

Curriculum Vitae

Jón Björn Skúlason

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Education:

- 1994 MA degree in Economical Geography from Simon Fraser University, Vancouver (Burnaby), British Columbia, Canada.
Relevant courses: Industrial geography, resource management, regional development and the environment.
Title of final thesis: *Foreign investment and the bargaining process: Case study of the aluminum industry in Iceland.*
- 1992 BSc in Geography from the University of Iceland, Reykjavík.
Title of final thesis: *Tourism in Iceland: an analysis of available accommodations and future prospects.*
- 1992 Exam as ship cook from the Icelandic School of Hotel and Catering.
- 1988 Basic courses in economics (30 units) at the University of Iceland.
- 1987 Matriculation exam from the Junior College of Reykjavík.
- 1983 Exam to operate 30 ton boats from the Seamen's School in Reykjavík.

Job experience:

1999-

General Manager for Icelandic New Energy Ltd, (Íslensk NýOrka ehf) a joint venture company owned by VistOrka (an Icelandic holding company), DaimlerChrysler, Shell Hydrogen and Norsk Hydro.

-Purpose of the company:

To increase the use of environmentally friendly fuels in Iceland.

1995-1999

Economic Consultant for the Reykjanes Peninsula, Iceland - Reykjanes Marketing and Development Agency (MOA).

Special projects within MOA from 1996

1997

Project Coordinator for "European Regional Vocational Councillor", European fourth framework project under the Leonardo da Vinci program. Participating regions are Leiria (Portugal), Horsens (Denmark) and Reykjanes (Iceland).

1997-1998

Coordinator and instructor of an educational course on how to establish and run a small firm/company. A joint project between MOA and the Technological Institute of Iceland.

1997-1998

Director for Icelandic Hydroponics. A test-project of MOA and several other firms in Reykjanes on the possibilities of a local hydroponic plant.

1998

Part time teaching at Suðurnes Comprehensive College: National Economics.

1995-1998

Part time teaching at the University of Iceland: Economic Geography I & II.

1994

Teaching Assistant: Industrial Geography at Simon Fraser University.

Different summer jobs during school years, such as deck hand and cook on fishing boats, laborer for a wine producer in Germany, bricklayer, gardener and other odd jobs.

Committees:

2014-

Member of the programme committee Horizon 2020 - Challenge “Smart, Green and Integrated Transport”

2010-

Project manager for Græna Orkan (EcoEnergy). Strategic working group responsible for policy formulation on environmental transport in Iceland. Policy paper accepted by the Parliament in Iceland in 2012 and now the working group is working on the execution plan – i.e. to shift from a fossil fuel paradigm in transport to renewable energies – policy towards 2020 “Orkuskipti í Samgöngum” (e. Energy change in transport – government policy paper).

2009-2013

Chairman of the Football division of Haukar Football Club.

2013 –

Board member of Haukar Football Club

2006-

Coordinated the start-up of the North Atlantic Hydrogen Association (NAHA). Has been an alternative Board member from start and is the manager of the Secretariat.

2006-2007

Member of the steering committee for HySyday 2007 (Young scientists in hydrogen research) conference in Torino, June 2007. Also an invited session chairman at the conference.

2004-2006

Strategic Research Agenda for the European Commission (EC). A committee appointed by the EC specifically on “*Hydrogen storage and infrastructure, future research activities*”.

2002 - 2003

“High Level Group on Hydrogen”. A committee organised by the European Commission, involving key European Hydrogen companies to put forward (create) a future hydrogen vision for Europe “*Vision Report*”.

1997 - 1998

‘Better usage of domestic energy’. A committee appointed by the Minister of Industry, in Iceland, chaired by Mr. Hjálmar Árnason.

1997

Computer committee of Reykjanesbær. Supervision of the Reykjanesbær homepage.

1997

Member of the Negotiating/Wage Committee for the employees of the town of Reykjanesbær.

1991-1993; 2001- 2004

Chairman for the amateur Football Club Hvatberar, Seltjarnarnes.

1991 - 1992

Chairman for the Society of Geology and Geography Students at the University of Iceland.

Icelandic New Energy Ltd.

