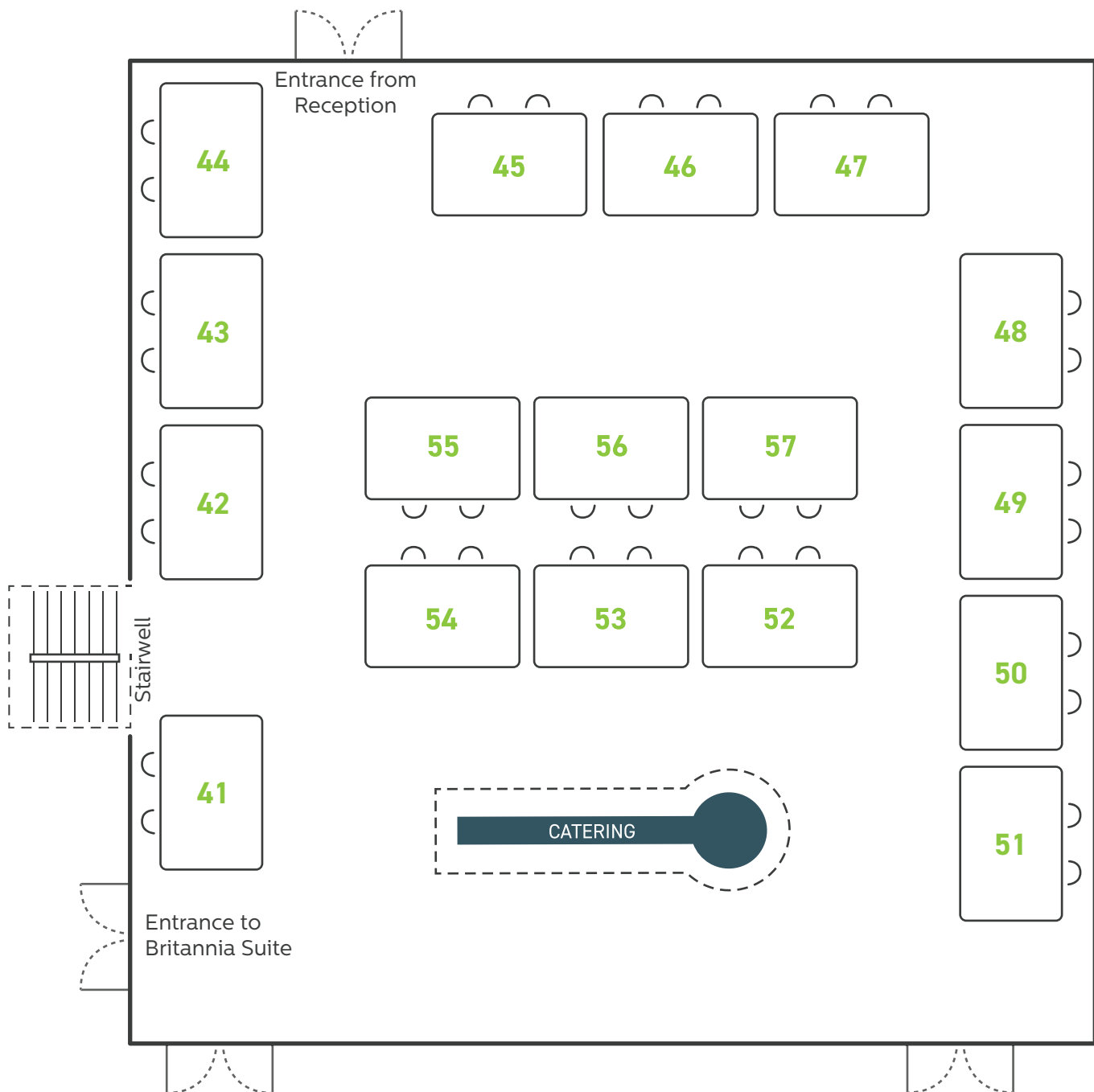
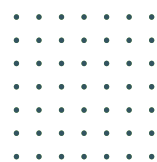
BRITANNIA SUITE FLOORPLAN



