

Plainfield Park District

# PRAIRIE ACTIVITY & RECREATION CENTER (PARC)

July 2023 Summary



# July OVERVIEW

July Overview

July PV

Annual Overview

Monthly HVAC

Monthly Lighting

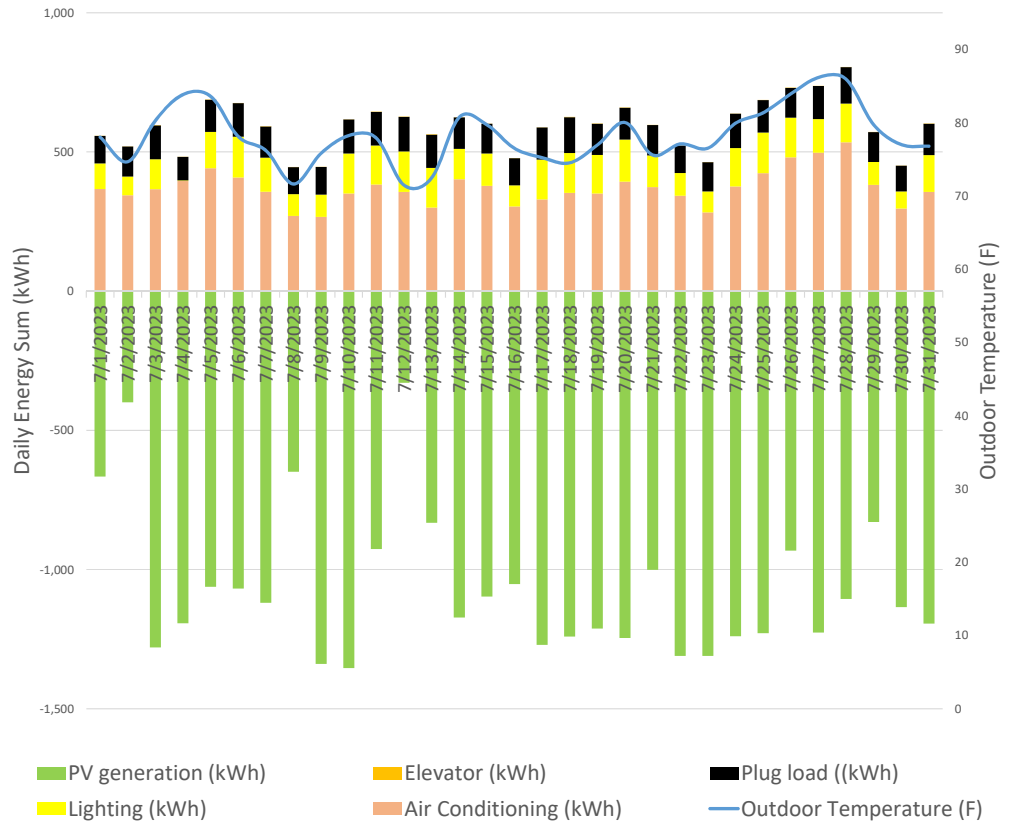
Monthly Plug Load

Monthly PV

Cumulative

Carbon Emissions

July Daily Energy Results



\* Plug load = Computer, Fitness equipment, Refrigerator, etc.  
 \* Only electric loads here.

