

**Curriculum Vitae - Stephen B. Harrison, sbh4 consulting**  
**International, C-Level, advisor for net-zero investments, strategies, projects, technologies and due diligence**  
**Decarbonisation, E-Fuels, PTL, CCTUS, Hydrogen, Biogas, CO2, Ammonia, F-Gases & Industrial Gases**

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**1. Name:** Stephen B. Harrison

**2. Nationalities:** German and British

**3. Address:** Kranzstraße 21, Geretsried OT Gelting, 82538, Germany  
**Telephone No.:** +49 8171 24 64 954  
**E-Mail Address:** sbh@sbh4.de

**4. Date of Birth:** 10 August 1968

**5. Education:**

- Chemical Engineering Masters Degree
- Imperial College, University of London, GB
- 1986 to 1990

**6. Membership in Professional Associations:**

- Member of the Institution of Chemical Engineers (CEng, MIChemE)
- European Engineer (EUR ING)
- Associate of the City & Guilds Institute (ACGI)
- Bundesvereinigung der Fachjournalisten e.V. (bdfj)

**7. Training received:** Depth and breadth of training in management, leadership, finance, technical topics, and markets through 27 years with BOC Gases and Linde Gas. Ongoing continuous professional development at sbh4 through participation in international conferences, project-based research, training provision and learning through doing.

**8. Countries of Work Experience:**

- In the past 5 years, major projects in: Canada, USA, Australia, Hong Kong, Pakistan, Palau, Viet Nam, Egypt, Kuwait, Oman, Saudi Arabia, UAE, Namibia, South Africa, Austria, Belgium, Denmark, Finland, France, Germany, GB, Latvia, NL, Norway, Spain, Switzerland, Turkey.
- Prior to that, major projects in Poland, India, China, Thailand, Czech Republic, Italy, Hungary.
- During my 34-year career - 14 years of global executive business leadership.
- 7 years as Managing Director of sbh4 GmbH, executing international engagements worldwide.

**9. Languages**

Language	Reading	Speaking	Writing
English	Native	Native	Native
German	Fluent	Fluent	Fluent
Portuguese	Basic	Basic	Basic
French	Basic	Basic	Basic

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**10. Employment & Engagement Record (employment in bold)**

Date from - Date to	Location	Company	Position	Description
<b>Sep 2017 - present</b>	<b>Geretsried, Germany</b>	<b>sbh4 GmbH</b>	<b>MD, Owner, Founder</b>	<b>Net zero strategies, projects, technologies and due diligence</b>
May 2025 – present	Brussels	CINEA, EC	Contracted Advisor	Large scale net-zero project evaluation for Innovation Fund
May 2025 – present	Abingdon, UK	Nium	Operating Partner	Strategic and technical advisor to ammonia synthesis startup
April 2025 - present	Oslo, Norway	Confidential, through Bain	Contracted Advisor	EU Innovation Fund BECCS application preparation advisory
April – May 2025	Paris, France	Confidential, investment fund	Freelance consultant	Direct hydrogenation FTS catalyst for e-SAF TDD for H2 focused fund
March – May 2025	Amsterdam, NL	Skytree	Contracted Advisor	Strategic growth and fundraising advisor to DAC startup
March 2025 - present	MENA Region	Cleantech startup	Contracted Advisor	Strategic growth advisor to electrode catalyst innovator
March 2025	Tokyo, Japan	Materials producer	Contracted Advisor	PEM CCM innovator TDD for potential strategic investor
March 2025 - present	Washington DC	IFC (WBG)	Contracted Advisor	Green hydrogen and hydrogen derivatives project evaluations
March – April 2025	London, GB	Confidential, Private Equity	Freelance consultant	Preliminary commercial due diligence ATJ SAF facility
Feb – May 2025	Werneck, Germany	Confidential, industrials	Freelance consultant	Electrolyser balance of plant hydrogen blower market study
Feb – April 2025	Brussels, Belgium	EC EISMEA	Contracted Advisor	DAC technology project progress monitoring and innovation radar
Feb – April 2025	Melbourne, Australia	Cavendish Renewable Tech	Freelance consultant	Strategic growth advisor to innovative electrolyser startup
Dec 2024	Paris, France	Confidential	Contracted Advisor	EU Innovation Fund BECCS application preparation advisory
Dec 2024 – Feb 2025	Brussels, Belgium	European REA	Contracted Advisor	HORIZON MSCA Doctoral Networks Evaluator
Nov – Dec 2024	Tokyo, Japan	Materials producer	Contracted Advisor	Electrolyser components strategic business development

