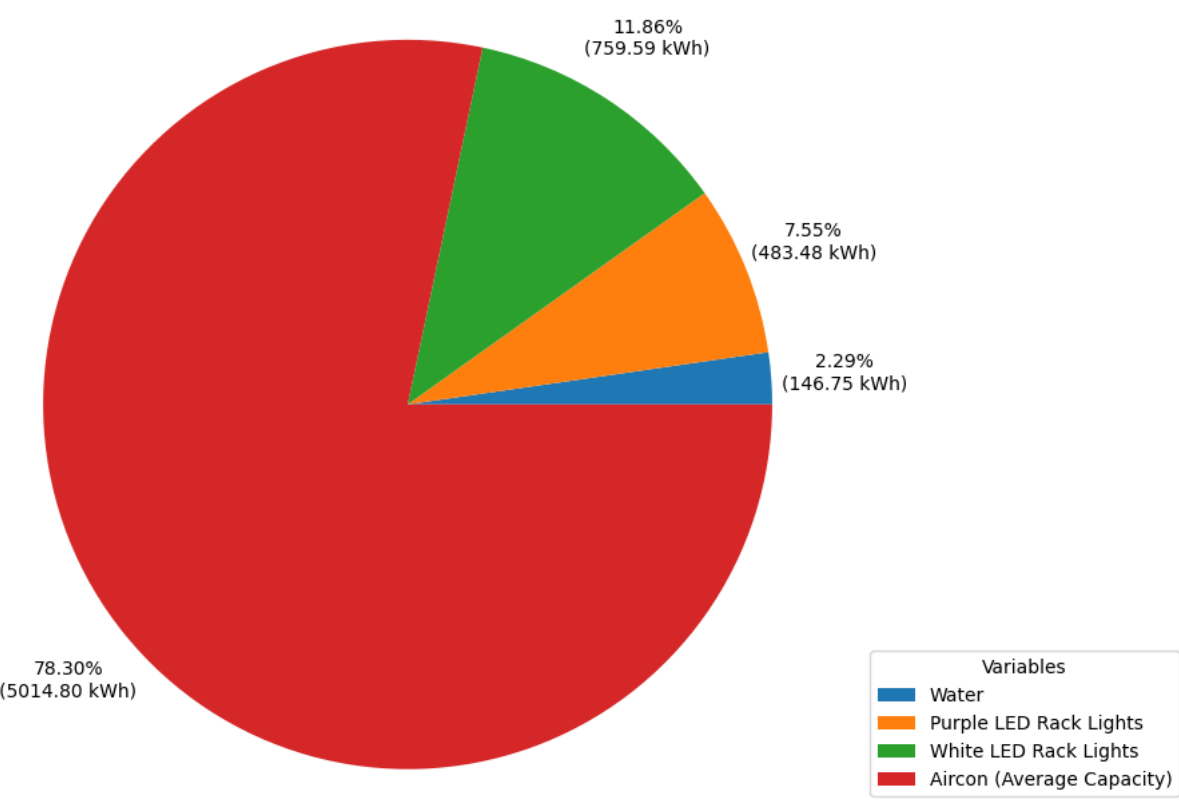
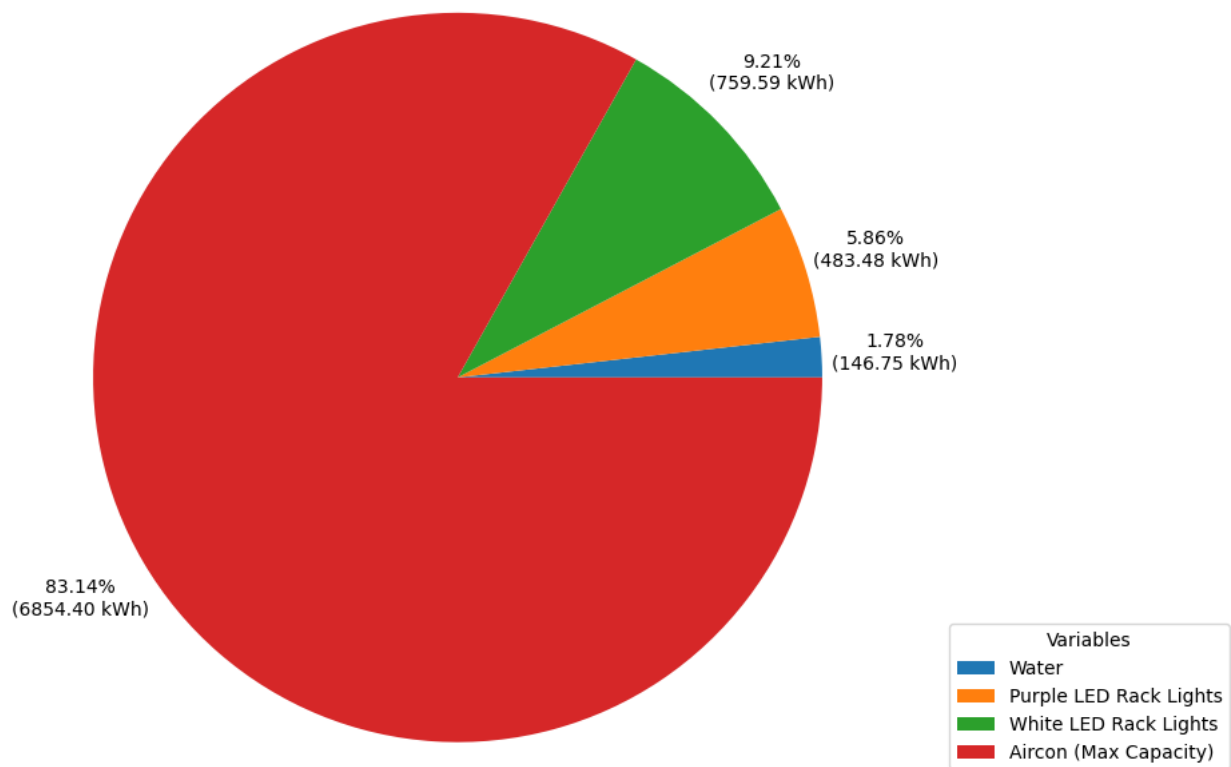