# July PV

July Overview

July PV

Annual Overview

Monthly HVAC

Monthly Lighting

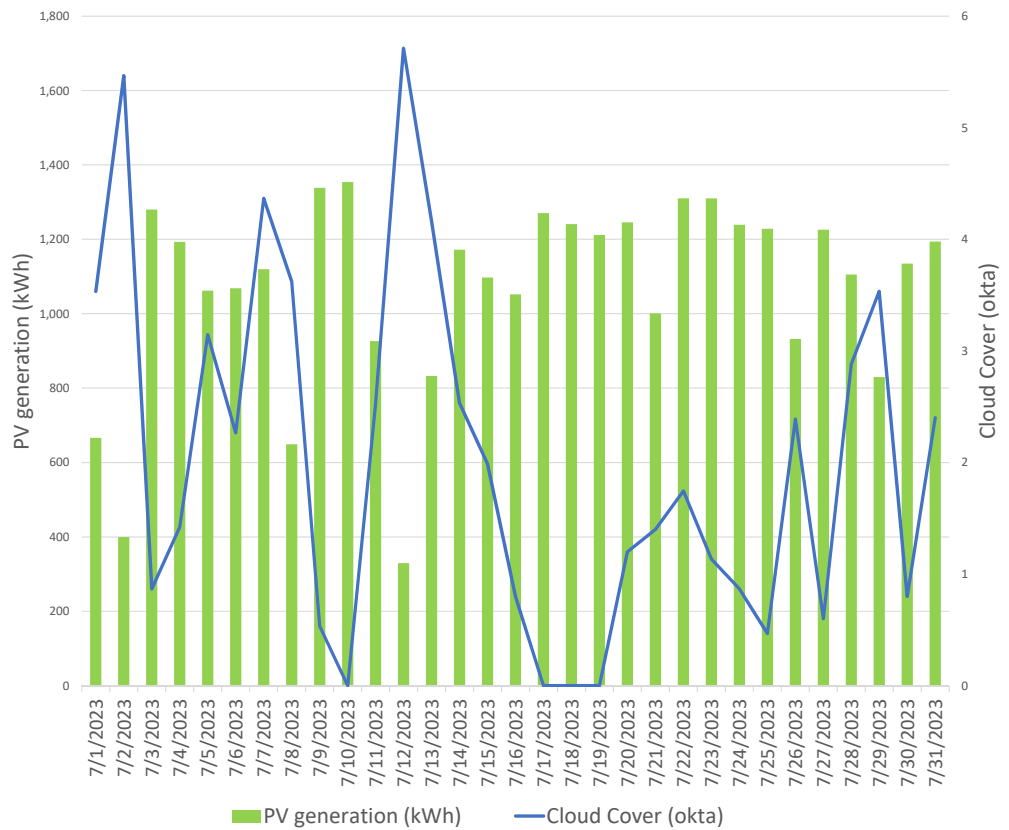
Monthly Plug Load

Monthly PV

Cumulative

Carbon Emissions

July PV Daily



\* Cloud cover data based on NOAA data measured at Chicago Aurora Municipal Airport  
 okta is unit for cloud cover. 0 = clear, 8 = overcast.  
 \* Cloud cover here is daily average during daytime

