



LOOS

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# Energy Forum 2011

1-4 February | Oslo, Norway

Brought to you by:

THE ENERGY POLICY FOUNDATION OF NORWAY

## About the Energy Policy Foundation of Norway

The Energy Policy Foundation of Norway (EPF) is a non-profit organisation that aims to find answers to the world's most pressing energy questions.

For nearly four decades, EPF has hosted the Oslo Energy Forum (formerly known as the Sanderstølen Conference), one of the world's most important meeting places for the energy industry. The forum brings together government decision-makers and top policy thinkers with key business leaders from the oil and gas, renewable energy, electric power, contracting, transport and financial industries.

The inaugural forum was held in 1973, just as the Norwegian oil and gas industry was taking off and the world economy was reeling from the global oil crisis. Since then the ambition of the forum has broadened. Today it aims not only to lead debate of traditional energy concerns such as security of supply, but also to stimulate new industry thinking around newer challenges, such as climate change.

One of the forum's strengths is its private, collegial atmosphere. Attendance is by invitation only, and participants are selected carefully in order to encourage valuable connections and open dialogue. The forum is not open to the press.

[www.epfnorway.no](http://www.epfnorway.no) | [www.osloenergyforum.com](http://www.osloenergyforum.com)

## About Xyntéo

In 2009, the board of the Energy Policy Foundation of Norway appointed Xyntéo to execute the annual programme of the Oslo Energy Forum.

Xyntéo is an international strategic advisory firm that equips business leaders with knowledge, networks and tools to compete in a carbon-constrained economic landscape. It works strategically and practically with some of the world's leading companies from across a range of industries, among them oil and gas, utilities, consumer goods, financial services, shipping and IT.

Xyntéo is the founder and engine of the Global Leadership & Technology Exchange. GLTE is a one-of-a-kind partnership uniting world-class businesses engaged in the pursuit of low-carbon innovation.

[www.xynteo.com](http://www.xynteo.com) 

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The Wheel of Life sculpture is one of the main attractions in Oslo's Vigeland Park – a city landmark and the world's largest sculpture park featuring work by a single artist. The Wheel of Life, a garland of women, children and men holding on to each other, symbolises eternity and the human journey from the cradle to the grave.

# **Rethinking Energy**

## **The Future of Oil and Gas**

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# PROGRAMME

## TUESDAY, 1 FEBRUARY

15:00 Hotel rooms available from 15:00 onwards

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19:00 *Cocktails*

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19:30 *Pre-Forum Dinner*  
Hosted by **Elisabeth Berge** (Chair of the Energy Policy Foundation of Norway)  
Secretary General  
Norwegian Ministry of Petroleum & Energy

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## WEDNESDAY, 2 FEBRUARY

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09:00 – 09:10 **Welcoming Remarks**  
**Harald Norvik** (Forum Moderator)

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09:10 – 10:15 **Pitfalls in a Post-Crisis World**  
**Dr Stephen Roach**  
Senior Fellow, Jackson Institute for Global Affairs, Yale University  
Chairman, Morgan Stanley Asia

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10:15 – 10:45 *Coffee Break*

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10:45 – 12:00 **Geopolitical Change: Challenges to Global Governance and Energy Security**  
**Jonas Gahr Støre**  
Norwegian Minister of Foreign Affairs

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13:00 – 15:00 *Lunch*

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15:00 – 16:15 **The Geopolitical Outlook after the Seoul G20**  
**Professor Kishore Mahbubani**  
Dean of the Lee Kuan Yew School of Public Policy  
National University of Singapore

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16:15 – 16:45 *Coffee Break*

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16:45 – 18:00 **Has the Era of US Power Come to a Close?**  
**Hon. Richard L. Armitage**  
Former US Deputy Secretary of State

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19:00 *Cocktails*

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19:30 *Dinner*

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## THURSDAY, 3 FEBRUARY

09:00 – 10:15

### **The Role of Asia – a New World Order?**

**Professor Hans Rosling**

Professor of International Health, Karolinska Institute  
Co-founder, Gapminder Foundation

*Followed by a response by:*

**Vikram Singh Mehta**

Chairman  
Shell Group of Companies in India

10:15 – 10:45

*Coffee Break*

10:45 – 12:00

### **The Future of Transportation – Implications for Energy**

**Dan Galves**

Automotive Industry Research Analyst  
Deutsche Bank

**Professor Dan Sperling**

Director of the Institute of Transportation Studies, University of California, Davis  
Member, California Air Resources Board