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Oct 2024 – present	Munich, Germany	Lithium Ion Battery Recycler	Freelance consultant	Technical advisor for Lithium Ion Battery Recycling processes
Oct 2024	Arnhem, NL	Chemicals producer	Contracted Advisor	AEM Electrolyser DD for Strategic Investor
Oct – Nov 2024	Brussels, Belgium	EC REA	Contracted Advisor	HORIZON MSCA Postdoctoral Fellowships Evaluator
Sept – Oct 2024	Sydney, Australia	Industrial gases distributor	Contracted Advisor	European F-Gas and refrigerant market trends
Aug - Oct 2024	Ohio, USA	Confidential, investment fund	Contracted Advisor	CO2 reduction electrolysis technology and SAF projects DD
July – Oct 2024	Hamburg, Germany	Hydrogen Tech Expo	Conference Chairperson	Hydrogen and e-fuels propulsion track 2024
July 2024	Brussels, Belgium	The EIC Fund	Contracted Advisor	Plasma methane pyrolysis DD for Europe's largest VC Fund
July – Aug 2024	London, UK	Confidential, Energy sector	Freelance consultant	SAF pathways techno-economic analysis
July – Dec 2024	Borre, Norway	EIB / Confidential, project developer	Contracted Advisor	Green hydrogen production for export, LCOH benchmarking
July 2024	Oslo, Norway	Confidential, clean-tech	Contracted Advisor	Biomass pyrolysis technology advisory
June – July 2024	Munich, Germany	Confidential CVC fund	Contracted Advisor	Li-ion battery recycling due diligence
June 2024 - present	Bayern, Germany	Confidential, industrials	Contracted Advisor	Flow solutions growth advisor
June 2024	Esslingen, Germany	Purem by Eberspächer	Freelance consultant	Hydrogen technology manufacturing advisor
June 2024	Munich, Germany	Confidential, trade association	Freelance consultant	CO2 Removals technologies potential EU content assessment
May 2024 - present	Ohio, USA	4AIR	Contracted Advisor	Sustainable Aviation Fuel due diligences and case screening
May 2024	Paris, France	Confidential, investment fund	Freelance consultant	Membrane-based H2 separation and purification TDD
April – May 2024	London, UK	Decarbonization Partners	Freelance consultant	Neustark - CO2 removals Tech and Ops DD for lead investor

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April – Sept 2024	Delfzijl, NL	EIB / Confidential, chemicals	Contracted Advisor	Waste / biomass gasification to methanol project feasibility
March 2024	Antwerp	Confidential, project developer	Freelance consultant	CO2 sourcing options, costs, and logistics for electrofuels production
March 2024	Eresing	Honda Innovations	Freelance consultant	Bio-gas for LDES using SOEC/SOFC TDD
Feb – June 2024	Steinbach, Germany	Perfect Sensor Gas	Freelance consultant	Electrolyser market and technology advisor
Feb – April 2024	Vedbæk, Denmark	Confidential, project developer	Contracted Advisor	Green ammonia, green steel, e-fuels and bio-electrofuels advisor
Feb – March 2024	Illinois, USA	IDEX Corp	Freelance consultant	PEM Electrolyser critical components M&A, Tech & Mkt DD
Feb - April 2024	Vienna, Austria	RHI Magnesita	Contracted Advisor	CCS and net-zero strategy definition
Jan – Sept 2024	Berlin, Germany	ACI Europe	Conference Chairperson	2024 European CO2 utilisation Summit
Jan – July 2024	Macclesfield, UK	Confidential, metallurgy	Freelance consultant	Industrial gases procurement advisory
Jan 2024 - present	London, UK	Sustainable Aviation Futures	Contracted Trainer	E-fuels, SAF and due diligence trainer
Dec – Feb 2023	Houston, USA	Decarbonization Partners	Freelance consultant	Power to Liquids technology and eSAF projects due diligence
Dec 2023	Bucheon, South Korea	Confidential, industrials	Freelance consultant	PEM electrolyser trainer and consultant
Nov 2023 – April 2024	Warsaw, Poland	BIOAGRA, BZK Group	Contracted Advisor	CO2 value chain and e-fuels advisor
Oct – Nov 2023	Hong Kong	Templewater	Freelance consultant	Hysata alkaline electrolyser OEM TDD for lead investor
Oct 2023 – Sept 2024	Riga, Latvia	Purple Green	Contracted Advisor	Strategy advisor, Power to X, gasification, bio-electrofuels
Sept – Nov 2023	Ohio, USA	Confidential, Green Tech	Freelance consultant	PEM H2 electrolyser critical components market analysis
Sept – Oct 2023	Hamburg, Germany	ACI Europe	Conference Chairperson	European CO2 utilisation Summit

