

Tableau mobile app and dashboards



The idea was to provide the operator of the equipment a dashboard for monitoring emissions and fuel costs

Key points

Quick to understand

Easy to tell status and actions required

Simple dashboard

Basic idea

Green light means optimal configuration for low emissions and fuel costs

Yellow light means change could improve

Red light means inefficient condition, change needed

OPERATOR KPI MOBILE APP

The main KPI Application shows current configuration status and suggested-optimal number of engines that should be active with current engines load. KPI status is defined on the Tableau project in the [Engine Flag] variable. This variable presents values This variable is dependent on the time that current configuration lasts:

Definition:

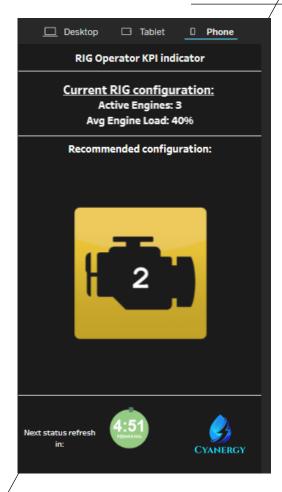
IF [Config Duration]/60<21 THEN [Config]

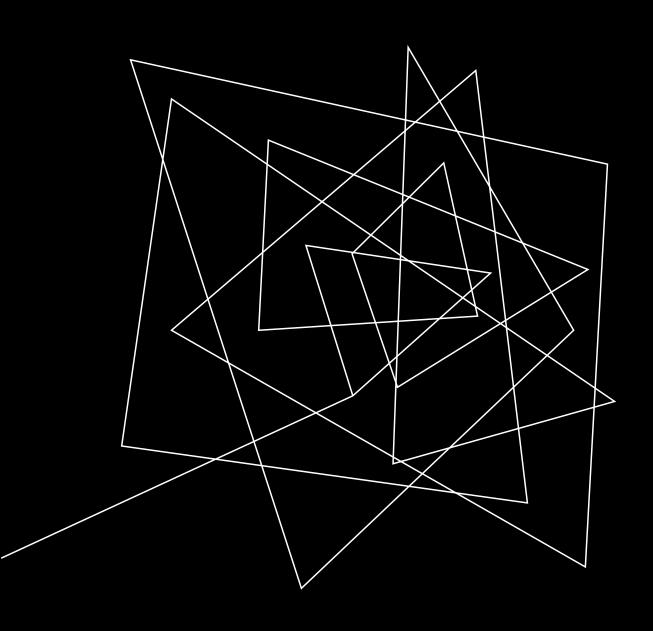
ELSEIF [Config Duration]/60>=21 AND [Config Duration]/60<41 THEN [Config21]

ELSEIF [Config Duration]/60 > 41 THEN [Config41] END

Data between the KPI and data source is refreshed every 5 minutes. This is based on the Tableau Extension "Auto Refresh by Starschema. This extension is supported by Tableau:

https://extensions.tableauusercontent.com/sandbox/auto-refresh/index.html





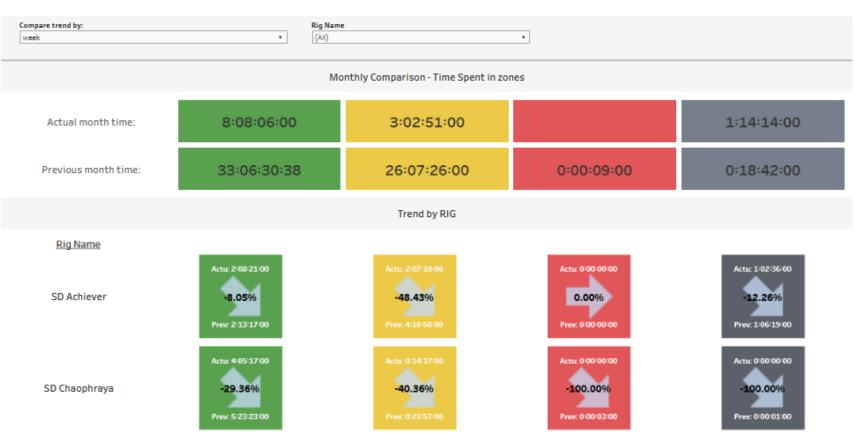
MANAGMENT DASHBOARDS

Trends and stistics

Executive dashboard time	Executive dashboard emissions	Emissions weekly report	
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Executives reports - efficiency





Dashboard presents trend over the monthly period of total time spent in Green/Yellow/Red and Idle status.