# ANNUAL REVIEW

July Overview

July PV

Annual Overview

Monthly HVAC

Monthly Lighting

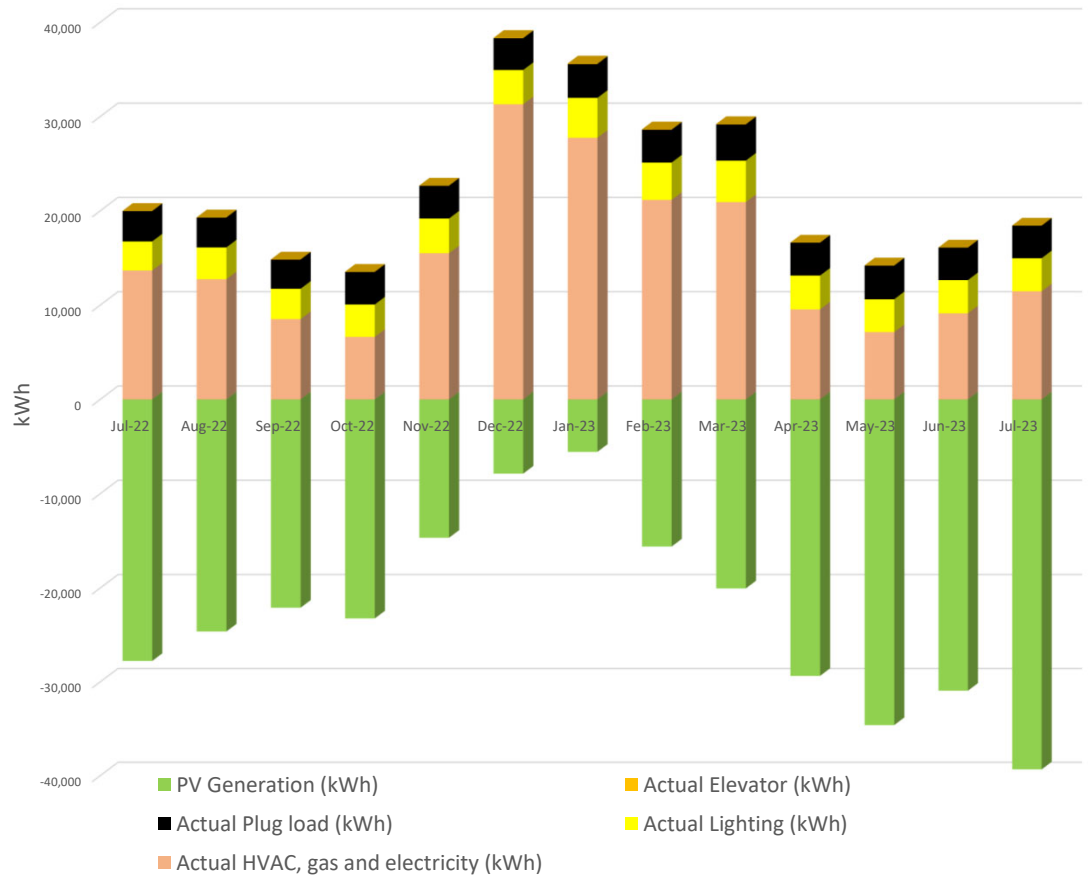
Monthly Plug Load

Monthly PV

Cumulative

Carbon Emissions

Actual Monthly Compiled (kWh)



