WEEKLY STATUS REPORT

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| Name: | Julian Florez |
| Week Ending Date: | June 9nd 2022 |
| Self-Assessment: | ~~Green~~, Yellow, ~~Red~~ |

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| ACTIVITIES COMPLETED THIS WEEK |
| The following activities were completed this week:   * Continuation of model testing and adding Fuel cell option to model (see below image), doesn’t change preliminary results as fuel cell not deployed   Diagram  Description automatically generated   * Data and general work update repository are located here with continued model validation: [GitHub - julflore000/KAUST: Work/research done](https://github.com/julflore000/KAUST) * Now waiting for true data from [Renewable Energy | King Abdullah City for Atomic and Renewable Energy](https://www.energy.gov.sa/en/futureenergy/renewableenergy/pages/renew2.aspx) to get accurate generation profiles * Literature review on downstream aspect of the Green Ammonia supply chain came up with initial model structure below * Plan to operate model on daily basis which hasn’t been done before and explore the more detailed distribution/cracking tradeoffs which also hasn’t been worked on * Can then explore unique case studies with import countries such as UK, Germany, Japan. |
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| ACTIVITIES IN PROCESS | NEXT ACTIONS | DUE DATE |
| 1. **Conceptualizing supply chain model** 2. **Searching for renewable energy data for wind and solar potential in KSA** | * **Create Mathematical Formulation of downstream supply chain model** * **Implement model into initial python code** * **Model validation with dummy data** * **Model validation with real life data** |  |

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| ACTIVITIES TO BE STARTED NEXT WEEK |
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| LONG TERM PROJECTS |
| * Analyzing optimal economic analysis of green ammonia from production, distribution, and consumption * Increasing useability of model for non-developer use. |

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| ISSUES FOR IMMEDIATE ATTENTION |
| * N/A |

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| KEY TEAM INTER DEPENDENCIES |
| * N/A |