

Steel analysis and visuals: PowerBI Dashboard 2

Visuals (additional) that were used for my steel analysis portfolio(s). There might be similar or even identical graphs, plots and tables as the other Steel Analysis Dashboards.

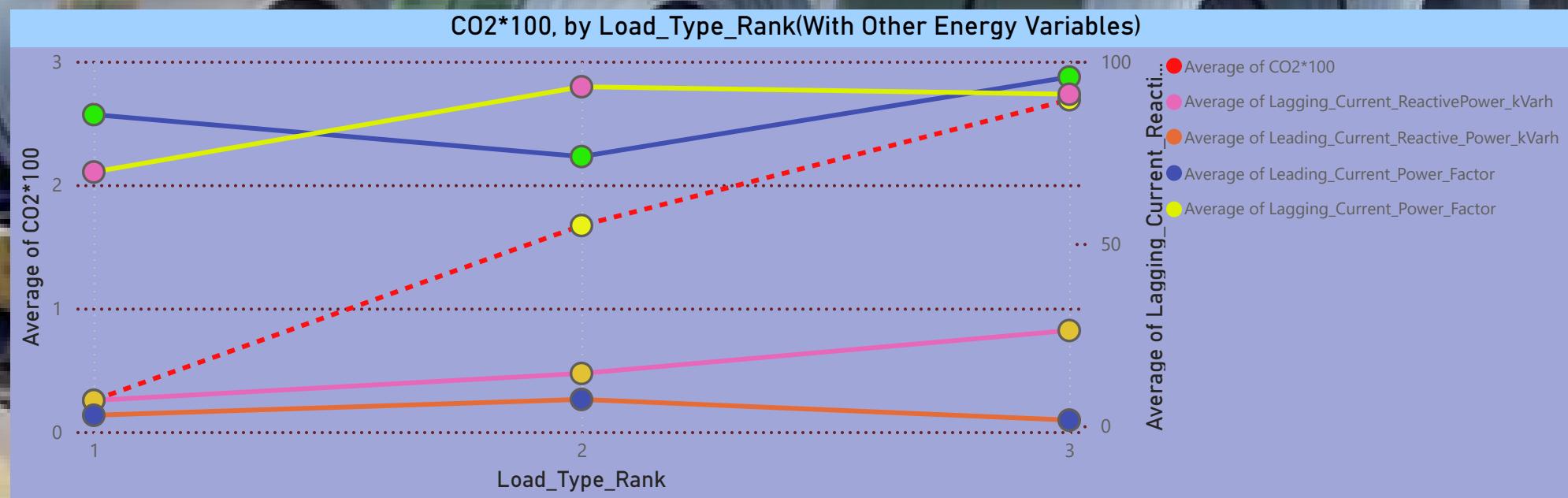
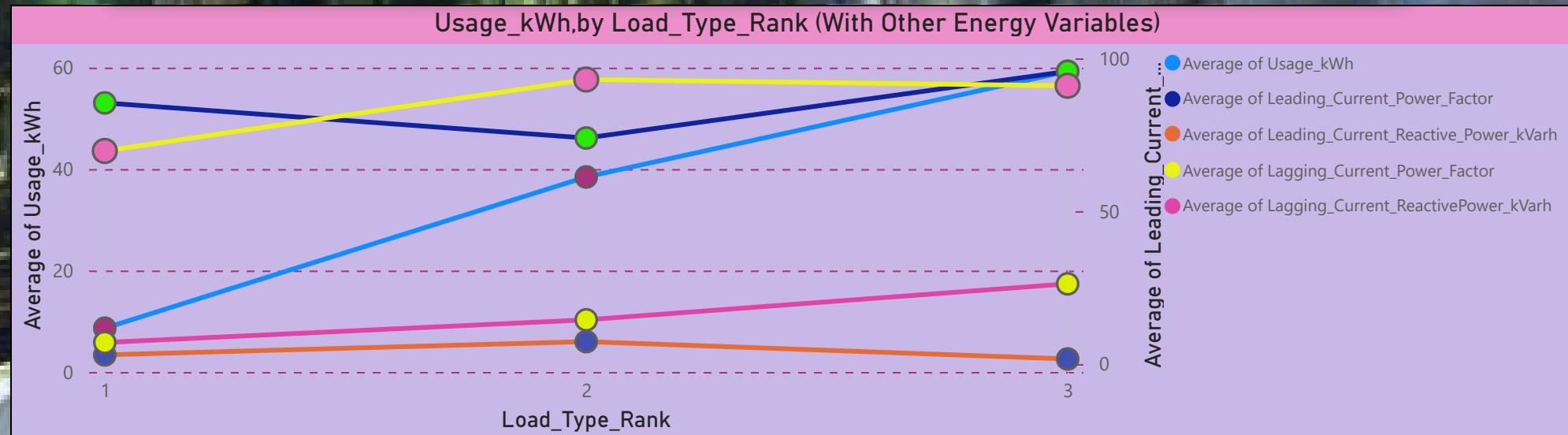
Susan R Schnitzel

