Energy Consumption Optimization

Furnace_ID | Shift | Batch_Type | Fuel_Type

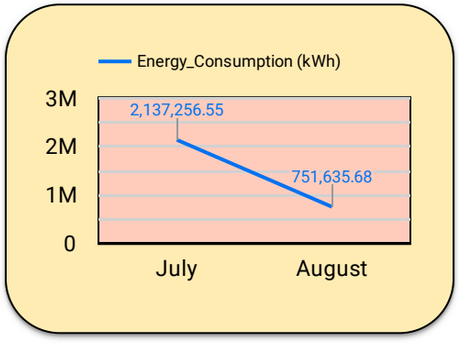
Energy_Consumption (kWh)
2,888,892.22

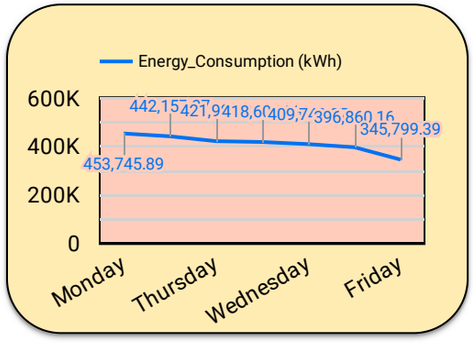
Production_Output (tons)
112.6K

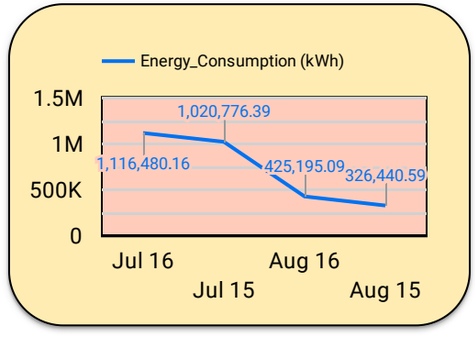
Efficiency (%)
5,484.19

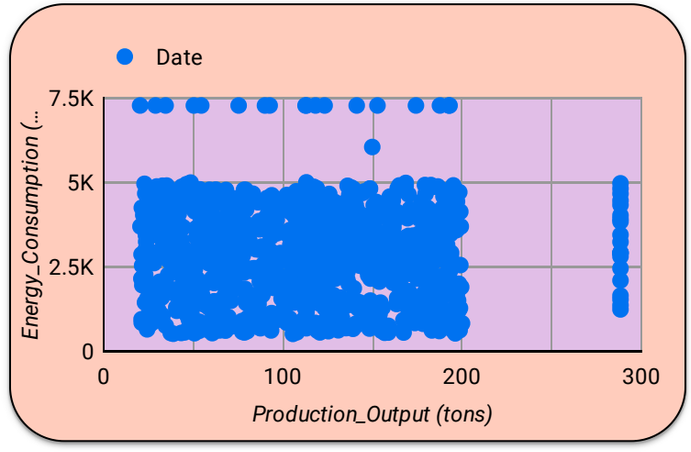
Defects_Percentage (%)
5,013.82

Date

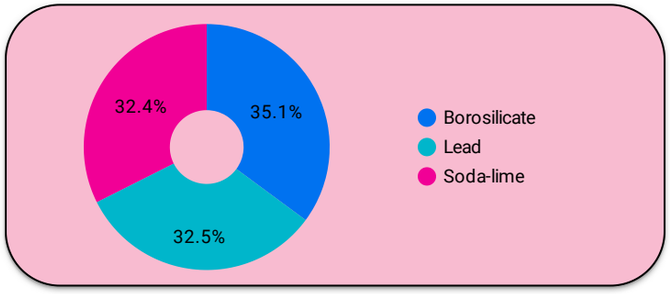




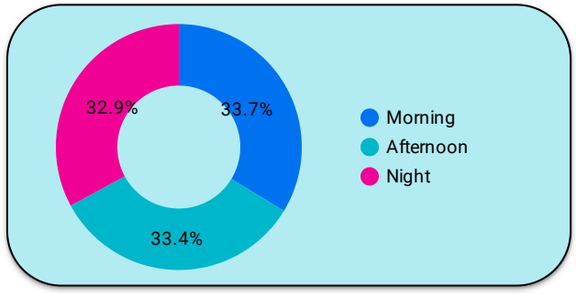




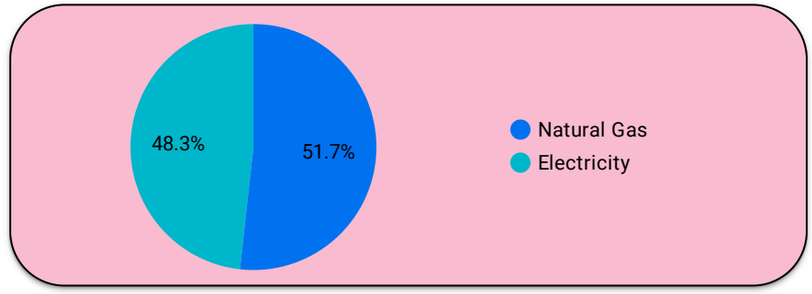
Batch_Type by Energy_Consumption (kWh)



