Intertie UI and API calls

3 April 2023

Intertie System

Imported Grid Power

245 kW

Site Load

250 kW

Painted door for now

Gauge.json "grid_load_state". alternative text would be "Exporting Grid Power"

from Gauges.json "grid_imported_power_kw", also the value for the gauge that is filled if "grid_imported_power_kw" is greater than "site_load_kw" then just show a full gauge. Updates every mi

Total load for the building updates every 1 minute. From gauges.json "site_load_kw".

Battery System

Discharging

125 kW

Inverter Capacity
250 kW

This is a battery gauge the maximum comes from gauges.json "battery_capacity_kwh" and amount full comes from "discharge_enegy_remaining_kwh". Updates every 1 minute.

comes from gauges.json "inverter_state". Alternative would be "Charging"

Comes from gauges.json "inverter_power_kw"

Comes from gauges.json "inverter_capacity_kw"

Solar Generation

Generating
275kW

Est. Capacity
250 kW

Painted door for now

Test Comes from "solar_state"

Should be on the same line with a space between "275" and "kW". figma is weird for some reason. From "solar_generated_kw"

comes from gauges.json "total_solar_capacity_kw"

EV Chargers

3/5 in use

Delivering
230 kW

Max Capacity
250kW

Comes from "ev_chargers" and "ev_chargers_in_use"
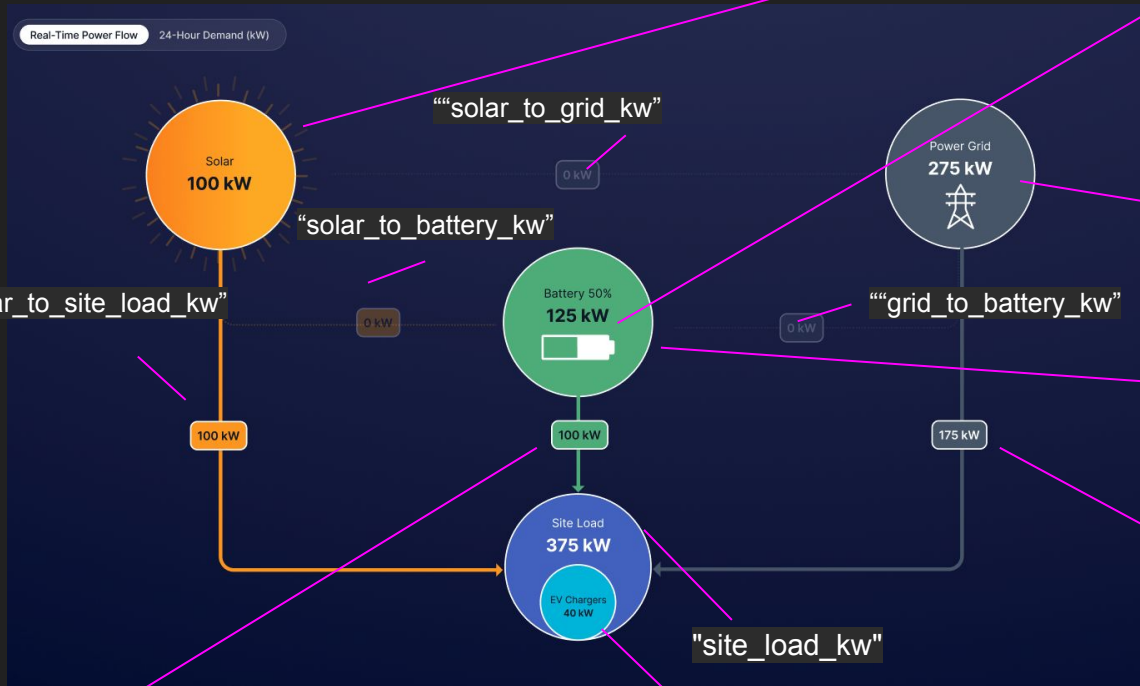
Gauge.jsonc "ev_charger_state" alternative would be idle.