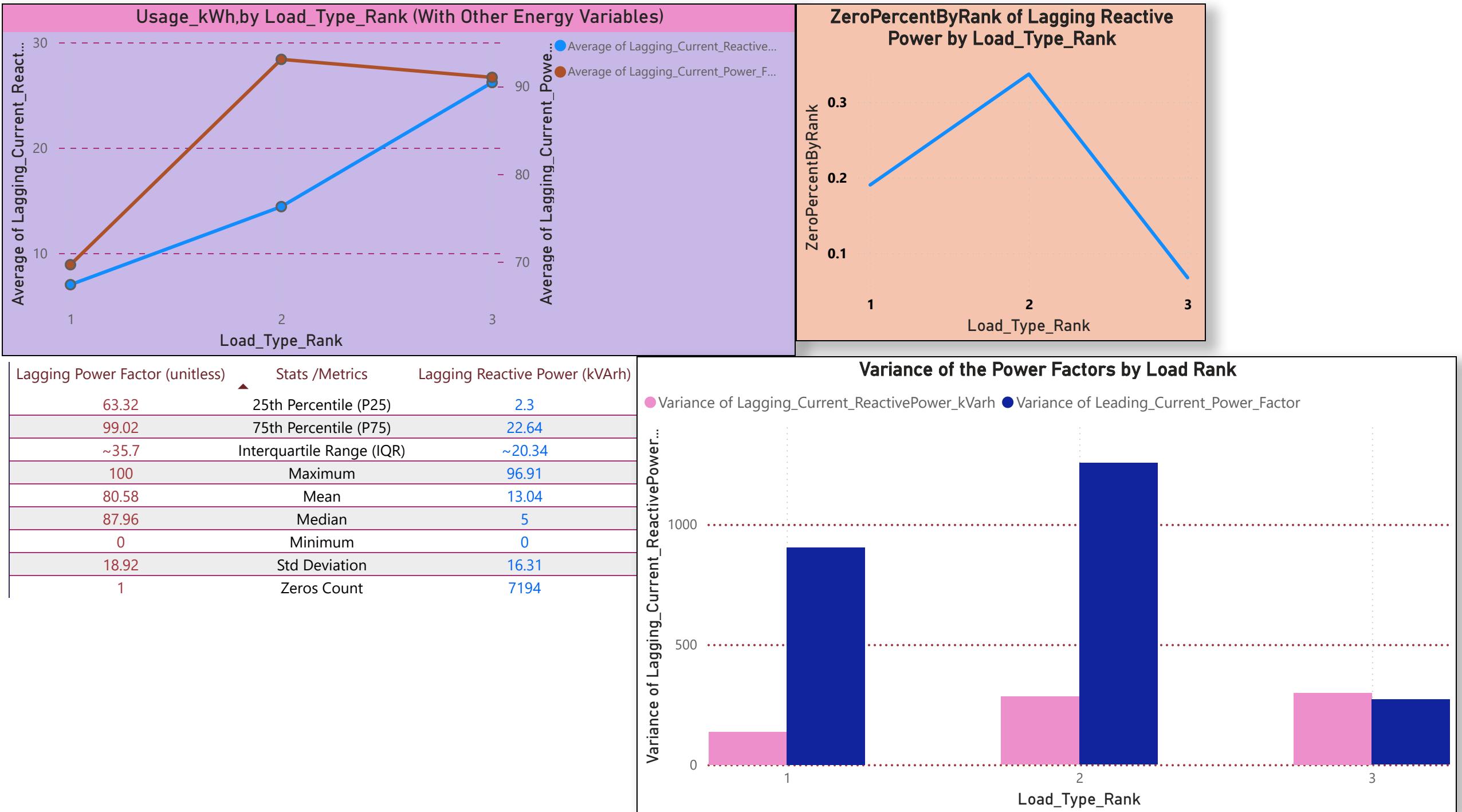
Creation of PDF - Oct 2025





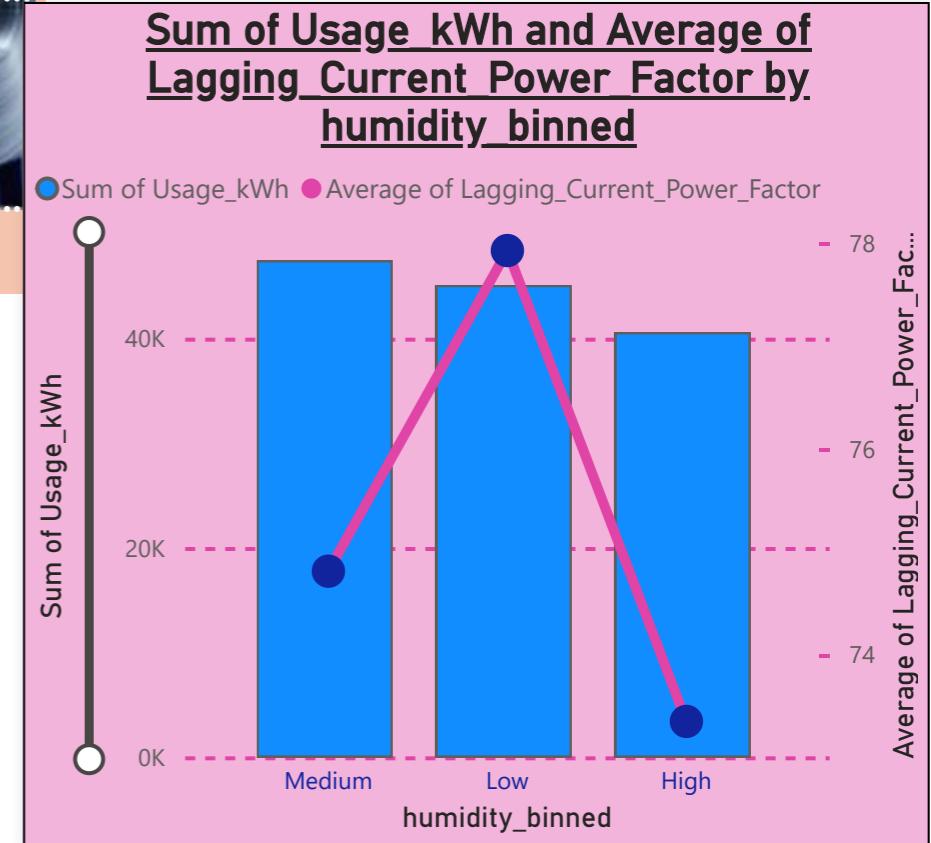
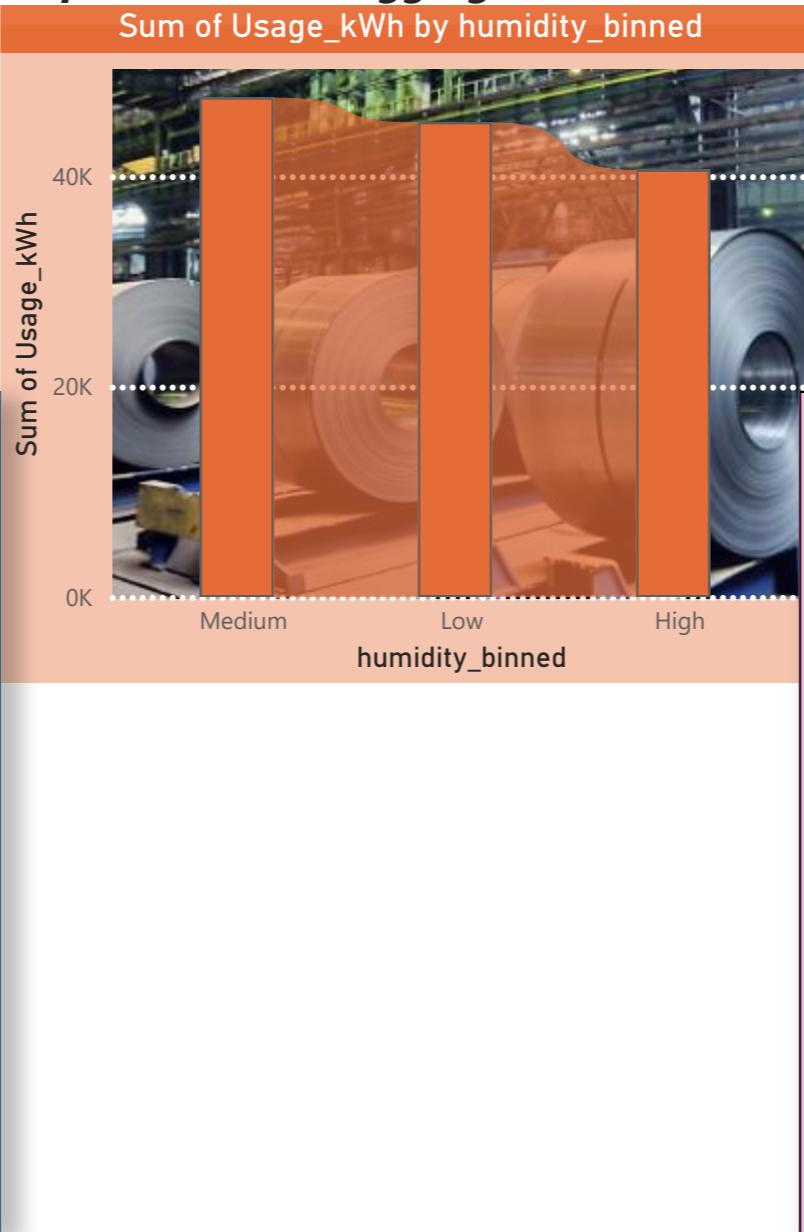
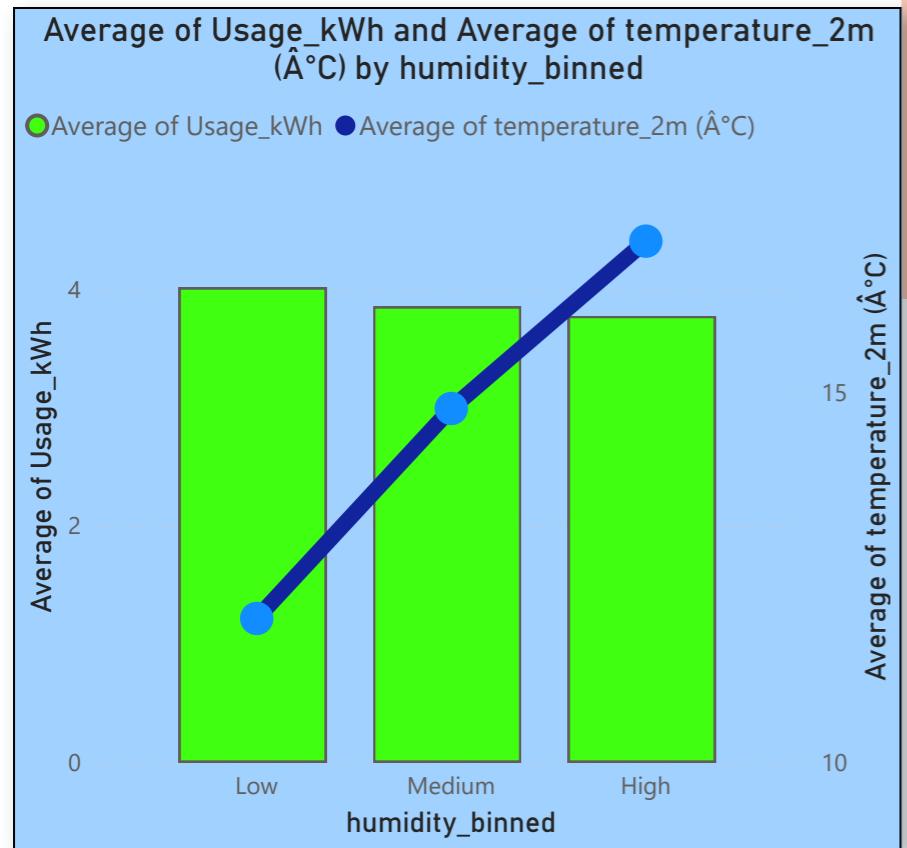
Comparisons of kWh and CO2 with Load Rank (and other energy variables).





