



Stephen B. Harrison

- International advisor and due diligence for net-zero technologies, strategies and projects
- CCTUS, E-fuels, hydrogen, biofuels and many other decarbonisation themes
- Chemical Engineering Masters degree from world class university

Together we can make it happen!

- Let's share ideas, be champions for change and get the right things done
- Let's partner to deliver complex projects on time, to budget and with the expected benefits
- Let's work together at "high velocity": fast & in the right direction

Brining real-world insights to advisory services

- 14 years of global business leadership in industrial gases: CO₂, hydrogen ammonia, and more
- 27 years of "Blue Chip" industrial experience located in Great Britain and Germany
- Eight years of hands-on international consulting experience

So, what do I bring to the team?

- Industry insights and expertise
- Clarity, focus and strategic execution
- Authenticity with direction and purpose

And how do I bring that to the team? By...

- Inspiring the will to win
- Sharing my knowledge and working with my network
- Spreading meaning and hope

As we lead, we must also watch, listen and respect ...

- Market dynamics and customer requirements
- Current strategy, investor concerns and regulatory requirements
- The needs of our people and other stakeholders

Performance comes from how we learn, live and work today, in addition to experiences from the past.

OVERVIEW

Functional expertise	Due Diligence, Technology Evaluation, Project Evaluation, and Strategy <ul style="list-style-type: none">– International experience living in UK and Germany, and working worldwide– Consulting, Strategy development and execution, P&L oversight, Profitable growth, Project management, Sales and marketing, Team leadership, Innovation management, SHE– Chemical Engineering Masters Degree from Imperial College, University of London– Chartered Chemical Engineer, MIChemE, EurIng, ACGI– Formerly: Global Head of Specialty Gases & Equipment, Linde Gas, Munich
Products & Themes	E-fuels; Hydrogen and derivatives; CCTUS and CDR; Decarbonisation and GHG emissions reduction; Biofuels; Industrial Gases and related equipment; Gas analysis instrumentation
Industry sectors	Energy, Chemicals, Industrial gases , Sustainability, Climate protection

PROFESSIONAL CAREER

2017 – today	Managing Director & Founder – sbh4 consulting <ul style="list-style-type: none">– CCTUS, CDR, hydrogen, ammonia, e-fuels, power to x, biofuels, and industrial gases– Serving PE firms, infrastructure funds, clean-tech investors and project developers– Buy-side due diligence, market research and growth strategies– Commercialisation and scale up advisor to clean-tech startups– Net-zero strategy and technologies for operating companies
2025 – today	Consultant – IFC, World Bank Group <ul style="list-style-type: none">– Project, technology and business evaluation– Green hydrogen derivatives in developing nations
2024 – today	Due Diligence and Project Monitoring – EISMEA, EC <ul style="list-style-type: none">– Climate-technology investor due diligence– Grant-funded innovation project monitoring
2024 – 2025	Due Diligence Trainer – Sustainable Aviation Futures, GB <ul style="list-style-type: none">– C-Level trainer for net-zero aviation project and technology due diligence– Targeted to hydrogen technology providers, investors, and operators
2023 – 2024	Project Development Advisor – European Investment Bank <ul style="list-style-type: none">– Project evaluation, technology selection and benchmarking– Green hydrogen, e-methanol and waste gasification to methanol
2023 & 2025	Innovation Fund Technical Assessor – CINEA, EC <ul style="list-style-type: none">– Evaluation of seven projects for green ammonia, e-methane, e-methanol and CCS projects– Consensus-based allocation of €3 billion EU Innovation Fund
2022 – 2023	Technical Consultant – Templewater Decarbonisation Fund, Hong Kong <ul style="list-style-type: none">– Fund investment strategy and opportunity screening advisory– Hydrogen production (green and turquoise) and liquid hydrogen storage due diligences
2021 – 2024	Hydrogen & CCTUS Expert – World Hydrogen Leaders (S&P Global Commodity Insights) <ul style="list-style-type: none">– C-Level trainer for online and in-person masterclasses– Targeted to hydrogen technology providers, investors, and operators– > 20 courses developed, > 100 courses delivered, > 2,000 executives trained

