



Department
for Transport



Department for
Business, Energy
& Industrial Strategy

Jet Zero Council – Second Session

11:00 – 12:00, Tuesday 16th March 2021

Virtual Meeting

Attendees

Ministerial attendance

- Rt Hon Grant Shapps MP, Secretary of State for Transport, Joint Chair
- Rt Hon Kwasi Kwarteng MP, Secretary of State for Business, Energy, and Industrial Strategy, Joint Chair
- Andrew Griffith MP, UK Net Zero Business Champion
- Robert Courts MP, Parliamentary Under Secretary of State for Transport
- Rachel Maclean MP, Parliamentary Under Secretary of State for Transport
- Paul Scully MP, Parliamentary Under Secretary of State for Business, Energy and Industrial Strategy

Jet Zero Council CEO

- Emma Gilthorpe, Chief Operating Officer, Heathrow

Member attendance

- Dr Alicia Greated, Chief Executive Officer, Knowledge Transfer Network (KTN)
- Anna Mascolo, President of Global Aviation, Shell
- Dawn Wilson, Managing Director, TUI Airways
- Dom Hallas, Executive Director, The Coalition for a Digital Economy
- Gary Elliott, Chief Executive Officer, Aerospace Technology Institute (ATI) (and Jet Zero Council Zero-Emission Aircraft Delivery Group Chair)
- Professor Iain Gray, Director of Aerospace, Cranfield University
- Dr Jennifer Holmgren, Chief Executive Officer, LanzaTech
- Johan Lundgren, Chief Executive Officer, easyJet
- John Holland-Kaye, Chief Executive Officer, Heathrow
- Jonathon Counsell, Group Head of Sustainability, International Airlines Group (IAG) (and Jet Zero Council Sustainable Aviation Fuels Delivery Group Chair)
- Jonathan Hinkles, Chief Executive, LoganAir
- Julie Kitcher, Executive Vice President Communications and Corporate Affairs, Airbus

- Kyle Martin, Vice President, European Affairs, General Aviation Manufacturers Association
- Sir Mike Wigston KCB CBE ADC, Air Chief Marshal, Royal Air Force (RAF)
- Neville Hargreaves, Vice President, Waste to Fuels, Velocys
- Nina Skorupska CBE, Chief Executive, The Association for Renewable Energy and Clean Technology (REA)
- Paul Stein, Chief Technology Officer, Rolls-Royce
- Peter Mather, UK Head of Country and Senior Vice President for Europe, BP
- Richard Moriarty, Chief Executive Officer, Civil Aviation Authority (CAA)
- Russ Dunn, Chief Technology Officer and Head of Strategy, GKN Aerospace
- Sean Doyle, Chief Executive Officer, British Airways
- Shai Weiss, Chief Executive Officer, Virgin Atlantic
- Simon Crabtree, Investment Manager, Mercia Asset Management
- Tim Hawkins, Chief of Staff, Manchester Airport Group (MAG) - deputising for Charlie Cornish, Chief Executive Officer
- Tim Johnson, Director, Aviation Environment Federation (AEF)
- Tony Wood, Chief Executive, Meggitt and ADS President
- Trevor Woods, Independent Consultant
- Val Miftakhov, Chief Executive Officer, ZeroAvia

Department for Transport official attendance

- Rannia Leontaridi, Director, Aviation
- Holly Greig, Deputy Director, Aviation Decarbonisation Division
- Rachel Solomon Williams, Deputy Director, Low Carbon Fuels

Department for Business, Energy and Industrial Strategy official attendance

- Paul Griffiths, Deputy Director, Aerospace Team

Additional Attendees

- Jet Zero Council Secretariat
- Ministerial Private Secretaries & Special Advisers

Actions

- Council to send any further comments on the Terms of Reference to the Jet Zero Council (JZC) Secretariat.
- Council members to sign up to the '*Race to Zero*' Campaign where applicable.
- HMG to ensure that Council meetings take place regularly, with the next meeting in June.
- HMG to circulate slides to the members.
- HMG and CEO to investigate routes of sharing documents and information between Council members and other interested stakeholders.
- JZC CEO to setup a steering group and present a skeleton of priorities for the JZC for the next two years.

