SIRACH Networking Meeting

Introduction to Newcastle University Energy Research

Professor Tony Roskilly
Sir Joseph Swan Centre for Energy Research

Sir Joseph Swan Centre
for Energy Research

Newcastle University

Institute for Sustainability

Chemical Engineering and Advanced Materials
Civil Engineering and Geosciences
Electrical and Electronic Engineering
Marine Science and Technology
Mechanical and Systems Engineering

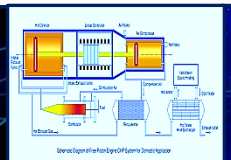
Agriculture, Food and Rural Development
Biology
Chemistry
Computing Science
Mathematics and Statistics

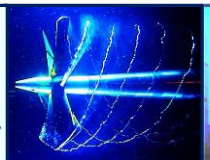
Institute for Health & Society
Institute for Cell and Molecular Biosciences

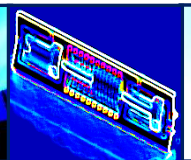
Architecture, Planning and Landscape
Newcastle University Business School
Geography, Politics and Sociology
Newcastle Law School

Institute for Ageing

Institute for Social Renewal







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Collaborative Research Centres

Transport Operations Research Group
Newcastle Railway Research Centre
Centre for Earth Systems Engineering
nanaLAB Research Centre

Centre for Urban and Regional Development
Global Urban Research Unit
Centre for Rural Economy

Centre for Doctorial Training

Digital Connected Citizens and Communities
Cloud Computing for Big Data
Data, Risk & Environmental Analytical Methods
North East Social Science

Collaborative Facilities

Siemens Smart Grid Laboratory
Urban Sustainability - Science Central
Rural Sustainability - Cockle Park Farm
Cloud Innovation Centre
Energy Storage Test Facility
Thermal Energy System Laboratory

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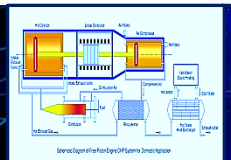
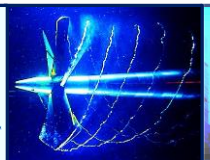
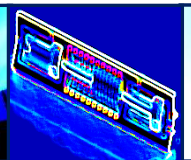
Energy themes where Newcastle University has key research strength:

Resilient Infrastructure and systems	Intelligent networks and energy storage	Electrochemistry and hydrogen
Bio-resource production, recovery and use	Renewable energy systems	Environmental impact assessment and mitigation
Building, industrial and transport demand reduction	Justice and governance	Logistics and planning
Clean use of fossil fuel	Mechanical and electric power systems	Thermal systems and combustion

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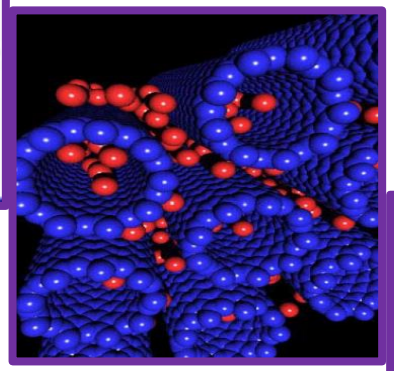

Electrochemistry and hydrogen

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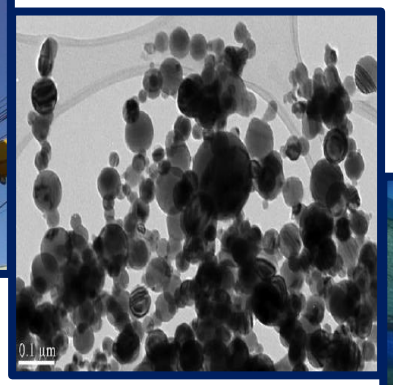