Gauge.jsonc "ev_charger_load_kw"

Gauge.jsonc "ev_charger_capacity_kw"

f"solar_generated_kw"

""solar_to_grid_kw"

This is a battery gauge the maximum comes from gauges.json "battery_capacity_kwh" and amount full comes from "discharge_enegy_remaining_kwh". Updates every 1 minute. Same as small icon in battery gauge.

"solar_to_battery_kw"

"grid_imported_kw""

"solar_to_site_load_kw"

""grid_to_battery_kw"

This is a battery gauge the maximum comes from gauges.json "battery_capacity_kwh" and amount full comes from "discharge_enegy_remaining_kwh". Updates every 1 minute. Same as small icon in battery gauge.
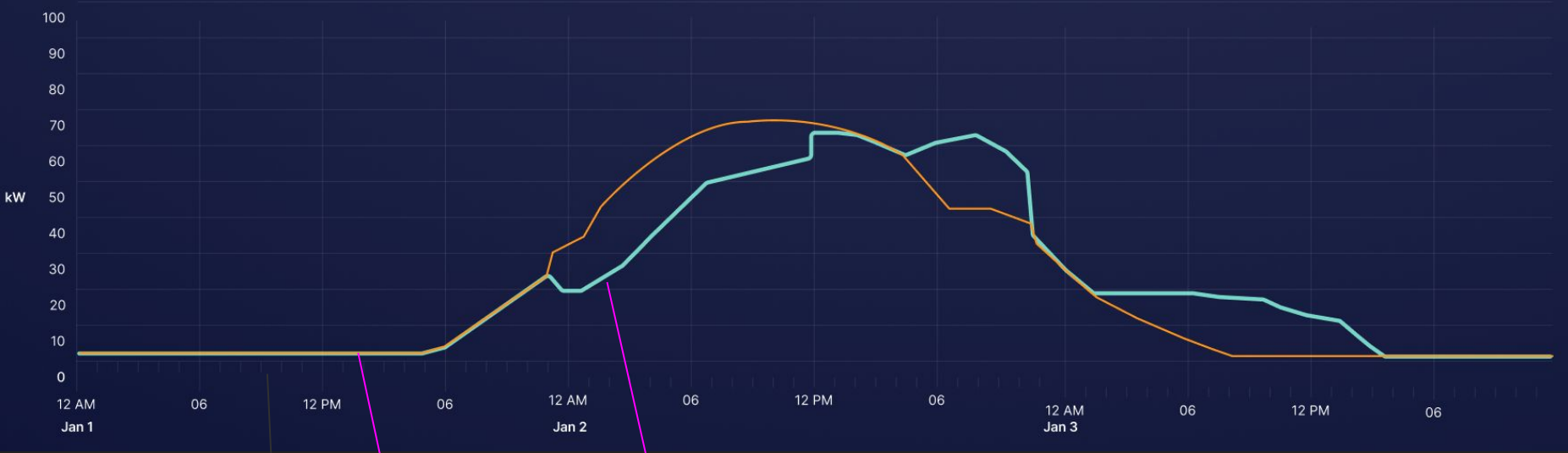
"grid_to_site_load_kw"

"site_load_kw"

"battery_to_site_load"