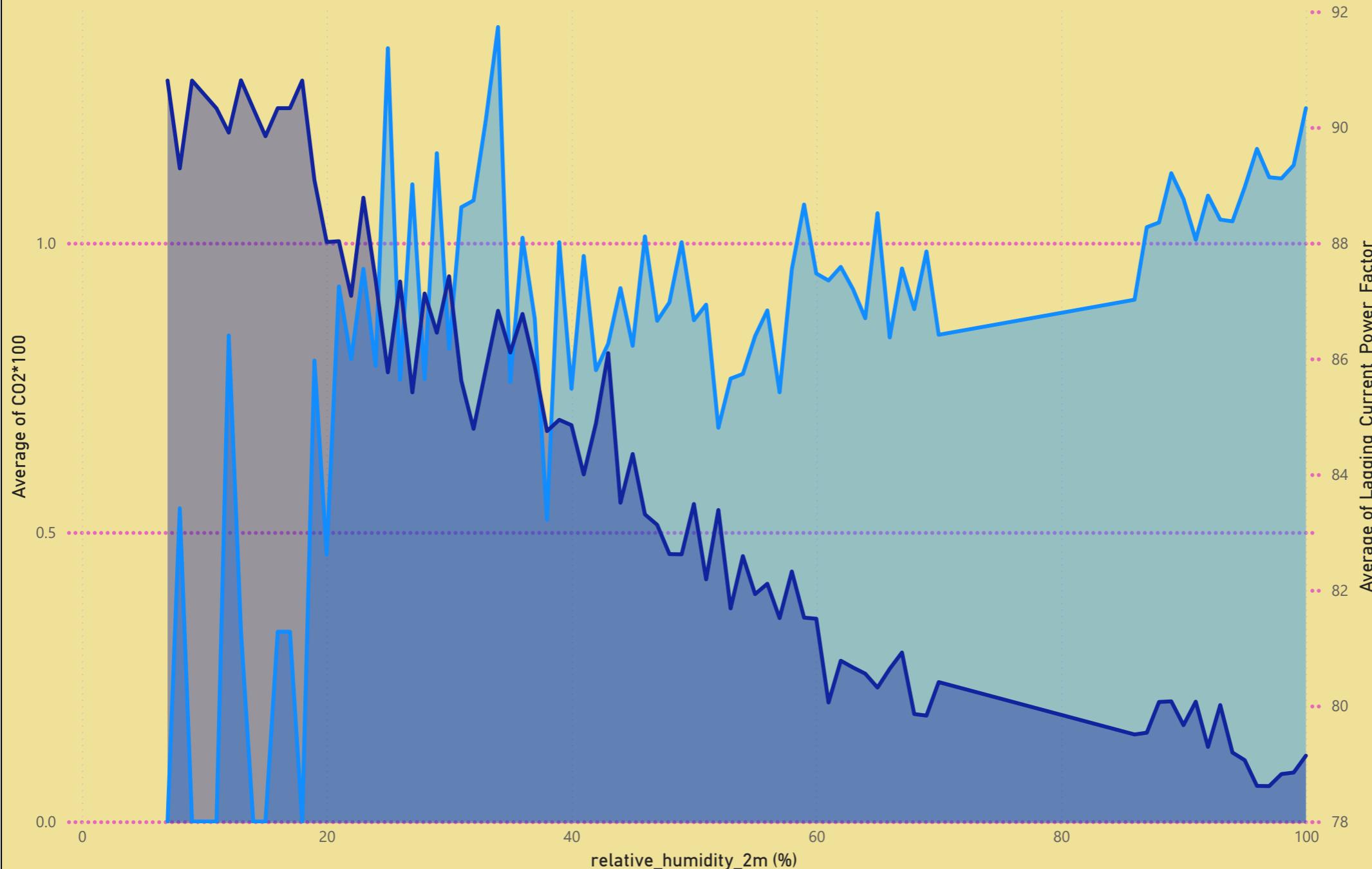
Energy Usage (kWh) and Humidity Bin Comparison

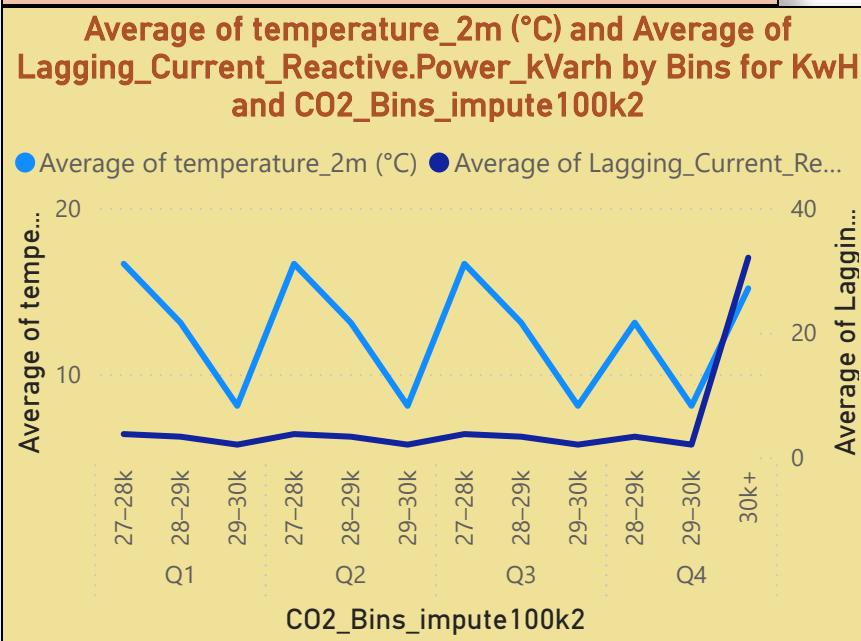
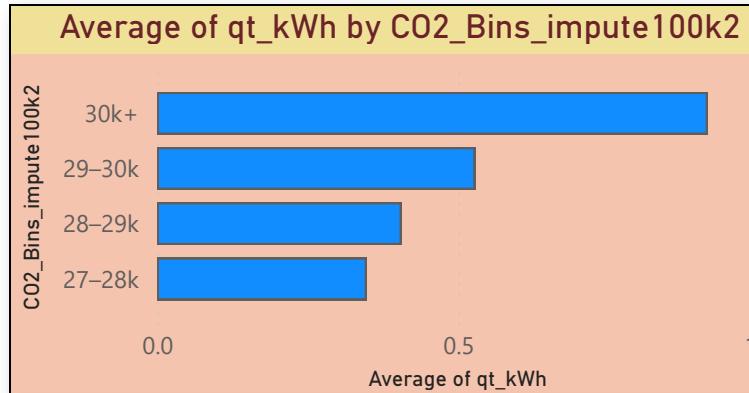
Including Temperature and Lagging Current Power Factor Energy



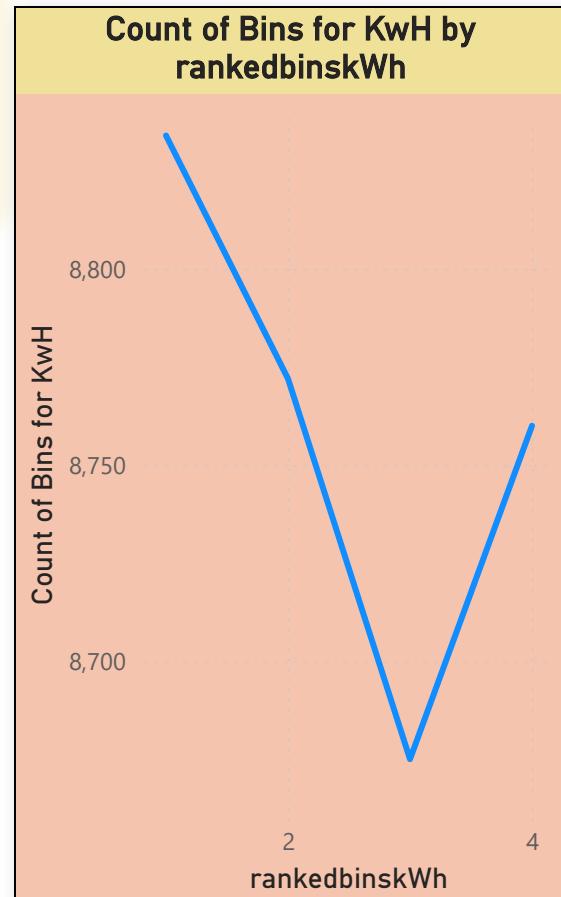
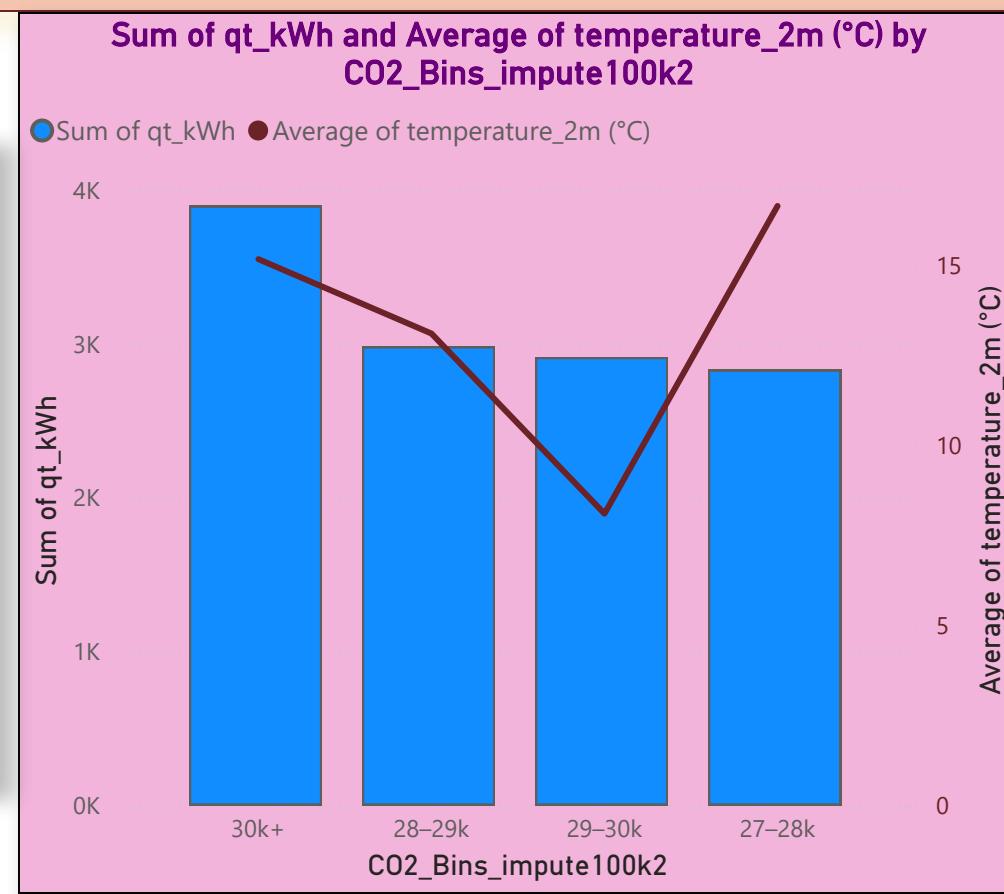
Average of CO2*100 and Average of Lagging_Current_Power_Factor by relative_humidity_2m (%)