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Sept 2023 – Present	Copenhagen Denmark	Confidential, Green Tech	Contracted Advisor	Bio-based CCUS advisor and operating partner
Aug – Dec 2023	Ohio, USA	Confidential, Green Tech	Contracted Advisor	SOEC / CO-SOEC Electrolyser and stack market advisor
Aug – Sept 2023	London, GB	Confidential, Infra fund	Contracted Advisor	Green ammonia project advisor
Aug – Sept 2023	New York, USA	Confidential, hedge fund	Contracted Advisor	Wind turbine and green hydrogen advisor
Aug 2023 - Sept 2024	Birmingham, UK	IMI Critical	Freelance consultant	E-fuels technology advisor
July – Sept 2023	Bremen, Germany	Hydrogen Tech Expo	Conference Chairperson	Hydrogen and e-fuels propulsion track
July – Sept 2023	London, UK	Confidential, energy trading	Freelance consultant	Green / blue ammonia and e-methanol advisor
July – Dec 2023	Galicia, Spain	EIB / Iberdrola	Contracted Advisor	SOEC / Co-SOEC advisor to Green Meiga e-methanol project
June 2023 – March 2024	Cornwall, UK	Class of H2	Hydrogen trainer	Develop and deliver virtual hydrogen training
May 2023 – July	USA	Confidential, strategic investor	Contracted Advisor	SOEC / SOFC materials and components producer TDD/CDD
May - Aug 2023	Marl, Germany	Confidential, chemicals	Contracted Advisor	PVC production decarbonisation advisor
May – June 2023	Boston, USA	Orbia Ventures	Contracted Advisor	PEM Fuel cell BPP & AEM stack producer TDD/CDD for M&A
April 2023	Tampere, Finland	Valmet Energy	Freelance consultant	Hydrogen purification technology M&A buy-side TDD
April 2023	Hong Kong	Templewater Decarbonisation Fund	Contracted Advisor	Liquid hydrogen storage for aviation TDD
April - June 2023	Chicago, USA	Chicago Institute of Investment	Contracted Trainer	Ammonia and hydrogen training for Shanghai Futures Exchange
April 2023	California, USA	Confidential, corporate	Freelance consultant	PEMWE / PEMFC component advisory
March to May 2023	Brussels, Belgium	CINEA	EC Innovation Fund evaluator	Evaluation of CCS and Power to X projects

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March – Sept 2023	Graz, Austria	RGH2	Contracted Advisor	Strategy advisor for CCS and Hydrogen
March – April 2023	New York, USA	Decarbonization Partners	Contracted Advisor	Buy-side due diligence on PtL SAF technology
March – Oct 2023	Vellinge, Sweden	Safe Monitoring Group	Freelance consultant	Strategy for hydrogen applications business development
Feb – April 2023	Tampere, Finland	Valmet	Freelance consultant	Buy-side DD on Siemens process GC business acquisition
Feb – March 2023	London, UK	Confidential, investor	Freelance consultant	Buy-side due diligence on LDES technology
Jan – March 2023	Virginia, USA	Emerald Operating Partners	Contracted Advisor	Principal Advisor to Industrial Heat Pumps project team
Jan - June 2023	Kuwait	Frost & Sullivan	Contracted Advisor	CO2 capture and liquefaction plant TDD
Jan to July 2023t	Belgium	Confidential - Industrials	Freelance consultant	Hydrogen and CO2 pipeline components
Jan 2023	Istanbul, Turkey	Turkven Private Equity	Freelance consultant	TDD / CDD of cryogenic equipment manufacturer
Dec 2022 - Sept 2023	Limpopo, South Africa	Confidential, Mining	Contracted Advisor	Mining sector decarbonisation advisor
Nov – Dec 2022	California, USA	Honda Innovations	Contracted Advisor	PtL due diligence for CVC investor
Sept – Nov 2022	Birmingham, UK	IMI	Contracted Advisor	Hydrogen market advisor
Sept – Oct 2022	London, UK	M&G Investments	Freelance consultant	Buy-side due diligence on CO2 capture technology
July 2022 – Oct 2024	Bad Hönningen, Germany	Kandelium GmbH	Freelance consultant	Decarbonisation, CCUS, biocarbon and hydrogen advisor
July 2022 – April 2023	Karachi, Pakistan	IFC	Contracted Advisor	Green hydrogen and industrial gases advisor
July 2022 – April 2023	Göteborg Sweden	Confidential, Greentech	Freelance consultant	Hydrogen gas analyser strategic advisory & PR
July – Sept 2022	London, UK	Centrica	Freelance consultant	Hydrogen/derivatives /CCUS market advisor