2021 – 2022	International CCS & Hydrogen Expert – Asian Development Bank <ul style="list-style-type: none">– Renewable hydrogen deployment for multiple projects in Pakistan– Green hydrogen Pacific hub for Palau– Oil & Gas to energy transition for PVN (Vietnamese national O&G operator)– Pre-feasibility study investigations and report authorship– Liaison with international technology providers– Coordination with Government departments– Leadership of other ADB-contracted local experts
2020 – 2023	Advisor, Vantage Sustainable Infrastructure, GB Advise on hydrogen, CCTUS and biomethane investments
2020 – 2023	Scientific Committee Member CEM 2023, Barcelona Greenhouse gas emissions mitigation
2020 – today	Advisory Board – H2 View, GB <ul style="list-style-type: none">– Hydrogen, clean mobility, energy transition, decarbonisation– Editorial guidance to the Global Managing Editor– Scout, research and write feature articles
2018 – today	Advisory Board – gasworld, GB <ul style="list-style-type: none">– Hydrogen, CCS, LNG, energy gases, industrial gases, F-Gases, ammonia– Editorial guidance to the Global Managing Editor– Scout, research and write feature articles
2018 – 2021	Principal, Germany – Nexant Energy & Chemicals Advisor (contract) <ul style="list-style-type: none">– Business development leadership in the DACH region– Market studies and technology evaluation– M&A technical, market and ESG due diligence (buy- & sell-side)– Development and delivery of the first Nexant Training hydrogen course – Hydrogen, refined products, LNG, energy gases
2007 – 2017	Global Head of Specialty Gases & Equipment, Linde Gas, DE <ul style="list-style-type: none">– Global business development & investment strategy– M&A target identification, screening, transaction execution and post-deal integration– Energy gases, CO₂ and hydrogen electrolyser focus– Capex project assessment, planning and commercialisation
2003 – 2007	Global Director – BOC Scientific, The BOC Group, GB <ul style="list-style-type: none">– Investment project evaluation and delivery– Commercial and operations strategy development and execution
2000 – 2003	Marketing Manager – Industrial Products, BOC Ltd, GB Product and market strategy for industrial gases and energy gases
1999 – 2000	Business Change Manager, BOC Ltd, GB Change management for M&A and business transformation projects
1997 – 1999	Specialty Gases Commercial Manager, BOC Ltd, GB Leadership, commercial processes and customer relationship management
1994 – 1997	Bulk Environmental Applications Development, BOC Ltd, GB Technology innovation programme in EMEA for CO ₂ and Oxygen
1991 – 1994	Bulk & Tonnage Process Engineer, BOC Ltd, GB Process optimisation in hydrogen, syngas, CO ₂ and gas purification
1990 – 1991	Bulk Food Applications Sales Engineer, BOC Ltd, GB Technical consultancy for CO ₂ and nitrogen applications

EDUCATION

1995 **Chartered Chemical Engineer:** CEng, MChemE, EurIng

1986 – 1990 **Chemical Engineering**, Imperial College London, GB
– Master of Chemical Engineering Honours Degree: MEng, ACGI
– Marketing and Management, in addition to core Engineering programme
– Prize: Courtaulds Chemicals Industrial Award
– Prize: SPEEDUP Prize for process systems engineering

1989 **Courtaulds Chemicals Ltd:** Environmental process design

1988 **BP Chemicals Ltd:** R&D for glass- and carbon-fibre composites

1987 **Plastech Ltd:** Purchasing & supply chain

LANGUAGES

English (native)
German (fluent)

NATIONALITIES

British
German

PUBLICATIONS (Examples from over 300 publications and conference papers in the past 6 years)

- **Technologies for safe hydrogen value chains**, Hydrogen Value Chain Technology, Oct 2025
- **Low-cost low-risk pathways to reduced CO₂ intensity nitrogen fertilizers**, World Fertilizer, Sep 2025
- **Medical oxygen and electrolysis in Europe**, gasworld, Jul 2025
- **Hydrogen electrolyser sector consolidation**, Hydrogen Tech World, Apr 2025
- **Helium and natural hydrogen – geology goldrush and industrial gases from underground**, gasworld, Jan 2025
- **Reducing Scope III emissions for green steel**, Green Steel World, Aug 2024
- **Biogenic CO₂ or Direct Air Capture for e-fuels**, gasworld, Aug 2024
- **Pre-combustion carbon capture**, Decarbonisation Technology, May 2024
- **Charting AEM's ascent as an electrolyser technology**, gasworld, Feb 2024
- **High energy density hydrogen carriers for fuel cells**, Hydrogen Tech World, Feb 2024
- **De-risking green hydrogen and ammonia projects**, gasworld, Feb 2024
- **sCO₂ and CO₂ as working fluids for power generation and storage**, Modern Power Systems, Feb 2024
- **Ultrapure water for electrolysis**, Decarbonisation Technology, Feb 2024
- **Oxygen and nitrogen for waste to hydrogen**, gasworld, Dec 2023
- **Biobased solutions for carbon capture**, Carbon Capture World, Nov 2023
- **Green iron and steel: A diversity of routes to decarbonisation**, gasworld, Aug 2023
- **Green ammonia powering the energy transition**, Modern Power Systems, Feb 2023
- **E-methanol, SAF and PtL – the future of CO₂ utilisation**, gasworld, Jan 2023
- **Underground Hydrogen Storage**, gasworld, Mar 2022
- **Unlocking the potential for CCUS in Viet Nam**, Carbon Capture Journal, Nov 2021
- **Turquoise Hydrogen production by methane pyrolysis**, Petroleum Technology Quarterly, Oct 2021
- **Decarbonisation of post-combustion and geogenic CO₂**, Cement Americas, Oct 2021
- **Hydrogen fired burners for green glassmaking**, Pollution Solutions Green Energy, Oct 2021
- **VSA, membrane and PSA for SMR CO₂ capture**, Carbon Capture Journal, Sep 2021
- **Reducing CO₂ emissions through process electrification**, Decarbonisation Technology, Aug 2021
- **CO₂ clean-up by mineralisation**, International Environmental Technology, Jun 2021
- **Maximising hydrogen production from PV Solar parks**, H2 View, May 2021
- **CCS to create blue hydrogen from natural gas**, Carbon Capture Journal, Mar 2021
- **Chemcycling of waste to Hydrogen**, Recycling Magazine, Feb 2021
- **Hydrogen from petcoke gasification**, Hydrocarbon Engineering, Jun 2020



Stephen B. Harrison

8th January 2026

Gesellschafter, Geschäftsführer, sbh4 GmbH