

<b>Student Name</b>	Brian Goss
<b>Company</b>	Perpetual Energy
<b>Research University</b>	Loughborough
<b>Academic Supervisor (s)</b>	Dr Ralph Gottschalg
<b>Title</b>	Large scale comparison of market ready Solar Photovoltaic technologies using side by side arrays in different climates.
<b>Abstract</b>	<p>It is currently unclear how the different PV module technologies interact with varied environments within full scale systems, most previous research has focused on investigating technology dependence using single modules types to research full system effects. The large scale of the project increases the likelihood of failures &amp; will enable prediction of the probability and causes of failures throughout the whole system. This research will deliver tools to model the optimum installation of different technologies in different climatic zones through an understanding and separation of the environment-semiconductor interaction and how this translates into full scale systems. Hence system costs, output and ultimately, financial payback can be more accurately optimised for any given PV system location.</p>