

Accelerate and Scale at The Bellona Pavilion

Glasgow, 1 - 12 Nov. 2021



BELLONA

AKER HORIZONS

SAHARA
FOREST
PROJECT



Norwegian Ministry
of Foreign Affairs

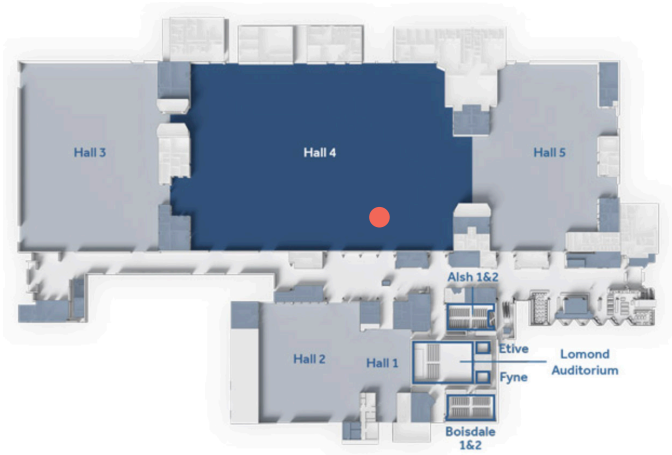
Accelerating and Scaling Up Climate Solutions

COP26 is branded the most important climate summit of our time, as climate action is critical to keep the 1,5 degree target alive. Many solutions are available but not yet moving the needle. At our pavilion, the emphasis is on accelerating development of climate solutions and scaling up rapidly.

The pavilion is hosted by The Bellona Foundation, in collaboration with Sahara Forest Project Foundation, Aker Horizons and the Norwegian Ministry of Foreign Affairs. We firmly believe that solving the climate crisis requires a shared effort between public sector, private sector, academia and civil society. At the pavilion we will be hosting events covering technology, policy, finance, human rights, health, and more, with a broad range of participants.

Bellona in brief

The Bellona Foundation is an international environmental NGO working on major climate and environmental problems. Founded in 1986 as a direct action protest group, Bellona has become a recognised technology and solution-oriented organization with offices in Oslo, Brussels, Berlin, St. Petersburg and Murmansk, and representatives in the USA, UK and several EU Member States. The Bellona staff has expertise on a broad range of issues, and comprises some 70 engineers, ecologists, biologists, economists, lawyers, political scientists and journalists.



Find the Bellona Pavilion in the Blue Zone
at no. 63 in Hall 4 of the Scottish Event Campus



For updated program,
use the following QR-code

Monday, 1 November

14:00 - 14:30 (TBC)

Grand opening of the Pavilion

Formal opening of the Pavilion, a collaboration between the Bellona Foundation, Sahara Forest Project Foundation, Aker Horizons and the Norwegian Ministry of Foreign Affairs.

Speakers

- Jonas Gahr Støre, Prime Minister of Norway
- Frederic Hauge, President, Bellona Foundation
- Kristian Røkke, CEO, Aker Horizons
- Kjetil Stake, Managing Director, Sahara Forest Project

17:00 - 18:00

Sahara Forest Project in Jordan – Enabling Restorative Growth

The Sahara Forest Project is revegetating desert areas and creating green jobs through profitable production of food, freshwater, biomass and clean energy. Using sunlight, saltwater, CO₂ and desert areas as main input factors, the unique concept serves as an action-oriented example of how using available agri-tech solutions can rethink opportunities in deserts in many countries.

Speakers

- Kjetil Stake, Managing Director, Sahara Forest Project
- Ruba al-Zubi, Representative Amman, Sahara Forest Project
- Frederic Hauge, President, Bellona Foundation

Hosted by the Sahara Forest Project Foundation



Tuesday, 2 November

11:00 - 12:30

Launch of SINTEF Global Climate Fund: How do we finance Net Zero solutions?