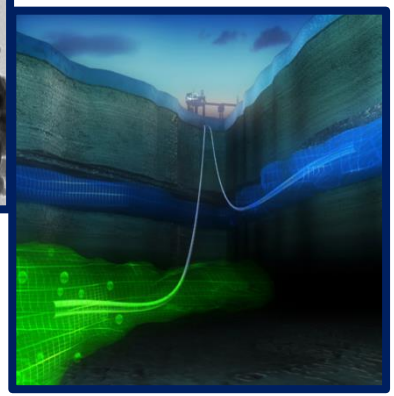

Clean use
of fossil fuel

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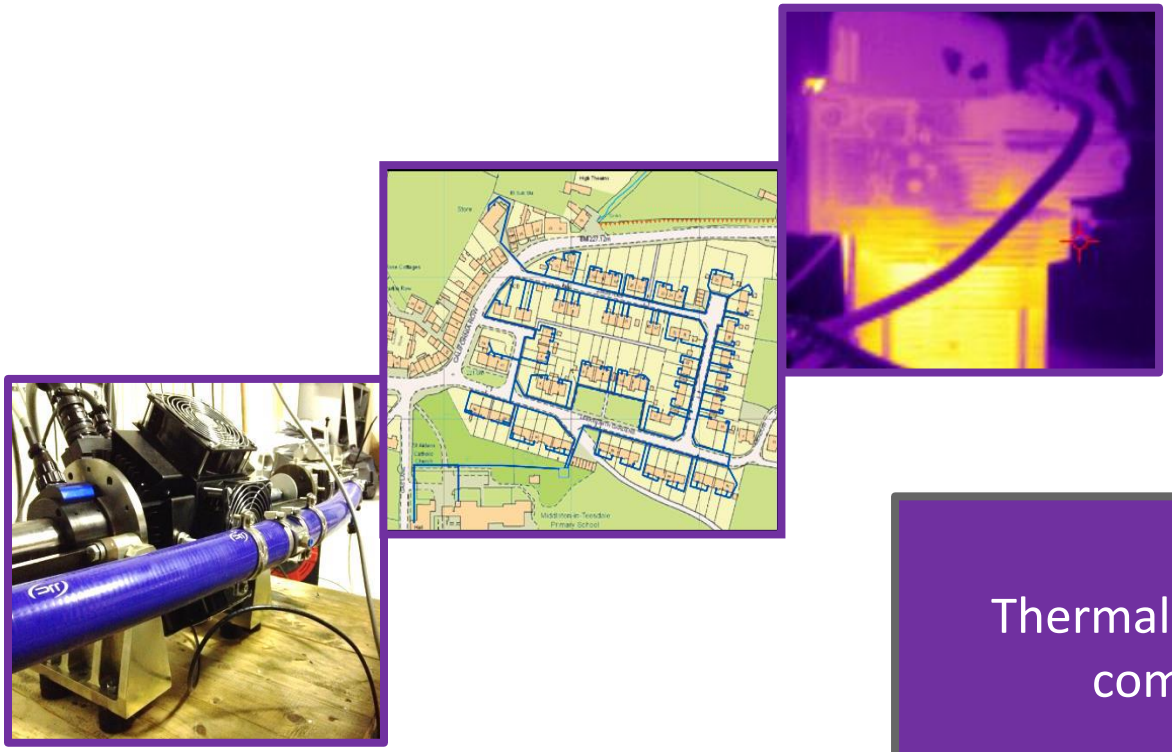

Thermal systems and combustion

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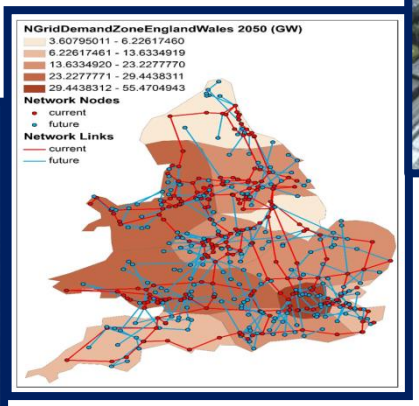
Energy themes where Newcastle University has key research strength:

Resilient Infrastructure and systems



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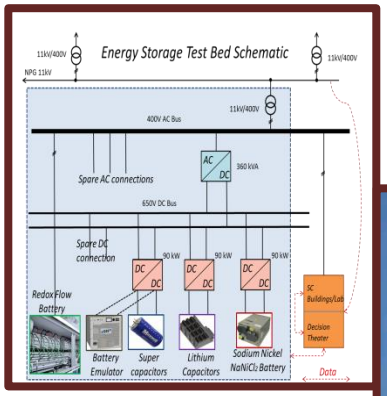
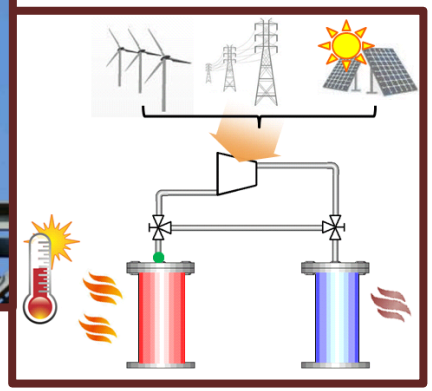
Energy themes where Newcastle University has key research strength:

Renewable energy systems

Energy themes where Newcastle University has key research strength:

Intelligent networks and energy storage





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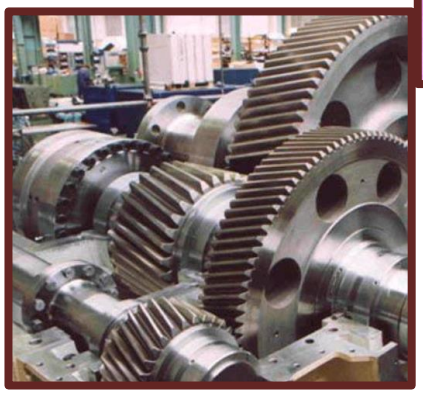

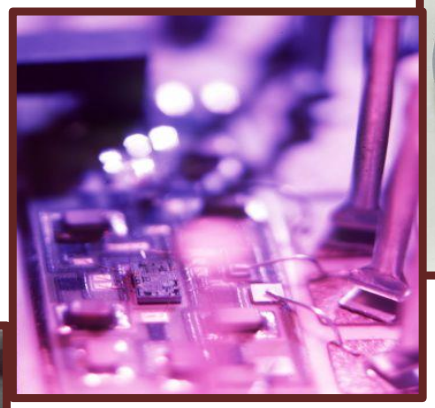

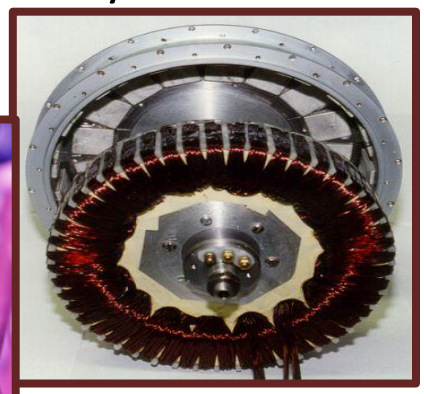

Mechanical and electric power systems

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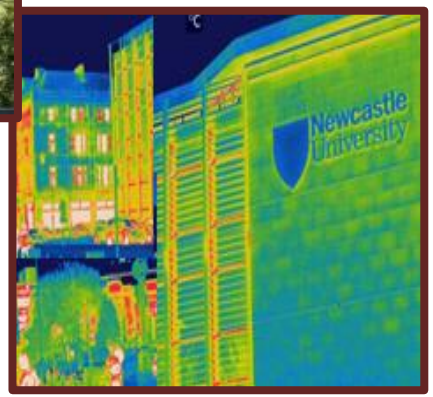

Building, industrial and transport demand reduction

Energy themes where Newcastle University has key research strength:

Logistics and planning

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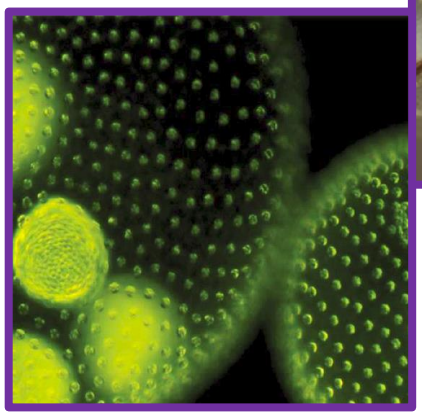
Energy themes where Newcastle University has key research strength:

Bio-resource production, recovery and use



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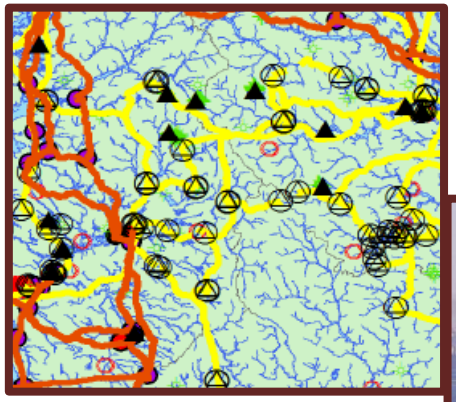