● Average of CO2*100 ● Average of Lagging_Current_Power_Factor

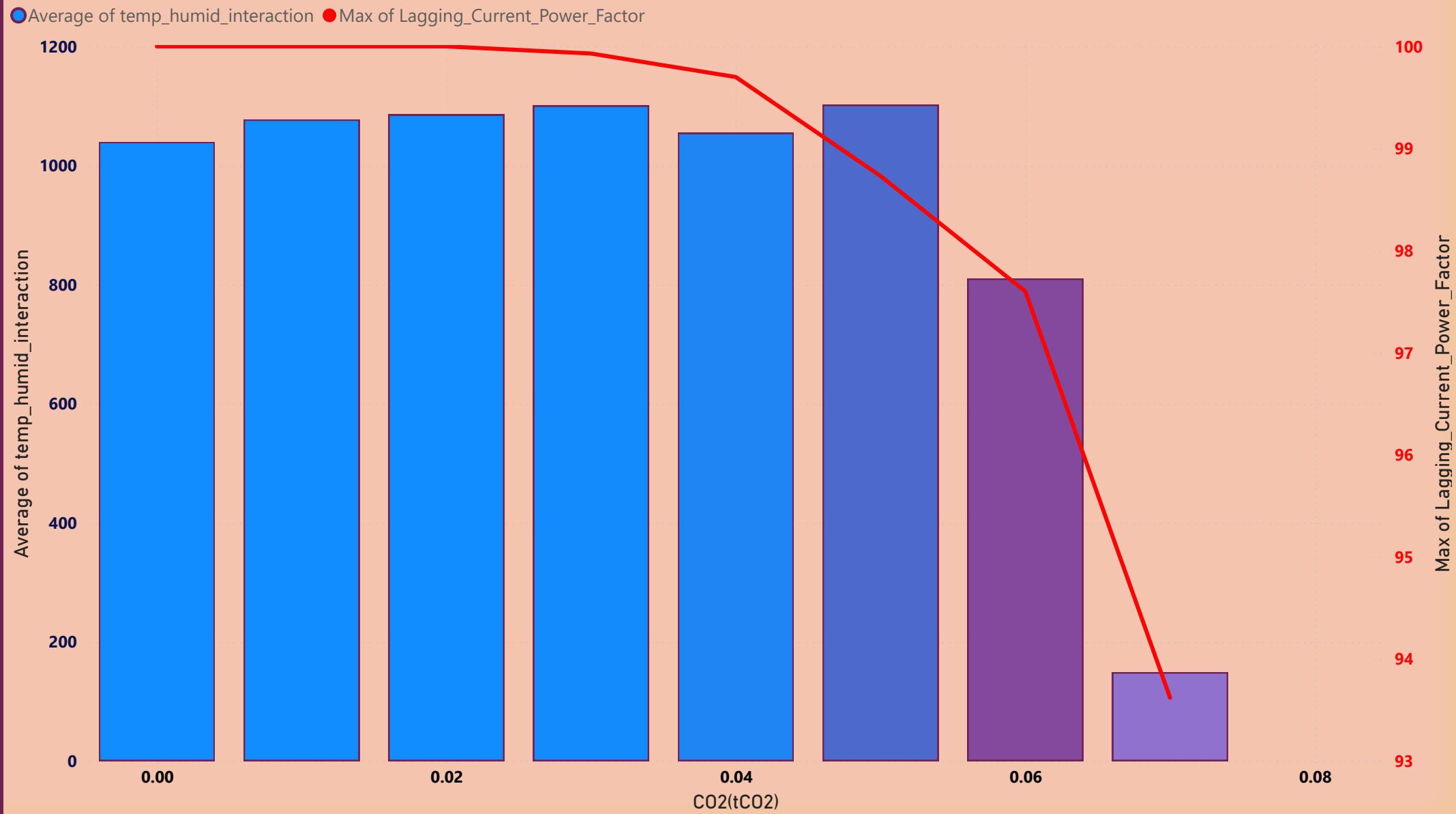




Imputed CO2 Bins by Humidity Bins					
CO2x100 Sums					
humidity_binned	27–28k	28–29k	29–30k	30k+	Total
High	26251			15941	27135
Low		28235		27891	29693
Medium	30506			27733	33205
Total	26251	30506	28235	38593	40381

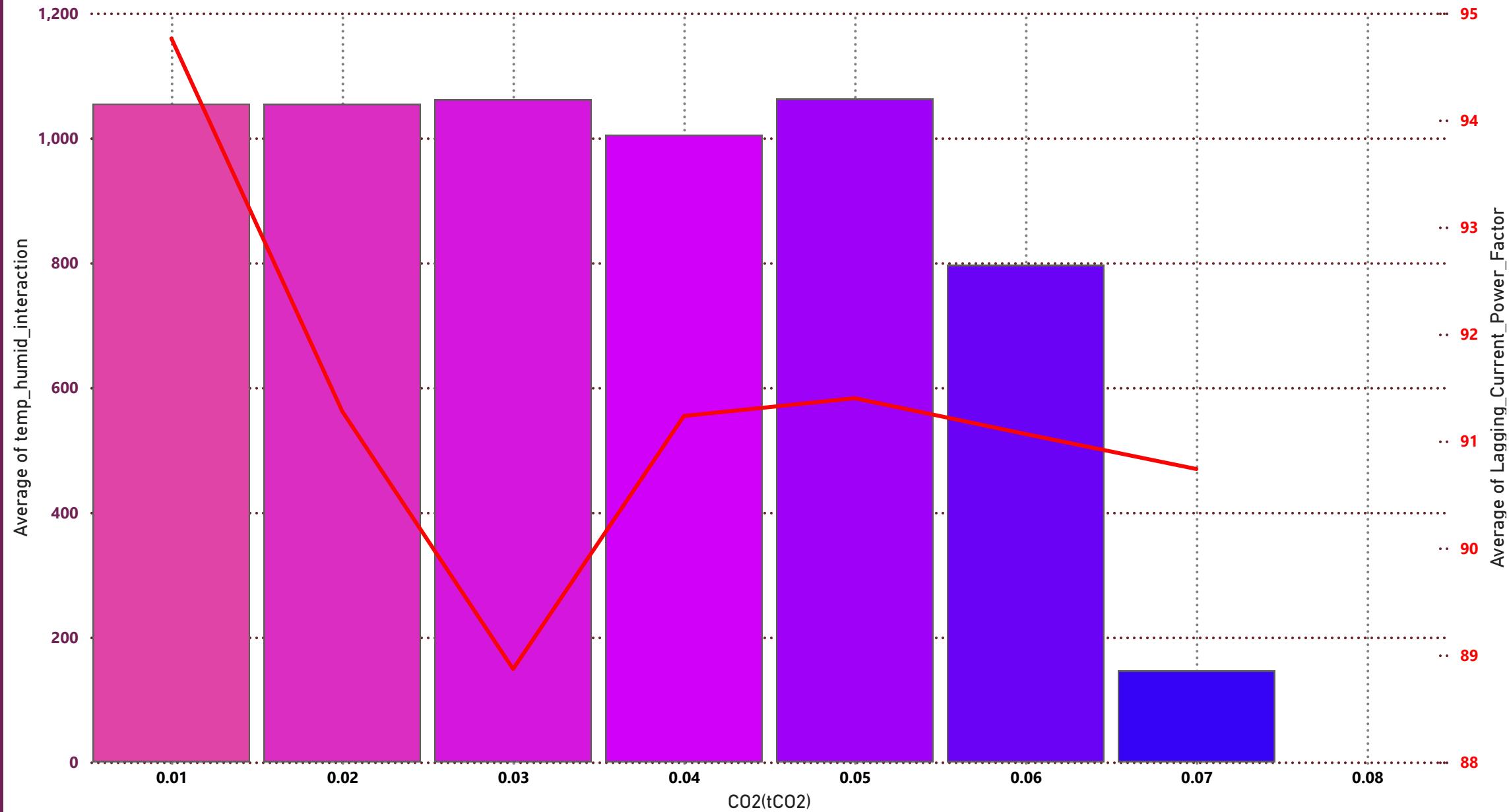


Average of temp_humid_interaction and Max of Lagging_Current_Power_Factor by CO2(tCO2)