As the General Manager for Icelandic New Energy Ltd. (INE) I act as the coordinator for the ECTOS-project ‘Ecological City Transport System (5th Framework European Commission 2001-2005). The project is a 7 million EURO, hydrogen demonstration project, supported 40% by the EC. It involves the R&D of demonstrating 3 hydrogen fuel cell buses and the world’s first commercial hydrogen filling station. All now in operation. I also am the coordinator for the EURO-HYPORT-project (5th Framework EC 2001-2003) which is a 0,5 million EURO project on hydrogen infrastructure and export of hydrogen, supported 55% by the EC. Now a new project NEW-H-SHIP has been established, also EC funded aiming for evaluating fuel cells and hydrogen in marine applications. Many other small projects are also coordinated by INE.

One of the goals of INE is to increase research activities and educating young potential researchers in the field of hydrogen. Currently 2 students are located at INE, two of the students are finalizing MS degrees in Engineering. Three other students have already finished their degrees with the company and one of them was a Fulbright Fellowship student from the US. Currently I act as coordinator of one of the current projects but I was the coordinator of all the former ones. I also take part, in cooperation with the University of Iceland, in establishing an international course on hydrogen infrastructure in Iceland. This course was thought for the first time in the summer of 2003.

INE has until now been responsible for more or less all the hydrogen activities in Iceland. Numerous opportunities have been identified and currently the company is

responsible for a number of research activities other than the three large EU projects mentioned above. As general manager, I have acted as the project coordinator for these activities, often in close cooperation with the University of Iceland and Institute for Technological Research in Iceland.

Publications:

J.B. Skúlason, M. Maack and G.L. Kristinsdóttir, 2014. “Notkun vetnis í samgöngum 1999-2013”. Published in “Þekking beisluð”, editor Þorsteinn I. Sigfússon, p. 213-230.

M. Maack and J.B. Skúlason, 2005. Implementing the hydrogen economy. *Journal of Cleaner Production* 14(2005): 52-64.

M. Maack and J.B. Skúlason, 2002: Hydrogen backs up optimism in Iceland. *Renewable Energy* 2002, Renewable energy association, publication sponsored by the UNEP (United Nations Environmental Program).

B. Árnason, Þ. I. Sigfússon and J. B. Skúlason 2001: Creating a non-fossil energy economy in Iceland. Science Institute, University of Iceland, 10 p.

J.B. Skúlason and R. Hayter 1998: Industrial location as a bargain: Iceland and the multinationals 1962-1994. *Geogr. Ann.*, 80 B(1): 29-48.

Þorsteinn Sigurjónsson and Jón Björn Skúlason 1998: Report on electric vehicles and environmentally friendly vehicles. Written for the Committee of ‘Better usage of domestic energy’, 36 pages.

J.B. Skúlason 1995: Bargaining process and foreign investment, published in the weekly business magazine *Vísbending* (Iceland), vol 13 (33).

Presentation and publications:

Electric Engineering conference 2015: Stefnumótun íslenskra stjórnvalda Hvað hefur gerst og er að gerast? (e. Iceland’s government policy. What development has been happening). Presentation December 2015.

COP 21 Paris 2015: Nordic Marina: Pushing the green transport movement out to sea. The maritime sector can become the next green industry. Side event at the Nordic Pavillion, December 2015.

Electric and Hybrid World Expo 2015: Utilising regenerative plug-in hybrid-electric propulsion on a sailboat. Presentation, Amsterdam, June 2015. Abstract publication in proceedings

Hannover Messe – Technical Forum 2015: Compressing hydrogen without any major moving parts; Thermal metal hydride H₂ compressor. Presentation, April 2015.

Fuel Cell Seminar and Energy Exposition 2014: “Compressing hydrogen without any major moving parts. Thermal metal hydride H₂ compressor”. Presentation LA, Nov

2014. Abstract publication in proceedings.

Nordic Hydrogen conference 2013: “The Nordic countries. Ideal for H₂ commercialisation”. Presentation Oslo, October 2013.

Hydrogen and fuel cells 2013: “The Nordic countries. Ideal for H₂ commercialisation”. Presentation Vancouver, June 2013. Abstract publication in proceedings.

EvE Northern Collaboration Seminar 2013: “Electromobility in Iceland”. Presentation in Helsinki, May 2013.

