

connect
ORLANDO JUNE 1-3, 2026

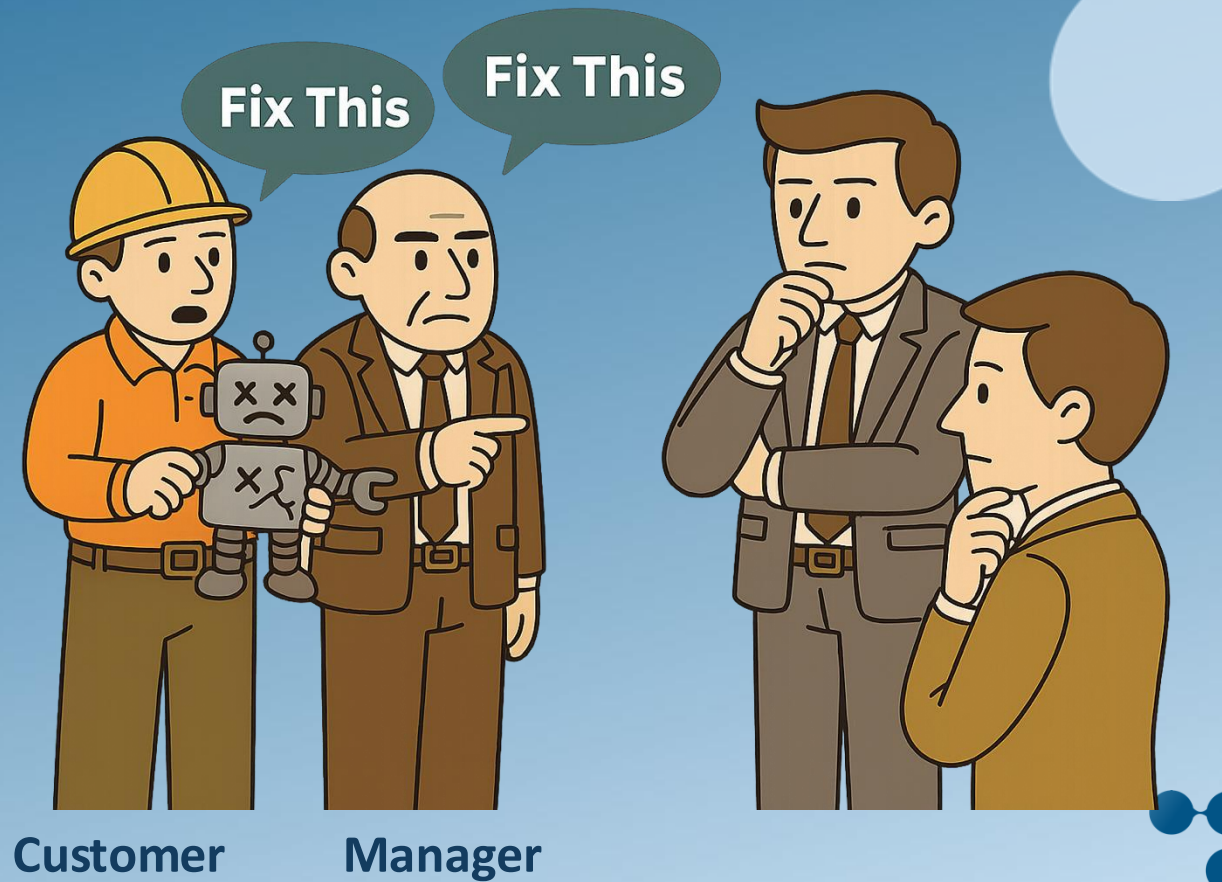
Diagnosing Service Issues with Data Lab and Organizer Topic



SeeQ®

Jose Negrón

- Worked 11 years in the San Juan Power Plant in Puerto Rico (operations side)
- 14 years working in Steam Turbine Service Engineering with Siemens-Energy



- Siemens-Energy has a broad portfolio that includes wind, nuclear, fossil generation as well as distribution
- Our steam turbine service customers include Siemens-Energy, Westinghouse, Parsons and several other OEM's



Main Roles

- Diagnosing abnormal operations
- Root cause analysis
- Operational data reviews
- Partial Monitoring



Before Seq...

- We used different tools to create scripts, applications, macros or spreadsheets to process the data
- Spent many hours cleaning, merging and organizing data.
- Had a slower process to make results available to others for further analysis or review.



With Seeq...

- We mostly have been using Workbench to trend data.
- Heavy use of conditions for data filtering and chain view for capsule evaluation.
- Increasing use of Data Lab and Organizer Topics

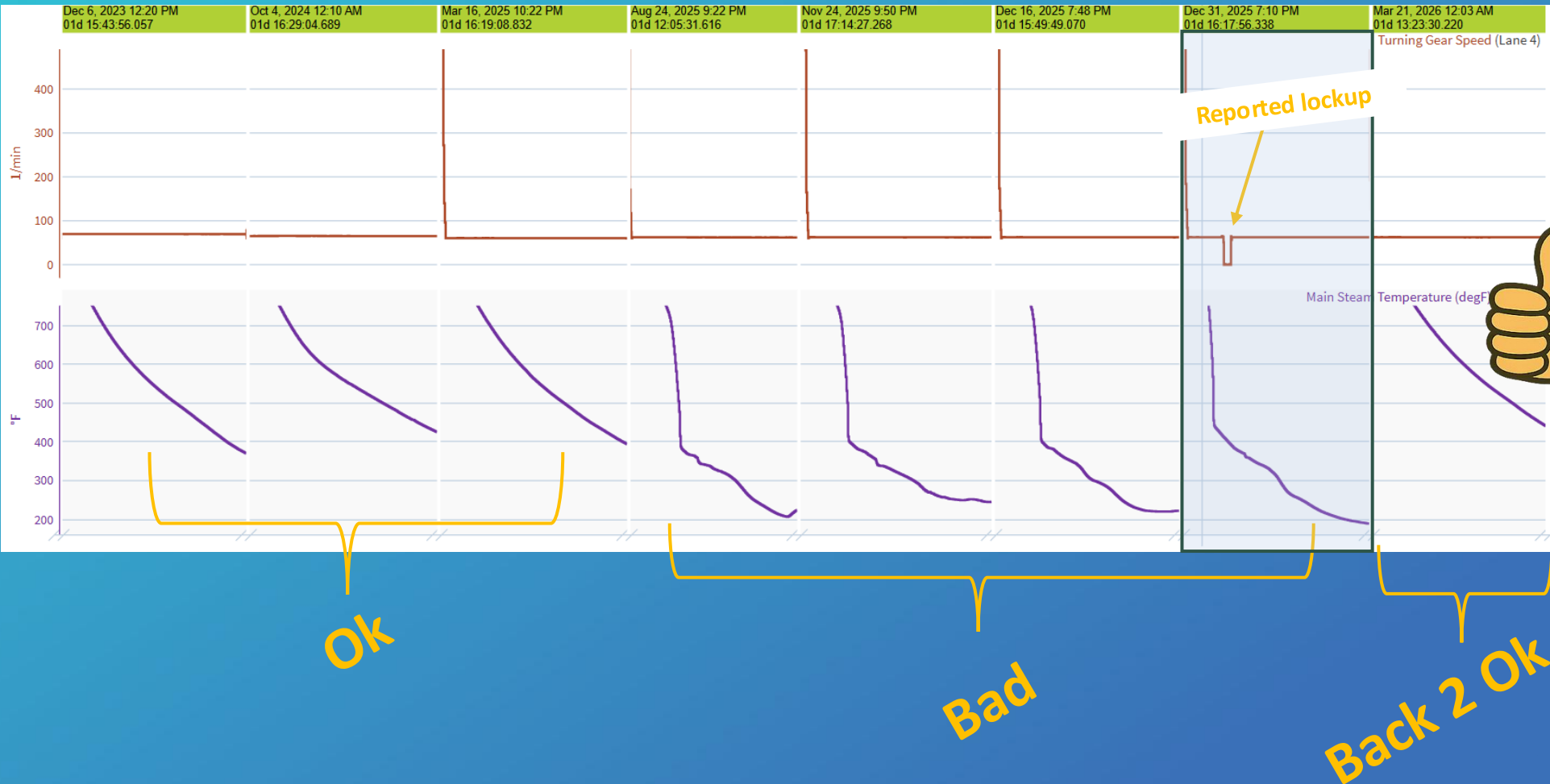


Use Case #1 - Rotor lockup after shutdown

- This is an issue that can occur when uneven temperature transients are present.
- Available data was evaluated in Seeq and a drop in steam header temperatures is noted.
- A condition to capture shutdowns is created and relevant data is plotted.
- A pattern was identified on a specific header and leaking valves were found.