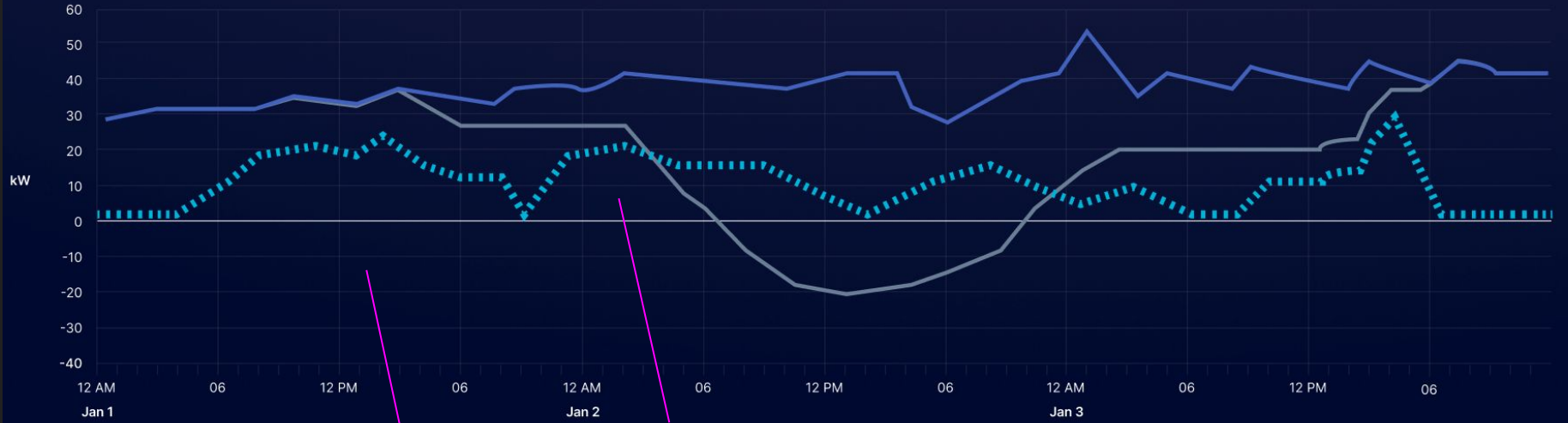"ev_charger_load_kw"

Site Production (kW)
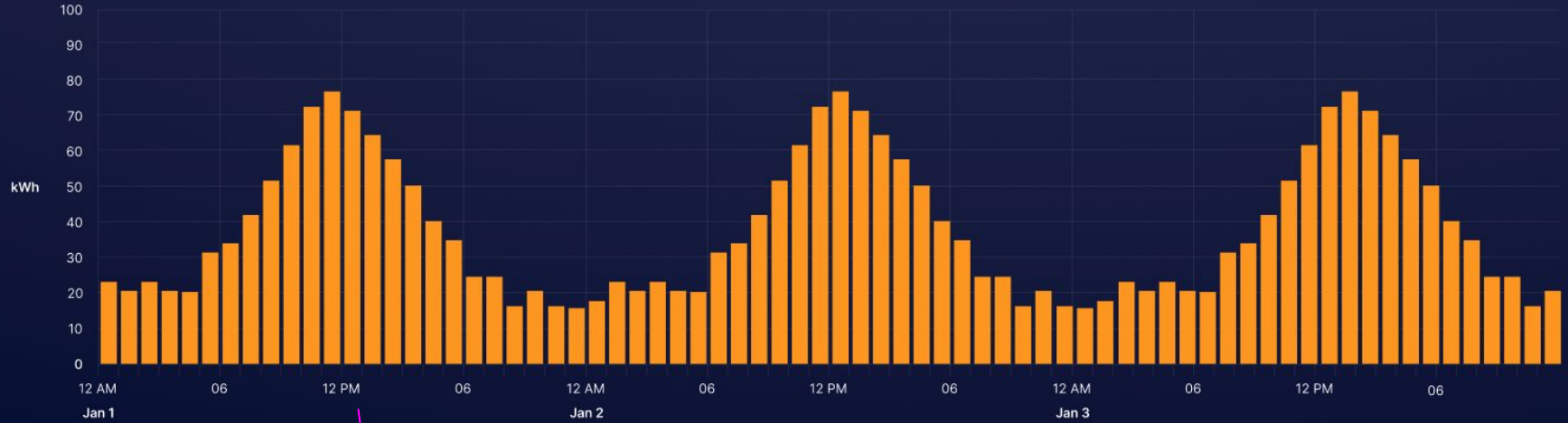
Site Consumption (kW)

TBD

X-axis "72HourBarChartBattery.jsonc" [0]
% "72HourBarChartBattery.jsonc" (for tool tip)
kWh ""72HourBarChartBattery.jsonc" for y-axis

