

Energy Consumption Optimization

Furnace_ID

All

Shift

All

Batch_Type

All

Fuel_Type

Electricity

2.89M

Sum of Energy_Consumption

112.64K

Sum of Production_Output (tons)

5.48K

Sum of Efficiency (%)

5.01

Average of Defects_Percentage

Date

01-01-2023

11-02-2023

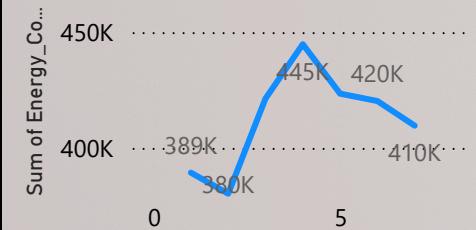
Sum of Energy_Consumption (kWh) by Month



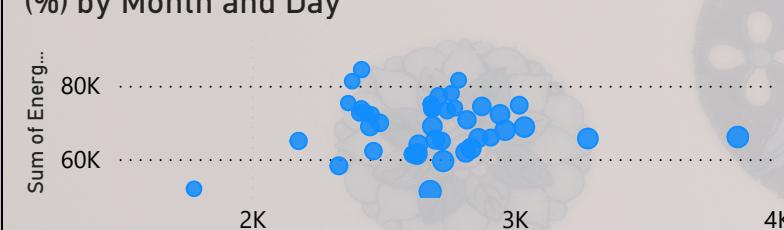
Sum of Energy_Consumption (kWh) by Weekday



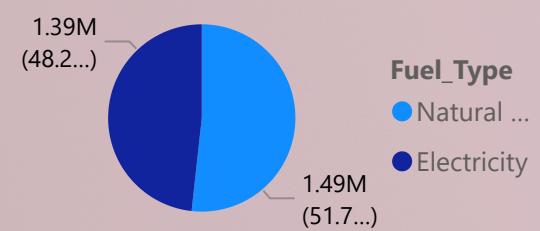
Sum of Energy_Consumption (kWh) by Weekday_Number



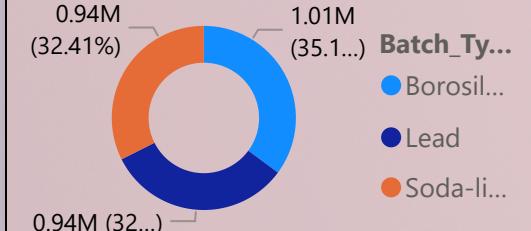
Sum of Production_Output (tons), Sum of Energy_Consumption (kWh) and Sum of Efficiency (%) by Month and Day



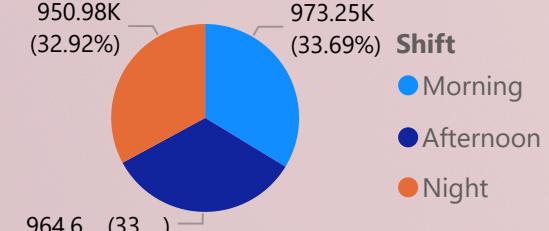
Sum of Energy_Consumption (kWh) by Fuel_Type



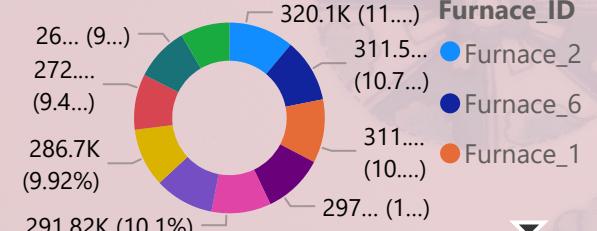
Sum of Energy_Consumption (kWh) by Batch_Type