13:00 – 15:00

*Lunch*

15:00 – 16:15

### **Rethinking Natural Gas**

*Contributions from:*

**Malcolm Brinded**

Executive Director  
Shell Upstream International

**Jean-François Cirelli**

Vice Chairman and President  
GDF SUEZ

**David Goldwyn**

President, Goldwyn Global Strategies, LLC  
Former Special Envoy for International Energy Affairs, US Department of State

**Sam Laidlaw**

Chief Executive  
Centrica

**Helge Lund**

CEO  
Statoil

**Klaus Schäfer**

CEO  
E.ON Ruhrgas

16:15 – 16:45

*Coffee Break*

16:45 – 18:00

### **Panel Discussion: Rethinking Natural Gas**

Moderated by **Professor Jonathan Stern**, Director of Gas Research at the Oxford Institute for Energy Studies, this panel will feature the speakers from the previous session.

**Rt Hon. Lord Howell of Guildford**, Minister of State at the British Foreign & Commonwealth Office, will close the panel by sharing his reflections on “Natural Gas and the Future of Energy”.

## THURSDAY, 3 FEBRUARY continued

19:00

*Cocktails*

19:30

*Dinner*

Hosted by **Dr Henrik O. Madsen**  
CEO  
Det Norske Veritas

## FRIDAY, 4 FEBRUARY

09:00 – 10:00

**Oil and Gas: Lessons from the Last Decade, Strategies for the Next Two**

**Andrew Gould**  
Chairman and CEO  
Schlumberger Ltd

10:00 – 10:30

*Coffee Break*

10:30 – 12:30

**Panel Discussion: Meeting the Energy Trilemma**

Moderated by **Maury Devine**, Director at FMC Technologies, this panel will feature contributions from:

**Abdullatif Al-Othman**  
Senior Vice President, Finance  
Saudi Aramco

**Lord Oxburgh of Liverpool**  
Former Chairman, Shell  
Former Chair, House of Lords Science & Technology Select Committee

**Thierry Pilenko**  
Chairman and CEO  
Technip

**Shyam Saran**  
Former Indian Foreign Secretary  
Former Special Envoy for the Indian Prime Minister on Climate Change

**Andy Swiger**  
Senior Vice President  
ExxonMobil

12:30 – 14:15

*Closing Luncheon*

Hosted by **Terje Riis-Johansen**  
Norwegian Minister of Petroleum & Energy

14:30 and 15:15

Coach departures for Gardermoen airport

## SPEAKER PROFILES



**Abdullatif Al-Othman**

*Senior Vice President, Finance  
Saudi Aramco*

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Abdullatif A. Al-Othman is Senior Vice President of Finance of Saudi Aramco, the world's largest oil company. He is responsible for over 720 employees from across the corporate functions of Controllers, Treasurers and Corporate Finance Project Development.

Mr Al-Othman's Saudi Aramco career includes leadership positions in a variety of administrative and operational functions including Engineering & Project Management, Saudi Aramco Affairs, Corporate Planning, and Sales & Marketing. Since his appointment as Senior Vice President of Finance in 2004, Mr Al-Othman continues to lead the Finance organisation on a journey of continuous transformation – strengthening and optimising transaction processing and reporting functions while establishing Finance as a valued business advisor and integral business partner through the development of financial talent and value-added service offerings. His efforts led to his selection in 2008 as MENA (Middle East and North Africa) CFO of the Year by Naseba, a leading global business communications firm.

Mr Al-Othman earned a bachelor's degree in civil engineering from the King Fahd University of Petroleum & Minerals (1979) and a master's degree in business administration from the Massachusetts Institute of Technology's Sloan School of Management (1998).



**Hon. Richard L. Armitage**

*Former US Deputy Secretary of State*

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Richard L. Armitage is President of Armitage International and former US Deputy Secretary of State (2001-2005). Prior to returning to government service in 2001, Mr Armitage was President of Armitage Associates LC from 1993 until 2001.

From 1989 to 1993, Mr Armitage served in various high-level diplomatic positions, including as a special emissary to Jordan's King Hussein during the 1991 Gulf War and director of US assistance to the newly independent states of the former Soviet Union.

Prior to this, Mr Armitage served in the Pentagon as Assistant Secretary of Defense for International Security Affairs (1983-1989) and Deputy Assistant Secretary of Defense for East Asia & Pacific Affairs (1981-1983).

Mr Armitage graduated in 1967 from the US Naval Academy and served three combat tours in Vietnam. He is the recipient of numerous US and foreign military decorations as well as awards for distinguished public service.

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### **Malcolm Brinded CBE**

*Executive Director  
Shell Upstream International*

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Malcolm Brinded became Executive Director of Upstream International with effect from 1 July 2009.