The climate crisis represents a fundamental challenge for the world society. We are already late – to meet the targets in the Paris Agreement, cutting emissions will not be enough. We need climate positive solutions, where we actively remove greenhouse gases from the atmosphere. This is the backdrop for the new SINTEF Global Climate Fund, which shall invest in the most promising climate positive research and innovation projects critical for our ability to preserve the environment, climate and all living species.

In this event, SINTEF CEO Ms Alexandra Bech Gjørsv will talk to leading experts from the finance and technology sector, as well as civil society, about the need for innovative climate positive solutions and the urgency to start investing in them.

Speakers

- Jonas Gahr Støre, Prime Minister of Norway (TBC)
- Espen Barth Eide, Minister of Climate and Environment of Norway (TBC)
- Dr. Fatih Birol, Director General, IEA (TBC)
- Frederic Hauge, President, Bellona Foundation

Panel moderated by Alexandra Bech Gjørsv, President and CEO of SINTEF

13:30 - 14:30

Clean Construction: How do we get to zero emissions?

Moving towards zero emission in construction of buildings and infrastructure is critical to meeting the Paris agreement targets. Challenging emissions in construction involves the entire supply chain, which includes major global industries such as cement and steel. New climate strategies for built environment can thus lead to transformational change across sectors. How can we drive markets more rapidly towards zero emission solutions? And what is the role of local and national government, and of the financial institutions, in driving this change?

Speakers

- Jonathan Pershing, Deputy US Special Envoy on Climate Change (TBC)
- Frederic Hauge, President, Bellona Foundation
- Raymond Johansen, Governing Mayor of Oslo
- Claudia López, Mayor of Bogotá
- Cristina Gamboa, CEO, World Green Building Council (TBC)

Panel moderated by Christian Eriksen, Head of Policy and Research at the Bellona Foundation.

15:30 - 16:30

Climate change and health – what is at stake for Europe?

There is an increased attention to the health consequences of climate change, and on the health co-benefits of reducing greenhouse gas emissions. We believe highlighting the link between climate change and health has the potential to mobilise new groups of citizens for climate action. In this session we will get a presentation of current research in the field and a conversation on policy implications for Europe.

Speakers

- Kristin Aunan, Research Director, CICERO Center for international climate research
- Marina Romanello, Research Director, Lancet Countdown: Health co-benefits of mitigation
- Member of European Parliament (TBC)
- Espen Barth Eide, Minister of Climate and Environment, Norway (TBC)



Wednesday, 3 November

10:00 - 11:00

Green Finance Matchmaking

Markets are flooded with green capital; the problem is access to green projects that are bankable and good investments. That's why we need finance to demand "a race to zero", a chain of bold decisions top-down – that ultimately lead to emissions reductions from the world's biggest sources – energy, steel, cement, aluminium, transport and more.

Speakers

- Aker Horizons
- Speakers from the finance sector TBC

15:00 - 16:00

Fighting climate change through human rights law

Several national courts and international bodies have established State responsibility for climate harm towards individuals abroad or future generations. To what extent can international human rights law, and the European Convention on Human Rights in particular, encompass these overarching consequences of States' greenhouse gas emissions?

Speakers

- Jenny Sandvig, Chief Policy Director, Norwegian National Human Rights Institution (NIM)
- Professor Christina Voigt, University of Oslo
- Lucy Maxwell, Senior legal associate, Urgenda Foundation

17:15 - 18:45

International Ripple Effects of the EU Sustainable Finance Taxonomy

A prerequisite to reaching the set aims of the Paris Agreement is to shift capital to sustainable investments. To this end, the EU Sustainable Finance Taxonomy has caused quite the stir within the EU. But how has it been received internationally? And what international ramifications and ripple effects can the EU classification system for sustainable economic activities have? These are some of the questions up for discussion at Bellona's COP26 event on sustainable finance. Join us for a rapid panel followed by networking and drinks.

