

Upper Rhine Cluster for Sustainability Research

Researchers Profile

Name, Position & Affiliation

Dr. Russell McKenna

*Head of Group, Renewable Energies and Energy
Efficiency*

KIT-DFIU

Website: http://www.iip.kit.edu/english/86_489.php



Expertise in relation to the topics of the URCforSR (include max. 3 related and recent publications)

Cost-potential analyses for renewable energies
Techno-economic assessment of energy technologies
Energy system modelling
Publications:

- McKenna, R., Hofmann, L., Merkel, E., Fichtner, W., Strachan, N.: Analysing socioeconomic diversity and scaling effects on residential electricity load profiles in the context of low carbon technology uptake, accepted with minor changes in Energy Policy
- Jäger, T., McKenna, R., Fichtner, W., The feasible onshore wind energy potential in Baden-Württemberg: A bottom-up methodology considering socio-economic constraints, Renewable Energy, 96, 662-675
- McKenna, R., Merkel, E., Fichtner, W. (2016): Energy autonomy in residential buildings: a techno-economic model-based analysis of the scale effects, Applied Energy (in press)

Special Interests in the topics of the URCforSR

2.a. Energy, Infrastructure and social change: energy-efficient buildings
2.b. Energy, Infrastructure and social change: decentral renewable electricity supply and reduction of electricity demand

What you are searching for regarding the cooperation within the URCforSR

Expertise in the acceptance of renewable energies
Expertise in the sustainability assessment of energy systems and technologies
Expertise in local energy concepts, their implementation and monitoring