He joined Shell after graduating in engineering from Cambridge University and has since worked for Shell companies in Brunei, the Netherlands, Oman and the UK. In 1998 he became Managing Director of Shell UK Exploration & Production – responsible for a fifth of the country’s offshore oil and gas business – and from 1999 to 2002 he was Shell Country Chairman in the UK.

Mr Brinded continues as a member of the Royal Dutch Shell plc board, a role he has held since its formation in 2004; from 2002 he served on the boards of the two former parent companies. From March 2004 until his current appointment, he was Executive Director in charge of Exploration & Production.

In October 2010, Mr Brinded joined the board of Network Rail as a Non-Executive Director.

He is a fellow of the Institution of Civil Engineers, the Institution of Mechanical Engineers and the Royal Academy of Engineering. He is a member of the Nigerian President’s Honorary International Investor Council and a trustee of the Emirates Foundation and the International Business Leaders Forum. He is also the Chairman of the Shell Foundation. In 2002 he was appointed CBE for services to the UK oil and gas industry.

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### **Jean-François Cirelli**

*Vice Chairman and President  
GDF SUEZ*

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Jean-François Cirelli has been Vice Chairman and President of GDF SUEZ since 22 July 2008.

In 2004, Mr Cirelli was named Chairman and Chief Executive Officer of Gaz de France. Prior to joining Gaz de France, Mr Cirelli served as Deputy Director of the French Prime Minister’s Office, having been appointed in 2002. In 1995, Mr Cirelli was named economic counsellor to then French

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President Jacques Chirac. He began his professional career in 1985 when he went to work for the treasury division of the French Ministry of the Economy & Finance.

Mr Cirelli is a graduate of the *Institut d'Études Politiques de Paris* and the *École Nationale d'Administration*. He also has a degree in law.

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**Maury Devine**  
*Director*  
*FMC Technologies*

C. Maury Devine is a retired ExxonMobil executive and former fellow of Harvard University's Kennedy School of Government's Center for Science & International Affairs (2000-2003). She is currently a member of the board of directors of FMC Technologies, Inc and JBT Corporation.

From 1996 to 2000, Ms Devine was President and Managing Director of Mobil Corporation's Norwegian affiliate engaged in the exploration and production of oil and gas in the North Sea and the Norwegian Sea. During her career at Mobil, she served as Secretary of Mobil Corporation and was responsible for shareholder relations and governance issues affecting the corporation and its 750 affiliates and subsidiaries. Prior to this assignment, Ms Devine was responsible for Mobil's international government relations with Vietnam, Indonesia, Nigeria and Russia.

Ms Devine is former Vice Chairman of the Norwegian multinational Det Norske Veritas (2000-2010) and is currently a member of the nominating committee of Petroleum Geo-Services ASA in Oslo. She also serves on the board of Aquatic Energy, the Washington Middle School for Girls and the Woodstock Center at Georgetown University.

Ms Devine is a member of the Council on Foreign Relations and holds degrees from Chestnut Hill College, Middlebury College and Harvard University.

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**Jonas Gahr Støre**  
*Norwegian Minister of Foreign Affairs*

Jonas Gahr Støre is Norway's Minister of Foreign Affairs.

His introduction into public life was as Special Advisor to the Prime Minister, followed by a three-year tenure as Director-General of the Prime Minister's International Department. In 1998, Mr Støre was appointed Ambassador of Norway's Permanent Mission to the United Nations in Geneva, but served

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only briefly as he was asked by Gro Harlem Brundtland, former Prime Minister of Norway and then Secretary-General of the World Health Organization, to become her Chief of Staff.

In 2005, Mr Støre became Minister of Foreign Affairs in Prime Minister Jens Stoltenberg's government, following three years as Secretary-General of the Norwegian Red Cross. Mr Støre belongs to the Norwegian Labour Party.

He has a degree in political science from the *Institut d'Études Politiques de Paris*, and has held a teaching position at Harvard Law School.

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### **Dan Galves**

*Automotive Industry Research Analyst  
Deutsche Bank*

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Dan Galves is a member of Deutsche Bank's Global Auto/Auto Parts equity research team. He is the lead analyst on vehicle electrification-related companies A123 Systems (AONE), Ener1 Inc. (HEV) and Tesla Motors (TSLA), and an associate analyst on DB's US autos coverage, including Ford Motor, Johnson Controls and AutoNation, among many others. Mr Galves was recognised in the 2010 Institutional Investor survey as a "best up and comer" for his work.