Speakers

- Graeme Sweeney, Chairman, Zero Emissions Platform
- Frederic Hauge, President, Bellona Foundation
- Peter Fox-Penner, Energy Impact Partners
- Sean Kidney, Climate Bonds Initiative
- Moderated by Federica De Sario, Carbon Pulse



121 Solutions

Reaching Net Zero by 2050 – and moving into carbon negative territory – requires implementing new solutions in every sector, in every part of the economy. It will require a mammoth effort but it can be done. Bellona presented 101 Solutions at COP15 in Copenhagen in 2009. In 2021, we present 121 Solutions for the 21st Century. These solutions each solve specific climate and environmental problems. Together, they bring us closer to the target.

While 121 is a lot to take in, their 5 fundamental requirements are simpler to comprehend. Our solutions are based on 5 pieces that are crucial to the Net Zero puzzle: Access to zero-carbon electricity, transport and storage infrastructure for CO₂, access to minerals and resources, production of sustainable biomass, and cradle-to-grave accounting for CO₂ and resource use.

Join us at the Pavilion for discussions on climate solutions and how to accelerate and scale.

Thursday, 4 November

12:00 - 13:30

Northern Horizons Launch

The launch of a flagship report showcasing the potential to harness the power of the North Sea through offshore renewable energy generation in Scotland.

Speakers

- Sian Lloyd-Rees, UK Managing Director, Aker Offshore Wind
- Knut Nyborg, CEO, Aker Clean Hydrogen
- Ditlev Engel, CEO, DNV Energy Solutions

15:00 - 16:30

Elevating Gender in Climate Solutions

With climate shocks posing a significant threat to the livelihoods of women and girls, women- and youth-led solutions that build climate resilience are vital to the health and rights of communities globally. However, solutions and action for climate are often male-driven. With climate change directly affecting women it is imperative they are represented in the development and implementation of solutions.

Speakers

- Anne Beathe Tvinnereim, Minister of International Development, Norway (TBC)

- Barbara Merz, Managing Director, Pathfinder International
- Dan Kammen, USAID (TBC)
- Ruba Al-Zubi, Sahara Forest Project Representative in Jordan (Via video)
- Frederic Hauge, President, Bellona Foundation

17:00 - 18:30

The role of CCS in reaching net zero by 2050

Countries and regions continue to pledge net zero emissions by 2050, for which deployment of a range of climate mitigation efforts and technologies are necessary. The IEA report "Net Zero by 2050" calls for widespread deployment of CCS technologies. In this event, leading scientists and high-level experts will shed light on how CCS technologies can not only reduce emissions but also remove CO₂ from the atmosphere. Ways to build solid business cases and transferring CCS technology to developing countries will also be presented.

Speakers

- Dr. Fatih Birol, Director General, IEA (TBC)
- Dr. Jennifer Wilcox, Acting Assistant Secretary for Fossil Energy and Carbon Management, US DoE (TBC)
- Frederic Hauge, President, The Bellona Foundation
- Valborg Lundegaard, CEO, Aker Carbon Capture
- Fridtjof Unander, Executive director, The Research Council of Norway
- Nils A. Røkke, Executive Vice President Sustainability, SINTEF

Friday, 5 November

10:00 - 11:30

Just Transition for High Carbon Industry

The decarbonisation of industry requires a reinvention of production processes with access to a vast new network of climate infrastructures delivering low-carbon electricity, energy carriers, feedstock and abatement solutions. How can we realise this major transformation of our economy in a way that sees new opportunities, jobs and growth return to our industrial heartlands and beyond? How can government enable climate leadership in an industry that remains competitive today and gains an advantage tomorrow? And how can we deliver the new climate infrastructures as the backbone of the net-zero economy at the right scale, pace and price?