# Historical Analysis

Variables that Affect Monthly Power Consumption - Average Capacity



Variables that Affect Monthly Power Consumption - Max Capacity



#### Cost Efficiency Output:

Amount spent during the day: \$71.70

Amount spent during the night: \$71.56

Most cost efficient period is from 1900-0700.

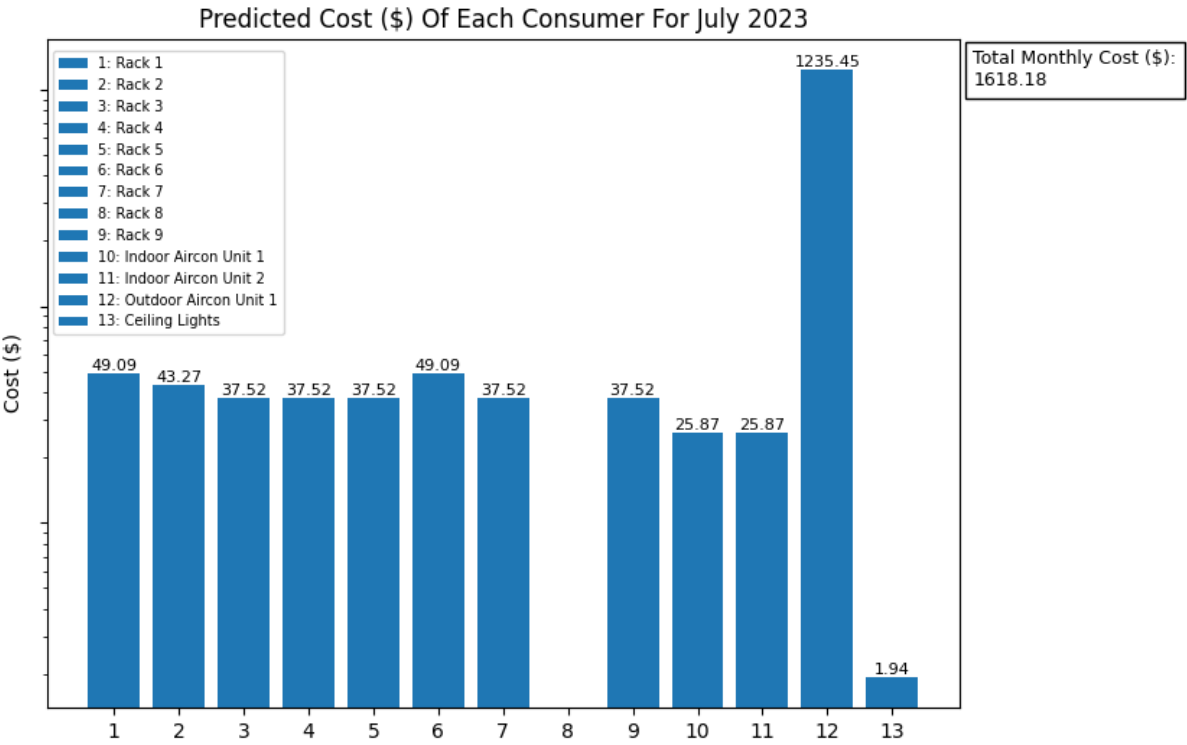
Average power per hour consumed > 31 degree celsius: 783.75 W/h

