Master’s Project- Pierre

# Initial Ideas

1. Weather compensation model refinement – using existing housing data to build comprehensive models for heating operation in domestic properties, anticipating changes in demand (size, archetype, heat emitters active etc.) and with knowledge on electricity tariff information
   1. Could be integrated into an independent smart thermostat for example (IoT possibilities)
   2. Possibility of sponsorship through Kensa Heat Pumps
2. Energy based pricing models anticipating uncertainty in renewable energy generations and the advantages of load shifting
3. Models for predicting failures in supply chains (agriculture) due to climate change, and the impact on the global economy
4. Optimisation model for situating electrodes along the face of a complex body
5. Modular microgrids for scalability in developing nations
6. Smart cities optimisation software that evaluates the location of every important piece of infrastructure in developing cities relative to each user to inform design changes

# Previous Projects

* Analysing future renewable energy solutions
* Designing a data crowdsourcing platform
* Regression and classification market platform
* Dynamic network visualisation of destination mapping

# Questions

* Concerns about overlap between ERO and Master’s
* Practical solutions vs research proposals