Environmental impact assessment and mitigation

Energy themes where Newcastle University has key research strength:

Justice and governance

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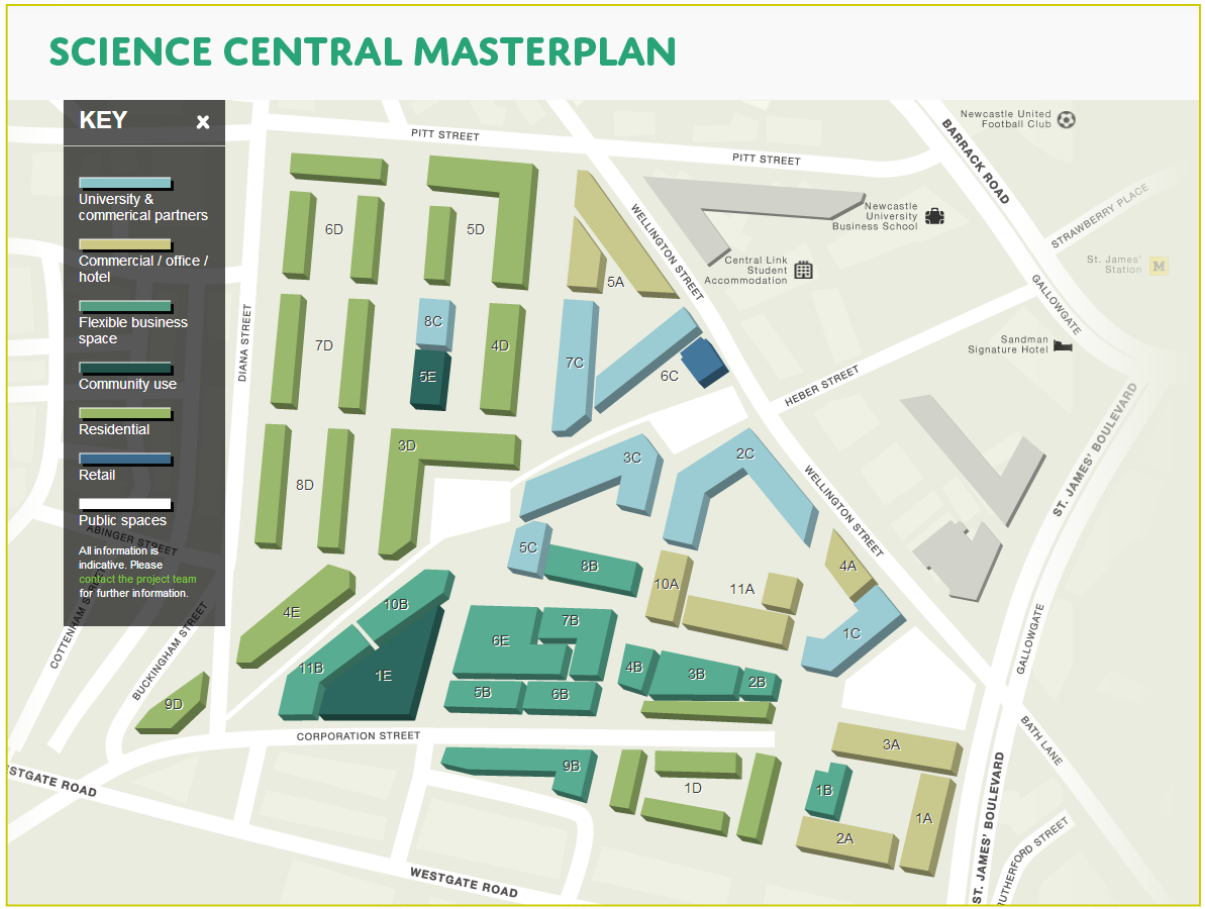