Average power per hour consumed > 27 and > 31 celsius: 485.90 W/h

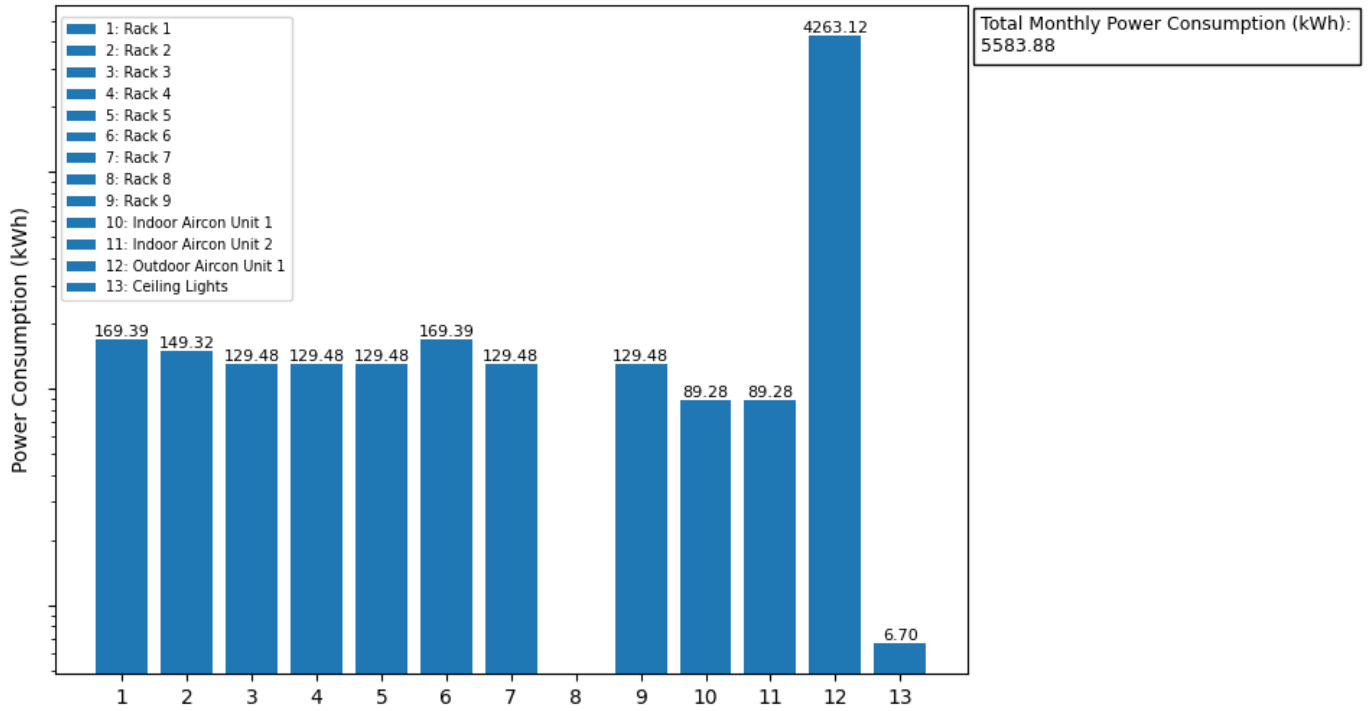
Average power per hour consumed < 27 degree celsius: 851.52 W/h

Most cost efficient season is when temperature is between 27 and 31 degree celsius.