# MONTHLY HVAC

July Overview

July PV

Annual Overview

Monthly HVAC

Monthly Lighting

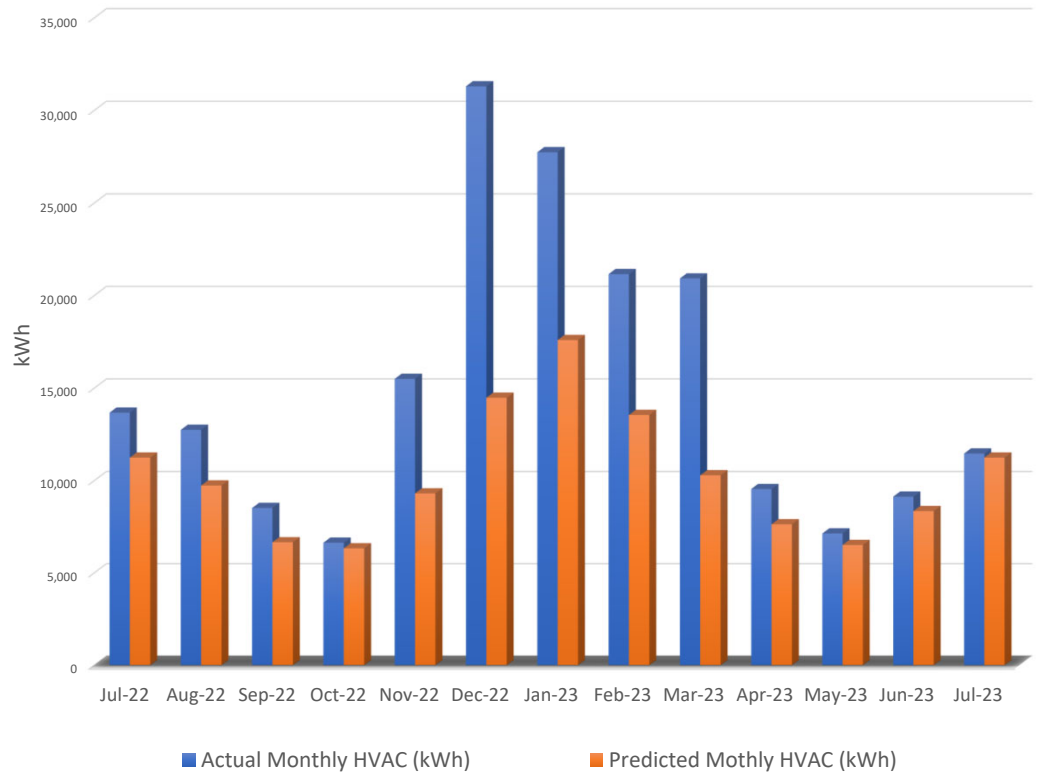
Monthly Plug Load

Monthly PV

Cumulative

Carbon Emissions

### Monthly HVAC (kWh)



\*HVAC = Heating, Ventilation and air conditioning

# MONTHLY LIGHTING

July Overview

July PV

Annual Overview

Monthly HVAC

Monthly Lighting

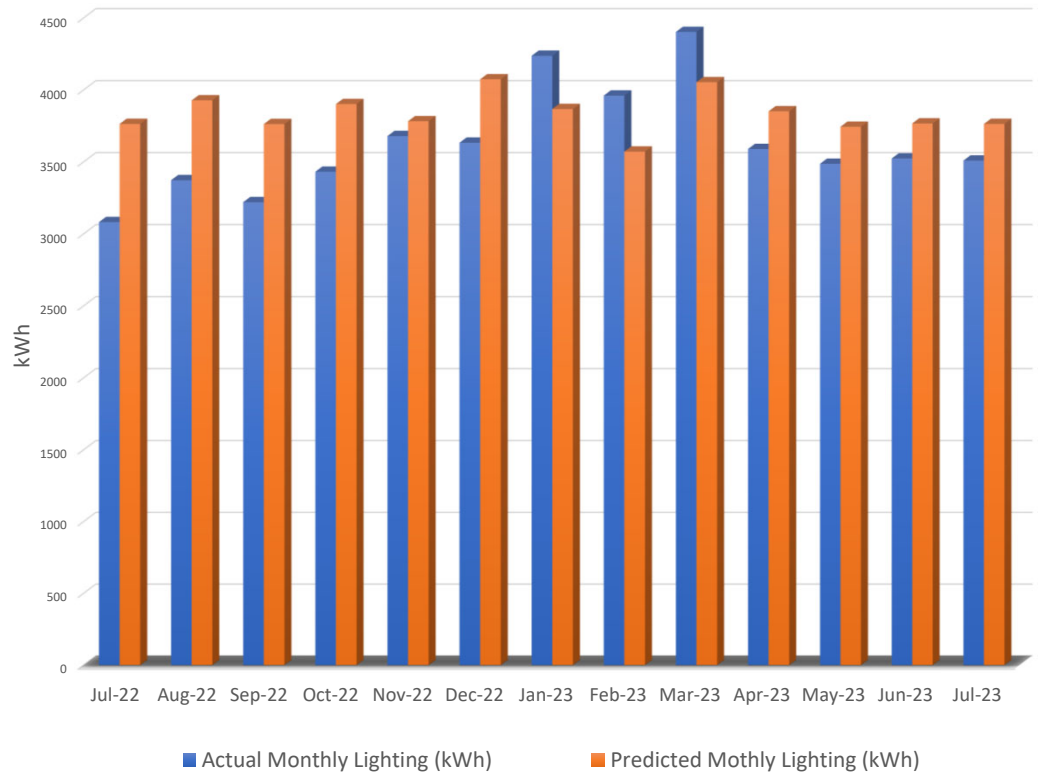
Monthly Plug Load

Monthly PV

Cumulative

Carbon Emissions

### Monthly Lighting (kWh)



■ Actual Monthly Lighting (kWh)      ■ Predicted Monthly Lighting (kWh)