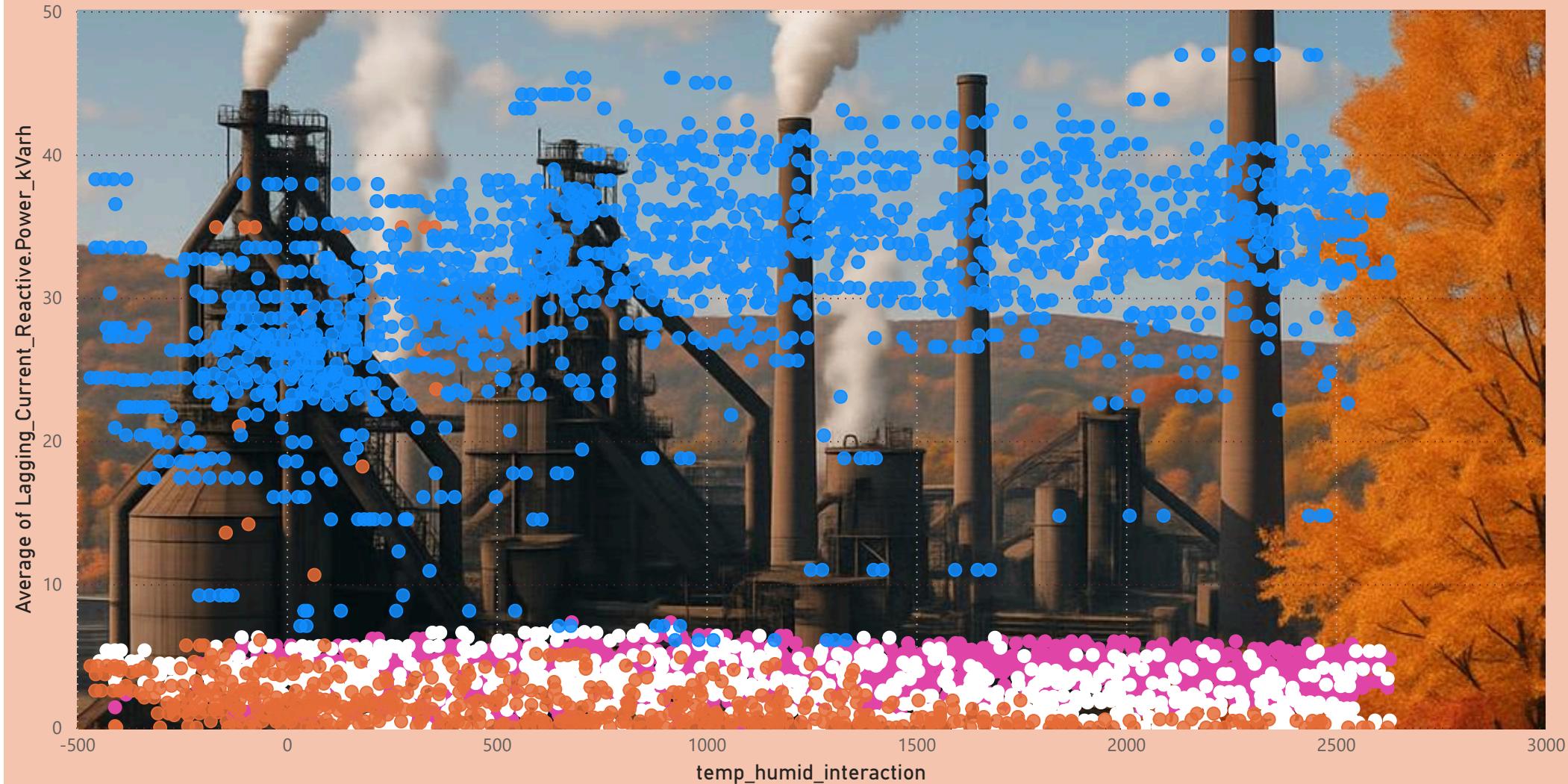
Average of temp_humid_interaction and Average of Lagging_Current_Power_Factor by CO2(tCO2)

● Average of temp_humid_interaction ● Average of Lagging_Current_Power_Factor



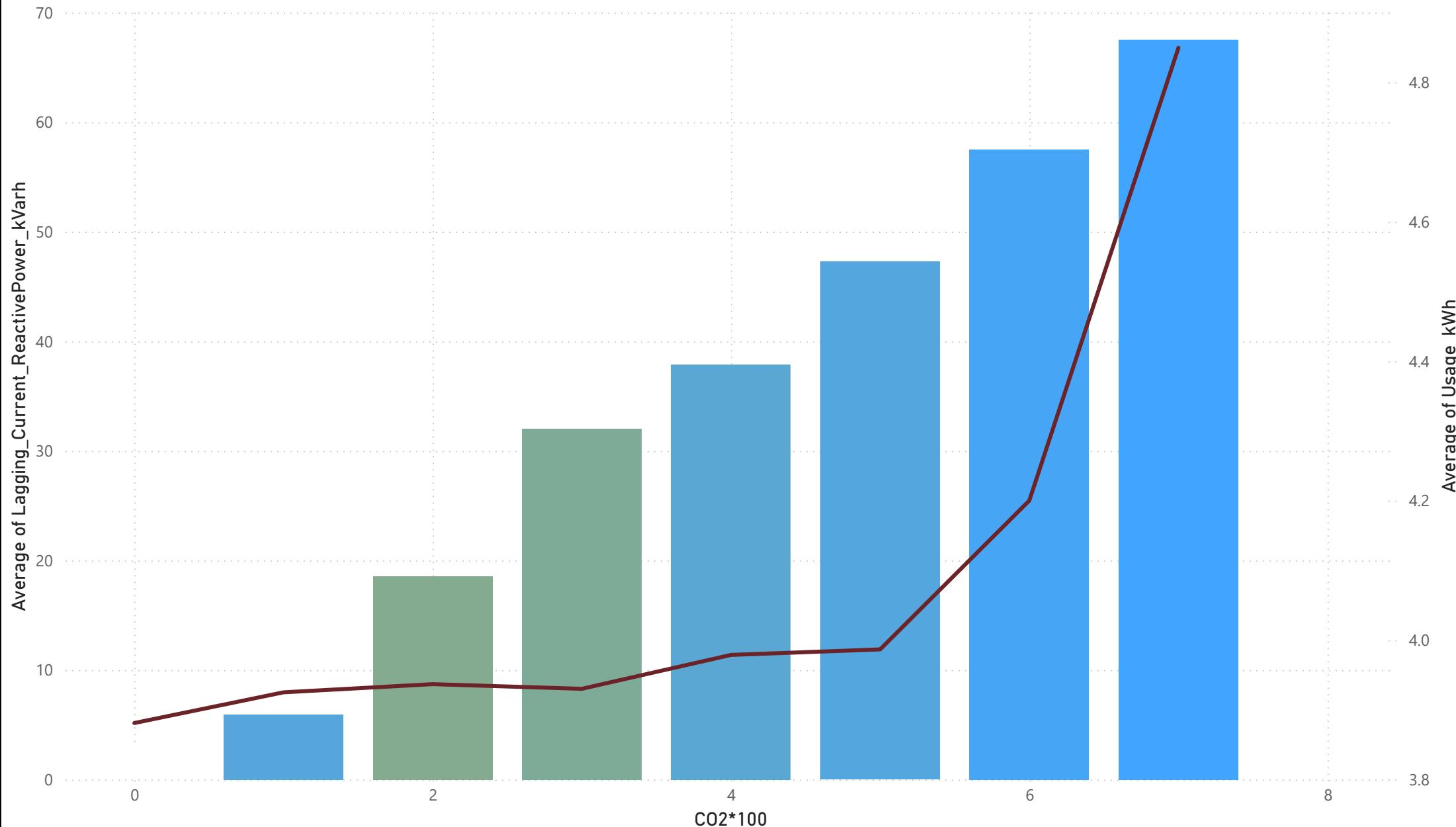
Average of Lagging_Current_Reactive.Power_kVarh by CO2_imputed and temp_humid_interaction

CO2_imputed ● 0.02700271554650373 ● 0.028137554585152838 ● 0.029949417535254447 ● 0.03



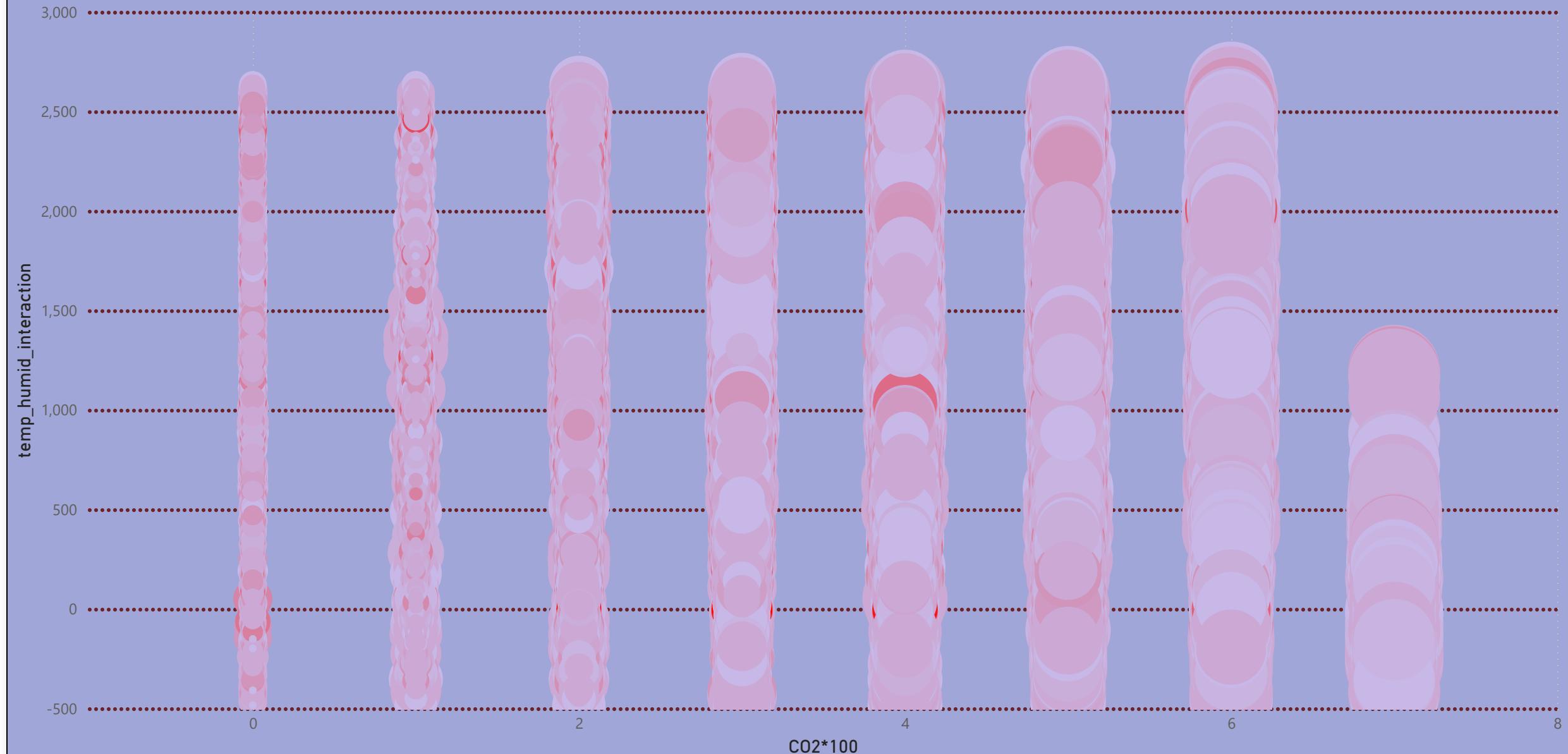
Average of Lagging_Current_ReactivePower_kVarh and Average of Usage_kWh by CO2*100