1. Commercial Fuel Solutions
2. Commercial Fuel Solutions
4. Parker Hannifin
5. Vanguard STS
6. Intelligent Energy
7. Solberg
8. Staffordshire Hydraulics
9. Falcon Foodservice Equipment (part of 'Scotch Corner')
10. TCP (part of 'Scotch Corner')
11. SHFCA (part of 'Scotch Corner')
12. Fuel Cells Systems (part of 'Scotch Corner')
13. Hydrasun (part of 'Scotch Corner')
14. NVFCL (part of 'Scotch Corner')
15. Element (part of 'Scotch Corner')
16. ION Science
17. APC
18. R STAHL
19. HORIBA GB
20. Hydrotechnik
21. Swagelok Manchester
22. BOC
23. University of Birmingham
24. SSE (part of 'Scotch Corner')
25. Kiwa (part of 'Scotch Corner')
26. Veolia Water Technologies
27. TUV SUD
28. Luxfer Gas Cylinders
29. Clean Power Hydrogen Group
30. Ingersoll Rand
31. Umoe Advanced Composites
32. Orbital Fabrications
33. Pressure Tech
34. NanoSUN
35. Trafag
36. FTI
37. Chesterfield Special Cylinders
38. WEH
39. Sauer Compressors
40. Hypermotive

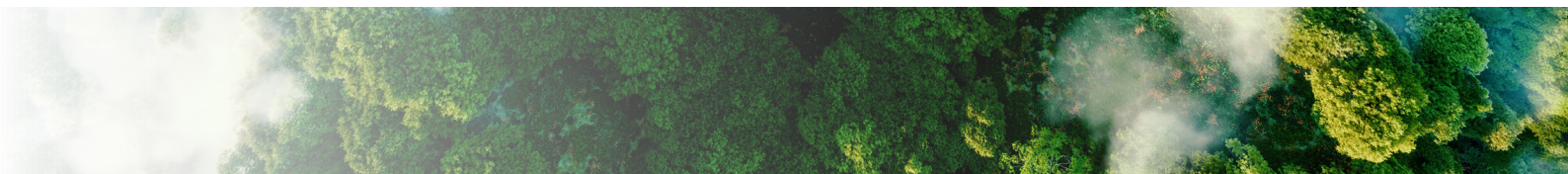


MANXMAN SUITE FLOORPLAN



- 41. Adelan
- 42. H2 View
- 43. MTC
- 44. Langfields
- 45. ETZ
- 46. Walker Filtration
- 47. FAUN Zoeller UK
- 48. Reaction Engines
- 49. Bronkhorst

- 50. RWE
- 51. Hale Hamilton Valves
- 52. BOSCH
- 53. Cranfield University
- 54. Bürkert Fluid Control Systems
- 55. Hydex
- 56. Hydex
- 57. Hydex



Unlocking the hydrogen value chain



SSE Thermal is on a mission to deliver the flexible energy needed today while powering the transition to net zero through technologies like hydrogen, with projects across production, storage and power generation

We power change.

ssethermal.com



RWE

Fresh wind for hydrogen.

From steel production to refineries to aviation – the demand for clean energy continues to grow. Key to meeting this demand is hydrogen – for electricity and heating, industry and transport. We are forging ahead with this technology of the future at full speed, implementing more than 30 projects such as GET H2, Eemshydrogen and AquaVentus. From renewable energy to the production, storage and transport of green hydrogen – we are working on making clean energy available across Europe.



[rwe.com](https://www.rwe.com)



Thought CHP couldn't support your net zero goals? Think again

Switch to a low-carbon future

We're partnering with 2G to offer our customers 100% hydrogen-ready CHP units. By investing in a hydrogen-ready system now, you'll know that your business is future-proofed as the UK's hydrogen network continues to grow.

As part of our partnership, we've also added the ability to run on biogas and LPG – expanding the options available to your business and giving you extra flexibility.

Why Combined Heat and Power?



