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Automated MIS Generator Comparison Report

Task Description

Write a Python script that compares the generator statuses from the MIS DAM data given two input dates. Use this script to automate a task in the Task Scheduler to send a daily email describing the generator changes in today and tomorrow’s data.

Solution Design

* Location
  + Main script located at Y:\11\_Transmission Analysis\ERCOT\101 - Misc\CRR Limit Aggregates\Python Scripts\Automated Generator Comparators\Automated\_URL\_DAM.py
* Steps to Run:
  + The task should generate and send an email automatically every day at 7 AM. Current recipients include Stephen Xu and Pranil Walke.
* High-level Details:
  + The script downloads and reads today and tomorrow’s data from the ERCOT API, loads the results via Pandas into a dictionary and outputs their differences to a CSV. The task scheduler information is on a Remote Desktop.

Sample Output

A screenshot of a computer

Description automatically generated with medium confidence

What I Learned

Python requests to a website, how to use the Task Scheduler, and how to send emails through PyCharm.