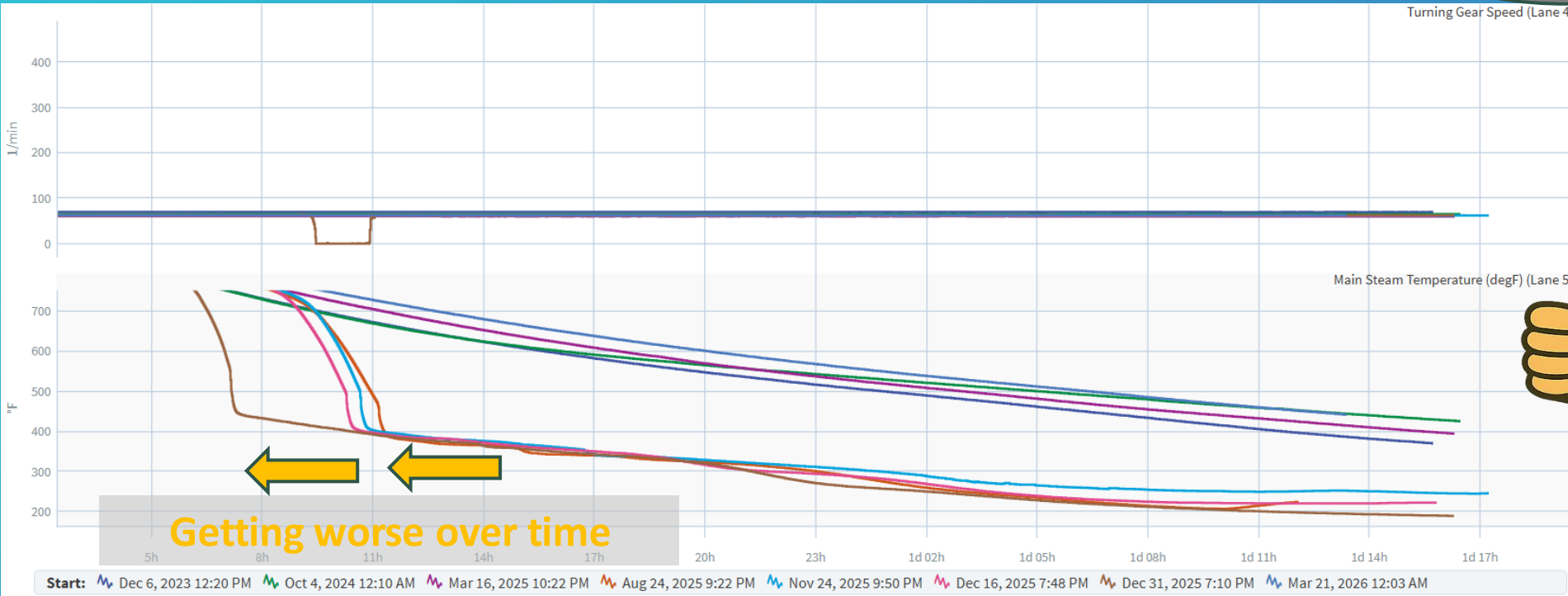
When Chain View is all you need

I understand this



When Chain View is all you need

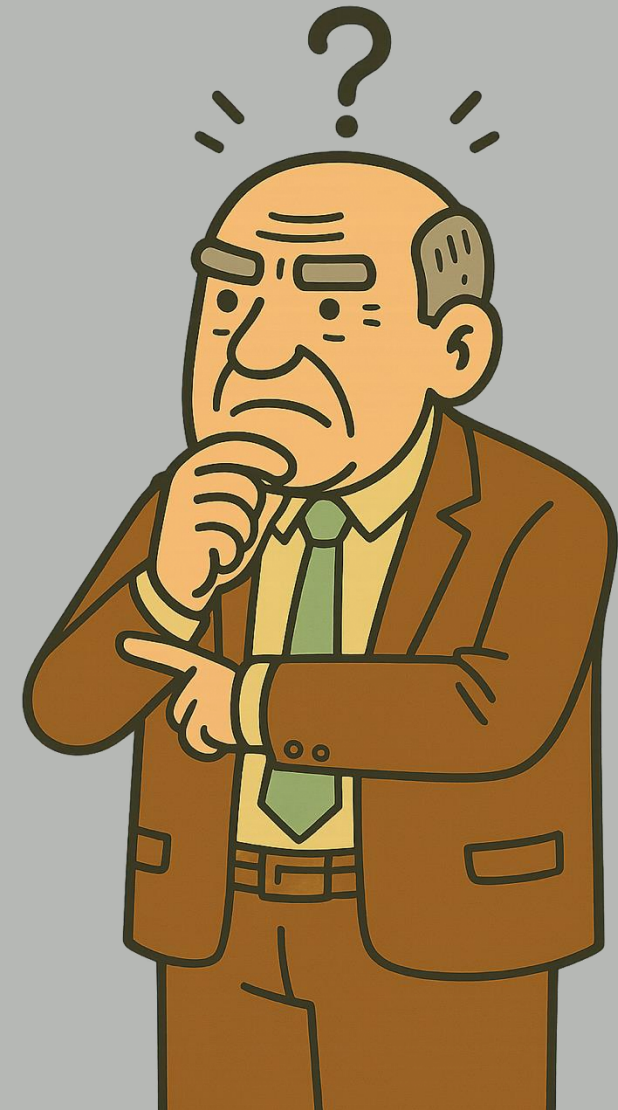
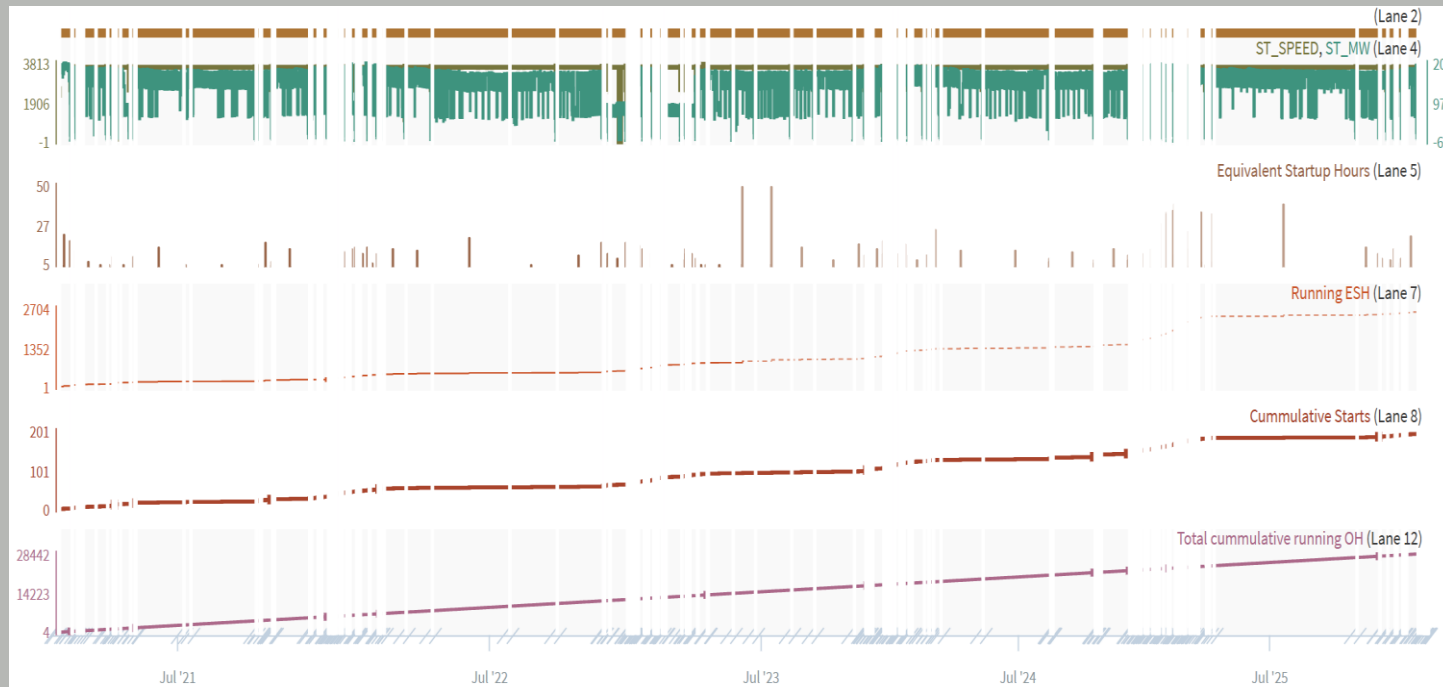
I understand this