Prior to joining Deutsche Bank in 2007, Mr Galves was a Finance Manager at General Motors, where he spent seven years in various operational roles within the company, both in Detroit and New York. Prior to that, he was controller for Auto Brokers, a privately-held automotive wholesaling company.

Mr Galves holds a master's degree in business administration from the University of South Carolina. He also holds a BA from the University of North Carolina.

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### **David Goldwyn**

*President, Goldwyn Global Strategies, LLC  
Former Special Envoy for International Energy Affairs, US Department  
of State*

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David L. Goldwyn is President of Goldwyn Global Strategies and is the US State Department's former Special Envoy for International Energy Affairs. Appointed by Secretary Clinton, he was sworn in on 17 August 2009. Prior to his appointment, Mr Goldwyn was President of Goldwyn International Strategies, LLC (GIS), an international energy consulting firm.

In addition to his private sector experience, Mr Goldwyn has served the US government as Assistant Secretary of Energy for International Affairs (1999-2001), Counselor to the Secretary of Energy

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(1998-1999); national security deputy to US Ambassador to the United Nations Bill Richardson (1997- 1998); Chief of Staff to the Under Secretary of State for Political Affairs (1993-1997); and an Attorney-Adviser in the Office of the Legal Adviser at the State Department (1991-1992).

He acquired extensive international business experience as an attorney with the New York law firm of Paul, Weiss, Rifkind, Wharton & Garrison from 1986 to 1991. He is a Member of the Council on Foreign Relations, the District of Columbia Bar and the New York State Bar Association.

Mr Goldwyn holds a BA in government from Georgetown University, a master's in public affairs from the Woodrow Wilson School of Public & International Affairs at Princeton University, and a JD from New York University School of Law.

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**Andrew Gould**  
*Chairman and CEO  
Schlumberger Ltd*

Andrew Gould is Chairman and Chief Executive Officer of Schlumberger Ltd, a position he has held since February 2003. He has been with Schlumberger since 1975 and has held successive financial and management positions across the company in Asia, Europe and US.

Mr Gould also serves on the boards of directors of Rio Tinto plc and Rio Tinto Limited. He is a member of the board of trustees of the King Abdullah University of Science & Technology in Thuwal, Saudi Arabia and of the advisory board of the King Fahd University of Petroleum & Minerals in Dhahran, Saudi Arabia.

He served as Vice President, Technology on the United States National Petroleum Council 2007 study "The Hard Truths about Energy". Mr Gould was named the 2010 Petroleum Executive of the year at the Oil and Money conference.

Andrew Gould graduated from the University of Wales, Cardiff where he received a BA in economic history.

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**Rt Hon. Lord Howell of Guildford**  
*Minister of State  
British Foreign & Commonwealth Office*

Rt Hon. Lord (David) Howell of Guildford was in May 2010 appointed Minister of State at the Foreign & Commonwealth Office, with responsibility for all FCO business in the House of Lords,

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the Commonwealth and international energy policy. Made a life peer in 1997, Lord Howell was Member of Parliament for Guildford from 1966 to 1997.

Lord Howell was born in January 1936 and educated at Eton. From 1954 to 1956 he was in the Armed Forces in the Second Battalion Coldstream Guards. He studied at King's College, Cambridge where he read economics. His first job was in HM Treasury (1959-60), before becoming a leader writer for the *Daily Telegraph* (1960-64).

He is the author of several books, including the best-selling "The Edge of Now", published in 2000. He has written regular columns for international newspapers including *The Japan Times* and the *International Herald Tribune*.

Positions held:

- Member of Parliament for Guildford, 1966-1997
- Parliamentary Secretary in the Civil Service Department, 1970-1972
- Parliamentary Under-Secretary of State at the Department of Employment, 1971-1972
- Parliamentary Under-Secretary of State at the Northern Ireland Office, 1972
- Minister of State at the Northern Ireland Office, 1972-1974
- Minister of State at the Department of Energy, 1974
- Secretary of State for Energy, 1979-1981
- Secretary of State for Transport, 1981-1983
- Opposition Spokesperson for Foreign & Commonwealth Affairs, 2000-2010
- Deputy Opposition Leader of the Lords, 2005-2010



**Sam Laidlaw**  
*Chief Executive*  
*Centrica plc*

Sam Laidlaw has been Chief Executive of Centrica plc since July 2006. Centrica is the parent company for "British Gas" and a significant gas producer and gas, nuclear and renewables electricity generator. Centrica has extensive operations in North America through its Direct Energy subsidiary. Centrica is positioned as the lowest-carbon supplier of the major energy suppliers in the UK and a leader of the green agenda.

