Research Plan

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# Introduction

This document is meant to set up a research plan in order to come to a better understanding of the energy production, market and players while keeping in mind different frameworks that best support these ideals.

The research is done in order to help us improve the development of our group product.

# Research Questions

|  |  |  |
| --- | --- | --- |
| **Question type** | **Research Question** | **Methodology** |
| Main | How can energy consumption be simulated with real data? | Library - Literature Study  Lab - Data Analytics  Lab - Computer Simulation  Showroom - Benchmark test |
| Sub | Where can reliable data about consumption be found and used for each energy source? |  |
| Sub | How much energy does the northern region consume? |  |
| Sub | What factors are at play in less predictable consumption outcomes and how can they be accounted for? |  |
|  |  |  |
| Main | How can we predict the production of renewable energy so we can adjust the non renewable energy to maintain the energy balance? | Library - Literature Study  Lab - Data Analytics  Lab - Computer Simulation  Showroom - Benchmark test |
| Sub | What standards are used that companies adhere to when predicting the general production of renewable energy? |  |
| Sub | How flexible are non renewable energy producers in adjusting to the demand? |  |
| Sub | Which outlying factors play a role in the production of renewable energy and how do companies deal with it? |  |