Use Case #2 – Outage Planning

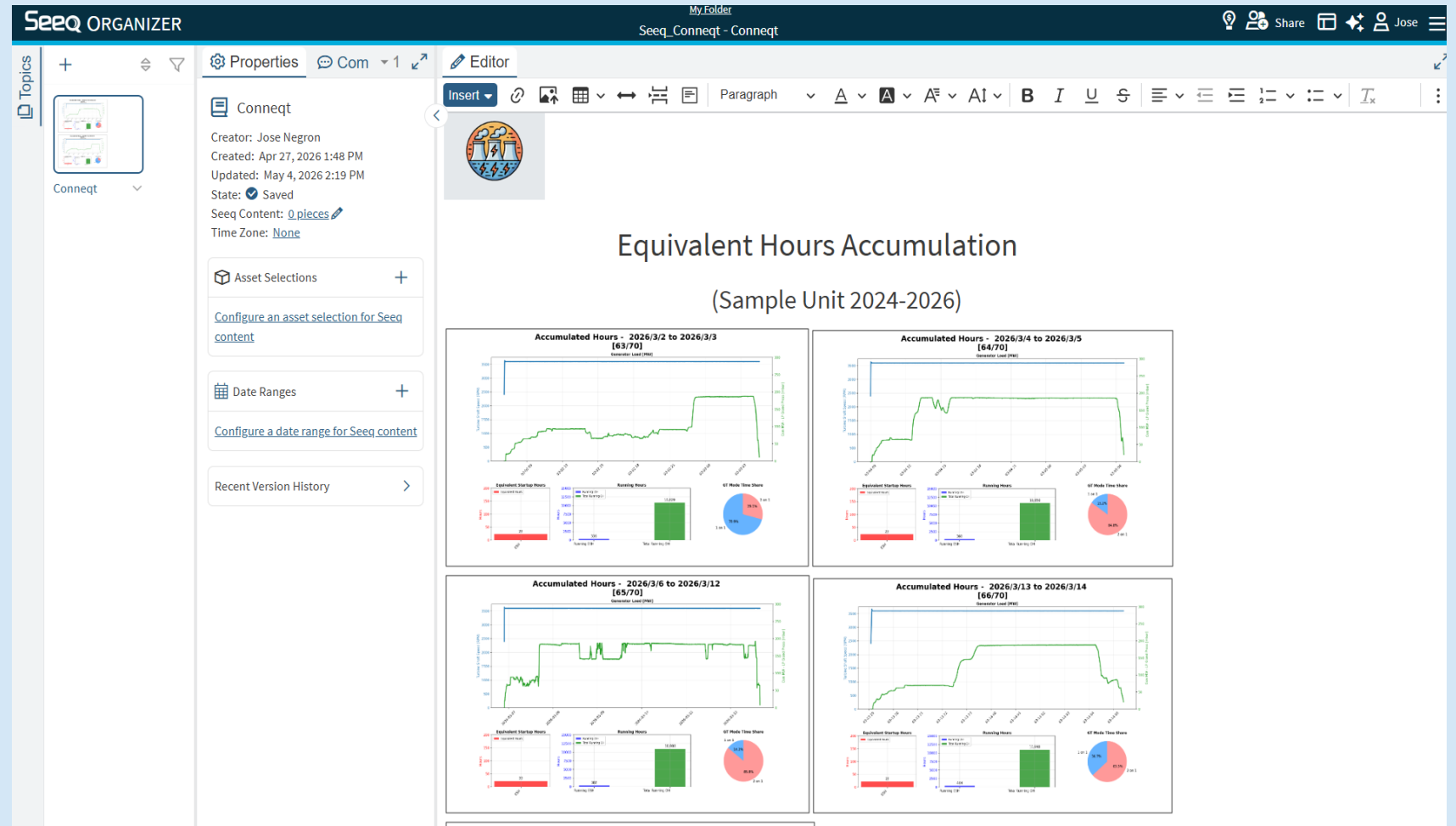
- We want to create a record of operating hours and make it available to non Seeq users.
- EOH is used to plan outages per vendor's recommendations.
- Steam turbine start modes can be adjusted to align outages with combustion turbine hours.
- A condition to track Equivalent Operating Hours (EOH) is created.
 - EOH is the sum of turbine running hours plus startup 'penalty'

Complicated visualization



Get capsules over to an Organizer

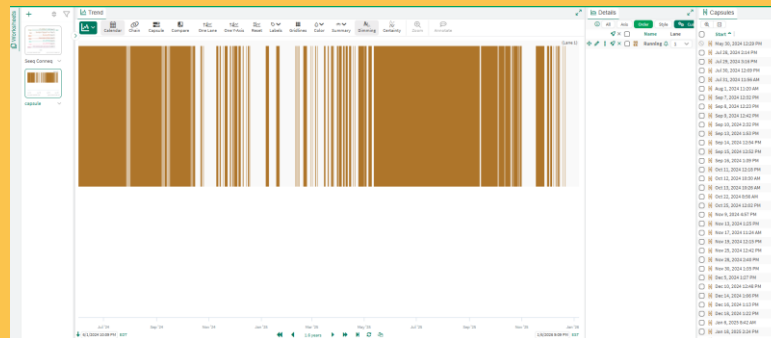
The idea is to get pretty plots over to an Organizer Topic for Visualization