Sum of Energy_Consumption (kWh) by Shift

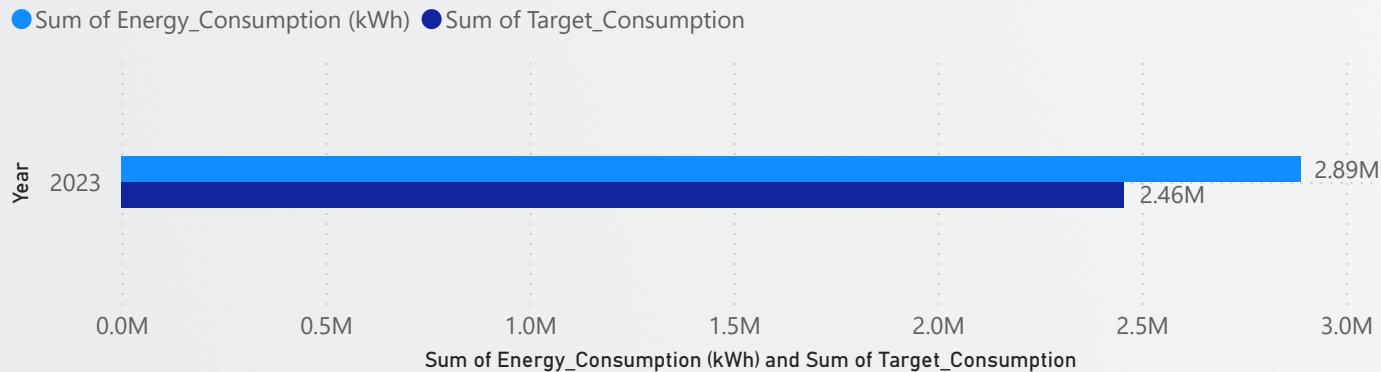


Sum of Energy_Consumption (kWh) by Furnace_ID



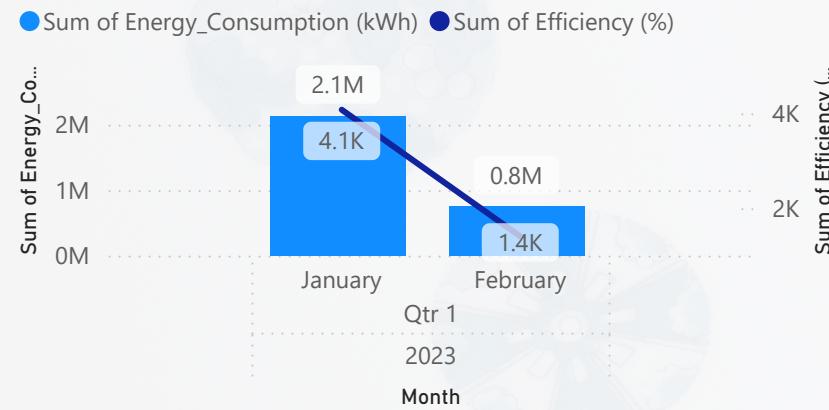
The combo chart highlights energy efficiency trends over time, showing periods where consumption is high but efficiency is low, signalling potential inefficiencies. It reveals whether increased energy usage leads to proportional production gains or waste. By comparing efficiency across shifts, furnace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

Sum of Energy_Consumption (kWh) and Sum of Target_Consumption by Year

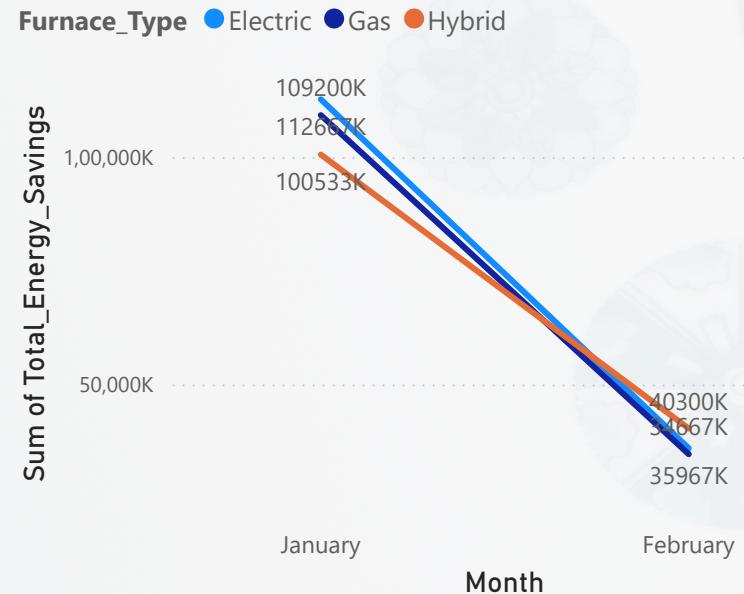


The Energy Consumption vs. Target Consumption chart clearly illustrates that actual energy consumption is significantly higher than the target for 2023. This points to a need for corrective measures, such as optimizing energy usage, improving operational efficiency, or exploring other energy-saving measures 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.