● Average of Lagging_Current_ReactivePower_kVarh ● Average of Usage_kWh



Average of Lagging_Current_ReactivePower_kVarh by CO2*100 and temp_humid_interaction

Count of temp_humid_interaction 1 37 73

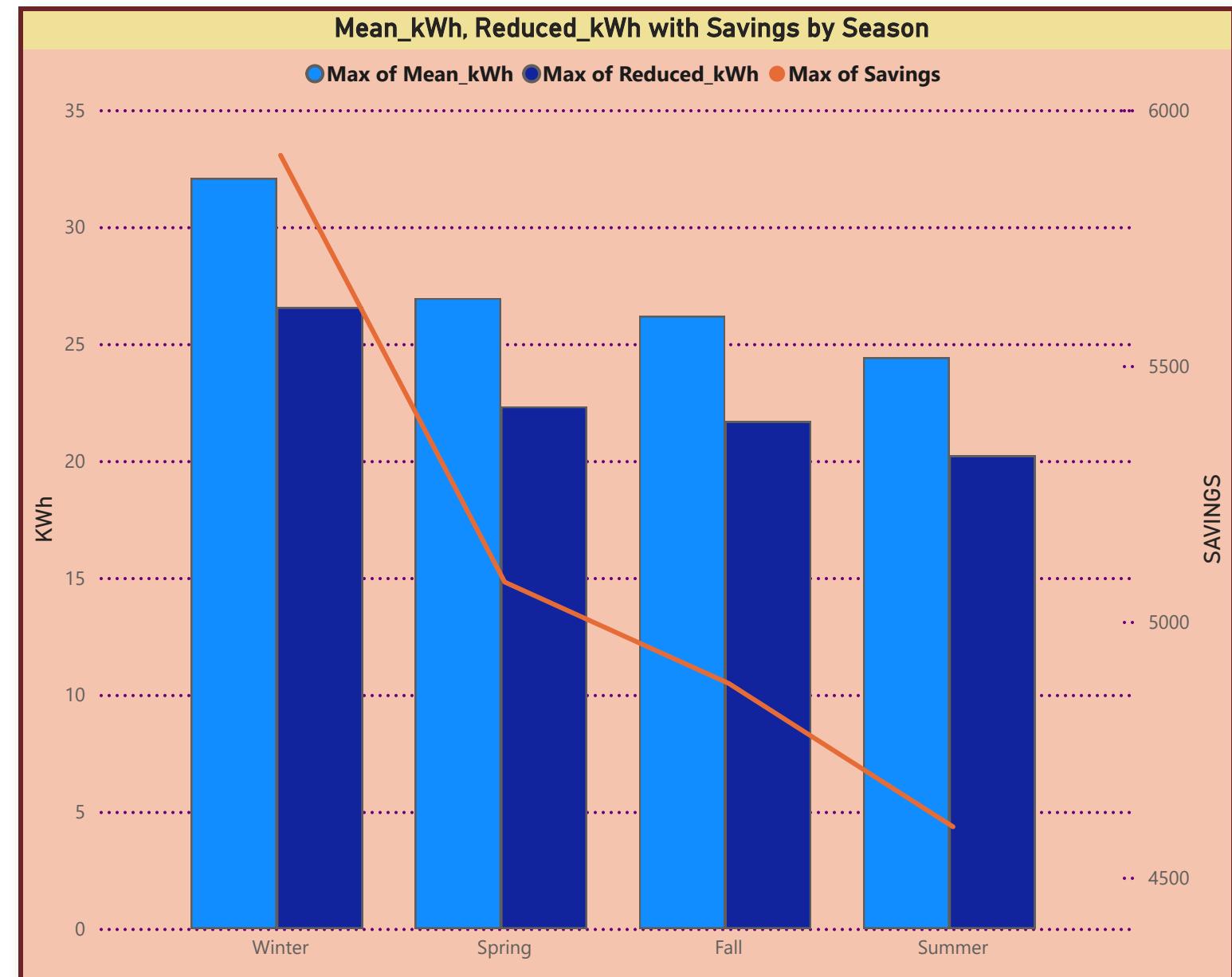


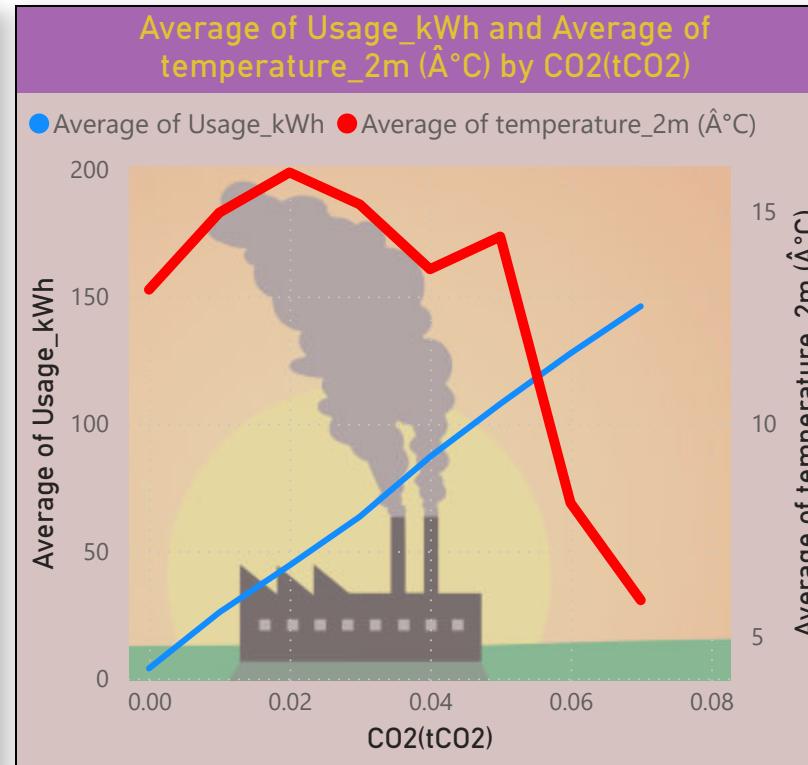
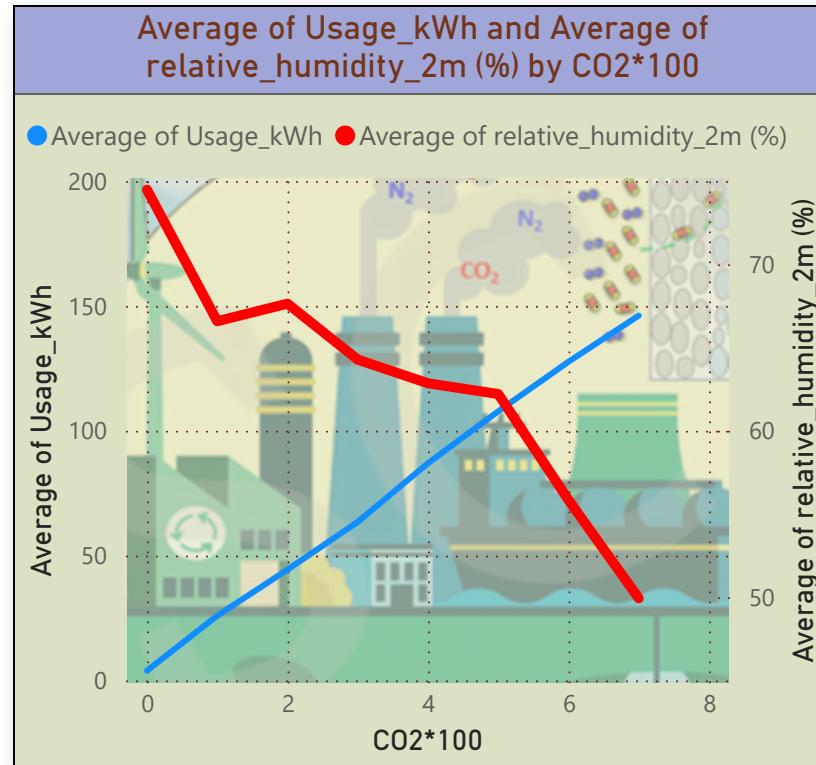