Data Setup



1. Setup trends in workbench

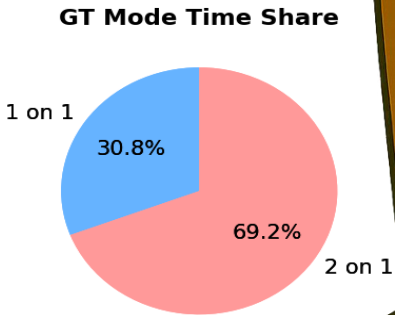
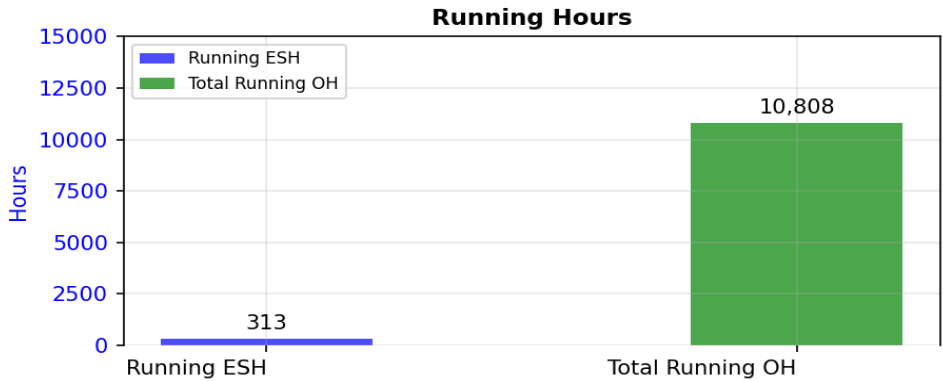
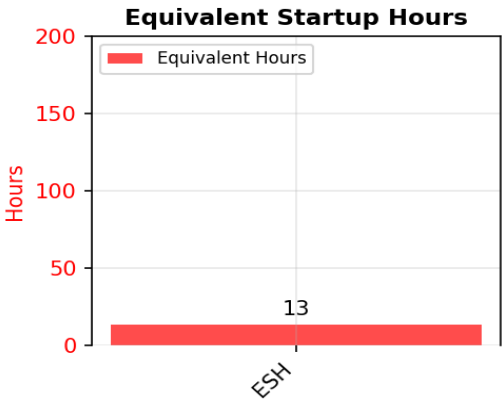
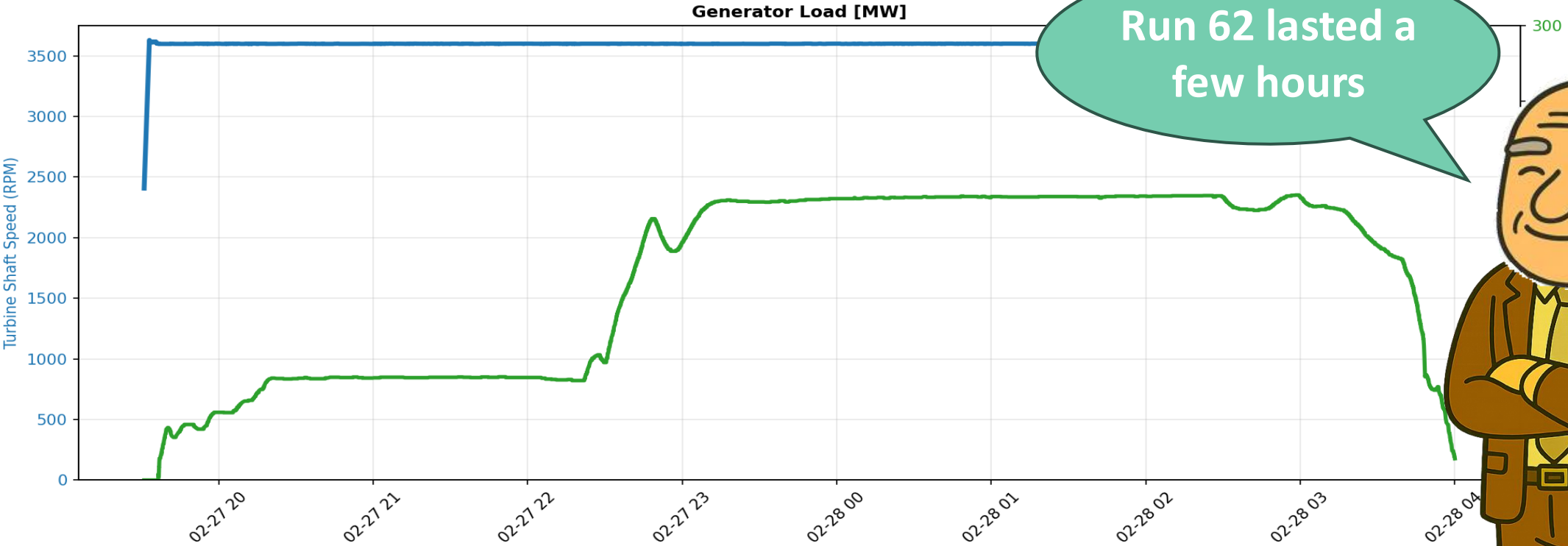


2. Setup the condition

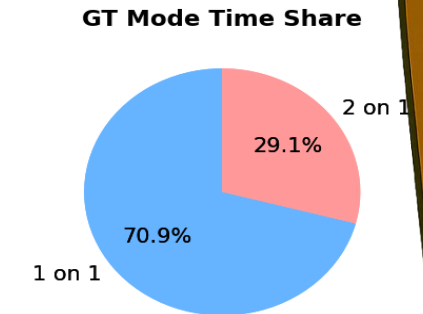
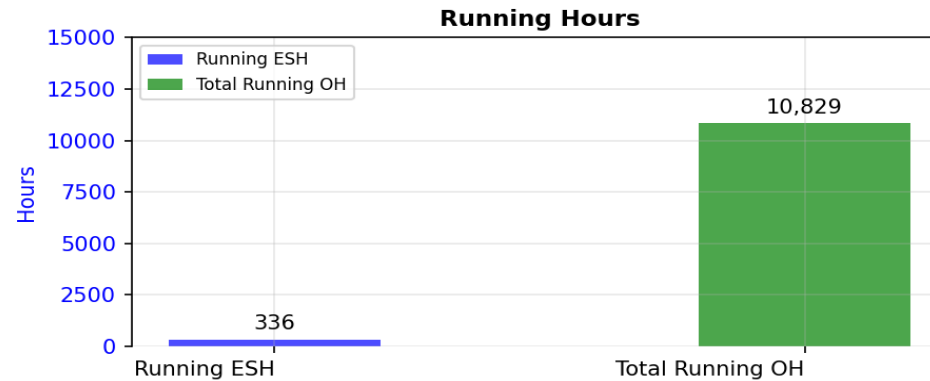
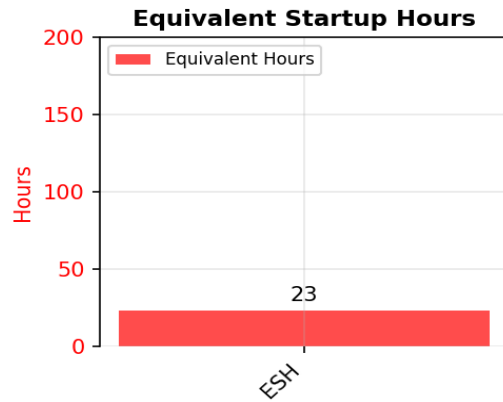
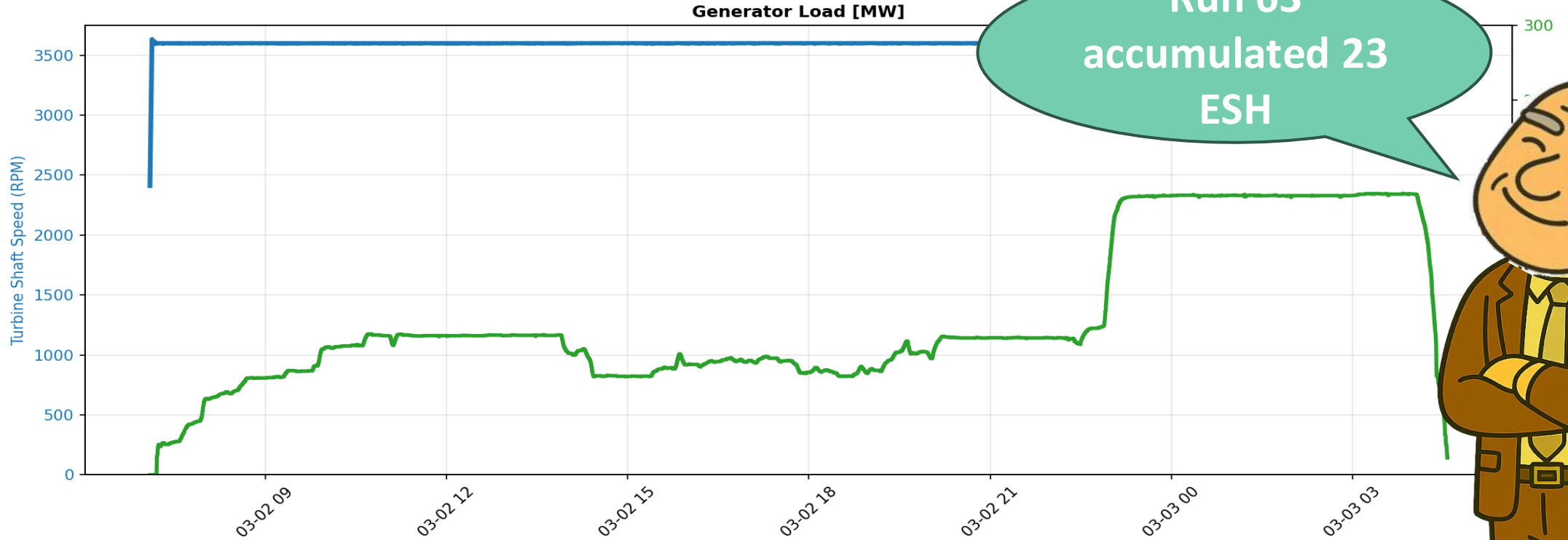