Electromobility. Joint Nordic – Korean event 2012: “Hydrogen in Reykjavik/Iceland since 1999 – Nordic – Korean cooperation”. Presentation Seoul, October 2012.

World Hydrogen Energy Conference 2012: “Hydrogen in Reykjavik/Iceland – success or failure”. Presentation at the WHEC 2012, Toronto, June 2012. Publication in proceedings.

EU – Joint Technological Initiative 2011: “Preparing socio and economic evaluations of future H₂ lighthouse projects”. Presentation at the General Assembly, Brussels, November 2011. Publication in proceedings.

Nordic Hydrogen Conference 2011: “FCEVs and infrastructure 2007 -11 as a forerunner to further hydrogen incentives in the Nordic countries”. Joint Nordic hydrogen conference Malmö, October 2011.

Nordic Climate Festival @ Aalto 2011: “Panelist for general discussion on renewable energies for transport in Nordic countries” Aalto University, Otaniemi, Espoo, Finland, August 2011.

El-mobility conference 2011. “Clean vehicle demonstrations in Iceland 2000-2010” Project workshop, Nuuk, August 2011. Publication in proceedings.

CANNORD 2011: “EcoEnergy; Environmentally friendly fuels in Iceland” Joint Nordic/Canadian conference on sustainability and environmental issues, Toronto, March 2011.

El-mobility conference 2011. “Clean vehicle demonstrations in Iceland 2000-2010” Project workshop, Thorshavn, February 2011. Publication in proceedings.

Nordic Hydrogen conference and HyNor, 2009: “Hydrogen and social dimensions. Including HyFLEET:CUTE”. Joint presentation with Maria Maack. Joint Nordic Energy Conference in Oslo, November 2009.

EVS 2009, May 2009: “Sustainable marine and road transport, H₂ in Iceland”. Presentation at the EVS in Stavanger, May 2009. Publication in proceedings.

EcoProcura 2009: “Sustainable mobility. How will we proceed”. Annual EcoProcura conference, held in Reykjavík, March 2009.

SHHP (Scandinavian Hydrogen Highway Project) and Nordic Innovation Network 2008: “Iceland striving towards the hydrogen society”. Joint conference in Espoo, Finland, December 2008.

Fuel Cells, October 2007: “*Can the fuel cells cope with the Atlantic Ocean*”. Presentation at a conference held in San Antonio, October 2007. Publication in proceedings.

Learning in CSR (Corporate Social Responsibilities), September 2007: “*Public-private partnership, The key in creating a new energy paradigm*”. Copenhagen (Denmark). Invited keynote presentation.

Driving Sustainability, Sept 2007. “*The case for H₂, Creating a hydrogen society in Iceland*”. Reykjavik, Iceland. Invited presentation. Publication in proceedings.

Special introduction to Geothermal Energy, UN building May 2006: “*Catalysts for H₂. Iceland’s first step towards the hydrogen economy*”. Special event organised by the Icelandic delegation to the UN, during the special week on Sustainable Development. New York, US. Invited keynot presentation.

Special introduction at Capitol Hill (US parliament building), May 2006. “*Catalysts for H₂. Iceland’s first step towards the hydrogen economy*”. Special event organised by the The Icelandic Embassy in the US. Special guest invitation on renewable energies and future fuels. Washington DC, US. Invited keynote presentation.

Powering the Future: Tomorrow’s Energy Technologies and Implications for Real Estate, April 2006, MIT, Boston: *Catalysts for H₂. Iceland’s first steps towards the hydrogen economy*. MIT (Massachusetts Institute of Technology), CRE Spring Meeting. Invited luncheon speaker.

Globe 2006, March 2006, Vancouver, British Columbia: *Catalysts for H₂: Is H₂ infrastructure a barrier for the hydrogen economy?* Globe foundation. Invited presentation.

Hydrogen seminar in Korea, December 2005. Organised by Sejong University, Seoul and supported by the Korean Economic Daily & Hyundai Motors. *Hydrogen economy in Iceland. Activities – learning for others*. Invited keynote presentation.

