



Subject: Ian Chilvers PhD MSc BEng (Hons) MIET – Low Carbon Projects

I have known Dr Ian Chilvers for two years where I have sought his expertise in electrical power systems, battery storage and Microgrids/ Smartgrids.

I first worked with Dr Chilvers on a UK Consortium to the Middle East, where he was technology head for a proposal to restructure the main 33kV electricity distribution network around a major city to move towards a smart grid implementation. This involved integrating local generation stations into the 33 kV distribution network whilst encouraging the connection of large scale renewable generation schemes and grid side energy storage.

As the ex-Chairman of the English Football Premier League I have access to UK Football Clubs looking to reduce energy costs and their carbon footprint. Dr Chilvers worked on the Tottenham Hotspur Football Club new stadium development by carrying out detailed power system studies of the impact of the public electricity grid on the stadium electrical network. This involved the innovative use of modularised battery storage systems around the stadium to reduce energy costs and peak demand during football matches where up to 70,000 people could be in attendance. Dr Chilvers is now looking at a stadium electric vehicle charging scheme, where charging is managed around match day peak demand.

Dr Chilvers has worked with me on developing residential microgrid solutions incorporating battery storage, heat pumps, PV Solar, Electric Vehicle Charging and Intelligent Control Systems. This will give homeowners a minimum annual energy saving of 20% whilst allowing them to decarbonise their living space. Future enhancement of these schemes will see the battery storage carry out trading in the electricity markets and grid balancing giving further cost reduction.

Dr Chilvers is providing the technical input to a number of developments who wish to integrate renewable energy and electric vehicles into their infrastructure. We are looking at a university student accommodation complex to reduce energy costs and carbon print. A proposal has been drawn up to reach a 50% reduction in energy costs whilst future proofing against rising energy costs. This is achieved by an on-site EV Charging Service where the source of power is from rooftop Solar and cheap electricity procured from the grid and stored in battery storage for later use.

I would not hesitate in recommending the services of Dr Chilvers to any client in the world who is seriously considering energy cost reduction and decarbonisation using innovate technology.

D.G. Richards

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