# MONTHLY PLUG LOAD

July Overview

July PV

Annual Overview

Monthly HVAC

Monthly Lighting

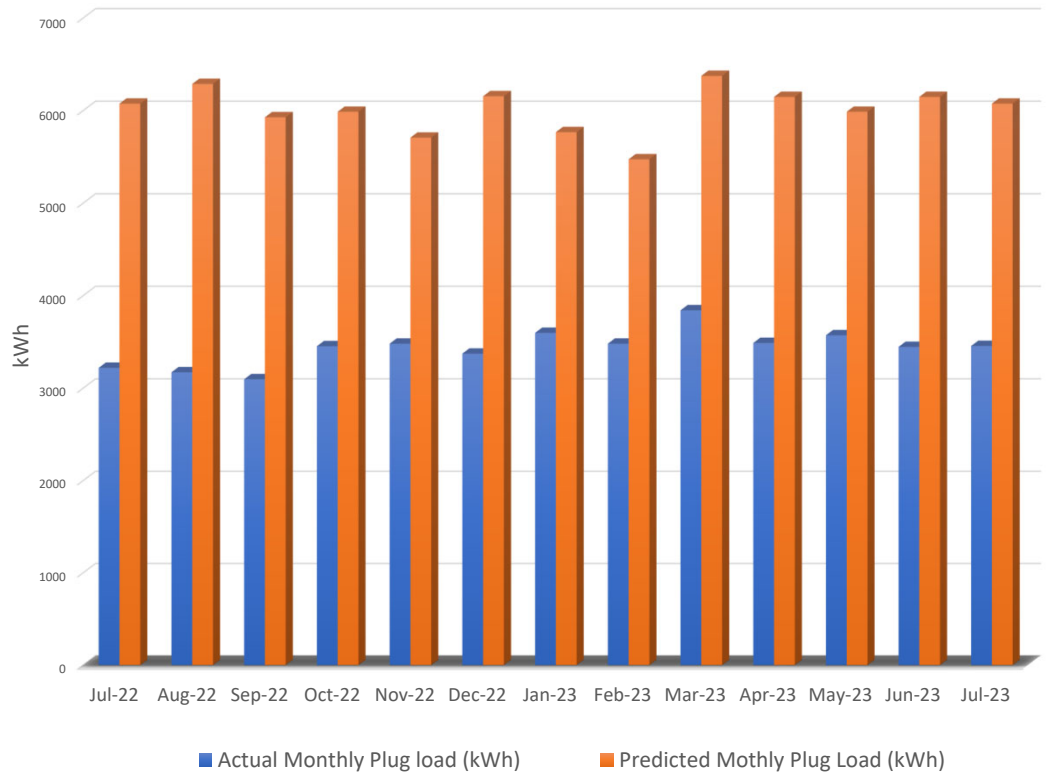
Monthly Plug Load

Monthly PV

Cumulative

Carbon Emissions