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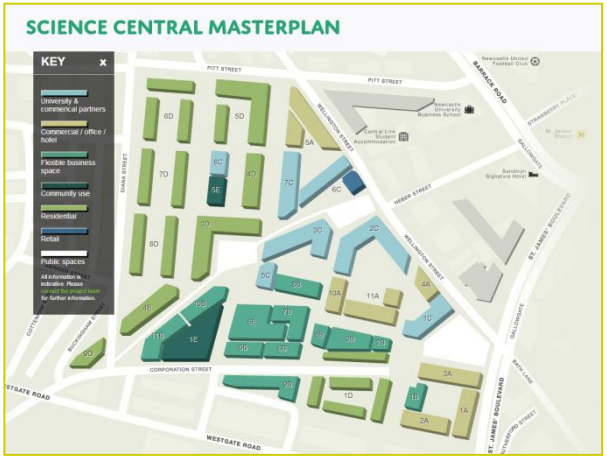

The building and the site as laboratories - Smart Grid, Energy; Power & Transport; Cyber Physical

Urban Observatory; Decision Theatre; Digital Civics; Cloud Computing

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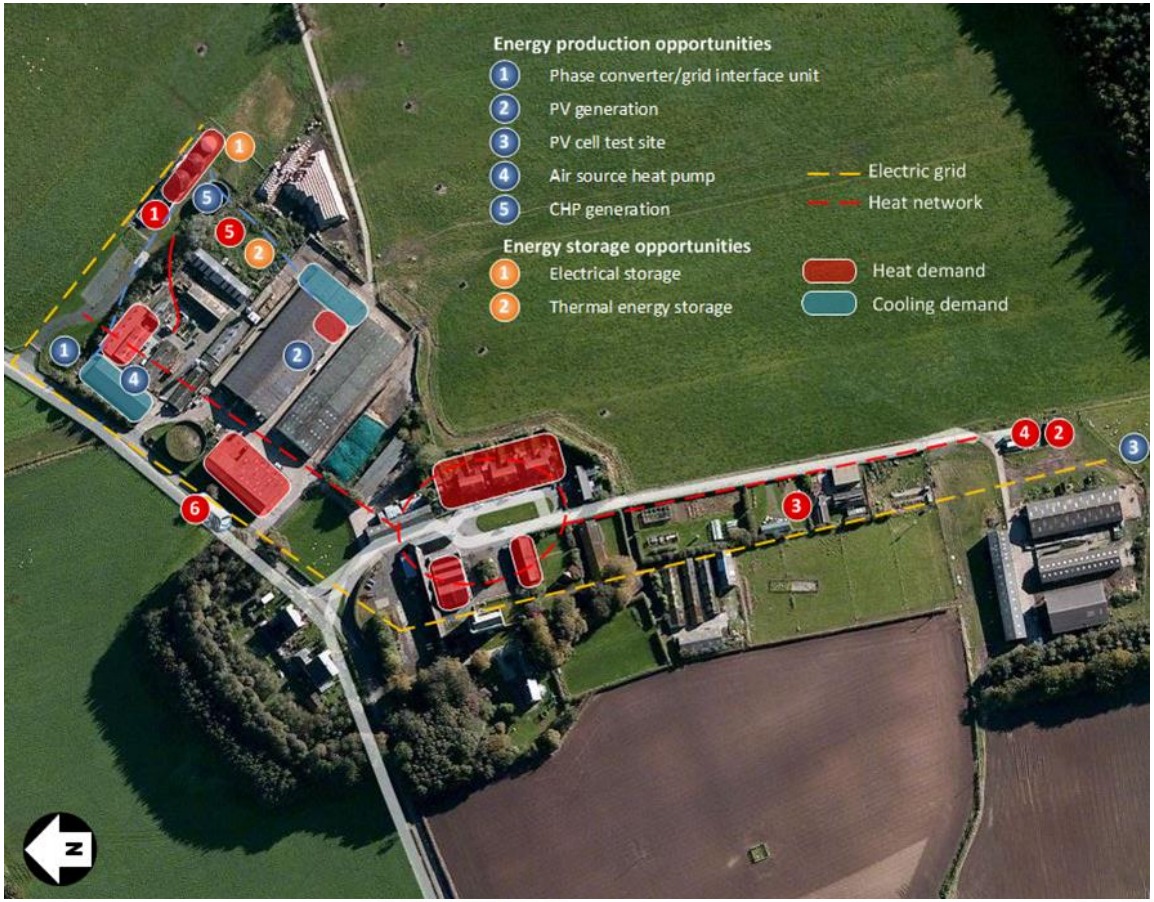