3. Push to Data Lab

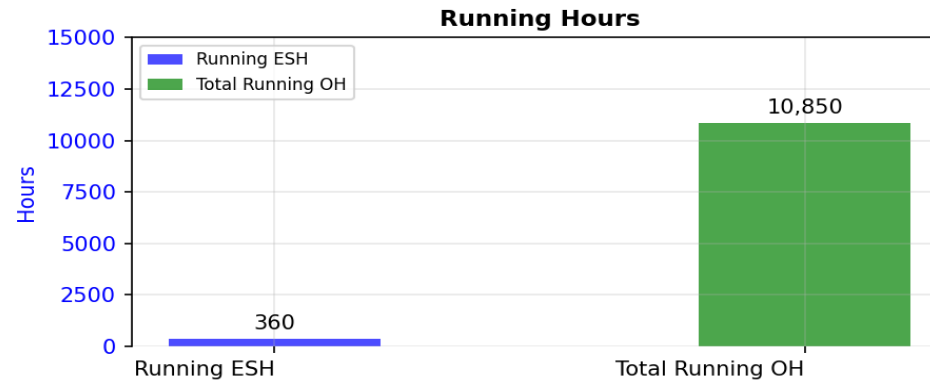
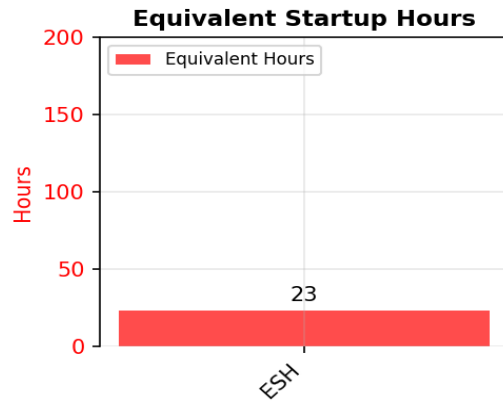
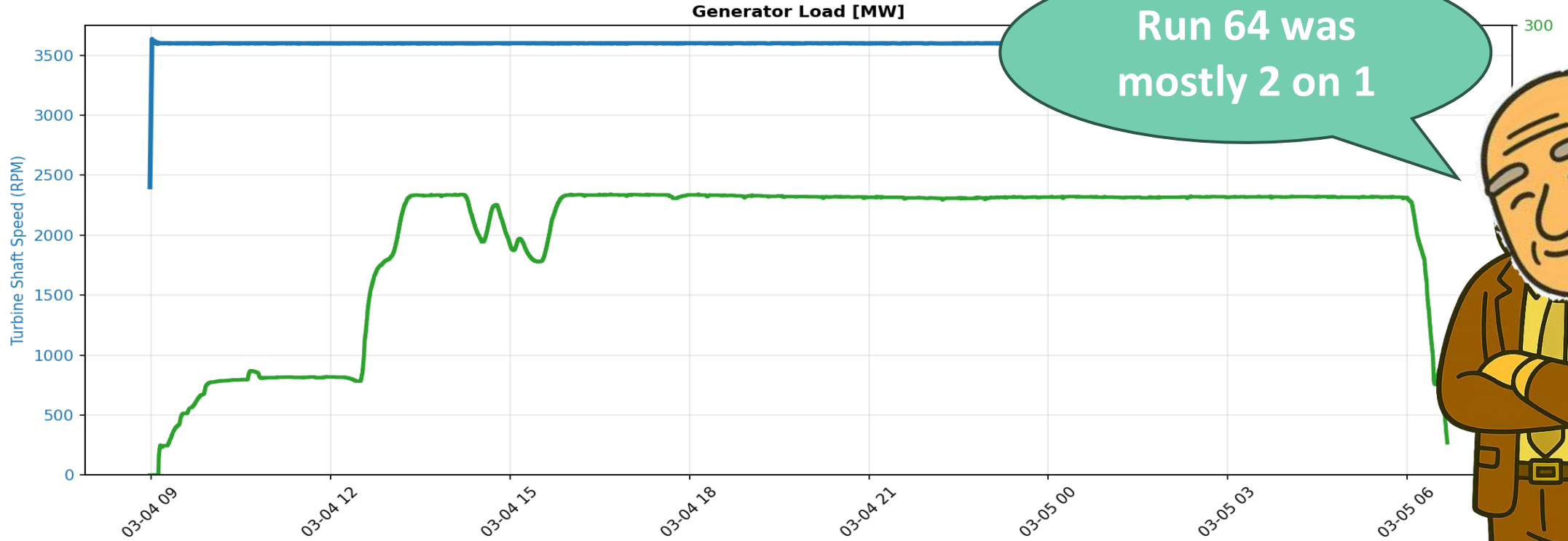
Accumulated Hours - 2026/2/27 to 2026/2/28 [62/70]



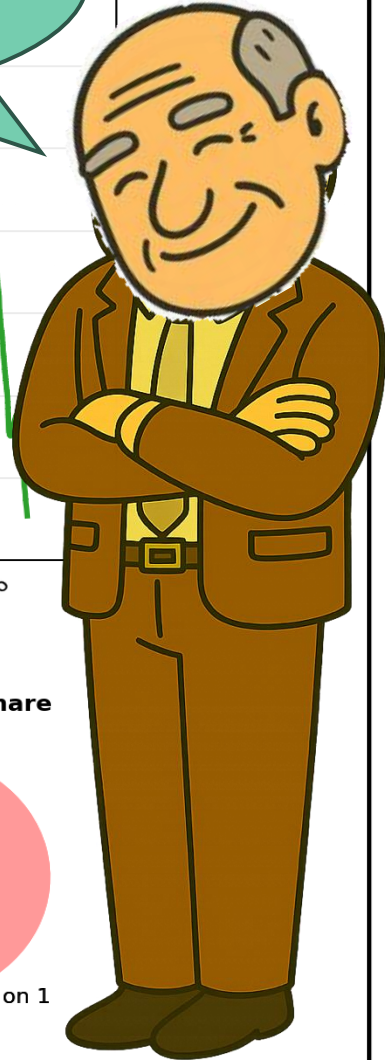
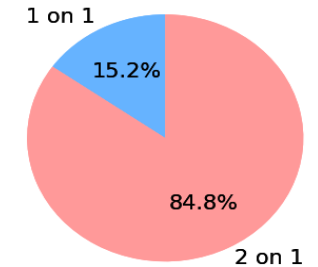
Accumulated Hours - 2026/3/2 to 2026/3/3 [63/70]



Accumulated Hours - 2026/3/4 to 2026/3/5 [64/70]

