Renewable energies are now firmly at the centre of global debate, requiring novel strategic resources such as lithium for new technologies leading to the low-carbon energy transition. This transition will have important technological, geopolitical and socio-environmental consequences as profound as those which came with the shift to fossil fuels more than a hundred years ago.

The University of Cambridge with a vast tradition in innovation has a leading role in this energy transition with ground-breaking research in the areas of technology, social, economic and material sciences.

This workshop seeks to gather people from industry and researchers within the University from different departments and research centres to discuss the potential of lithium and low-carbon energy transition technologies and policies and to build a network of collaboration and knowledge exchange.

**Programme**

12:30 pm  Lunch

13:30 pm  Welcome and Introductions

- Dr. Emma Mawdsley – Director of the Margaret Anstee Centre for Global Studies
  
  Welcome,

- Dr. Daniela Sanchez-Lopez – Research fellow Margaret Anstee Centre for Global Studies
  
  Aims, format of the workshop, introduction of participants.

Part 1 – 13:40 – 14:50

- Prof. Clare Grey - Department of Chemistry
  
  Title: “Materials Chemistry: Structure and Function”

- Dr. Erlendur Jonsson - Postdoctoral Research Associate Department of Chemistry
  
  Title: “Alternatives to lithium-ion batteries”
• Dr. Daniela Sanchez Lopez - Research Fellow at the Margaret Anstee Centre, Newnham College.  
  
  Title: Lithium and the complexity of the low-carbon energy transition

14:50 – 15:05 Coffee break

Part 2 - 15:05 – 16:15

• Dr. Mathias Groh - Postdoctoral Research Fellow Department of Chemistry  
  
  Title: “All-Solid-State Batteries for Safe Energy Storage”

• Dr. Hugo Bronstein - Lecturer in Physics and Chemistry Departments.  
  
  Title: To be confirmed

• Dr. Sai Shivareddy - Industrial Visitor to the Cambridge Graphene Centre and the Engineering Department.  
  
  Title: “Research and development of fast charging lithium ion battery materials - an industrial perspective”

• Dr Carrie Pemberton Ford - Director of the Cambridge Centre for Applied Research in Human Trafficking  
  
  Title: “Socio economic rights impact of the extraction of components for Lithium batteries: case of Cobalt in DRC”

Part 3 - 16:15 – 17:30

• Prof. Khaled Soufani - Director of the Executive MBA Programme/ Director of the Circular Economy Centre (CEC)  
  
  Title: “Circular economy, sustainable economic growth and innovation”

• Prof. Vasant Kumar - Department of Materials Science & Metallurgy  
  
  Title: “Energising a Billion Lives - Lithium in its role in the low-carbon transition”

• Dr. Estel Blay - Business Manager – Extractive Industries (Catapult Satellite Applications)  
  
  Title: “Disruptive technologies for Lithium market”

• Stephen Spittle - Satellite Solutions Architect (Catapult Satellite Applications)

• Clara Galeazzi - Post-graduate researcher – Land Economy Department

  Title: “Material Supply Chains for Electric Vehicle Battery Technologies”

17:30 – Drinks reception