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July – Aug 2022	SCEZ, Egypt	AMEA Power	Freelance consultant	Green hydrogen project development advisor
July – Aug 2022	Hong Kong	Templewater Decarbonisation Fund	Freelance consultant	Hydrogen investment strategy and target screening process
June - July 2022	Ohio, USA	Confidential, F-Gases	Freelance consultant	Methane pyrolysis plasma technology advisor
June - Dec 2022	Lahore, Pakistan	Confidential, Textiles	Freelance consultant	Operations decarbonisation advisor
April 2022 – May 2023	Hong Kong	Templewater Decarbonisation Fund	Freelance consultant	Buy-side DD on thermal methane pyrolysis startup
April – Sept 2022	London, UK	Arena International	Advisory Board Member	International Power Summit, Munich 2022
April 2022 - Sept 2023	MENA region	Confidential	Contracted Advisor	CCUS with mineralisation advisory
March - May 2022	Tampere, Finland	Valmet	Contracted Advisor	Process Automation M&S target scouting
March - June 2022	Al Jubail, KSA	SABIC	Contracted Advisor	Buy-side TDD on industrial gases asset
Feb - April 2022	South Africa / UK	Confidential, mining	Contracted Advisor	Hydrogen storage, distribution, and HRS
Feb - April 2022	Tampere, Finland	Confidential, Automation	Contracted Advisor	Buy-side M&A TDD for methane gas analysers
Feb - Dec 2022	Musqat, Oman	Birba Energy Services LLC	Technical Committee	Green Hydrogen Summit
Feb - Dec 2022	Namibia	Govt of Namibia / World Bank	Contracted Advisor	Expert advisor to national e-fuels and hydrogen strategy and policy
Feb - March 2022	Texas, USA	Houston Plating and Coatings	Contracted Advisor	Gas cylinder technology business development
Jan - Oct 2022	Colorado, USA	Confidential, greentech	Contracted Advisor	Alkaline hydrogen electrolyser OEM growth strategy
Jan - March 2022	California, USA	Sapphire Technologies	Freelance consultant	Turbo expander growth strategy for energy gases
Dec 2021 - Jan 2022	Berlin, Germany	Confidential, energy sector	Contracted Advisor	Net-zero potential for Turquoise Hydrogen

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Nov 2021 - May 2022	Karlsruhe, Germany	Emerson	Freelance consultant	Decarbonisation, CCUS & hydrogen advisor
Nov 2021 - Sept 2022	Singapore	PetroEdge	Contracted Trainer	CCS and Hydrogen trainer
Oct - Dec 2021	Europe	Confidential, steel making	Contracted Advisor	Turquoise hydrogen production technologies advisor
Oct 2021 - March 2022	Pennsylvania, USA	Confidential, compressors	Contracted Advisor	Hydrogen mobility growth opportunities advisor
Sept - Nov 2021	Chicago, USA	IDEX Corp	Contracted Senior Expert	Hydrogen rotating machinery growth opportunities advisor
Aug – Sept 2021	Dubai, UAE	Confidential, family office	Contracted Advisor	LNG and LPG investment advisor
Aug 2021 - Oct 2022	Switzerland	DSM	Contracted Advisor	Hydrogen and acetylene production and storage advisor
Jun - Jul 2021	Tuttlingen Germany	Though BCG, manufacturing	Contracted Senior Expert	Decarbonisation growth opportunities advisor
May 2021 - Dec 2022	Vienna, Austria	RHI Magnesita	Contracted Advisor	International CCUS strategy and deployment
May 2021 - Feb 2022	Viet Nam	ADB / PVN	Contracted Advisor	Petro Viet Nam CCUS and blue hydrogen road map development
April – August 2021	Palau	ADB / PPUC	Contracted advisor	Palau green hydrogen international expert and project lead
April - July 2022	Pittsburgh, USA	Green Swan Partners	Alliance Partner	CCUS & hydrogen venture building
April - June 2021	New Brunswick, Canada	Nu:ionic Technologies	Contracted Advisor	Hydrogen start-up growth and fund raising strategy advisor
March - June 2021	New York, USA	Warburg Pincus	Contracted Advisor	Chemical Gases M&A Buy-side Due Diligence
March 2021	New York, USA	Plutus Capital (SK Group)	Contracted Advisor	Turquoise hydrogen investment advisor
March - June 2021	South Carolina, USA	Neo H2	Contracted Advisor	Hydrogen start-up growth and fund raising strategy advisor
Feb 2021 – Dec 2024	London, GB	World Hydrogen Leaders	Contracted Trainer	CCUS and hydrogen trainer