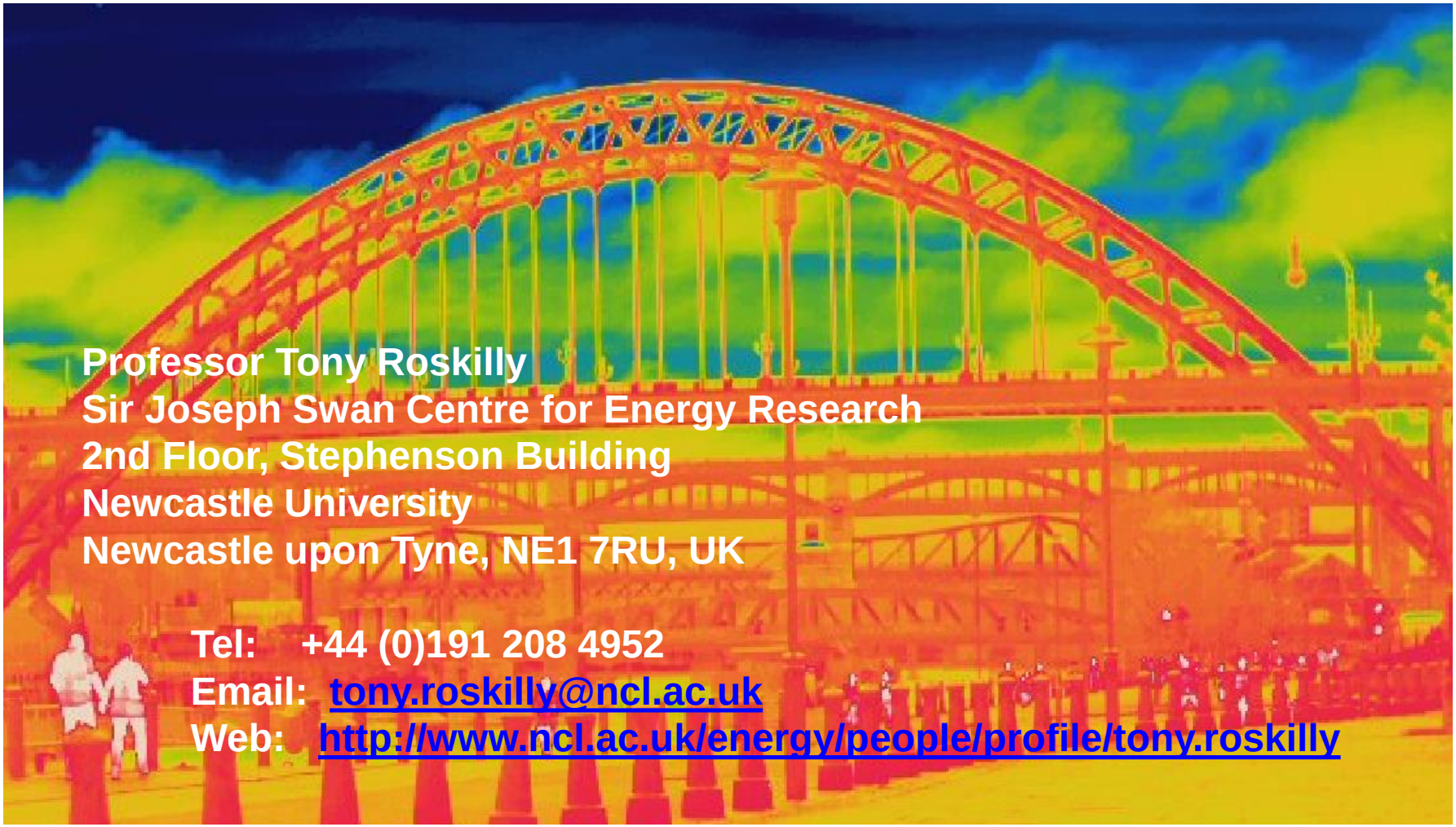
Rural Sustainability (Cockle Park Farm)





Professor Tony Roskilly
Sir Joseph Swan Centre for Energy Research
2nd Floor, Stephenson Building
Newcastle University
Newcastle upon Tyne, NE1 7RU, UK

Tel: +44 (0)191 208 4952
Email: tony.roskilly@ncl.ac.uk
Web: http://www.ncl.ac.uk/energy/people/profile/tony.roskilly