Looks like: [[`[["2023-03-31T22:00:00.000Z",`
`49.3],`
`["2023-03-31T21:00:00.000Z", 51.7],`
`["2023-03-31T20:00:00.000Z", 59.6] …]]`

X-axis "72HourBarChartSolar.jsonc" [0] kWh ""72HourBarChartSolar.jsonc" for y-axis looks like: `[["2023-03-31T22:00:00.000Z", 49.3],`
`["2023-03-31T21:00:00.000Z", 51.7],`
`["2023-03-31T20:00:00.000Z", 59.6],`
`["2023-03-31T19:00:00.000Z", 51.6],`
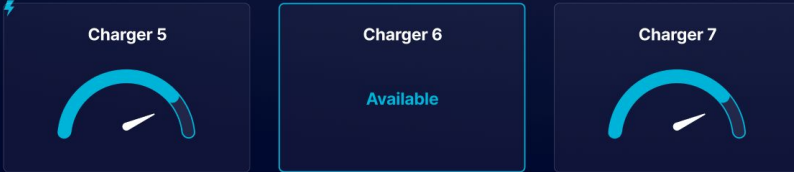`["2023-03-31T18:00:00.000Z", 38.5],`

150kW Max Capability EV Chargers

Charger 1

Charger 2

Charger 3

Available

Charger 4

100kW Max Capability EV Chargers

Charger 5

Charger 6

Available

Charger 7

TBD

Combine EV Charger Load
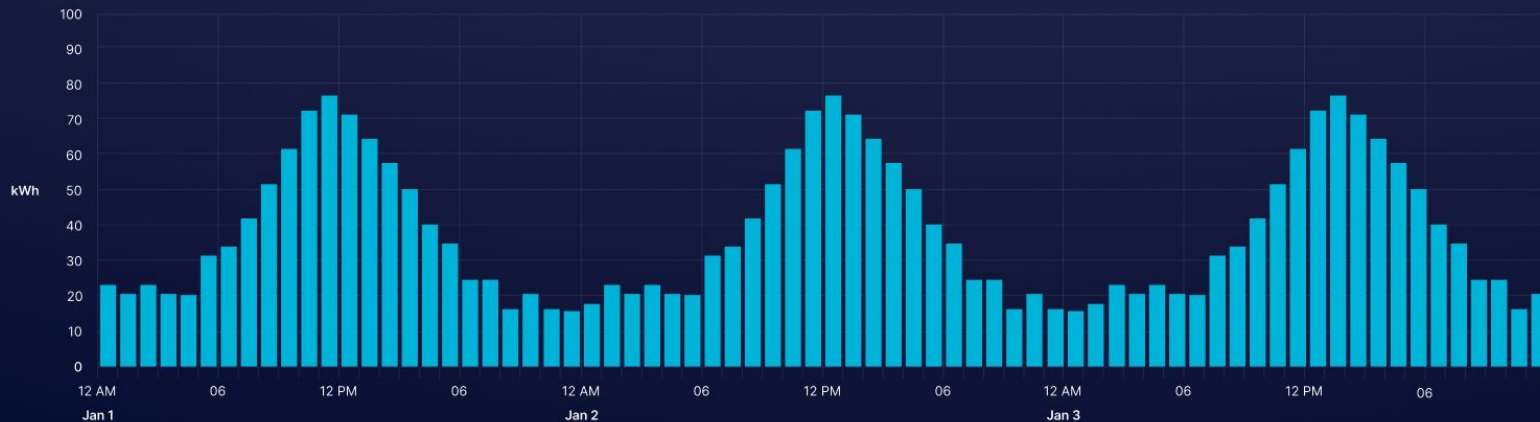
X-axis
"72HourBarChartEVCharger.jsonc" [0]
% "72HourBarChartEVCharger.jsonc"
(for tool tip)
kWh
""72HourBarChartEVCharger.jsonc"
for y-axis