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Sep 2020 – March 2022	Bayern, Germany	Confidential, industrial gas	Contracted Advisor	Specialty gases, F-Gas and hydrogen advisor
Nov 2020 – Oct 2023	London, GB	Vantage Sustainable Infrastructure	Advisor to Fund management team	CCUS, hydrogen and biogas/biomethane
Oct 2020 – Oct 2021	Manila, Philippines / Pakistan	Asian Development Bank	Contracted Advisor	International Expert & Team Leader for Renewable Hydrogen Deployment in Pakistan
Aug – Nov 2020	Kalgoorie, Australia	BHP Nickel West	Contracted Advisor	Oxygen plant investment
July 2020 – Sept 2023	Barcelona, Spain	Environmental Technology Publications Ltd	Scientific Committee	CEM 2023 Clean Energy Stream conference chair
July 2020 – May 2024	Arras, France	Teledyne	Freelance consultant	Gas and flame detection market development
Jun 2020 – Present	Truro, GB	H2 View	Advisory Board (advisor)	Advice across full hydrogen value chain
Oct 2019 – May 2020	Tampere, Finland	Valmet	Contracted Advisor	Gas analyser OEM M&A Due Diligence 2x
Sep 2019 - July 2020	Raufoss, Norway	Confidential, gas cylinders	Contracted Advisor	Composite gas cylinder business development
Aug 2018 – Present	Truro, GB	gasworld	Advisory Board (Advisor)	CCUS, Hydrogen, Industrial Gases, F-Gases, Biomethane and CO2
Dec 2018 to Feb 2021	Frankfurt, Germany	ABB	Freelance consultant	Gas analysis instrumentation
Aug to Oct 2018	Kienberg, Austria	Confidential, gas cylinders	Contracted Advisor	Gas cylinder business development
Oct 2018 – April 2021	London, UK	Nexant Energy & Chemicals Advisory	Principal, Germany	Due Diligence, M&A Advisory for infrastructure, energy and chemicals (independent contractor)
<b>2007 - 2017</b>	<b>Munich, Germany</b>	<b>Linde Gas</b>	<b>Global Head of Specialty Gases and Equipment</b>	<b>CO<sub>2</sub>, hydrogen, biogas, F-Gases, ammonia, business leadership</b>
<b>2003 - 2006</b>	<b>Windlesham, GB</b>	<b>BOC Group</b>	<b>Global Director</b>	<b>CO<sub>2</sub>, hydrogen, specialty gases, F-Gases, ammonia,</b>

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<b>1990 - 2002</b>	<b>Guildford, GB</b>	<b>BOC Gases</b>	<b>Various roles</b>	<b>CO<sub>2</sub>, hydrogen, industrial gases, energy gases</b>
1989 Jun to Oct	Coventry, GB	Courtaulds	Internship	Environmental management
1988 Jun to Oct	Bristol, GB	BP	Internship	Composite materials
1987 Jun to Oct	Gunnislake, GB	Plastech	Internship	Manufacturing & supply chain

**11. Relevant examples from over 300 publications and conference papers in the past 5 years**

- Port-side ammonia crackers, H2 View Dec 2024
- 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
- Hydrogen carriers for fuel cells, H2 View, 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** December 2023
- Biobased solutions for carbon capture, Carbon Capture World, November 2023
- Green iron and steel: A diversity of routes to decarbonisation, **gasworld** August 2023
- Will green ammonia overtake green hydrogen, H2 View, July 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
- Methanol and synthetic fuels rely on CO2 utilisation, Carbon Capture Journal Nov 2022
- Underground Hydrogen Storage, **gasworld**, March 2022
- Unlocking the potential for CCUS in Viet Nam, Carbon Capture Journal, November 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 Sept 2021
- Reducing CO2 emissions through process electrification, Decarbonisation Technology, Aug 2021
- CO2 clean-up by mineralisation, International Environmental Technology, June 2021
- Maximising hydrogen production from PV Solar parks, H2 View May 2021
- Technologies for Direct Air Capture of CO2, Carbon Capture Journal, May 2021
- CCS to create blue hydrogen from natural gas, Carbon Capture Journal, March 2021
- Chemcycling of waste to Hydrogen, Recycling Magazine, February 2021
- High efficiency hydrogen electrolysis and synthetic fuels, **gasworld**, June 2020
- Hydrogen from petcoke gasification, Hydrocarbon Engineering, June 2020



6<sup>th</sup> June 2025

Stephen B. Harrison,

Gesellschafter Geschäftsführer, Managing Director, Founder & Owner, sbh4 GmbH