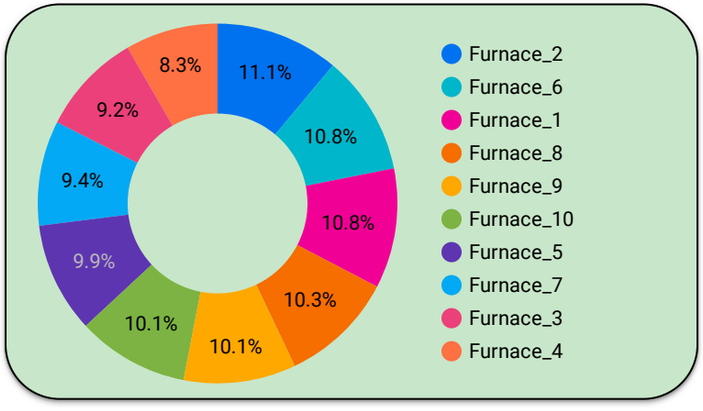
Shift by Energy_Consumption (kWh)



Fuel_Type by Energy_Consumption (kWh)

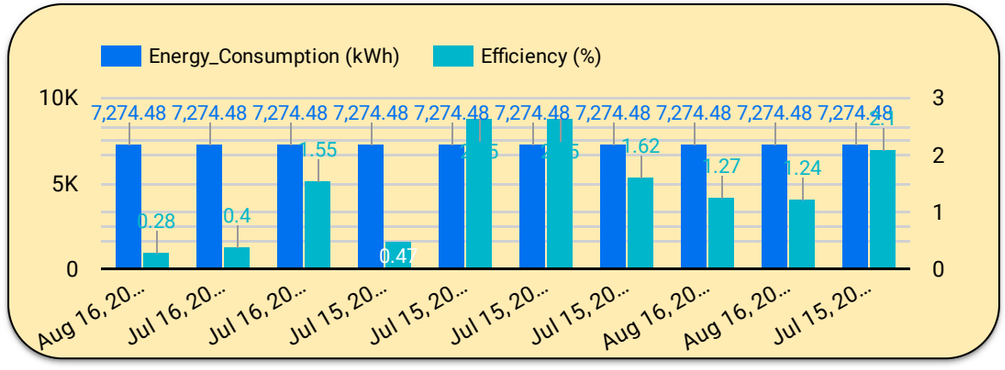


Furnace_ID by Energy_Consumption (kWh)

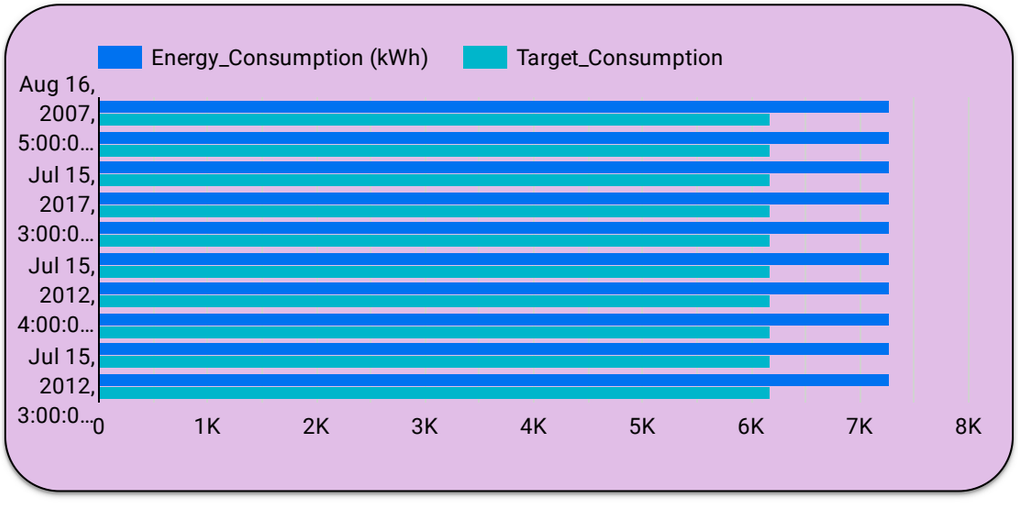


The combo chart highlights energy efficiency trends over time, showing periods where consumption is high but efficiency is low, signalling potential inefficiencies. It reveals whether increased energy usage leads to proportional production gains or waste. By comparing efficiency across shifts, furnace types, or departments, you can pinpoint best practices and areas needing improvement to optimize operations.