Seasons	Average of Usage_kWh
Fall	25.93
Spring	26.82
Summer	24.40
Winter	32.08

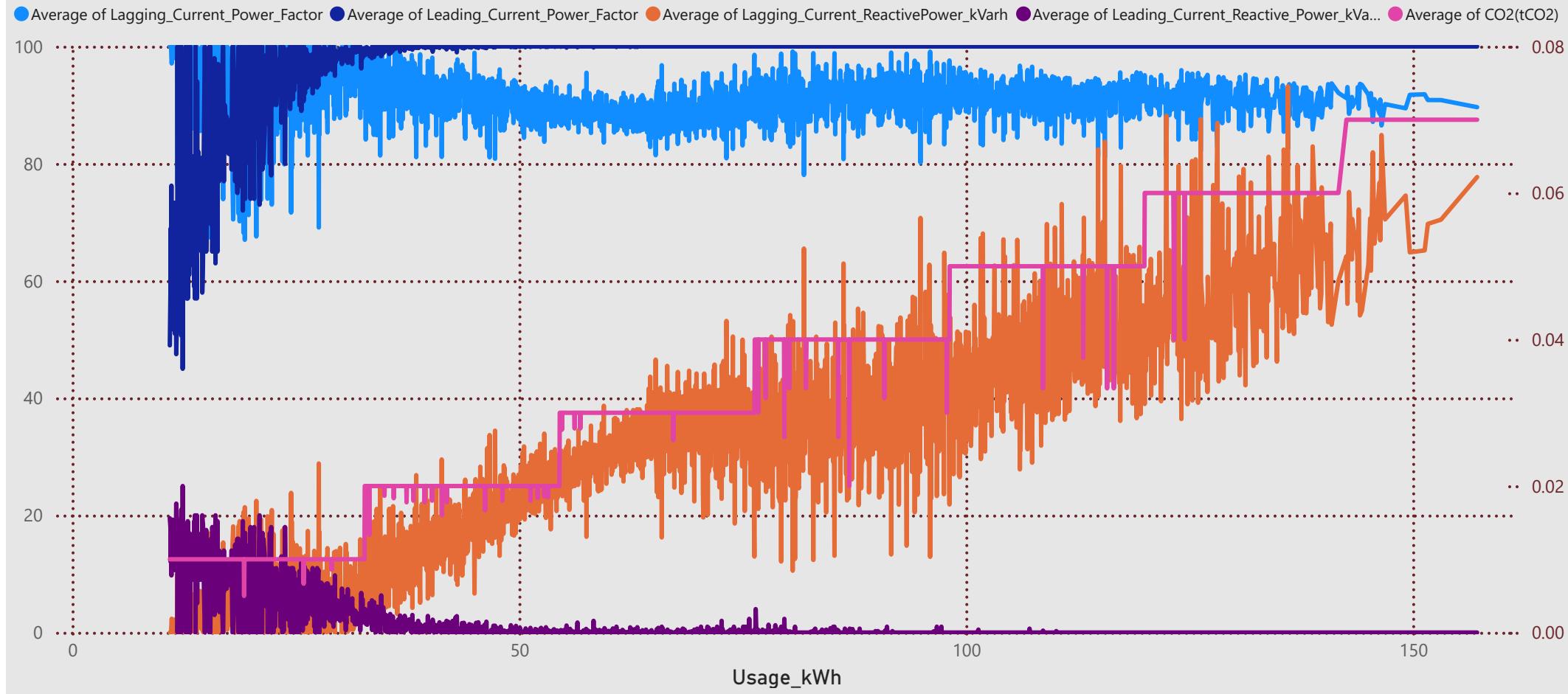
20.47K

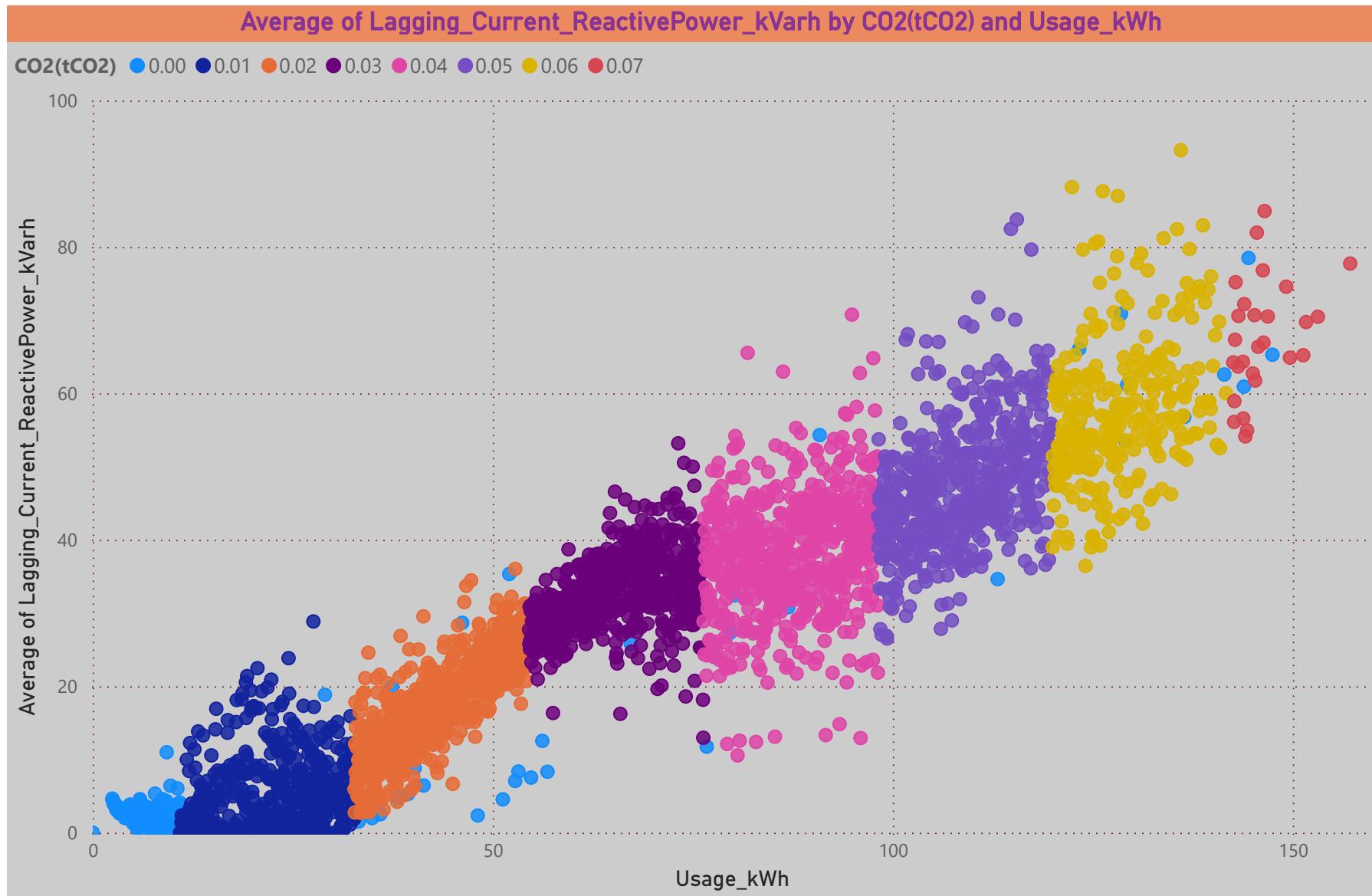
Sum of Savings



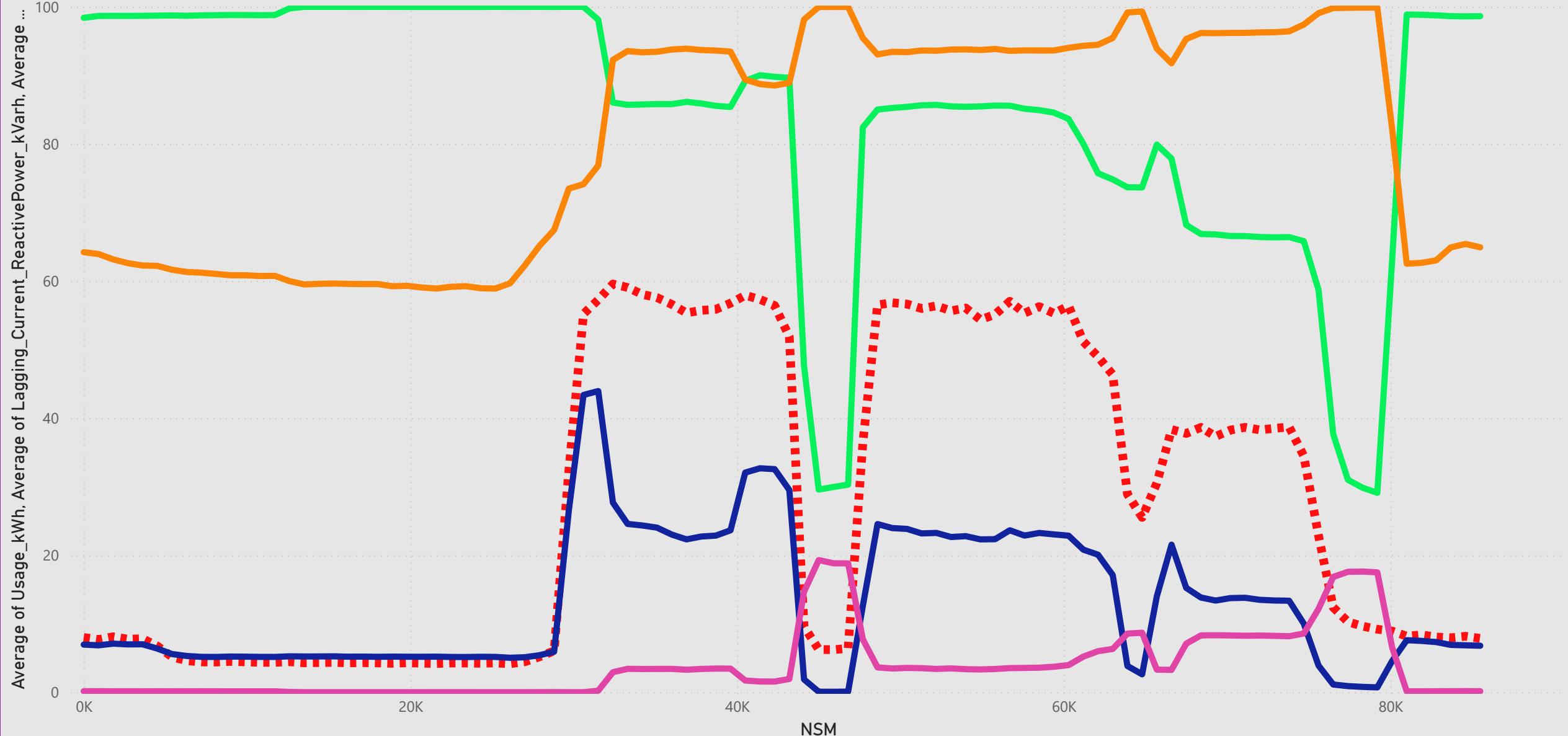


Energy Types and CO2 by Usage_kWh

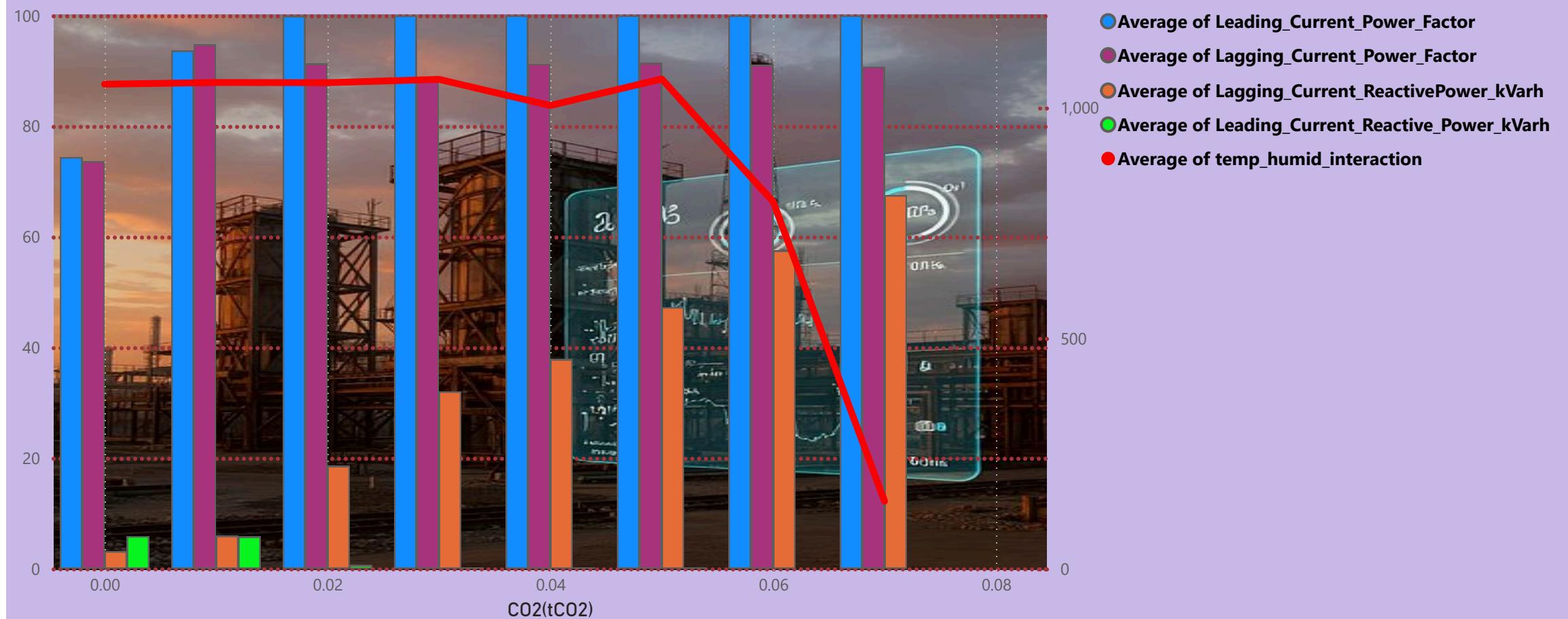


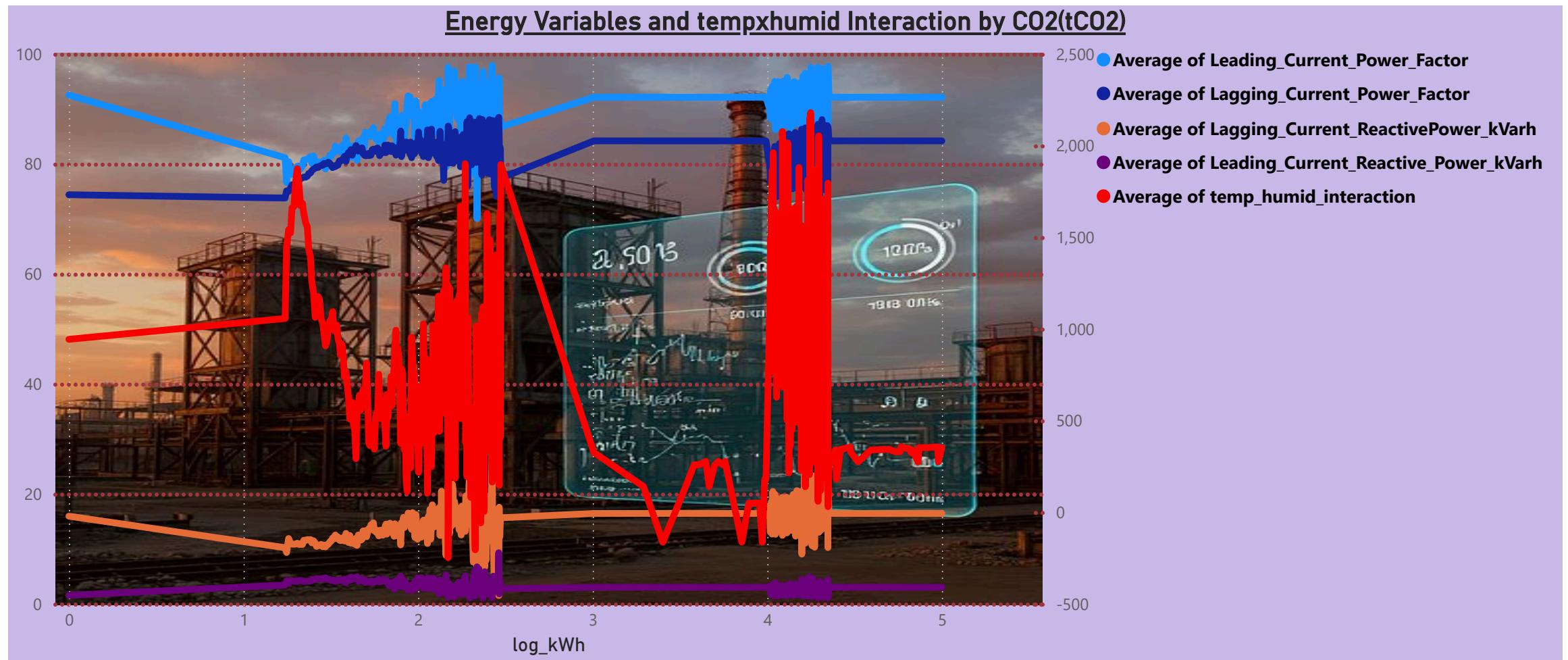


● Average of Usage_kWh ● Average of Lagging_Current_ReactivePower_kVarh ● Average of Leading_Current_Power_Factor ● Average of Lagging_Current_Power_Factor ● Average of Leading_Current_Reactive_P...



Energy Variables and tempxhumid Interaction by CO2(tCO2)





Average of CO2_lag_1 by humidity_binned

● Increase ● Decrease ● Total

0.08

0.06

0.04

0.02

0.00

Average of CO2_lag_3 by Bins for KwH

● Increase ● Decrease ● Total

0.12

0.10

0.08

0.06

0.04

0.02

0.00