H₂/FC Technology Platform Operation Review Days, organised by the EU, Brussel, December 2005. *New-H-Ship*. Invited presentation. Publication in proceedings

F-Cell forum, Stuttgart, Germany, September 2005. *ECTOS – CUTE. Experience – key results*. Invited presentation

State visit by the President of India, His Excellency Dr. A.P.J. Abdul Kalam. Short conference on energy, May, 2005. “*Hydrogen economy in Iceland, ECTOS and other activities*”. Invited presentation

European Energy Forum, (field visit to Iceland), May 2005. “*Hydrogen economy in Iceland, ECTOS and other activities*”. Invited presentation.

Hysydays (Young scientists in hydrogen research) conference in Torino, May 2005. “*Hydrogen economy in Iceland, H2 Infrastructure*”. Invited presentation.

HyProFiles conference, Reykjavík April 2005. Head of organisation for the conference, final ECTOS conference. “*Overview of the ECTOS project*”. Keynote presentation. Publication in proceedings.

IPHE steering committee meeting. Paris, January 2005. “*Hydrogen in Iceland, future aspects*”. Invited presentation.

International Conference on Renewable Hydrogen Economy, Manila, Philippines, December 2004. “*Hydrogen in Iceland, ECTOS and other projects*”. Invited keynote presentation and session chairman.

Second International Fuel Cell Workshop, Porto, Portugal, November 2004. “*ECTOS – A case study for introducing hydrogen*”, Invited keynote presentation. Publication in proceedings.

Hydrogen and fuel cell forum. Conference in Milan, September 28-29th 2004. “*Iceland hydrogen experience*”. Invited keynote presentation. Publication in proceedings.

International Partnership for the Hydrogen Economy (IPHE), Liaison and Implementation Committee, 3rd meeting, Reykjavik, Iceland, September 23-24th 2004. “*ECTOS – A case study for introducing hydrogen*”. Invited keynote presentation.

Hydrogen and fuel cell futures, Perth Australia, September 12-15th 2004. “*ECTOS – A case study for introducing hydrogen*”. Invited keynote presentation, and session chairman. Publication in proceedings.

“Hydrogen and fuel cell”, short course. Held by the University of New South Wales in Sydney on September 10th 2004. Two presentations: “*Hydrogen and Fuel Cells. Applications in Transportation and The Iceland hydrogen experience*”. Invited lecturer. Publication in proceedings.

Senatorial delegation (Committee for Science and Technology) from the US visiting the Icelandic Government, September 2004. “*Hydrogen in Iceland, ECTOS and other projects*”. Invited presentation. Senator delegation included: John McCain (chairman) (R-AZ), Hillary Clinton (D-NY), Susan Collins (R-ME), Lindsey Graham (R-SC), John Sununu (R-NH).

Sustainable Urban Management and Land Use-From European Research to Application to the Local Level, Prague, July 2004. “*The first experience in integrating H₂ into a modern society. ECTOS in motion*”. Presentation [invited] at a conference organised by the European Commission, DG RTD, (City of Tomorrow and Cultural Heritage). Publication in proceedings.

Future Directions in Hydrogen Energy Research & Education, Arlington VA, June 2004. “*H₂ research. Stakeholders experience*”. Dinner [invited] presentation. Workshop organised by the National Science Foundation in the USA. Publication in proceedings.

CUTE-ECTOS conference, London, UK, June 2004. “*ECTOS – cool running*”. Presentation at a conference for the European hydrogen bus demonstration program. Publication in proceedings.

Artic counsel meeting in Iceland, May 2004. “*Hydrogen in Iceland, ECTOS and other projects*”. Invited presentation.

The Hydrogen Society, Jyoetsu City, Japan, Jan 2004. “*Hydrogen activities start-up. Role of politicians, industry and others*”. Keynote [invited] presentation. Organised by the Jyoetsu Chamber of Commerce.

Hydrogen, Energy Resource for the future, Milan Dec. 2003. “*Hydrogen in Iceland, ECTOS and other projects*”. Presentation [invited] at a conference organised by Cestec SpA.

International Partnership for Hydrogen Economy (IPHE), Washington Nov. 2003. “*Collaborative research. Infrastructure and marine applications*”. Presentation [invited] at the opening of the IPHE, organised by the Department of Energy, USA.