Summary of Meeting

- Three new members joined the Council, and the new JZC CEO was introduced, whose focus is to drive forward the delivery of the JZC workstreams.
- The JZC Terms of Reference were updated to reflect the Council's aim to see zero-emission flight across the Atlantic within a generation.
- A new 'Forward Look' crystallises the work of the Council for the next 12 months, including wider work on COP26 and HMG policy.
- The Council received progress updates from the SAF Delivery Group, which has met eight times to consider how to make SAF production a reality in the UK, and from the ATI on zero emission aircraft technology and the FlyZero project.

Readout

1. Opening remarks and introduction of the new members, of the Jet Zero Council, new CEO and outline of role and responsibilities

The Secretary of State for Transport welcomed new members of the Council, Sir Mike Wigston KCB CBE ADC, Air Chief Marshal, RAF; Richard Moriarty, Chief Executive Officer, CAA; and Andrew Griffith MP, UK Net Zero Business Champion.

He outlined the Council's aim to enable zero-emission passenger flight across the Atlantic within our generation. He stressed the social and economic benefits of flying, but stressed the need to meet net zero targets. He said that the progress that had been made since the previous meeting, but highlighted that the Council needed additional drive to make headway. To that end, he introduced Emma Gilthorpe, Chief Operating Officer of Heathrow Airport, as the JZC CEO.

The JZC CEO thanked the Secretaries of State for her appointment and introduced herself. She said that from her discussions with members there was clear momentum to drive the agenda of the Council forward. She stated that her focus would be to develop a two-year plan and set of agreed priorities for the JZC. To ensure the Council delivers at pace, she would convene a CEO Steering Group between the full JZC meetings, with an initial meeting in May that year.

2. Actions from last meeting

The Secretary of State for Transport ran through the actions from the first Council meeting, which were all complete.

He presented proposed updates to the JZC Terms of Reference to reflect the aim of the Council to see zero-emission flight across the Atlantic within a generation. The proposed updates were agreed by the Council.

3. Jet Zero Council forward look

Holly Greig, Deputy Director, Aviation Decarbonisation Division, DfT and Paul Griffiths, Deputy Director, Aerospace Team, BEIS jointly gave an overview of the JZC forward look, which sets out the plan for the following 12 months.

Key discussion points included:

- The JZC CEO highlighted plans to chair a CEO Steering Group between each JZC meeting to keep momentum going throughout the year.
- Dr Alicia Greated, Chief Executive Officer, KTN said that members were keen that interactions between the workstreams were facilitated, with opportunities to feed into Delivery Groups, and stock-takes between meetings. KTN offered support to deliver this. The Secretariat agreed to work up proposals with the JZC CEO to facilitate communications between Council members and with the sector more widely.
- Members highlighted the progress made through the Delivery Groups since the last meeting, and industry-wide work on developing a draft 'action plan'. It was suggested that unlocking a few key steps on the forward look would release pent-up investment demand and allow further progress.
- Tony Wood, Chief Executive, Meggitt and ADS President cited the importance of securing an uplift to the ATI programme budget which has a clear roadmap and return for investment, and highlighted that industry were ready to invest.
- Russ Dunn, Chief Technology Officer and Head of Strategy, GKN Aerospace said that there are opportunities over the following months to engage at international level via the G7 and COP26.
- Dr Alicia Greated, Chief Executive Officer, KTN highlighted the links with the Government's Innovation Strategy and the importance of ensuring this would be considered alongside the needs of the JZC.

The Secretary of State for Business, Energy, and Industrial Strategy introduced himself to the Council. He agreed that considering links with the Innovation Strategy will be important to the success of the JZC.

The Secretary of State for Transport highlighted that they could not have wished for more ministerial attention on this Council, including support from the Prime Minister. He stated that they have everything on their side to drive this work forward with the industry.

