

# Vision for the future

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*Ensure the Joule Centre and the associated universities deliver “world leading” energy research, design and demonstrations for the benefit of society in the North West of England.*

Peter Crossley

Director of the Joule Centre



# UK Energy Policy: Opportunity for the North West

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- Environmental
  - cut CO<sub>2</sub> emissions, whilst increasing economic prosperity
- Energy availability & cost
  - provide energy flexibility & encourage efficiency
- Aging energy infrastructure
  - encourage investment in networks and sustainable energy
- Regional prosperity
  - energy efficiency & supply competition reduces cost
- Reliability
  - encourages investment in high tech industries & commerce
- Education
  - deliver skills/knowledge required by high-tech society



# UK Energy Policy: Implications for the North West

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- Innovation & exploitation
  - essential for a low carbon society
  - necessary to increase economic prosperity
  - creates jobs in a high wage economy
  - delivers secure, competitive, sustainable energy systems
- Society needs Higher Education to:
  - deliver engineers & scientists for high tech, high wage economy
  - innovate and create jobs & economic prosperity for the region
  - help increase energy efficiency
  - encourage transition from fossil fuels to sustainable resources
  - help satisfy government emission targets
  - help pursue a coherent energy strategy

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# Joule Centre: What can it deliver for the North West

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- Support regional energy policy and strategy development
- Encourage innovation that benefits society
- Help North West organisations commit to energy reduction
- Help NWDA deliver energy sustainability and boost employment
- Provide knowledge to help satisfy government emission targets.
- Help utilities design networks that encourage renewable energy.
- Encourage renewable energy demonstration projects
- Help North West industry innovate in the energy sector and deliver prototypes for commercial exploitation.
- Provide skills and IP for commercial exploitation within the region.



# Joule Centre: Vision for the future

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- Encourage collaboration between universities, industry & commerce
- Increase region's research capacity in energy technologies.
- Improve research, design & demonstration capacity.
- Encourage secure and diverse sources of supply in North West.
- Support demand reduction and management technologies.
- Design & demonstration of low CO2 energy supply systems.
- Engagement of all stakeholders in North West energy sector
- Provide routes for knowledge and technology transfer.
- Support regional energy policy and strategy development.
- Deliver real benefits to the North West economy.

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# Joule Centre: Aims & Objectives

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- Develop & deliver research programme to support NWECC
- Stimulate interdisciplinary research, design & demonstration
- Encourage collaboration between NW organisations
- Maximise participation in UK & EU energy R&D programs
- Support regional energy industries and user organisations
- Increase regional R&D capacity in key disciplines
- Influence and support regional policy on energy issues
- Encourage support for the media on energy related topics
- Encourage individual and corporate pursuit of “best practise”

# Joule Centre: Conclusion

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- *The Joule Centre must deliver research, design and demonstration technologies in the energy sector for the economic, social and environmental benefit of North West England.*