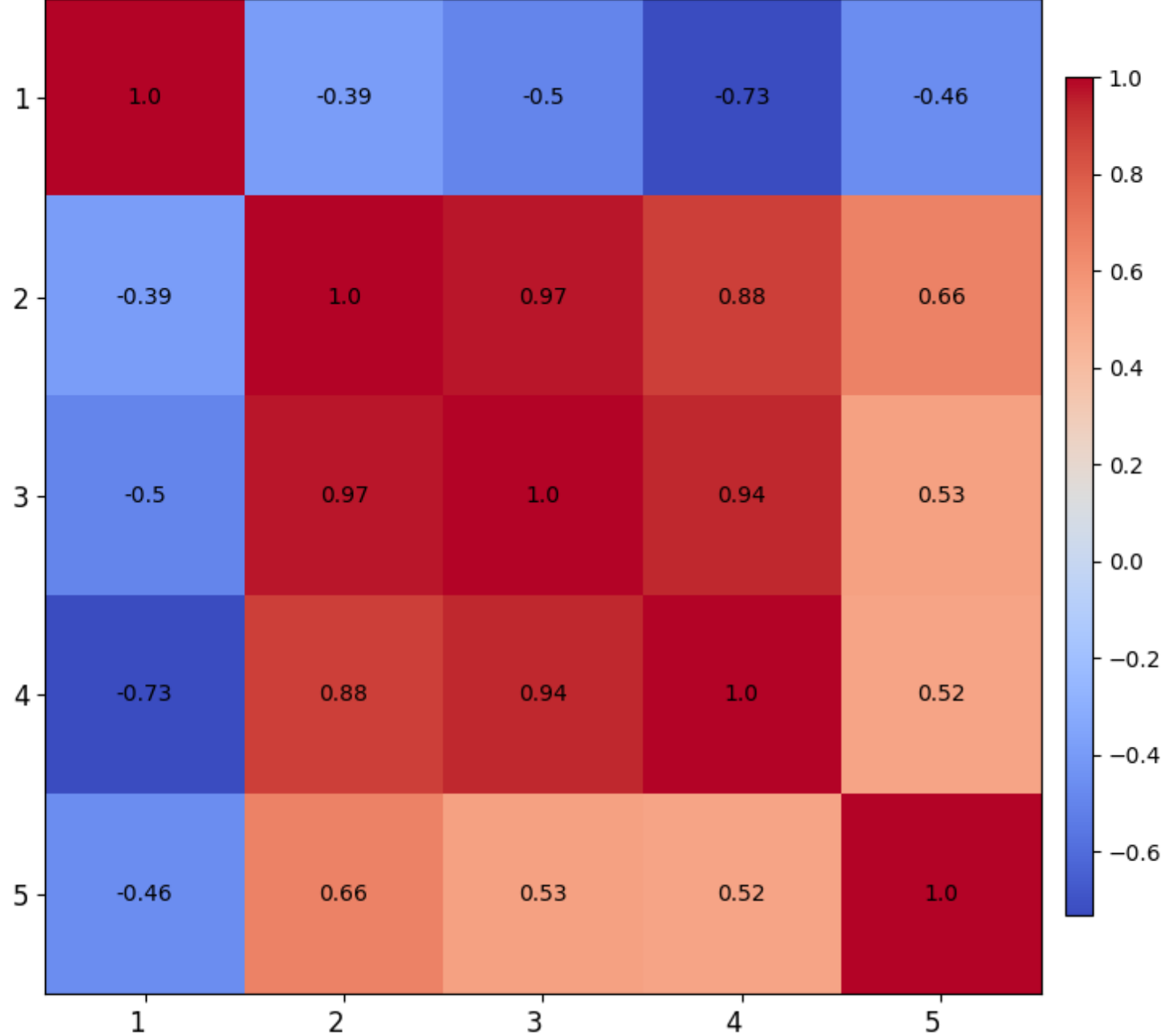
# Prediction Analysis



Predicted Power Consumption (kWh) Of Each Consumer For July 2023

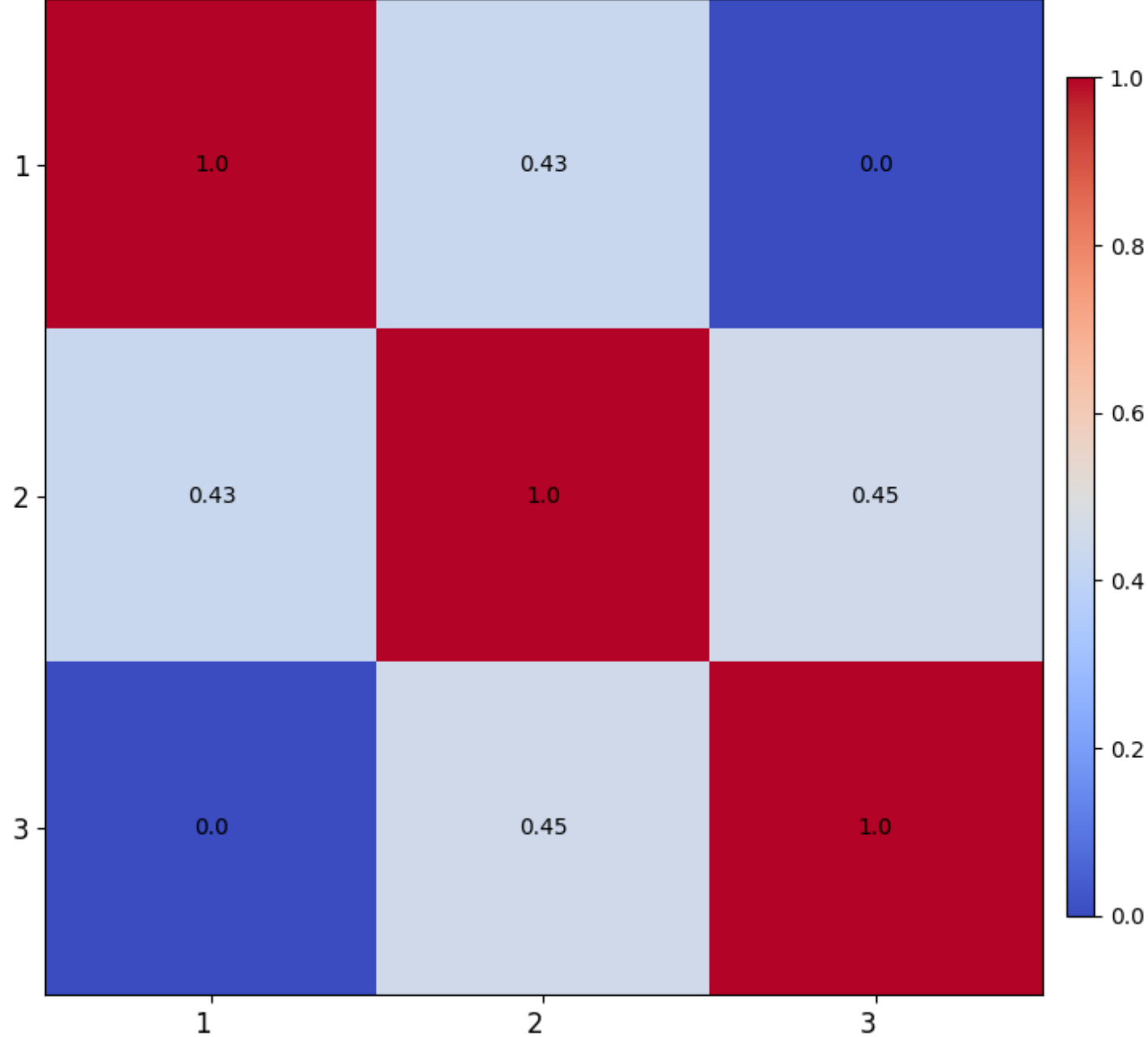


Historical Weather data vs Historical Farm Power Consumption