Prior to that, from 2003 to 2006, Mr Laidlaw was Executive Vice President of Chevron Corporation and a member of Chevron's Executive Committee; he was responsible for new business worldwide as well as regional responsibility for Russia, the Middle East and North Africa.

In 2001-2002, Mr Laidlaw was Chief Executive of Enterprise Oil plc, Europe's largest independent oil and gas company which was sold to Shell in 2002. Before joining Enterprise as Chief Executive Mr Laidlaw spent 20 years with Amerada Hess after completing an MBA at INSEAD. In 1983 he became a Vice President responsible for Amerada Hess's North Sea business. In 1990 he became Executive Vice President responsible for all Amerada Hess's international business, and in 1995 he was President and Chief Operating Officer of Amerada Hess Corporation, an integrated Fortune 200 oil and gas company, a position he held until 2001 when he became Chief Executive of Enterprise Oil.

Mr Laidlaw is a non-executive director of HSBC Holdings plc, lead non-executive director on the board of the Department for Transport, a member of the Prime Minister's Business Advisory Group, Chairman of the CBI Higher Education Task Force, Chairman of the UK Council of INSEAD, a former Vice President of the Institute of Petroleum and a former non-executive director of Hanson plc. In addition to serving as a trustee of RAFT, a medical charity for burns and reconstructive surgery, he is a fellow of the Royal Society of Arts.

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### **Helge Lund**

*CEO  
Statoil ASA*

Helge Lund became CEO of Statoil in August 2004. He came to Statoil from Aker Kværner ASA where he was CEO. He joined Aker RGI Holding ASA in 1999, going on to hold central managerial positions in the Aker RGI system until his CEO appointment.

Mr Lund previously served as a political advisor to the Norwegian Conservative Party's parliamentary group. He has also worked as a consultant with McKinsey & Co. and was Deputy Managing Director of Nycomed Pharma AS.

Mr Lund has an MA in business economics from the Norwegian School of Economics & Business Administration (NHH) in Bergen and an MBA from INSEAD in France.

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### **Dr Henrik O. Madsen**

*CEO  
Det Norske Veritas*

Henrik O. Madsen has a PhD in civil and structural engineering from the Technical University of Denmark, where he also held a position as professor within structural mechanics.

Dr Madsen began his career in DNV in Oslo in 1982 as Chief Scientist in Structural Reliability Analysis. During the 1980s Dr Madsen led a large industry initiative to introduce Structural Reliability Methods in the standard-setting work of the oil and gas industry. In acknowledgement of this work, Dr Madsen was in 2002 elected to the US Offshore Energy Centre's Technology Hall of Fame as an Offshore Pioneer.

He has published several books and more than 80 papers on his fields of expertise.

Dr Madsen has headed all the major business areas in DNV as well as the Research Division. He

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has also served as Regional Manager in Japan and Denmark. In May 2006, Dr Madsen assumed the position as President and CEO of DNV. He introduced ambitious strategic goals for DNV to grow and focus its services towards selected industry sectors.

Dr Madsen's attention today is very much focused on environment and climate issues, and how DNV can contribute to a safe and sustainable future. He is a member of the World Business Council for Sustainable Development (WBCSD) and a member of the Focus Area Core Team for Energy and Climate.

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### **Professor Kishore Mahbubani**

*Dean, Lee Kuan Yew School of Public Policy  
National University of Singapore*

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Kishore Mahbubani is currently Dean and Professor in the Practice of Public Policy at the Lee Kuan Yew School of Public Policy at the National University of Singapore.

Before this, Professor Mahbubani served in the Singapore foreign ministry from 1971 to 2004, where he was Permanent Secretary from 1993 to 1998. He also served twice as Singapore's Ambassador to the UN.

Professor Mahbubani has spoken in all corners of the globe. He is also widely published, the author of "Can Asians Think?", "Beyond the Age of Innocence: Rebuilding Trust between America and the World", and "The New Asian Hemisphere: the Irresistible Shift of Global Power to the East". His articles have appeared in a wide range of journals and newspapers, including *Foreign Affairs*, *Foreign Policy*, *Time*, *Newsweek* and the *New York Times*.

A philosophy graduate from universities in Singapore and Canada, Professor Mahbubani served as a fellow at the Center for International Affairs at Harvard University from 1991 to 1992. He was awarded the Foreign Policy Association Medal in New York in June 2004. The following words were included in the citation: "A gifted diplomat, a student of history and philosophy, a provocative writer and an intuitive thinker."