Save 2/3
on national
supplier prices



Be more
sustainable



Enhance your
energy efficiency



Minimise the risk
of failures



Decrease
planning risk &
avoid obstacles

Get in touch today

t: +44(0) 208 191 7126

e: centricabusinesssolutions.UK@centrica.com

w: centricabusinesssolutions.com



NVFCL

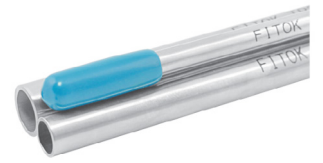
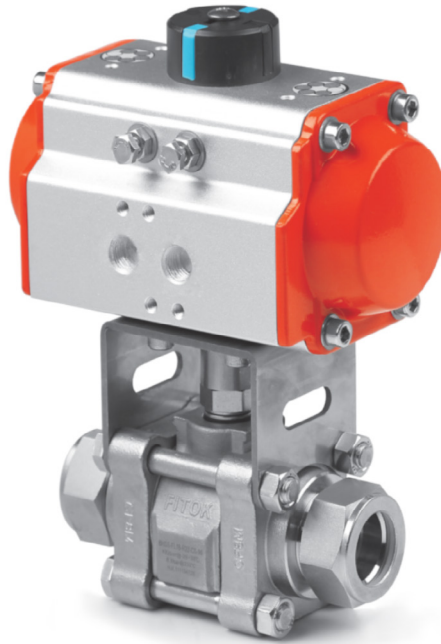


www.NVFCL.com

- Valves
- Fittings
- Tube
- Regulators
- Control Panels
- Sample Systems
- Quick Connectors



FITOK



Made for Hydrogen



Partnerships for the hydrogen future

Leading Energy Innovation for over 50 years

A trustworthy partner with lasting global relationships

Marubeni
Europower

Your Expert Partner for Decarbonisation

Helping Our Customers Reach Net Zero
with Proven Technologies

boconline.co.uk/hydrogen-energy



BOC Limited registered office, Forge, 43 Church Street West, Woking, Surrey GU21 6HT, England. Company number 337663 – English Register. Authorised and regulated by the Financial Conduct Authority, register number 715528. BOC is a company name used by Linde plc and its affiliates. The BOC logo and the BOC word are trademarks or registered trademarks of Linde plc or its affiliates. Copyright © 2023. BOC Ltd.



Chesterfield
Special Cylinders

We've been manufacturing pressurised storage solutions for over 125 years.

That's why we're trusted by our customers
for our world-leading design, manufacture
and through-life support of static and
transportable hydrogen storage solutions.

 info@chesterfieldcylinders.co.uk

 www.chesterfieldcylinders.com/hydrogen



Find out more about how
we're pushing towards a
decarbonised future





Visit us on stand:

19

Scan here for more information



Hydrogen refuelling solutions

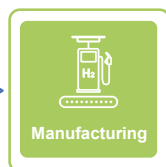


- H2 Refuelling Stations
- End-to-end Solution
- Valves, fittings and gas transfer systems for global H2 refuelling

Delivering under pressure since 1946

haskel.com
haskel@haskel.com

Visit Stand 30 or join us in conference session 1 from 11:15am to learn more about the evolution of Hydrogen refuelling!



Enabling Hydrogen Powered Vehicles.

From exceptionally low-drag radiators to lightweight intercoolers, our pioneering thermal management solutions are revolutionising hydrogen fuel cell powertrains and accelerating net zero.



Fuel Cell Heat Rejection



Cathode Air & Charge Air Cooling



H2 System Thermal Management

Visit us at Stand 48

reactionengines.co.uk



Don't Miss Our
"Next-Gen Thermal Management - Enabling Hydrogen Powered Vehicles"
Talk in Session 3
14:00 - 15:30
The Imperial Room