### Monthly Plug Load Consumption (kWh)



# MONTHLY PV

July Overview

July PV

Annual Overview

Monthly HVAC

Monthly Lighting

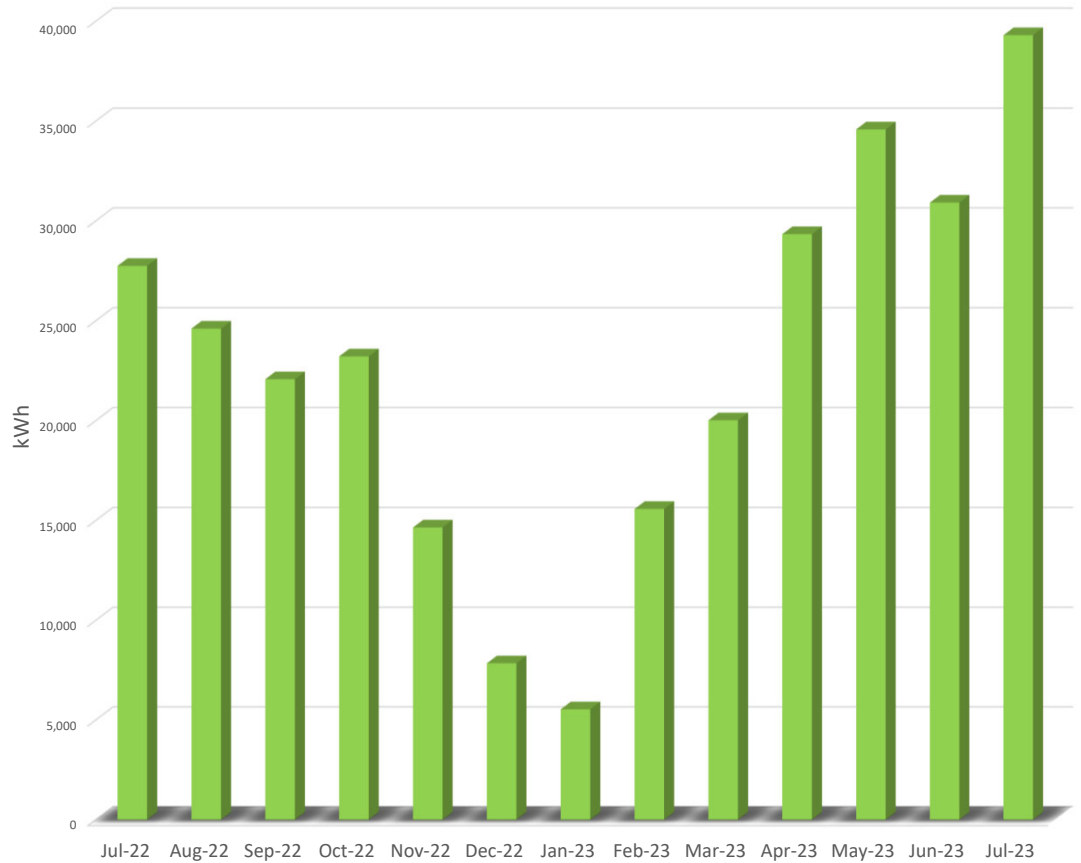
Monthly Plug Load

Monthly PV

Cumulative

Carbon Emissions

Monthly PV (kWh)