He was listed as one of the top hundred public intellectuals in the world by *Foreign Policy* and *Prospect* magazines in September 2005 and was also included in the March 2009 *Financial Times* list of top 50 individuals (including Barack Obama, Wen Jiabao and Nicholas Sarkozy) who would shape the debate on the future of capitalism. Most recently, Professor Mahbubani was named by *Foreign Policy* in November 2010 as one of the top 100 global thinkers.

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## **Vikram Singh Mehta**

*Chairman  
Shell Group of Companies in India*

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Vikram Singh Mehta has been Chairman of the Shell Group of Companies in India since 1994. Prior to that he was with Shell in Egypt as the Managing Director for Shell Markets and Chemicals and in the head office in London.

Mr Mehta's career has alternated between the public and the private sector. He started his career as a member of the Indian civil service but resigned within two years to join Philips Petroleum in London and Bartlesville, Oklahoma. Between Philips and Shell he had a second stint with the government as advisor to Oil India, the government upstream company, as well as the Ministry of Petroleum.

Mr Mehta was awarded the Asian Business Leader Award by Asia House, London. He is on the board of trustees of the Fletcher School of Law & Diplomacy, Tufts University and the board of governors of the Pandit Deendayal Petroleum University in India. He is also a non-executive director of Colgate Palmolive India and the Indian Public Schools Society.

Mr Mehta has degrees in mathematics from Delhi University and in politics and economics from Magdalen College, Oxford University. He received his graduate degree in energy economics from the Fletcher School.



## **Harald Norvik**

*Independent advisor*

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Alongside serving as an independent advisor and consultant, Harald Norvik chairs the boards of Telenor and Aschehoug. He is also a member of the board of directors of ConocoPhillips and PGS.

Between 1988 and 1999 Mr Norvik was President and CEO of Statoil. Between 1981 and 1988 he was CFO of Aker Group, serving on its Executive Board. In 1976-79 he was Personal Advisor to the Prime Minister of Norway; and in 1979-81 he was Deputy Minister in the Norwegian Ministry of Petroleum & Energy.

Mr Norvik has a master's of science in business from the Norwegian School of Economics & Business Administration.

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### **Lord Oxburgh of Liverpool**

*Former Chairman, Shell*

*Former Chair, House of Lords Science & Technology Select Committee*

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Lord (Ron) Oxburgh of Liverpool trained as a geologist/geophysicist at the universities of Oxford and Princeton. He subsequently taught and researched in those disciplines at Oxford, Cambridge, Stanford and Caltech, also working as a consultant for the oil industry.

After a spell as President of Queens' College Cambridge, he joined the Civil Service as Chief Scientific Advisor to the Ministry of Defence (1987-1993) and chaired the investigation into the safety of UK nuclear weapons. From 1993 to 2001 he served as Rector of Imperial College.

Having been on the board of Shell for a number of years, Lord Oxburgh became Chairman in 2004 and oversaw the unification of Shell with Royal Dutch to form a single company 18 months later, at which point he stood down.

He is a fellow of the Royal Society and Royal Academy of Engineering and a Foreign Member of the US Academy of Sciences. He has served as President of the European Union of Geosciences, and of the British Association for the Advancement of Science. He has chaired the trustees of the Natural History Museum.

In 1999, Lord Oxburgh was created a life peer and for four years chaired the Science & Technology Select Committee of the House of Lords. He now an advisor on research and environmental matters to the government of Singapore and works with a number of organisations in the general field of energy and environment. He is President of the Carbon Capture & Storage Association, Chairman of Falck Renewables and an advisor to Climate Change Capital and to Deutsche Bank.



### **Thierry Pilenko**

*Chairman and CEO*

*Technip*

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Thierry Pilenko is Chairman and Chief Executive Officer of Technip, a world leader in engineering, technologies and project management for the oil and gas industry.

Before joining Technip in 2007, Mr Pilenko was Chairman and Chief Executive Officer of Veritas DGC, a seismic services company based in Houston. While at Veritas DGC he successfully managed its merger with the *Compagnie Générale de Géophysique*.

Prior to this appointment, Mr Pilenko held various management and executive positions with Schlumberger, where he started in 1984 as a geologist. He held several international positions in

Europe, Africa, the Middle East and Asia before becoming President of Schlumberger GeoQuest in Houston and subsequently Managing Director of SchlumbergerSema in Paris until 2004.

Mr Pilenko holds degrees from France's Nancy School of Geology (1981) and the IFP School (1982). He serves on the board of directors of Hercules Offshore.

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### **Terje Riis-Johansen**

*Norwegian Minister of Petroleum & Energy*

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Terje Riis-Johansen was appointed Norwegian Minister of Petroleum & Energy in June 2008. He represents the Centre Party in the coalition government headed by Prime Minister Jens Stoltenberg.