Energy_Consumption (kWh) and Efficiency (%) by Date

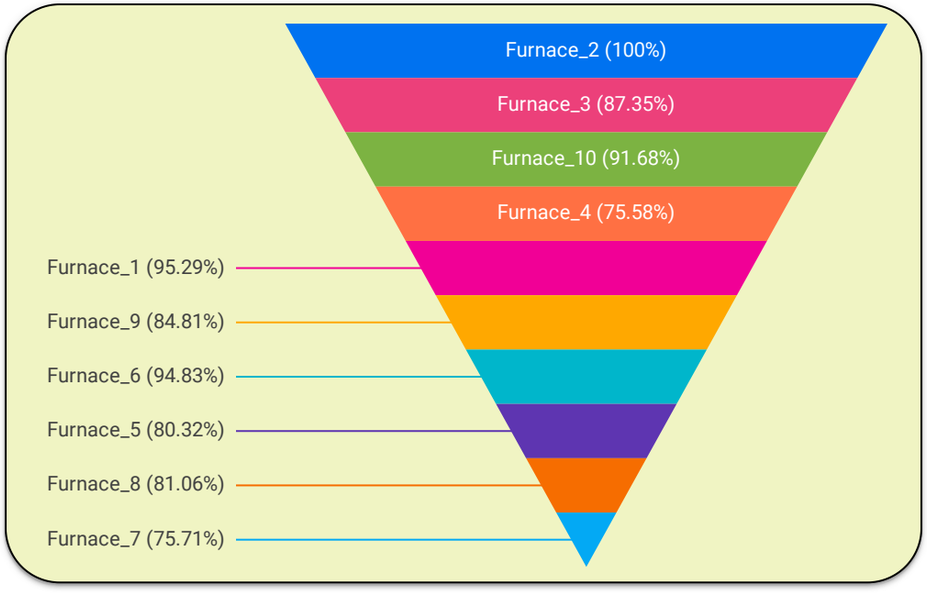


Energy_Consumption (kWh) and Target_Consumption by Date

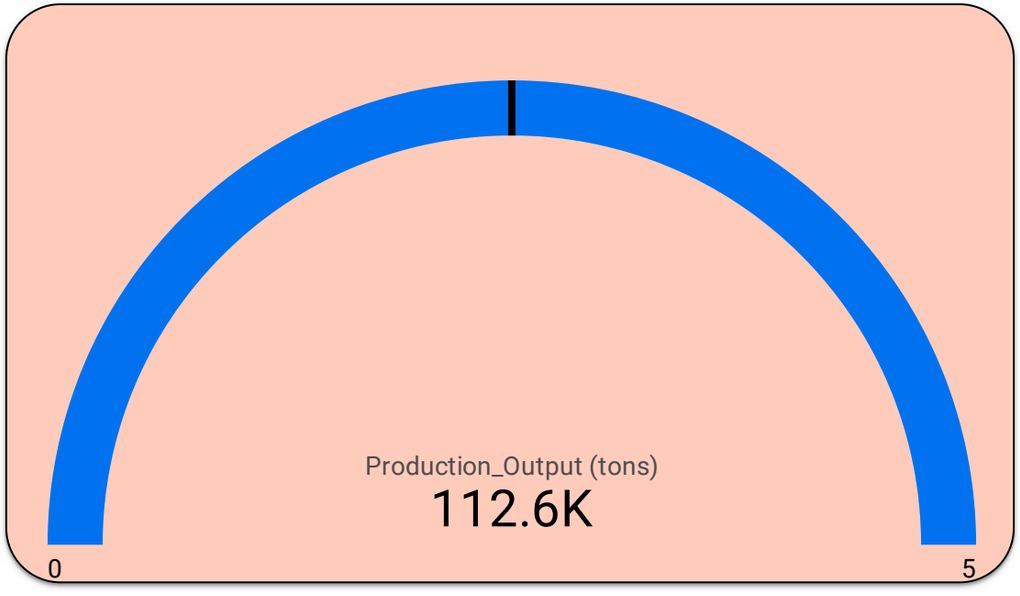


The Energy Consumption vs. Target Consumption chart clearly illustrates that actual energy consumption is significantly higher than the target for 2023. This points to a need for corrective measures, such as optimizing energy usage, improving operational efficiency, or exploring other energy-saving measures to reduce consumption and meet the target. The chart serves as a visual tool to track and highlight areas that require immediate attention to ensure energy savings and cost reduction goals are achieved

Defects_Percentage (%) Funnel



Production_Output (tons), target is 2.5



Production_Output (tons) by Batch_Type and Shift