4. Progress updates on key workstreams:

a. Sustainable Aviation Fuels (SAF) Delivery Group

Jonathon Counsell, Group Head of Sustainability, IAG and JZC SAF Delivery Group Chair gave an update. He outlined the SAF Delivery Group's aims to make SAF production a reality in the UK.

The first SAF Delivery Group met in November of the previous year, to discuss the level of ambition and objectives, and agreed to the establishment of four subgroups with broad representation across industry (with approximately 70 organisations across the groups). Eight workshops have taken place and meetings have been set up for the coming year.

The subgroups are as follows:

- **Mandate** – led by Matt Gorman, Heathrow; to consider the appropriate level of ambition for a UK SAF mandate to inform the consultation that would follow. Two workshops have taken place so far.
- **Technology**– led by Mercedes Maroto-Valer, Herriot-Watt University; to consider the technologies and feedstocks with the greatest potential for the UK and the role of innovation.
- **Commercialisation** – led by Dave Smith, Rolls-Royce; to consider the mechanisms required to commercialise SAF.
- **COP26** – led by Leigh Hudson, British Airways; to assess the feasibility and logistics of supplying SAF at COP26 airports.

b. Zero-Emissions Aircraft Technology

Gary Elliott, Chief Executive Officer, ATI and JZC Zero-Emission Aircraft Delivery Group Chair gave an update on the ATI's work to accelerate zero-emission aircraft technology.

He highlighted the work of the ATI's FlyZero project which would assess the UK's potential to develop 3rd generation aerospace technologies. The project started late in the previous year, and a team had been recruited which was undertaking "sprints" on non-kerosene propulsion options; he aimed to deliver conclusions and a 'launch plan' within 12 months. He said that that new technologies provided an opportunity for the UK to forge ahead of the international competition and maintain its leadership in aerospace technology, but with long lead times in technology development and significant unknowns in their pathways it was critical that they invested immediately to deliver the maximum economic and environmental impacts. He said that the importance of affirming the ATI's budget for future years to preserve these opportunities.

Members discussed the updates on both workstreams. Key points were:

- Johan Lundgren, Chief Executive Officer, easyJet stated that the Council need to assess the suitability of different technologies (SAF vs zero emission), and how they can be best deployed to achieve the 2050 goal. The decisions they make in the present need to ensure the best return on investment.
- Paul Stein, Chief Technology Officer, Rolls-Royce said that industry tangible plans to industrialise SAF and zero emission technologies, as outlined in the forthcoming industry 'net zero action plan' (e.g. 100% SAF flight and electric airspeed record). There was also a need to understand the extent of support required to scale up SAF which requires a massive industrialisation and repurposing of capital.

- Anna Mascolo, President of Global Aviation, Shell said that there must be prioritisation of the workstreams and a focus upon any impactful changes that these may bring. She flagged that bringing SAF to airports could be disruptive for industry.
- The Secretary of State for Transport reaffirmed that the role of the Council was to provide leadership, set the pace and timescales for delivery and to coordinate industry moving in the same direction towards net zero by 2050.
- Sir Mike Wigston KCB CBE ADC, Air Chief Marshal, RAF queried how all the various activities are being brought together and to consider when commercialisation and deployment would be most appropriate

5. Closing remarks

The Secretary of State for Business, Energy, and Industrial Strategy recommended that the next meeting be held in June that year to sustain momentum. He highlighted points made throughout on the importance of the Council's forward plan and developing the milestones to ensure they remained on track.

He introduced Andrew Griffith MP, UK Net Zero Business Champion, who encouraged Council members to sign up to the '*Race to Zero*' campaign in advance of COP26, showcase their work and engage with their supply chains.

6. AOB

Paul Stein, Chief Technology Officer, Rolls-Royce said that they have been working across industry to develop a "net zero action plan" which considers SAF, electric and hydrogen technologies and the economic conditions to achieve their net zero commitments. Industry would maintain this as a live document and ensure that it aligns with the Ten Point Plan.

The Secretary of State for Transport thanked everyone for attending and encouraged members to raise further points and questions via the secretariat.