Mr Riis-Johansen was the Minister of Agriculture & Food until 2008. He was a member of parliament from 1993 to 1999, and from 1997 to 1999 he served as political advisor in the Ministry of Finance.

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### **Dr Stephen S. Roach**

*Senior Fellow, Jackson Institute for Global Affairs, Yale University  
Chairman, Morgan Stanley Asia*

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Stephen S. Roach is a member of the faculty of Yale University and Non-Executive Chairman of Morgan Stanley Asia. He has been a thought leader on Wall Street for over 30 years, where for the bulk of his career he served as Morgan Stanley's Chief Economist, heading up a highly regarded team of economists around the world.

Dr Roach's current research and teaching focuses on globalisation, the emergence of China and India, trade policy and the capital market implications of global imbalances. His views are disseminated widely in the international media and presented frequently in expert testimony before the US Congress.

Prior to joining Morgan Stanley in 1982, he worked in senior capacities at Morgan Guaranty Trust Company and the Federal Reserve Board in Washington DC. He holds a PhD in economics from New York University and was a research fellow at the Brookings Institution.

Dr Roach is currently recovering from chronic jet lag syndrome after having logged 1.2 million air miles during his recent three-year stint as Hong Kong-based Chairman of Morgan Stanley Asia. He is the author of "The Next Asia" (Wiley, 2009).

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## Professor Hans Rosling

*Professor of International Health, Karolinska Institute  
Co-founder, Gapminder Foundation*

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Hans Rosling is Professor of International Health at Karolinska Institute, the medical university in Stockholm, Sweden.

When working as a young doctor in Mozambique, Professor Rosling discovered a previously unrecognised paralytic disease that his research team named Konzo. His 20 years of research on global health have concerned the character of the links between economy and health in Africa, Asia and Latin America.

He has been an advisor to the World Health Organization and UNICEF; he co-founded Médecins sans Frontiers in Sweden; and he started new courses and published a textbook on global health. He is a member of the International Group of the Swedish Academy of Science and of the Global Agenda Network of the World Economic Forum in Switzerland.

Professor Rosling co-founded Gapminder Foundation ([www.gapminder.org](http://www.gapminder.org)) with his son and daughter-in-law. Gapminder promotes a fact-based worldview by converting international statistics into moving, interactive, understandable and enjoyable graphics. This was first done by developing the Trendalyzer software that Google acquired in 2007. Using animations of global trends, Professor Rosling lectures about past and contemporary economic, social and environmental changes in the world, and produces thematic videos using the same technique. His award-winning lectures on global trends have been labeled “humorous, yet deadly serious”, with many in the audience realising their own worldview is lagging by many decades.

Hans Rosling’s five points on global trends are:

1. There are no longer two types of countries in the world: the old division into industrialised and developing countries has been replaced by 192 countries on a continuum of socio-economic development.
2. Many Asian countries are now improving twice as fast as Europe ever did.
3. A new gap may form between 5 billion people moving towards healthy lives with education, mobile phones, electricity, washing machines and health service and more than 1 billion people stuck in the vicious circle of absolute poverty and disease.
4. So far all progress towards health and wealth has been achieved at the price of increased CO<sub>2</sub> emissions which is driving the imminent climate crisis.
5. There are reasons for optimism regarding the future of the world because the world is so poorly governed at present. Hence we have enormous opportunities to improve the life of all humans by turning our already converging world into an equal, secure, sustainable and free place to live in.



## **Shyam Saran**

*Former Indian Foreign Secretary*

*Former Special Envoy for the Indian Prime Minister on Climate Change*

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Shyam Saran is a career diplomat. Since joining the Indian Foreign Service in 1970, he has served in several capitals of the world including Beijing, Tokyo and Geneva. He has been India's Ambassador to Myanmar, Indonesia and Nepal and High Commissioner to Mauritius.

In the Ministry of External Affairs, New Delhi, Mr Saran headed the Economic Division, the Multilateral Economic Division and the East Asia Division, which handles relations with China and Japan. As a Joint Secretary in the Prime Minister's Office in 1991-92, he advised the Prime Minister on foreign policy, nuclear and defence-related issues.

In a career spanning 34 years in the Indian foreign service, Saran was appointed India's Foreign Secretary in 2004 and held that position until his retirement from service in September 2006.

Subsequent to his retirement, he was appointed Prime Minister's Special Envoy for Indo-US civil nuclear issues and later as special envoy and chief negotiator on climate change. He has now concluded his assignment in government and returned to being a private citizen.