\*PV=Photovoltaics, generating electricity using solar power



# 12 Months Cumulative

July Overview

July PV

Annual Overview

Monthly HVAC

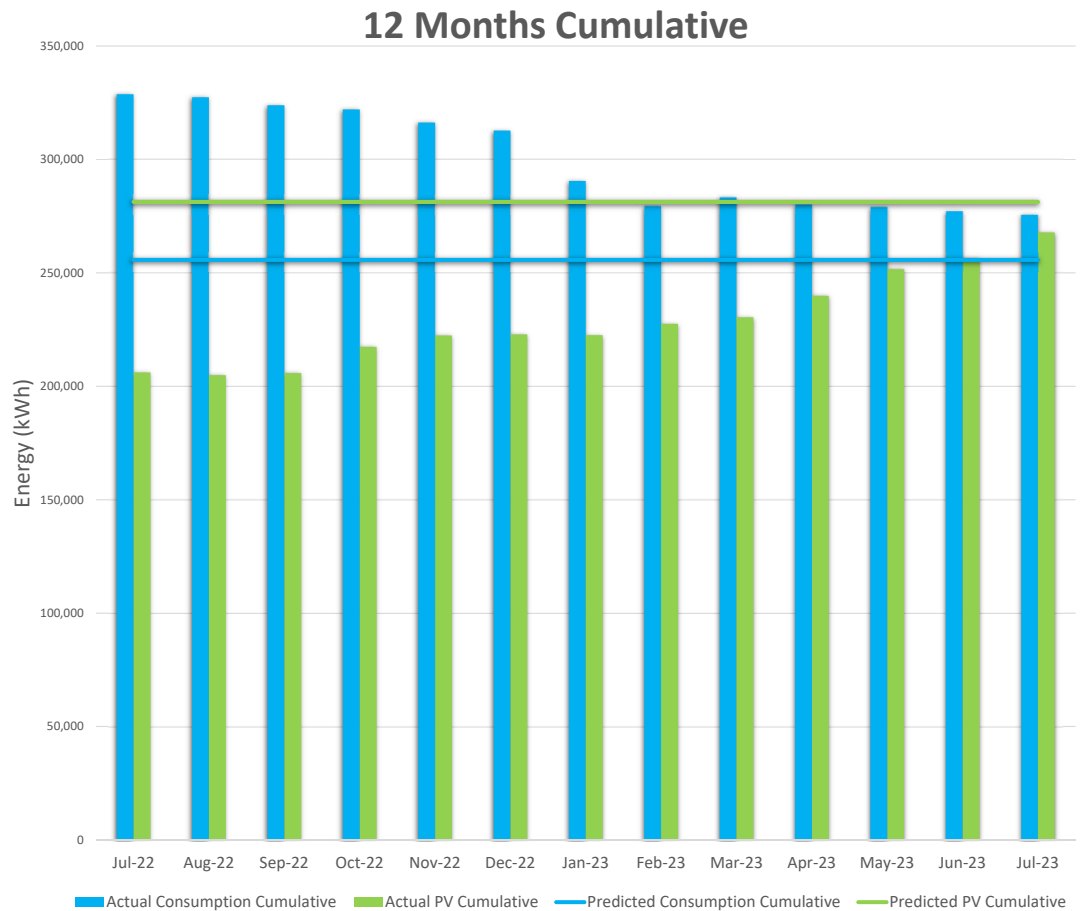
Monthly Lighting

Monthly Plug Load

Monthly PV

Cumulative

Carbon Emissions

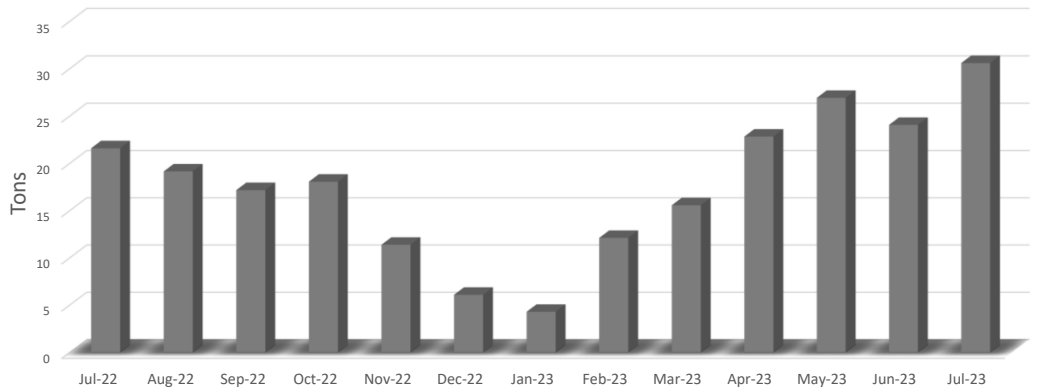


\* Data of each month here represents the cumulative of labeled month and previous 11 months. Eg: Jan-21 represents the cumulative data of Feb-20 to Jan-21.

# CARBON EMISSIONS

- July Overview
- July PV
- Annual Overview
- Monthly HVAC
- Monthly Lighting
- Monthly Plug Load
- Monthly PV
- Cumulative
- Carbon Emissions

Monthly Equivalent Avoided CO2 Emissions (Tons)



Cumulative CO<sub>2</sub> avoided since September 2019



705 Tons

July PV : 39,317 kWh



30.6 Ton CO<sub>2</sub>



71,429 Miles driven by an average passenger vehicle



3.5 homes' energy use for one year



3,389,362 smartphones charged