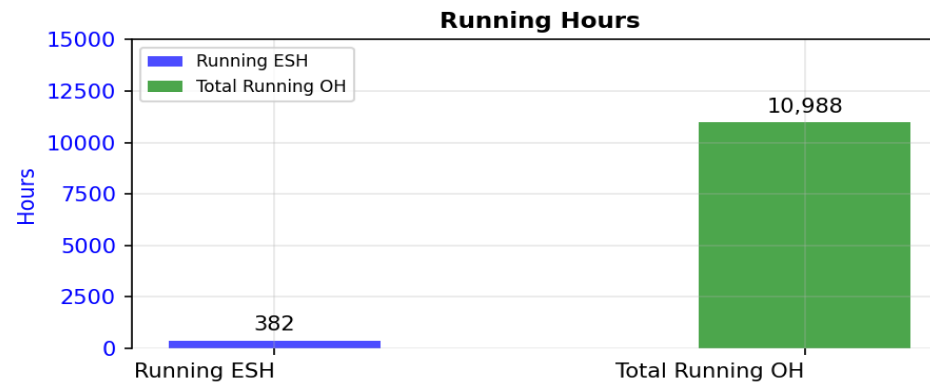
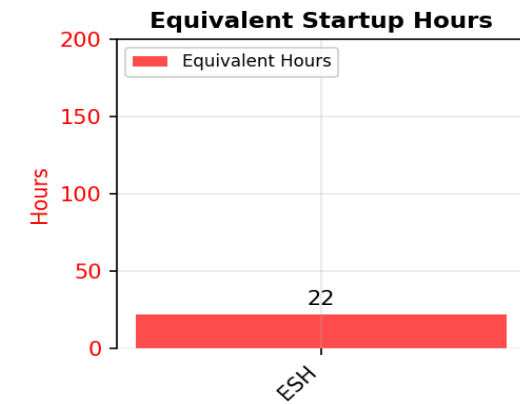
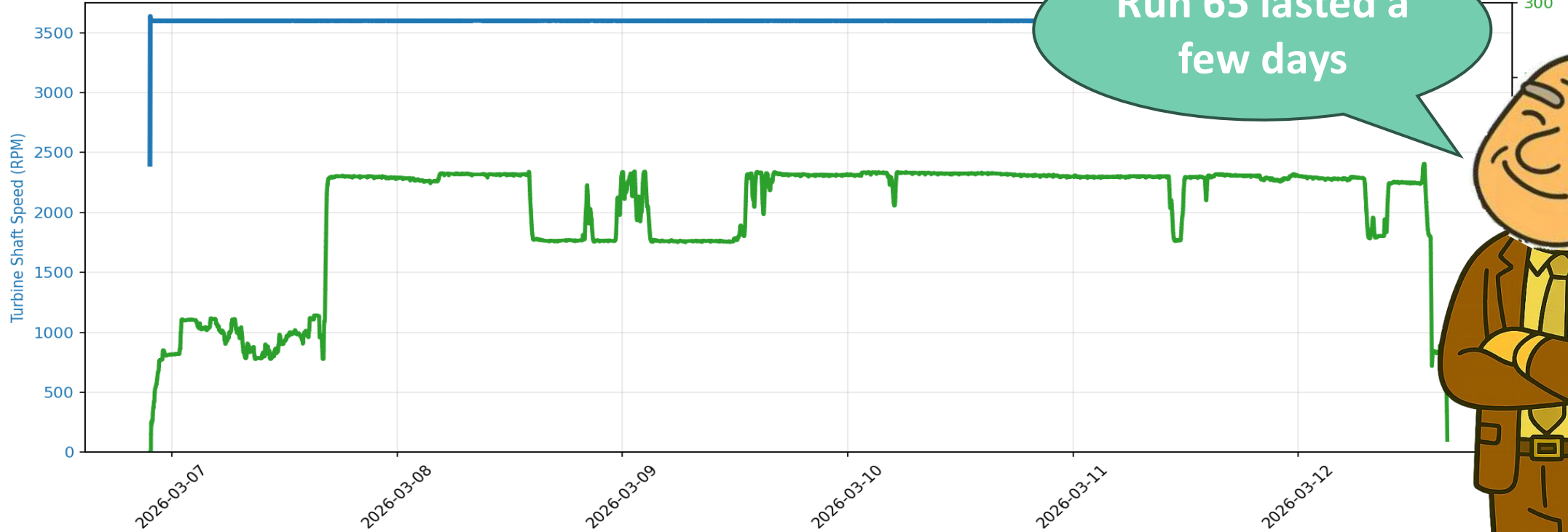


GT Mode Time Share

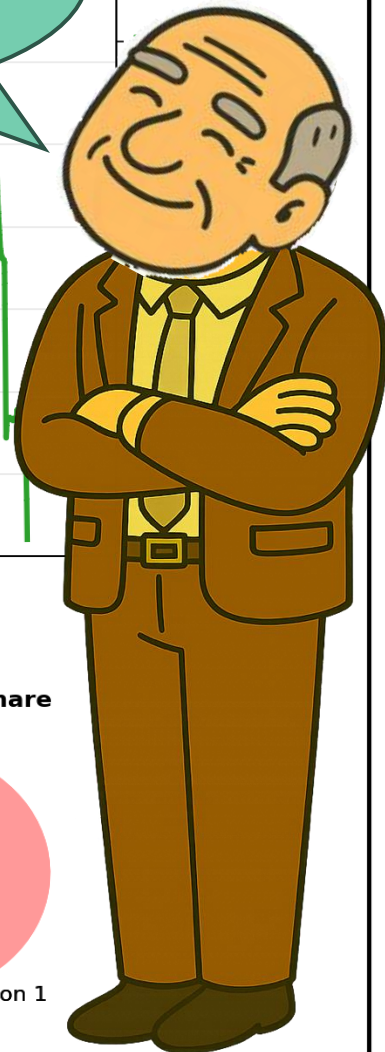
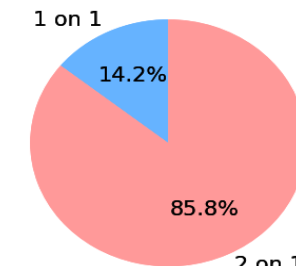


Accumulated Hours - 2026/3/6 to 2026/3/12 [65/70]

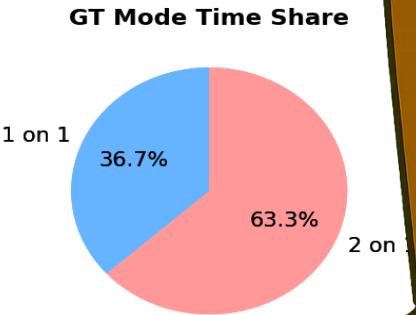
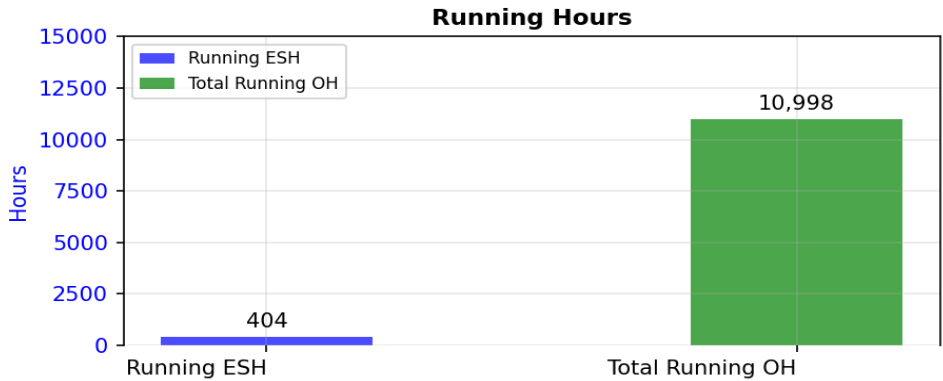
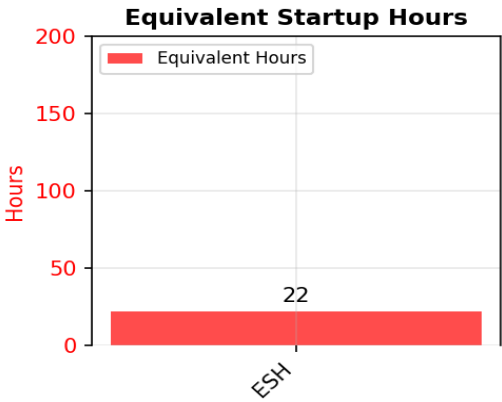
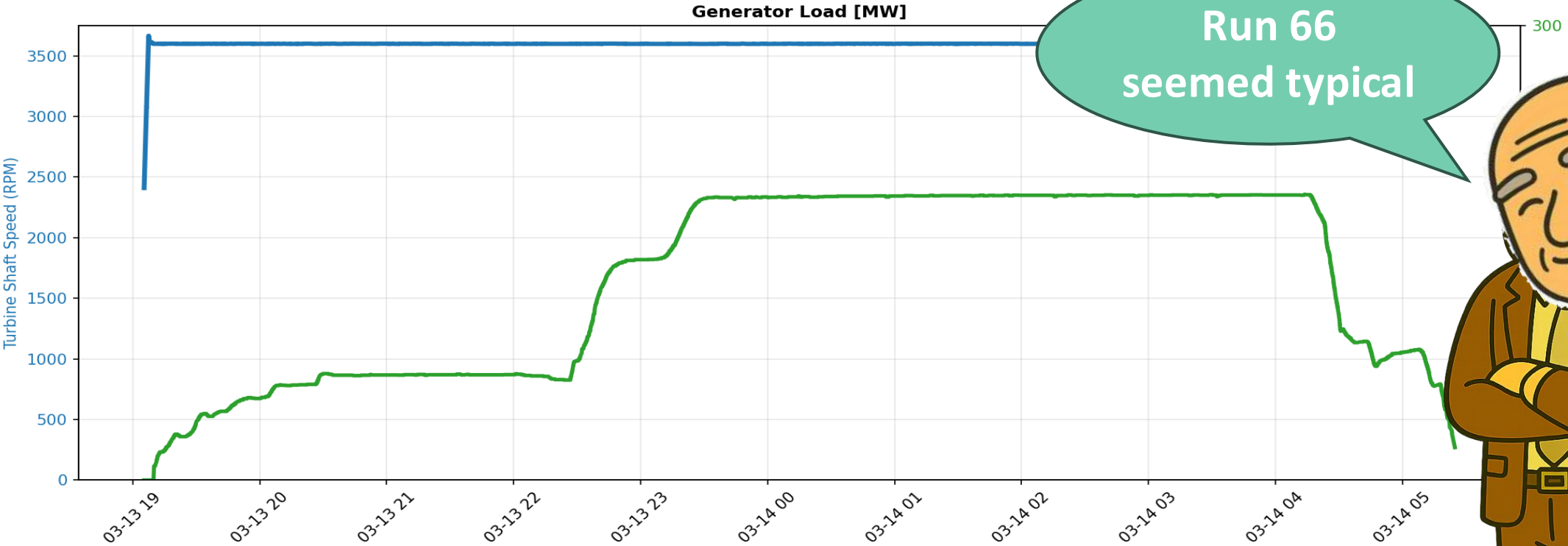
Generator Load [MW]