During his last two assignments, Shyam Saran served as the Prime Minister's personal representative or "Sherpa" at the Gleneagles and St Petersburg G8+5 summits and was present at the Toyako and L'Aquila summits as an advisor on climate change issues. He also attended the Pittsburg G20 summit as a member of the Indian delegation.

Saran holds a post-graduate degree in economics. He speaks Hindi, English and Chinese and is conversant in French.



## **Klaus Schäfer**

*CEO*

*E.ON Ruhrgas AG*

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Klaus Schäfer was appointed CEO of E.ON Ruhrgas AG on 11 August 2010.

He has been working for the E.ON Group or its predecessor companies since 1996, lastly as CEO and President of E.ON Italia SpA. In this position he was responsible for integrating the Italian company operations acquired from Endesa into the E.ON Group as well as for the management of all E.ON activities in Italy under the roof of the newly founded E.ON Italia market unit.

Previously he had responsibility within the Group for numerous tasks in the strategy, municipal gas business, trade and sales areas. Among other posts held he was Chairman of the Board of Management of E.ON Sales & Trading GmbH, CFO of Thüga AG and Head of Corporate Strategy at E.ON AG.

Mr Schäfer started his professional career in investment banking at Morgan Stanley in London.

He studied business administration at Passau University where he completed his basic studies. He then changed to ESCP Europe Business School where he studied at the school's campuses in Paris, Oxford and Berlin and was awarded his Diplom-Kaufmann degree.



### **Professor Dan Sperling**

*Director of the Institute of Transportation Studies, University of California, Davis  
Member, California Air Resources Board*

Daniel Sperling is Professor of Civil Engineering & Environmental Science & Policy, as well as founding Director of the Institute of Transportation Studies at the University of California, Davis.

Professor Sperling also serves on the California Air Resources Board, which is responsible for climate policies and regulations for the state. He is author or editor of 200+ papers and reports as well as 12 books (including "Two Billion Cars", Oxford University Press). He has served on 12 National Academies committees, was selected as a National Associate of the National Academies, recently chaired the Future of Mobility committee of the (Davos) World Economic Forum, and advises senior executives at various international energy and automotive companies.

He has testified seven times to the US Congress on alternative fuels and advanced vehicle technology. He has been featured on Jon Stewart's Daily Show and NPR's Science Friday and Fresh Air. He received the prestigious 2010 Heinz Award for his "achievements in the research of alternative transportation fuels and his responsibility for the adoption of cleaner transportation policies in California and across the United States."



### **Professor Jonathan Stern**

*Director, Gas Research  
Oxford Institute for Energy Studies*

Jonathan Stern is Director of Gas Research at the Oxford Institute for Energy Studies; Honorary Professor at the Centre for Energy, Petroleum & Mineral Law & Policy, University of Dundee; and Visiting Professor at Imperial College's Centre for Environmental Policy in London. Over the past

two decades Professor Stern has become an internationally known speaker and author on natural gas and security and pricing issues in Europe, the former Soviet Union and Asia.

He is the author of several books and many shorter works on energy and natural gas issues in the UK, Europe (western and eastern), the former Soviet Union and Asia. His paper “Continental European Long Term Gas Contracts: is a transition away from oil product-linked pricing inevitable and imminent?” (published in September 2009) can be found on the OIES website. He is the co-editor (with Bassam Fattouh) of “Natural Gas Markets in the Middle East and North Africa”, to be published by Oxford University Press in 2011.



**Andy Swiger**

*Senior Vice President  
Exxon Mobil Corporation*

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Andrew P. Swiger is Senior Vice President of Exxon Mobil Corporation and a member of the corporation’s Management Committee.

Originally from Washington DC, Mr Swiger holds a bachelor of science degree in petroleum engineering from the Colorado School of Mines. He joined the company in 1978 in Morgan City, Louisiana, followed by a series of upstream assignments in Africa, Europe and North America.

Mr Swiger has also worked in downstream operations, serving as General Manager of Manufacturing at the company’s Singapore refinery and petrochemical plant.

In 2001, Mr Swiger was appointed Vice President for Africa, and in 2003 he was named Vice President with responsibility for production in the Europe/Caspian/Russia region.

Mr Swiger was named Executive Vice President of ExxonMobil Production Company in 2004. He served in that capacity until being named President of ExxonMobil Gas & Power Marketing in 2006, a position he held until being elected Senior Vice President of the corporation in 2009.

He also serves on the board of the United Negro College Fund (UNCF) and is a member of the advisory board of the Center for Strategic & International Studies (CSIS).

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