In two panel discussions, we will discuss the plans and actions to achieve a Just Transition for high carbon industries, the potentials of 'Building back better' and 'levelling up' agendas, and the international opportunities around the provision of net-zero climate infrastructures.

Speakers

- Nick Molho, Executive Director, Aldersgate Group
- Karin Turner, Director, Centre for Energy Policy
- Cecile Faraud, Clean Construction Programme Manager, C40 Cities Climate Leadership Group

- Lee Beck, International Director for Carbon Capture, Clean Air Task Force
- Jane Cooper, Director of Regulatory and External Affairs, Ørsted
- Hilde Tonne, CEO, Statnett
- Cordi O'Hara, President, National Grid Ventures
- Andy Lane, Managing Director, Net-Zero Teesside
- Luciana Miu, Senior researcher, EPG
- Anne-Beth Skrede, Special advisor, Norwegian Confederation of Trade Unions (LO)
- Ane Gjengedal, Advisor, Norwegian Ministry of Petroleum and Energy
- Justus Andreas, Senior Policy Manager, Bellona

Panels moderated by Dr. Graeme Sweeney, Chairman of Zero Emissions Platform (ZEP).



Monday, 8 November

12:00 - 13:30

Development assistance in support of the Paris agreement

Several development agencies have recently taken steps to ensure that their assistance is more aligned with the Paris agreement. This event will bring actors together to discuss how development assistance can be consistent with a pathway towards low GHG emissions and climate-resilient development, what development agencies can do to reduce their own emissions, and how enhanced collaboration can advance the climate and nature agenda in development cooperation.

The event is hosted by Norad, Norwegian Agency for Development Cooperation.

14:00 - 15:00

The realistic deployment potential of Carbon Dioxide Removal

Much of the discussion on Carbon Dioxide Removal stems from the need to deploy it at significant scales, often ignoring the potential constraints to its deployment. This event will explore the latest research on the realistic deployment potential of Carbon Dioxide Removal with leading academics and experts from the NEGEM project, among them Professor Myles Allen, dubbed by the BBC as 'the physicist behind net zero'.

Speakers

- Professor Wolfgang Lucht, Potsdam Institute for Climate Impact Research
- Professor Myles Allen, University of Oxford
- Kati Koponen, Research scientist, VTT Technical Research Centre of Finland

Panel moderated by policy advisor Mark Preston Aragonès, Bellona.

16:00 - 17:00

Guiding principles for Carbon Dioxide Removal

What is Carbon Dioxide Removal? How does it interact with reducing emissions? This event will address some common misconceptions and identify principles which can guide the conversation on Carbon Dioxide Removal to ensure it is properly defined, accounted and governed to help accelerate climate action.

Speakers

- Professor Andrea Ramirez, TU Delft
- Gilles Dufrasne, Policy officer, Carbon Market Watch
- Frances Wang, Program manager CDR, ClimateWorks
- Matthias Honegger, Senior consultant, Perspectives Climate Group

Panel moderated by Director Jonas Helseth, Bellona.

Tuesday, 9 November

13:00 - 14:30

The North Sea as a springboard for the Green Transition

The nations bordering the North Sea have long benefited from its bounty. Now these countries, along with the rest of the world, stand before a challenge on a scale never seen before. North Sea countries have a unique opportunity to use their knowledge and expertise about the area to implement novel solutions to the climate crisis. This event will present a document co-signed by scientists associated with four international research centres on CCS, offshore wind, low-emission technology and energy transition.

Speakers

Science panel:

- Stefania Gardarsdottir, Director LowEmission, Research manager SINTEF
- Mona Mølnvik, Director Norwegian CCS Research Centre, Research director, SINTEF
- John Olav Tande, Director NorthWind, Chief scientist SINTEF
- Professor Asgeir Tomasgard, Director NTRANS, NTNU
- Olimpo Anaya-Lara, Professor, University of Strathclyde
- Arno van Wingerde, Chief Scientist, Fraunhofer Institute for Wind Energy Systems
- Roberta Veronezi Figueiredo, Research Scientist, TNO

- DTU (TBC)
- TNO/Wind (TBC)

Industry and NGO panel:

- Sian Lloyd Rees, UK Managing Director, Aker Offshore Wind
- Frederic Hauge, , President, Bellona Foundation

Political panel:

- Espen Barth Eide, Norwegian Minister of climate and environment (TBC)

Panels moderated by Nils Røkke, EVP Sustainability, SINTEF.

