



EPECentre is a world-class clean technology research incubator that fosters collaboration and innovation.

We are a leading independent electric power and clean technologies research group, delivering specialist world-class research and innovation. Through our collaborations over the past two decades, we have a strong understanding of the NZ Electricity landscape and NZ industry in general, including the manufacturing and primary sectors.

Electro-magnetics

Motor, drive and actuator -

Find below an extensive experience list for EPECentre researchers.

Project	Client(s), Funder(s) and/or Supplier(s)	Related Programme
Power System Engineering		
Network Waitaki - Probabilistic EV Hosting Study	Network Waitaki	
EV charger testing	EECA	
International HVDC Consulting services and		

Project	Client(s), Funder(s) and/or Supplier(s)	Related Programme
Development of one dimensional model to predict the heating of anisotropic materials such as wood	STIMBR	Smart Electrode
Three dimensional modelling of Joule heating in heterogeneous, anisotropic media, such as wood	STIMBR	Smart Electrode
Process heat and energy modelling	IPL NZ, Boise-Cascade (USA)	
Process flow design, optimisation and instrumentation	Petrofac LLC	
Design of pneumatic scheme for log heating rig	STIMBR	Smart Electrode
Optimisation of CAPEX and OPEX (including RAM) as a part of solution design	GE Tenders and contracts	
Electromagnetic Solutions		

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Patented magnetic components with optimally interleaved windings	Weir Electronics	
Electronics & Power Electronics Systems		
FET education tool	Energy Education Trust NZ	
Near-field optical lithography using evanescent waves	IBM	
Photonic crystal devices including a slow light device	IBM	
World's smallest SRAM cell (circa 2004)	IBM	