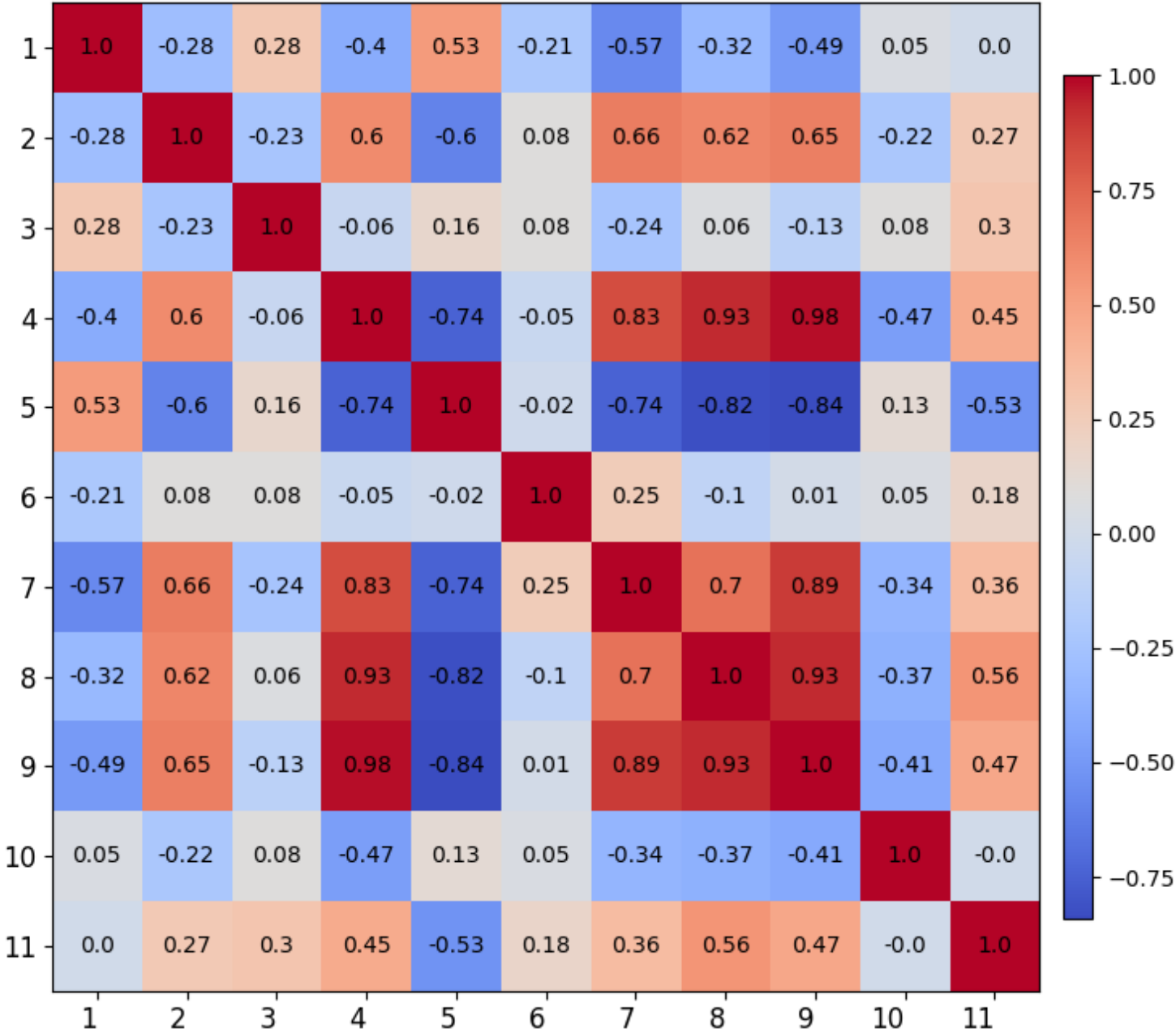
ID	Variable
1	daily rainfall total
2	maximum temperature
3	mean temperature
4	minimum temperature
5	total power consumption

WeatherAPI & Farm Conditions & Farm Power Consumption



ID	Variable
1	Daily Average Farm Humidity
2	Daily Farm Power Consumption
3	wind_speed

WeatherAPI & Farm Conditions



ID	Variable
1	Daily Average Farm Humidity
2	Daily Average Farm Temperature
3	cloudiness
4	feels_like
5	humidity
6	pressure
7	temp_max
8	temp_min
9	temperature
10	wind_deg
11	wind_speed