14:00 - 15:30

Carbon Takeback: Producer Responsibility for Oil & Gas

This Oxford Net-Zero discussion is on the concept of a 'Carbon Takeback Obligation', a supply-side measure which places producer responsibility onto companies that extract fossil fuels. After an introduction to the concept, a panel discussion with civil society organisations, government and industry will provide their perspectives on the proposal.

Speakers

- Professor Myles Allen, University of Oxford
- Margriet Kuijper, climate policy consultant on carbon takeback
- Dr. Katherine Romanak, Research scientist, University of Texas
- Lee Beck, International Director for Carbon Capture, Clean Air Task Force
- Marjolein Demmers, Director, Natuur & Milieu

Panel moderated by Gabrielle Walker.

16:00 - 17:30

Climate accounting guide: How to spot false climate action claims?

Consumers and investors increasingly want to purchase and invest into goods and services that are carbon neutral. How do we ensure that they have reliable, comparable and verifiable

information on the climate impacts of different products, technologies, services, and organisations to make informed purchases and investments? This event will take the discussion on climate claims back to climate physics – and provide a simple accounting guide by focusing on the physical flows of carbon emissions into the atmosphere.

Speakers

- Ana Serdoner, Industry policy manager, Bellona Foundation
- Professor Jean-Pascal van Ypersele, UCLouvain (TBC)
- Hermann Ott, Head of German office, Client Earth
- Murray Worthy, Gas Campaign leader, Global Witness
- EU representative (TBC)

Panel moderated by Theo Mitchell, Head of UK and Europe, Children's Investment Fund Foundation



Wednesday, 10 November

10:00 - 11:30

Green Shipping Studio

A panel discussion exploring the role of clean hydrogen and ammonia to decarbonise the global shipping industry with a case study from the Arctic.

Speakers

- Stein Nestvold, Head of Policy & Sustainability, Aker Clean Hydrogen
- Nils Røkke, EVP Sustainability, SINTEF

12:00 - 13:00

The route to zero emission aviation: from take-off to landing

This is the decade when the first commercial zero emission aircraft will enter into service. New modes of transportation and disruptive technologies will change the aviation industry as we know it – cutting emissions, creating new business opportunities, and improving connectivity for the communities it serves. Where is the technology today and what are the policies, regulations, and funding necessary to transform this industry tomorrow?

Speakers

- Widerøe Zero
- Rolls Royce
- Partners on Zero Emissions Aviation

14:00 - 15:30 (TBC)

Addressing the Chicken and Egg Dilemma - What does it take to scale-up the supply infrastructure for zero-emission fuels?

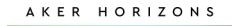
The decarbonization of international shipping hinges on the timely availability and scale up of green fuels, including necessary infrastructure. The objective of this event is to discuss how the energy and maritime industries can coordinate and jointly ensure sufficient supply and demand for green fuels towards 2030 and 2050, as well as the commitment and next steps needed to accelerate a systemic transition in line with the Paris Agreement.

Speakers

- Rikke Wetter Olufsen, Chair of the Executive Committee and Deputy Director General of the Danish Maritime Authority
- Additional industry representatives and policymakers TBC

Panel moderated by Mads Peter Zacho, Head of Industry Transition, Maersk McKinney Møller Center for Zero Carbon Shipping.

Main pavilion partners



Bellona also wishes to thank the following supporters:



Bellona wishes to thank the following partners:



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