GT Mode Time Share

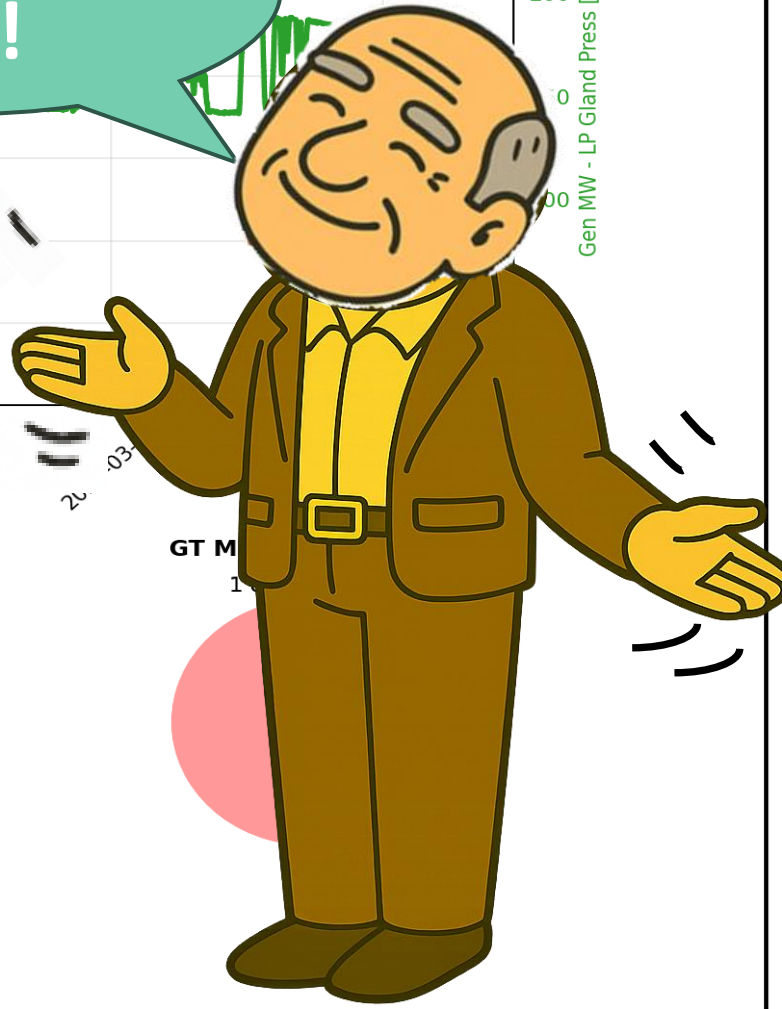
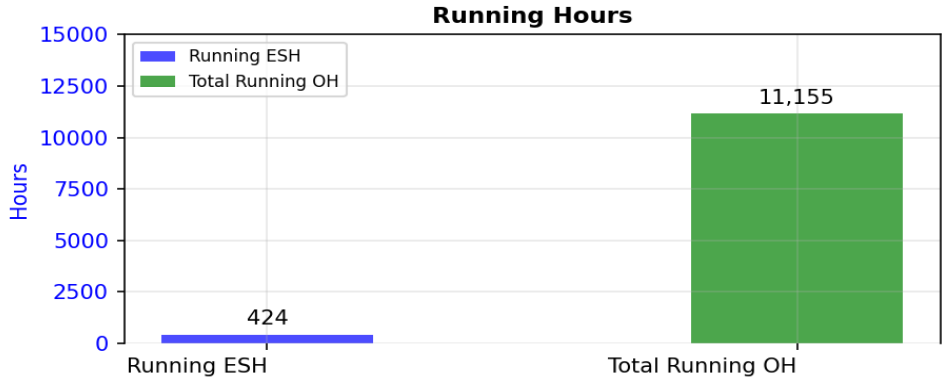
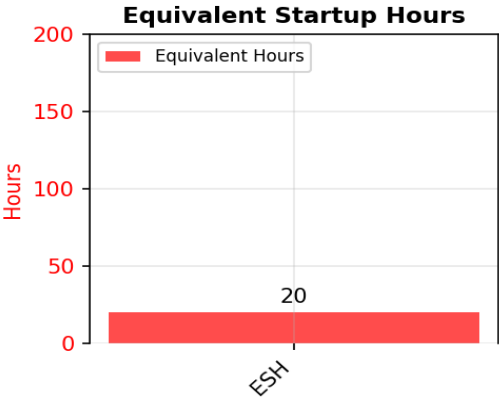
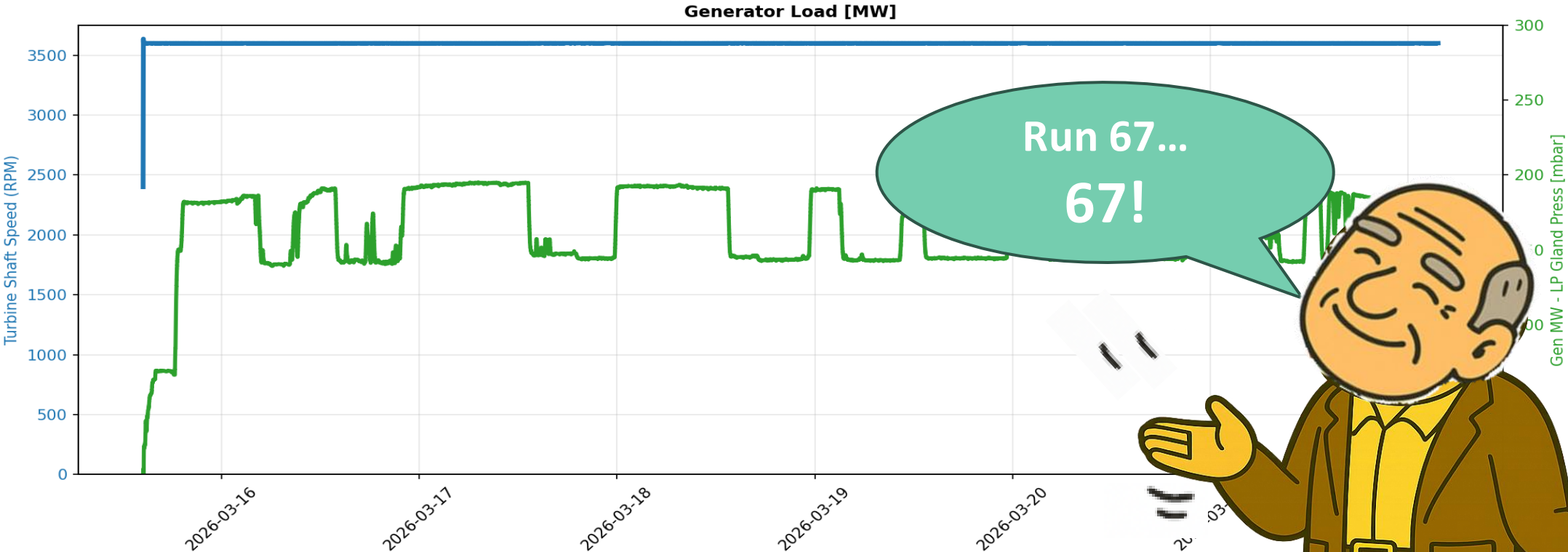