HYPERMOTIVE

Intelligent integration products for fuel cell systems

H:Control

hydrogen system supervisory

H:Store

hydrogen management system

H:Safe

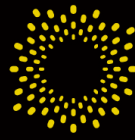
power distribution



Bespoke design and integration of fuel cell systems

Design and manufacture of power distribution units (PDU) and controllers

Design and manufacture of HV & LV wiring and electrical systems

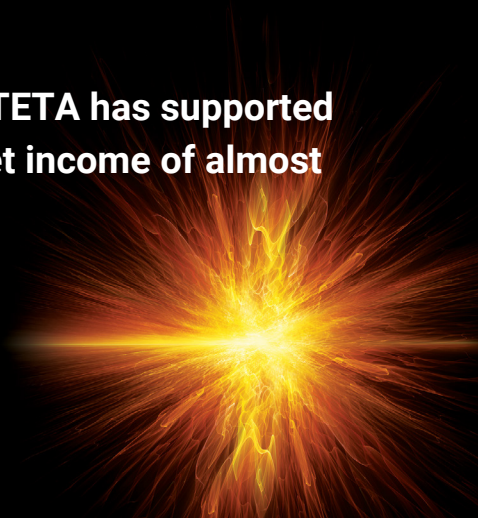


ATETA is an SME support programme offering funded advice and technical support for businesses to develop sustainable energy-related products, services and practices that will ultimately drive business growth.

Part of the University of Birmingham's Energy Institute, ATETA has supported over 300 businesses in the past six-years, generating a net income of almost £25 million for the local economy.

Visit us on stand 23 to find out more.

BIRMINGHAM.AC.UK/ATETA



&



Hydrogen UK present

CCSHFC
2023



VENUE

We are on J6 of the M42, follow signs to The National Motorcycle Museum from all approach roads.

Taxi Numbers:

B'Ham Airport taxi Rank - 0121 782 3744

Airport Taxi Birmingham - 07769 731263

A1 Airport Taxi - 07779 100295

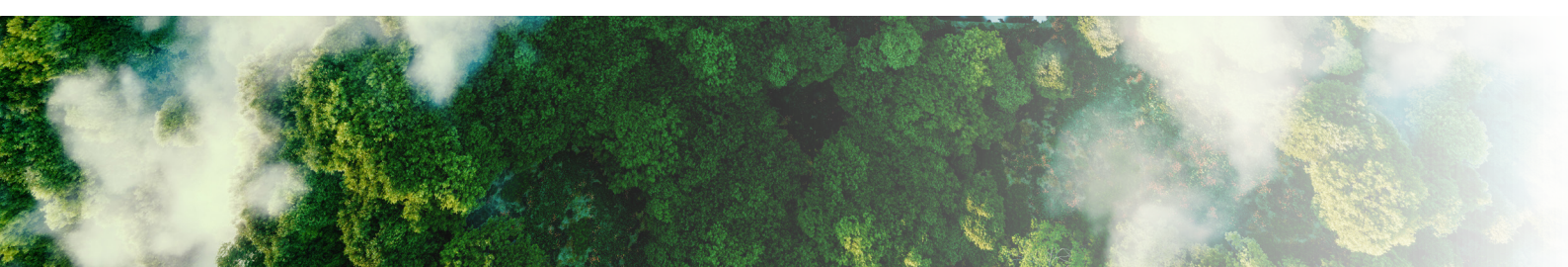
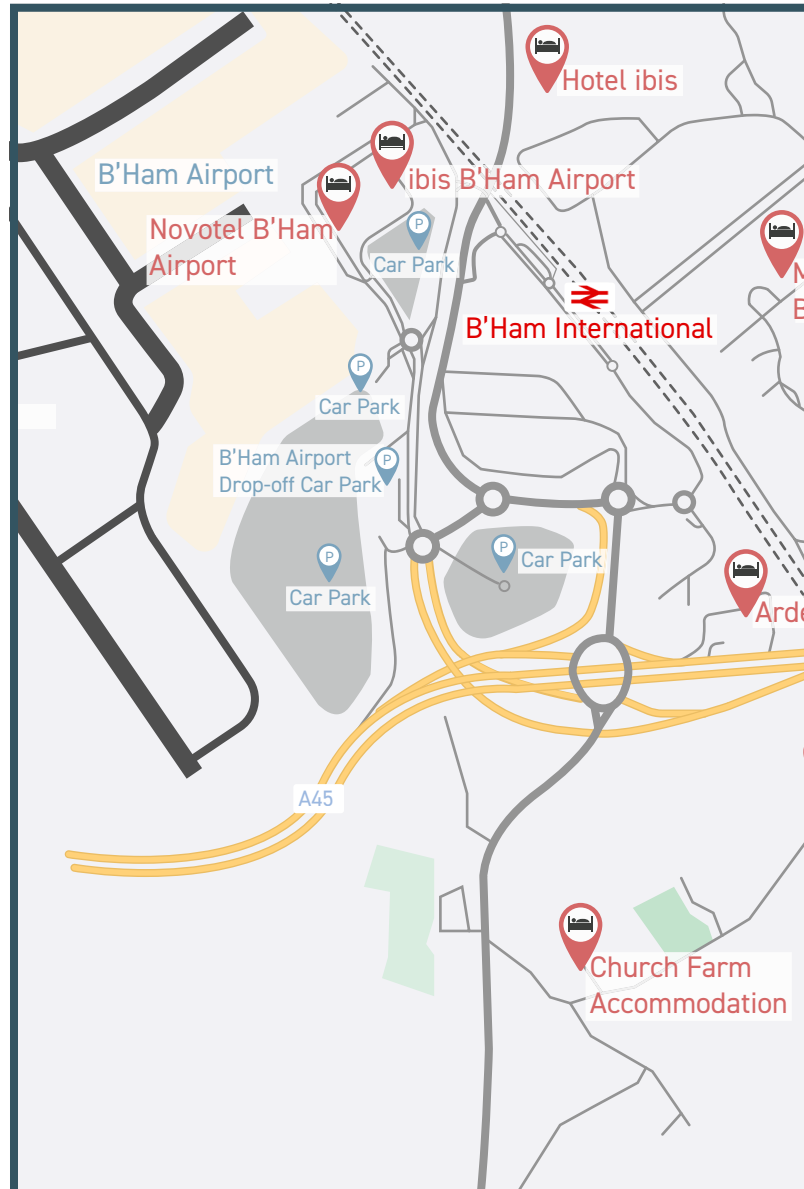
Complete Taxi Management - 0121 769 0747

