

Team 15

Project Title: Emissions tracking dashboard for MISO

Date: 10/3/2021

## Members

Manbir Guron

Damandeep Riat

Jack Riley

Dylan Christensen

Tyler Maglaya

Sean Fleming

John DiBasilio

## What we've accomplished in the past week

Manbir Guron - Investigated MISO API data availability and documentation, worked on translating this data into project constraints assignment. Added data to Uses section of the assignment.

John DiBasilio - Worked on the Requirements, Constraints, Engineering Standards Assignment, contributing to the Problem Statement, Requirements and Constraints, and Intended User and Uses sections.

Damandeep Riat - Worked on the Requirements, Constraints, Engineering Standards Assignment. Formatted the document and changed wording format to sound more professional. Contributed to all sections and provided research to the engineering standards. Analyzed past projects to refresh memory on dashboard design and implementation.

Jack Riley - Worked on the Requirements, Constraints, Engineering Standards Slides by implementing the user slides for our presentation.

Sean Fleming - Worked on the Requirements, Constraints, Engineering Standards Assignment, contributing to the Requirements and Constraints and Engineering Standards sections. Looked into Generation Fuel Mixes on EIA and MISO website and understanding the power industry terms used to describe products that we intend to include in dashboard.

Tyler Maglaya - Worked on the Requirements, Constraints, Engineering Standards Assignment and contributed to the Intended Users and Uses section. Worked on our lightning talk slides on the Intended users and uses section.

Dylan Christensen - Worked on the instructor assigned tasks as listed above. Researched the current data available from MISO's website and began to familiarize myself with it in order to begin to visualize how I see the data being analyzed. Have not done much coding recently, refamiliarizing myself with Python.

## What we're planning to do in the coming week

John DiBasilio - Contribute to the Project Plan Assignment and finalize communication with MISO.

Manbir Guron - Establish need for non disclosure agreement during meeting with MISO sponsors, get further information about project technical specifications.

Damandeep Riat- Work and finalize the project plan document.

Jack Riley - Working to develop a better idea of layout for information on our page of data visualizations.

Sean Fleming - Possibility of getting scrum meetings going and continuing research on searching for data to include into the dashboard. Looking more into the regions that MISO holds and to also see where the border ends on these regions to have a more accurate understanding of where data needs to be taken from.

Tyler Maglaya - Planning on working with Python more and seeing about using Python to filter the API's provided by MISO.

Dylan Christensen - Project plan assignment, continue playing with Python and researching other sources of emissions data to incorporate. Would like to nail down some more specific data sources from MISO (where to get a list of generation facilities from which an emissions "value" could be estimated for a generated unit of power, etc.)

## Issues encountered

Damandeep - The team had scheduling difficulties with meeting the TA. Requested a meeting time change. We will let the TA know Sunday October 3, 2021 with a new weekly meeting time. The reason for the issue is that I have a mandatory staff meeting for another job( Friley Hall RA) from 7pm-> 9pm.

John DiBasilio - I have had difficulty coordinating a time to meet with the TA, considering the original meeting time was Wednesday at 7:00, which is now a day of the week I usually have a work shift.

Manbir Guron - Difficulty finding time to meet, some initial miscommunication regarding the availability of API's but further resolution about data availability will come in future work on data processing and meetings with MISO.

Sean Fleming - Difficulty meeting with the TA on wednesday nights, rescheduling to find a better time to meet with him and the team. Difficulty describing the borders of MISO regions of operations but this should be answered within the coming week(s) as more time is put into it.

Dylan Christensen - Issues with availability for the TA meeting and needing to reschedule it to fit better into everyone's schedule. Trying to get a better understanding of MISO, its borders for regions and operation, some better detail on how detailed they want the information to be (region/subregion, if they want the emission data to be refined to include more plant specific emissions estimates).

Tyler Maglaya - Has been having trouble meeting on Wednesdays since work schedule has been different lately. Should be resolved by Sunday, October 3.

Jack Riley - Didn't have any issues other than scheduling conflicts which will be resolved in the future.