

# PANEL SESSION: MULTIDISCIPLINARY APPROACH TO DECARBONISATION

**PROF JULIAN ALLWOOD FREng**  
 THERE ARE NO MAGIC HOOVERS!  
 NO MAGIC TECHNOLOGIES TO MEET TARGETS

**PROF NILAY SHAH FREng**  
 ENGINEERS WILL BE INVOLVED MASSIVELY IN NET ZERO

**A UNIFIED APPROACH**  
 ↳ BOUNDARIES  
 ↳ POLICIES  
 ↳ RESHAPING

**ABSOLUTE ZERO**  
 ↳ 6 UNITS AND CONTRIBUTING INDUSTRIAL PARTNERS  
 ↳ INDUSTRIAL STRATEGY

**WHAT CAN THE CENTRE DO?**  
**NATIONAL ENGINEERING POLICY CENTRE**

**GET INVOLVED!**  
 ↳ GRETA  
 ↳ SOMEONE SHOULD DO SOMETHING BUT WHO???

**REAL ZERO**  
 ↳ 100% SETS AGENDA  
 ↳ NO EVIDENCE  
 ↳ YOU'RE WRONG

**100% IN EMISSIONS**  
 ↳ MAGIC CO<sub>2</sub> VAC  
 ↳ PLANTING MORE TREES ISN'T ENOUGH

**RATE OF TECHNOLOGY DEPLOYMENT**  
 ↳ BREAK THROUGH TECH  
 ↳ RESTRAINTS ARE RELIEVED WITH TECHNOLOGIES

**NEED INFRASTRUCTURE**  
 ↳ NO TIME

**BRIDGE GAP**  
 ↳ NEW TECH ON  
 ↳ DEGREE

**AT THIS MOMENT WE USE A MIX OF...**  
 Fossil + Electric

**HOW MUCH ELECTRIC IS NEEDED?**

**NUMBER 1**  
 SHIPPING

**NUMBER 2**  
 AIR TRAVEL

**NUMBER 3**  
 EVEN WITH RISE OF VEGANISM  
 WE NEED TO FIND A SOLUTION TO FACE UP TO ABSOLUTE ZERO!

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**DR EMILY COX**  
 I'M A SOCIAL SCIENTIST

**PARTICIPATION IS IMPORTANT**

**GREEN HOUSE GAS RENEWAL**  
 ↳ DING!  
 ↳ A 'MAGIC FAIRY' SOLUTION?

**LET'S DO WHAT WE CAN, WHEN WE CAN**  
 ↳ AN EXAMPLE  
 ↳ WILL THIS LAST FOREVER?

**INSANE CHANGES THIS YEAR: ↳ NET ZERO 0%**  
 AND  
**SHIFT IN PUBLIC ATTITUDE**  
 ↳ HIGHEST EVER CLIMATE CONCERNS GLOBALLY  
 ↳ ASAP

**FRACKING DEVELOPERS TOOK 1 WAY APPROACH**  
 ↳ PUBLIC OUTCRY!

**EARLY PUBLIC ENGAGEMENT**  
 ↳ THIS IS FINE

**"WE ALL HAVE BLINKERS ON"**

**DIVERSITY**  
 ↳ NEED TO  
 ↳ ENGAGE WITH MARGINALISED VOICES  
 ↳ COMMUNICATION

**SOCIAL SCIENCE**  
 ↳ MORE THAN JUST AN  
 ↳ +ADD ON  
 ↳ DEPENDANT ON FOSSIL FUELS  
 ↳ THE BRUNT FALLS ON THESE PEOPLE

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**DR JOHANNA BOEHNERT**  
 WE REGULARLY TRY TO CONVINCE PEOPLE TO DO THINGS IN NEW WAYS

**COMMUNICATION DESIGNERS**  
 ↳ SUSTAINABILITY  
 ↳ TRANSITIONING  
 ↳ COMMUNICATION OF COMPLEXITY

**DECLINING PRODUCTIVITY**  
 ↳ RELATIONSHIPS ARE IMPORTANT

**THE PROBLEM OF DECLINING PRODUCTIVITY IN THE UK OVER THE LAST FEW DECADES**

**NEW BOOK PUBLISHED WITH CUSP**  
 ↳ MODE OF APPROACHING KNOWLEDGE

**THE MIND DENIED THE ENVIRONMENT**

**GLOBAL CHANGE**  
 ↳ SOCIAL  
 ↳ POLITICAL  
 ↳ TECHNICAL

**THERE IS A PROFOUND CHALLENGE TO THE SYSTEM WE HAVE NOW**

**WE CAN USE THE ...**  
 ↳ IMPORTANCE OF THE ARTS

**HOW DO WE FRAME A PROBLEM?**

**CIRCULAR ECONOMY**  
 ↳ ECOLOGICAL ECONOMIST

**DONUT ECONOMICS**

**DESIGN IS AN UNLIKELY FACILITATOR**