



INDUSTRIAL STRATEGY

UK Research and Innovation

GREEN GB WEEK

# TECHNOLOGIES OF THE FUTURE

16 OCTOBER 2018, COUNTY HALL WESTMINSTER

08:30 - 09:00

## REGISTRATION



ROOM  
WATERLOO

09:00 - 09:30

## WELCOME AND OPENING ADDRESS

Ian Meikle, Director- Clean Growth and Infrastructure, Innovate UK.

### PRESENTATION:

Insight into the IPCC special report on 1.5 degrees and its implications on UK businesses

### SPEAKER:

**Sir David King**, Former CSA and Foreign secretary's special representative for Climate Change, SYSTEMIQ

ROOM  
WATERLOO

09:30 - 10:20

### PLENARY PANEL:

## HOW CAN THE UK ACHIEVE A ZERO CARBON-SOCIETY?

The application of technology to climate problems has grown significantly over the past few years, and has the potential to fundamentally reshape the future. Is UK on track for a zero carbon society? What kind of innovation will get us to a zero-carbon society?

### SPEAKERS:

**Alison Cook**, Director of Policy and External Affairs, British Lung Foundation

**Kirsten Dunlop**, Chief Executive, Climate-KIC

**Richard Barker**, Head of Energy and Environment, National Physical Laboratory

**Sir David King**, Former CSA and Foreign secretary's special representative for Climate Change, SYSTEMIQ

### CHAIR:

**Ian Meikle**, Director- Clean Growth and Infrastructure, Innovate UK

INNOVATION  
SUPPORT SURGERY

COUNTESS  
AND DAME

09:30 - 10:50

## SURGERY SESSIONS - WITH BOOKABLE TIME SLOTS

Speak one to one with a member of the NPL science team to discuss how to overcome issues with your innovative products / services

10:20 - 10:50

## NETWORKING BREAK AND OPENING OF THE EXHIBITION (INNOVATION SURGERY OPEN)



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 ROOM  
**WATERLOO**  
 10:50 - 11:40



**PLENARY PANEL:**  
**SHAPING THE FUTURE OF ENERGY**

How is climate change transforming the outlook for energy? How can an effective transition to a more sustainable, affordable, secure and inclusive energy system be enabled? What will be the business models that will succeed in 21st century energy markets? What would the evolution of a more “distributed” and multi-directional energy grid mean for business, consumers and policymakers?

**SPEAKERS:**

- Sara Bell**, Chief Executive and Founder
- Tom Rowlands-Rees**, Senior Analyst, Bloomberg New Energy Finance
- Juliet Davenport**, Chief Executive, Good Energy
- Adam Scorer**, Chief Executive, National Energy Action
- Matthew Rhodes**, Chair, Energy Capital
- Tim Rotheray**, Chief Executive, The Association for Decentralised Energy

**CHAIR:**

- Philip New**, Chief Executive, Energy System Catapult

 ROOM  
**MAYORS**  
 10:50 - 11:40

**PLENARY PANEL:**  
**ACTIVE BUILDINGS: MEETING THE CLEAN GROWTH MISSION**

How will modern construction techniques and cutting edge energy technologies come together to deliver the Industrial Strategy’s Clean Growth Mission to halve energy use in buildings by 2030? This panel will explore technologies for making more comfortable, energy efficient buildings that can power themselves and contribute to a more sustainable energy mix.

**SPEAKERS:**

- Christine Boyle**, Chief Executive, Senergy
- Craig White**, Chief Executive, ModCell
- Professor Dave Worsley**, Vice President (Innovation), Swansea University/SPECIFIC
- Andrew Bissell**, Chief executive, Sunamp

**CHAIR:**

- Sam Stacey**, Challenge Director, ISCF Transforming Construction

**TALK AND Q&A SESSION**

The process of testing and verifying new products and reducing variation in manufacturing.

 INNOVATION SUPPORT SURGERY  
**COUNTLESS AND DAME**  
 11:15 - 11:45





ROOM WATERLOO 11:40 - 12:30



BRIEFING SESSION: TAKING ENERGY INNOVATION TO THE NEXT LEVEL

As set out on the Clean Growth Strategy, the BEIS Energy Innovation Programme will invest around £505 million in innovations across the energy sector with the aim to accelerate the commercialisation of innovative clean energy technologies and processes into the 2020s and 2030s.

- SPEAKERS: Craig Lucas, Director Energy Innovation, BEIS; Prof John Loughhead, Chief Scientific Advisor, BEIS; Emma Gibson, Director of Operations, Highview Power; Oenone Scott, Communications Manager, Electron; Pawel Kisielewski, Chief Executive Officer, Ccm Technologies

CHAIR: Dr Mark Taylor, Deputy Director Energy Innovation, BEIS



ROOM MAYORS 11:40 - 12:30

PLENARY PANEL: FEEDING THE WORLD

How will a planet of 10 billion people feed itself? Can innovation deliver greater food security and climate-smart eating? How can agricultural productivity be increased while reducing its environmental impact?

- SPEAKERS: Dr Jonathan Scurlock, Chief adviser- Renewable Energy and Climate Change, National Farmers' Union; Ji Zhou, Phenomics Project Leader, Zhou Group, Earlham Institute; Kate Hoffman, Chief Executive and co-founder, Growup Farms; Forbes Elworthy, Founder, Craigmoresustainables

CHAIR: Melanie Welham, Executive Sponsor- Transforming food production, UKRI

INNOVATION SUPPORT SURGERY COUNTESS AND DAME 11:50 - 12:20

SURGERY SESSIONS - WITH BOOKABLE TIME SLOTS

Speak one to one with a member of the NPL science team to discuss how to overcome issues with your innovative products / services.

