

Energy Innovation Board Summary Note

3rd May 2018

Attendees

(Only Senior Civil Servants named)

Board members and alternates: **Patrick Vallance**, Government Chief Scientific Adviser and Chair; **John Loughhead**, BEIS Chief Scientific Advisor; **Ian Meikle**, Innovate UK Director of Infrastructure Systems; **Charlotte Watts**, DFID Chief Scientific Adviser; **Ian Boyd**, DEFRA Chief Scientific Advisor; **Neil Ebenezer**, DfT Head of Science and Innovation; **Min Zhu**, Ofgem Associate Partner; **Tom Rodden**, EPSRC Deputy CEO; **Mark Taylor**, BEIS Deputy Director Energy Innovation.

Observers: HMT Climate Change Policy Advisor; HSE Head of Strategic Development; **Matthew Billson**, EIB Secretariat; **Ron Loveland**, Welsh Government; **Rita Wadey**, BEIS Deputy Director Hydrogen Economy; Officials, GO-Science; Officials, Carbon Capture & Storage, BEIS.

Agenda

Thematic Review on Carbon Capture and Storage

BEIS provided a paper and presented it to the Board. There are three themes which Government will be focusing on for Carbon Capture Usage and Storage (CCUS):

- Progress on the commitment to deploying CCUS in the UK, subject to cost reduction;
- Collaboration with international partners to drive down the cost and accelerate deployment of CCUS; and
- Investing in CCUS innovation to support cost reduction and deployment in the UK.

The Board noted that the CCUS Cost Challenge Taskforce was set up in February 2018. A report will be delivered to the Government in relation to cost reduction potential and innovation opportunities. This report is expected in July and it was suggested that the Board receives a further update after the report is available. In addition, the CCS Council has now been established.

EPSRC highlighted the activity of the Research Councils on CCUS and the related area of Greenhouse Gas Removal (GGR) technologies. BEIS is investing £35m on CCUS innovation. The Board also welcomed the international collaboration underway through routes such as Mission Innovation. The Board agreed the focus and level of innovation spend was currently appropriate but should be revisited once the CCUS Cost Challenge Taskforce has reported.

Hydrogen Innovation

BEIS provided a paper and presented it to the Board. There is significant activity in Hydrogen especially around the chemicals industry. On the international level, many countries are in the scoping phase, for example Germany are thinking about using Hydrogen to decarbonise the steel sector. There is the possibility of using ammonia as a carrier for Hydrogen.

The BEIS Energy Innovation Programme includes several workstreams on hydrogen including the Industrial Fuel Switching program, which will support early investment by large industrial facilities to switch away from coal to lower carbon fuels including hydrogen. DfT mentioned that hydrogen fuel cell electric vehicles are at an earlier stage than battery electric vehicles. Currently there are suppliers in this sector but more dialogue between them is required.

AOB

UKRI gave an update on ISCF Wave 3.