Accumulated Hours - 2026/3/13 to 2026/3/14 [66/70]



Accumulated Hours - 2026/3/15 to 2026/3/22

[67/70]



Use Case #3 – Root Cause Investigation

- Some rotors were exhibiting significant signs of fatigue when compared to the rest of the fleet.
- A proposed contributor to this was high seal steam temperature applied before synchronization.
- To measure the total duration and magnitude above a threshold, individual startup plots were created and compared.
- Comparison between units was made and a correlation was established.

Case #3:

Seeq ORGANIZER

My Folder > Drax Organizer

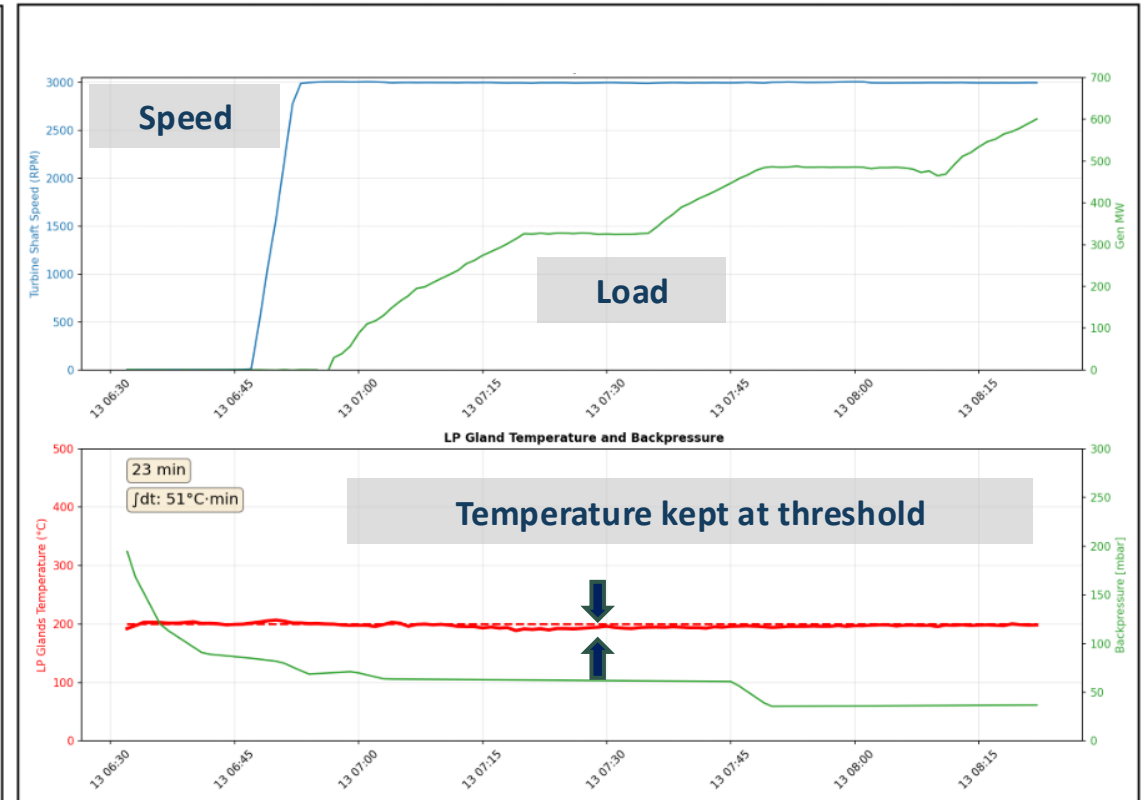
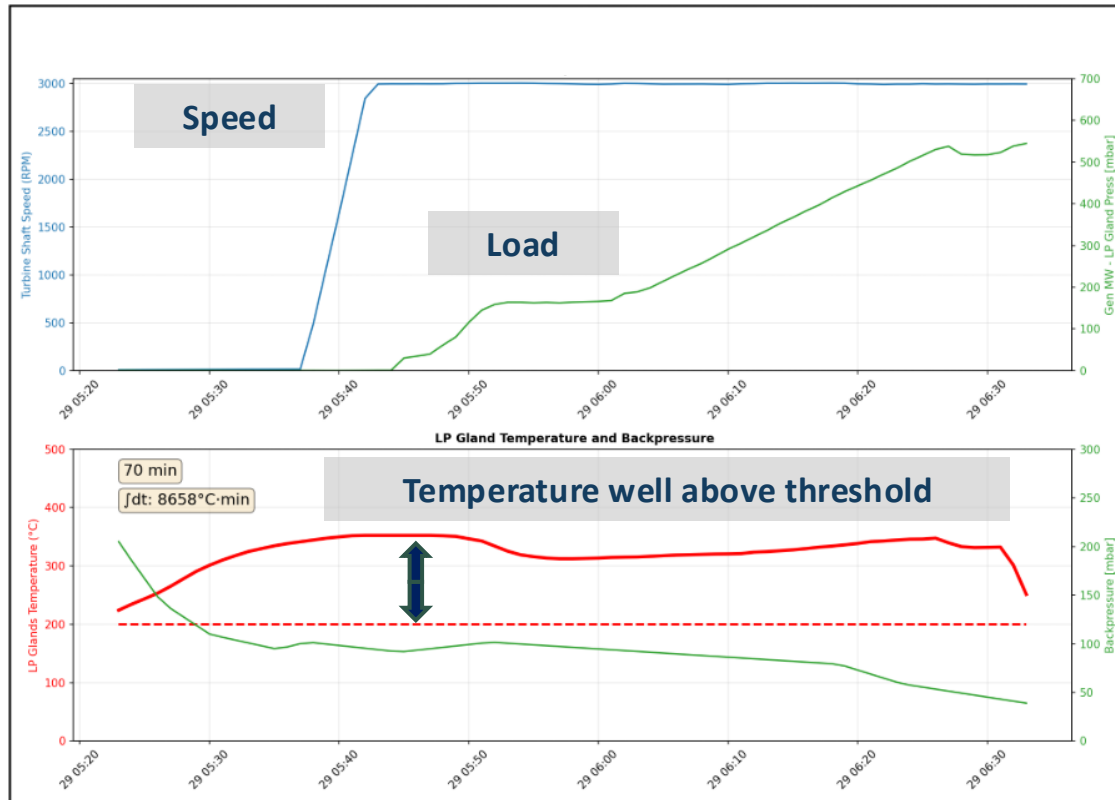
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Question?



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