12:30 - 13:40

NETWORKING LUNCH AND EXHIBITION (INNOVATION SURGERY OPEN)



INNOVATION SUPPORT SURGERY COUNTESS AND DAME 13:00 - 13:30

SURGERY SESSIONS - WITH BOOKABLE TIME SLOTS

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ROOM  
**WATERLOO**  
 13:40 - 14:00

**KEYNOTE MINISTERIAL ADDRESS:  
THE INDUSTRIAL STRATEGY - TAKING CLEAN GROWTH TO THE NEXT LEVEL**

In this keynote address, the minister set out the long-term vision on the future of innovation and the UK's economy. How can we deliver a more resource efficient energy market, minimise the costs to businesses and households, and seize the opportunities that a shift towards a low carbon economy present? How can we develop UK industries that are fit for the future, drive progress in technologies where the UK can become a world-leader in their research and commercialisation?

**SPEAKER:**  
**Sam Gyimah**, MP, Minister of State for Universities, Science, Research and Innovation UK

INNOVATION SUPPORT SURGERY  
**COUNTESS AND DAME**  
 13:30 - 14:00

**SURGERY SESSIONS - WITH BOOKABLE TIME SLOTS**

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ROOM  
**WATERLOO**  
 14:00 - 14:45

**PLENARY PANEL:  
THE ROAD TO INNOVATION**

In this session, we will hear from the promising business leaders catalysing change as they share their priorities and ambition to shape our low carbon future. The panellists will share their journey of innovation and shed light on how they started their business, any funding support received, future plans to grow their ambition and any advice they can give our audience.

**SPEAKERS:**  
**Graham Oakes**, Chairman, Upside Energy  
**Xiongwei Lui**, Chief Executive, Entrust Microgrid LLP  
**Nick Simmons**, Co-founder and CFO, Naked Energy  
**Dr Florence Gschwend**, Chief Executive, Chrysalix Technologies

**CHAIR:**  
**Rob Saunders**, Interim Challenge Director, ISCF Prospering from the Energy Revolution

ROOM  
**MAYORS**  
 14:00 - 14:45

**PLENARY PANEL:  
UNDERDOG TO LEADER OF THE PACK BY 2040?**

The UK can only become one of the world's battery technology leaders by 2040 if it outsmarts rather than outspends the competition.

**SPEAKER:**  
**Christoph Birkl**, Chief Executive, Brill Power  
**Neil Morris**, Chief Executive, Faraday Institution  
**Ian Constance**, Chief Executive, Advanced Propulsion Centre  
**Jacqui Murray**, Deputy Challenge Director, ISCF Faraday Battery Challenge

**CHAIR:**  
**Tony Harper**, Challenge Director, ISCF Faraday Battery Challenge





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# TECHNOLOGIES OF THE FUTURE

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INNOVATION SUPPORT SURGERY

COUNTESS AND DAME

14:00 - 14:20

## SURGERY SESSIONS - WITH BOOKABLE TIME SLOTS

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INNOVATION SUPPORT SURGERY

COUNTESS AND DAME

14:25 - 14:40

## TALK AND Q&A SESSION

Analysis for Innovators Programme.

14:45 - 15:15

## ISCF BRIEFING SESSIONS - AN INSIGHT INTO THE CLEAN GROWTH INDUSTRIAL STRATEGY CHALLENGES:



ROOM

WATERLOO

14:45 - 15:15

## PROSPERING FROM THE ENERGY REVOLUTION

LEAD:

Rob Saunders, Interim Challenge Director, ISCF Prospering from the Energy Revolution

ROOM

MAYORS

14:45 - 15:15

## TRANSFORMING CONSTRUCTION

LEAD:

Sam Stacey, Challenge Director, ISCF Transforming Construction

ROOM

BARON

14:45 - 15:15

## TRANSFORMING FOOD PRODUCTION

LEAD:

Andy Cureton, Interim Challenge Director, ISCF Transforming Food Production

INNOVATION SUPPORT SURGERY

COUNTESS AND DAME

14:50 - 15:15

## TALK AND Q&A SESSION

Intellectual Property.

15:15 - 15:45

## NETWORKING BREAK AND EXHIBITION



INNOVATION SUPPORT SURGERY

COUNTESS AND DAME

15:30 - 16:30

## SURGERY SESSIONS - WITH BOOKABLE TIME SLOTS

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ROOM WATERLOO 15:45 - 16:45

CLIMATE-KIC VENTURE COMPETITION

A Venture Competition, run by Climate-KIC, will see five real energy innovation companies who are currently developing their products and looking for funding. They will pitch to a panel of industry experts who will probe the business models and propositions in front of them. You'll be able to gather vital insights into the sort of issues which potential investors would look for in the world of clean energy innovation. Also an opportunity to make valuable connections, and there will be information about upcoming opportunities to access funding and expertise from the Climate-KIC Accelerator 2019 programme.

START-UPS PITCHING:

- Elizabeth Nyeko, Chief Executive, Modularity Grid
Oli Freeling-Wilkinson, Chief Executive, Urban Electric
Florence Gschwen, Chief Executive, Chrysalix
Peter Armstrong, Chief Executive, Mixergy
Amrit Chandan, Chief Executive, Aceleron

JURY MEMBER:

- Georgina Fleming, Chief Executive, Systemiq
Akriti Dokania, Chief Executive, Octopus Ventures
Andrew Burford, Chief Executive, Centre for Cleantech Innovation, Imperial College

CHAIR:

- Jackie Homan, Climate-KIC



Table with 2 columns: Time and Event Name. Row 1: 16:45, CLOSING ADDRESS, microphone icon. Row 2: 17:00, RECEPTION, handshake icon.