<u>Green</u> status relates to the highest efficiency - in this configuration, Rig works at its best.

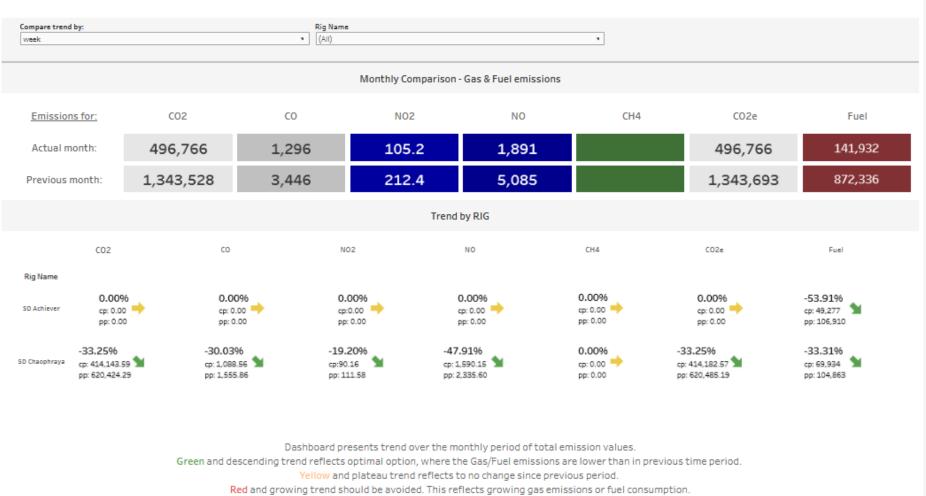
<u>Yellow</u> status should not be maintained for a long time. In this case, the Rig is not in its highest efficiency.

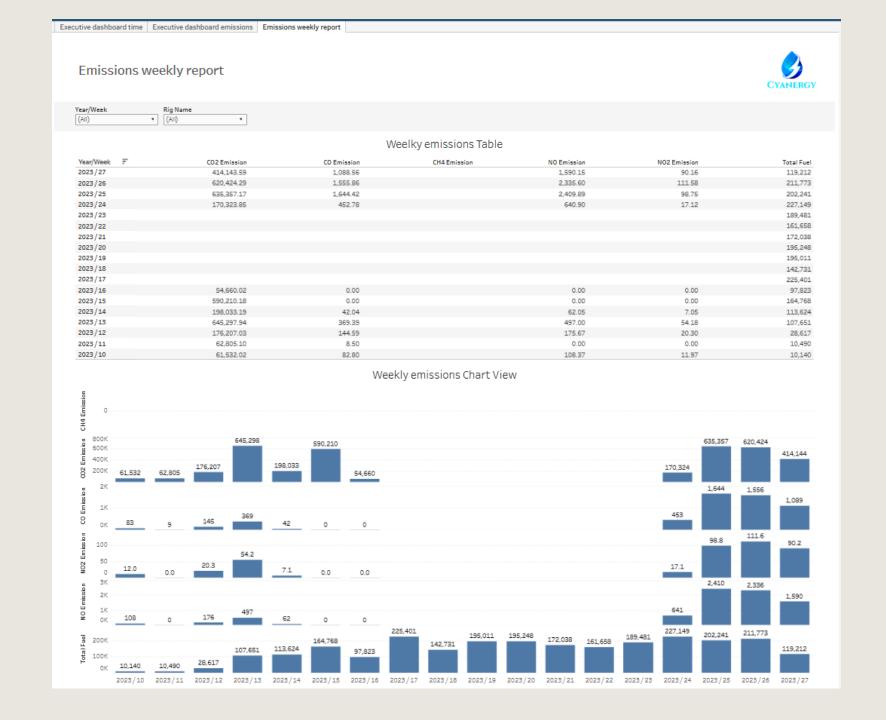
<u>Red</u> status should be avoided. This is highly insufficient configuration of the rig.

<u>Gray</u> status presents idle status when engines are off.

Executives reports - emissions







CO2 Gas Emissions