Nordic hydrogen seminar 2003, Reykjavik Nov. 2003. “*Hydrogen in Iceland. Infrastructure*”. Presentation [invited] at a conference organised by the Norges Forsikningsrad. Publication in proceedings.

H2 EXPO, Hamburg Oct. 2003. “*Hydrogen in Iceland, ECTOS and future infrastructure*”. Presentation [invited] at the H2 EXPO, tradeshow.

Visit of the president of Germany to Iceland, Reykjavik July 2003. “*Wasserstoff in Island, ECTOS und andere Projekte*”. Presentation [invited] held for the president of Germany, Johannes Rau and the president of Iceland, Ólaf Ragnar Grímsson.

Eco – Efficiency Biennial, Torino June 2003. “*Hydrogen in Iceland, ECTOS and other projects*”. Presentation [invited] at a conference organised by Hydrogen System Laboratory at the Environment Park in Turin.

EMPA Academy, Zurich June 2003. “*Hydrogen in Iceland, ECTOS and other projects*”. Presentation [invited] at an conference organised by Credit Suisse amongst others.

NORFA Summerschool on Hydrogen in Iceland. “*Hydrogen in Iceland, policies and development*”. Lecture notes, organised by the University of Iceland June 10-14th 2003. Publication in proceedings.

Making Hydrogen Available to the Public, Reykjavik April 2003. "*Making hydrogen available to the public*". Keynote presentation at a conference organised by Icelandic New Energy, Publication in proceeding in the form of a CD – ROM.

International Energy Agency, Paris 2003: "*Iceland and hydrogen; ECTOS and other related projects*". Presentation [invited] at a conference organised by IEA, "Towards hydrogen".

13th World Hydrogen Conference, Montreal 2002: "*Icelandic New Energy Developments. Infrastructure: Case of Iceland*". Keynote speech [invited], publication in proceedings.

Iceland-American Trade, New York 2002: "*Hydrogen in Iceland*". Presentation [invited] at a conference organized by the Icelandic Embassy in the USA, to increase research cooperation and investment between Iceland and the USA.

Brint og Brændselsceller I Fremtidens Energisystem, Herning (Denmark), 2002: "*Hydrogen in Iceland: ECTOS and other projects*". Speech [invited], slides published in proceedings.

The coming hydrogen Economy, Minnesota, USA, 2002: "*Hydrogen in Iceland: ECTOS and other projects*". Presentation [invited] at a conference organised by the University of Minnesota.

Nordic Local Transport Meeting, Copenhagen 2002. "*Hydrogen in Iceland. ECTOS*". Speech [invited], publication in proceedings.

Energy Conference of the Faroe Islands 2002, Thorshavn: "*Hydrogen in Iceland. ECTOS and other projects*". Keynote speech [invited], publications in proceedings.

Energy afternoon, Icelandic Mission to the EU 2002, Brussel: "*Current stay of play and next steps for the hydrogen projects*". Presentation, organised by the Icelandic EU mission to EC.

Orkuþing 2001, Reykjavík. "*Vetni eldsneyti framtíðar*". Speech, publication in proceedings.

DaimlerChrysler 8th Technical Day in Japan, Tokyo, 2001: "*The Icelandic hydrogen fuel cell bus project: ECTOS and other activities*". Speech [invited], publication in proceedings.

Energy afternoon, Icelandic Mission to the EU 2000, Brussel: "*Hydrogen possibilities in Iceland*". Speech [invited].

Expo Seminar, Hannover 2000. "*The Icelandic hydrogen society*". A plenary talk [invited] given at the EXPO Seminar "Icelandic Energy in an International Context", arranged by the Icelandic Power Companies. Published by Landsvirkjun et al. August 200 in the form of a CD disk.

Also done speeches at numerous other smaller opportunities introducing hydrogen and the possible utilisation in Iceland, for example presentations for MP's, ambassadors, senators, etc and also clubs like Lions, Kiwanis and alike. These smaller presentations are over 300.

Personal information:

Born 1967, married with three children.

Main interests are sports, especially football and handball. Outdoor activities, especially hiking, hunting and fishing.

Have special interest in the environment and its preservation. My interest in using alternative fuels in transportation was awakened while studying in Vancouver when Ballard launched its first hydrogen bus.

Have always found it a challenge to tackle new projects and have an ambition to see them through.