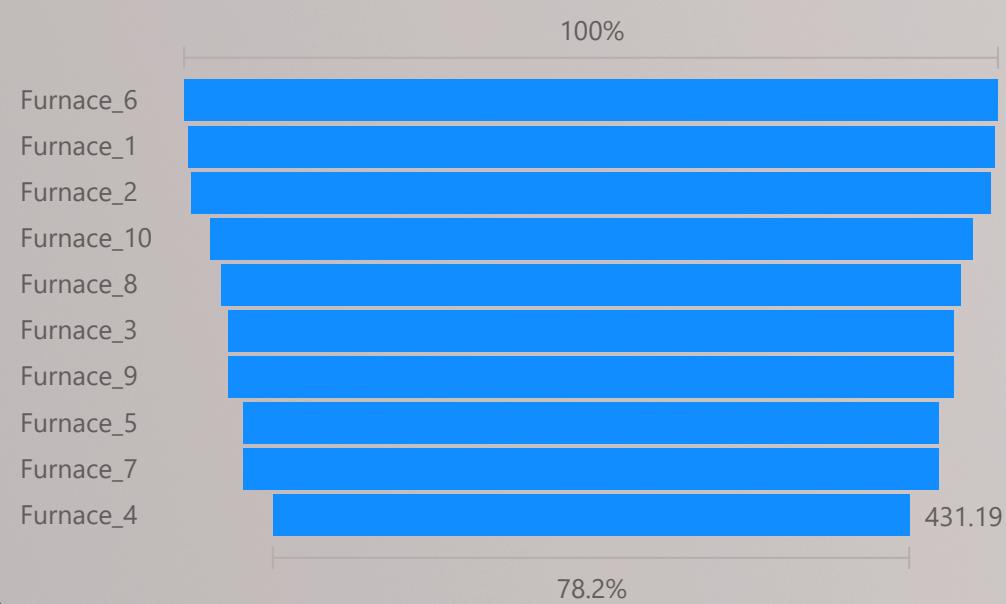
Sum of Energy_Consumption (kWh) and Sum of Efficiency (%) by Year, Quarter and Month



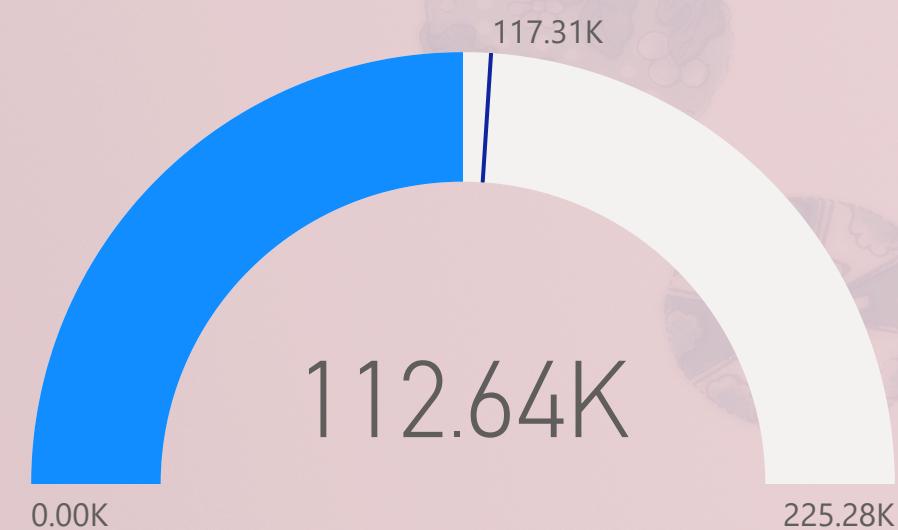
Sum of Total_Energy_Savings by Month and Furnace_Type



Sum of average defect by Furnace_ID



Sum of Production_Output (tons) and Sum of Production_Target (tons)



Sum of Production_Output (tons) by Batch_Type and Shift

Shift ● Afternoon ● Morning ● Night