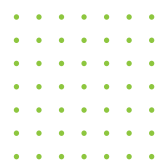
BTS Professional - 0121 272 5557

There are also 2 hotels owned by the conference centre (not located onsite).

Windmill Village Hotel, Golf Club & Spa
Birmingham Road, Allesley
Coventry, CV5 9AL
www.windmillvillagehotel.co.uk

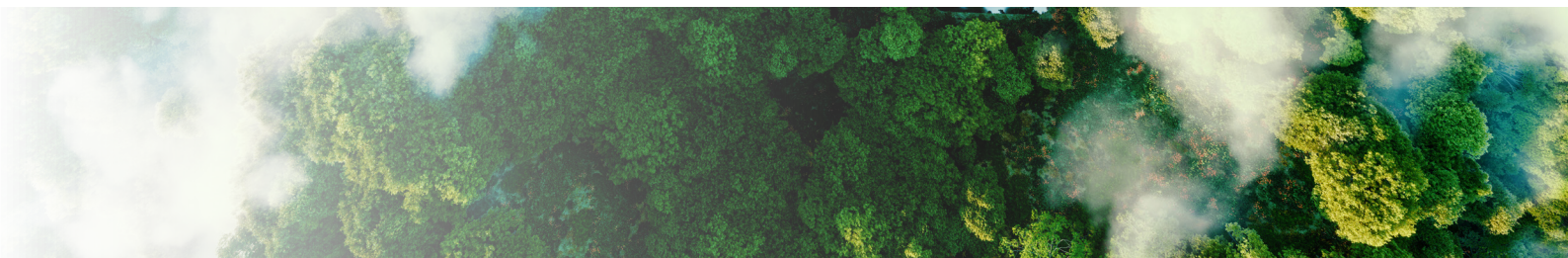
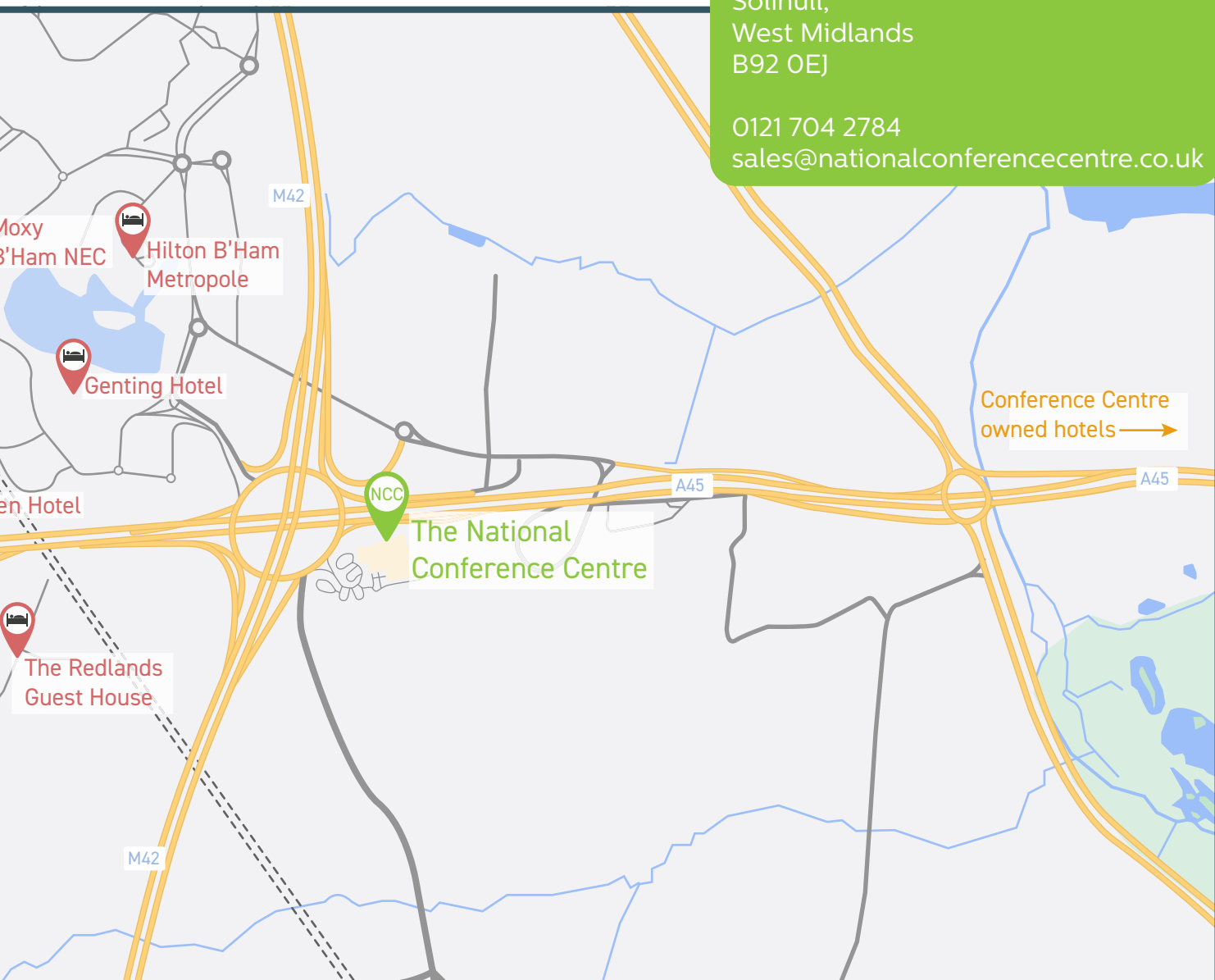
Manor Hotel Meriden, Marco Pierre White
Steakhouse Bar & Grill
Main Road, Meriden
Solihull, CV7 7NH
www.manorhotelmeriden.co.uk





The National Conference Centre
Coventry Road,
Bickenhill,
Solihull,
West Midlands
B92 0EJ

0121 704 2784
sales@nationalconferencecentre.co.uk



Programme for the 19th annual
UK Hydrogen and Fuel Cell Conference

Free WiFi: nccvisitor

#CCSHFC2023
@H2ukorg
@ClimateCSolutio
NCC, Solihull, B92 0EJ



FUELLING THE FUTURE NOW

Conference Organiser:

Climate Change Solutions
The TechnoCentre, Coventry University Technology Park, Puma Way, Coventry, CV1 2TT
www.climate-change-solutions.co.uk

Climate Change Solutions (CCS) was set up to encourage the move to a low carbon future. CCS has been particularly involved with the Hydrogen and Fuel Cell industry, promoting this technology for over 18 years to encourage its use in buildings, transport and energy storage.