Looks like:

[[[["2023-03-31T22:00:00.000Z", 49.3],
["2023-03-31T21:00:00.000Z", 51.7],
["2023-03-31T20:00:00.000Z", 59.6] …]]

Comes from the fifth column in
"72HourPerformanceAllFields.jsonc"

Energy Consumption

	Building Energy		Ev Charger Energy		Ev Charger Energy	
	Total kWh	Max kW	Total kWh	Max kW	Total kWh	Max kW
	1,320,891	**1,320,891**	**1,320,891**	**1,320,891**	**1,320,891**	**1,320,891**

Building Energy (kWh) EV Charger Energy (kWh) Battery System Charging Energy (kWh)

Open Table

Building Energy comes from the last value in "72HourPerformanceAllFields.jsonc"

Building Energy comes from the 4 value in "72HourPerformanceAllFields.jsonc"

Energy Production

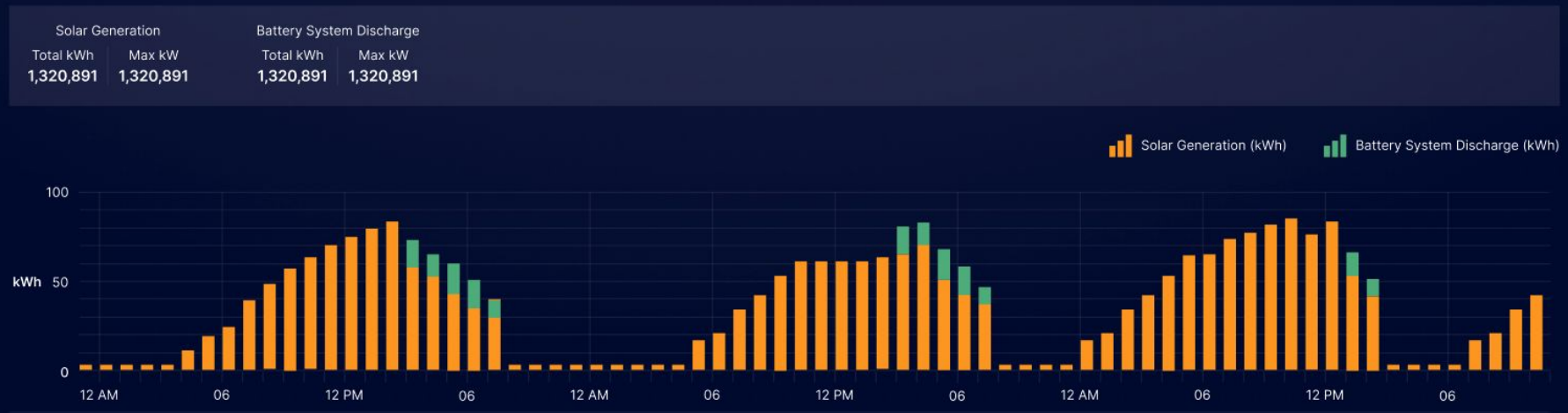|	Solar Generation		Battery System Discharge	
	Total kWh	Max kW	Total kWh	Max kW
	1,320,891	1,320,891	1,320,891	1,320,891

Solar Generation (kWh) Battery System Discharge (kWh)

"72HourBarChartProductionStacked.jsonc"
Solar Generation: first value,
Battery system discharge is second value. Looks like this:

```
[["2023-03-31T15:00:00.000Z", 50.0, 30.0],
["2023-03-31T14:00:00.000Z", 52.0, 30.0],
["2023-03-31T13:00:00.000Z", 60.0, 21.0],
["2023-03-31T12:00:00.000Z", 52.0, 20.0],
["2023-03-31T11:00:00.000Z", 29.0, 27.0],
["2023-03-31T10:00:00.000Z", 26.0, 30.0],
["2023-03-31T09:00:00.000Z", 7.0, 0.0],
["2023-03-31T08:00:00.000Z", 8.0, 0.0],
```
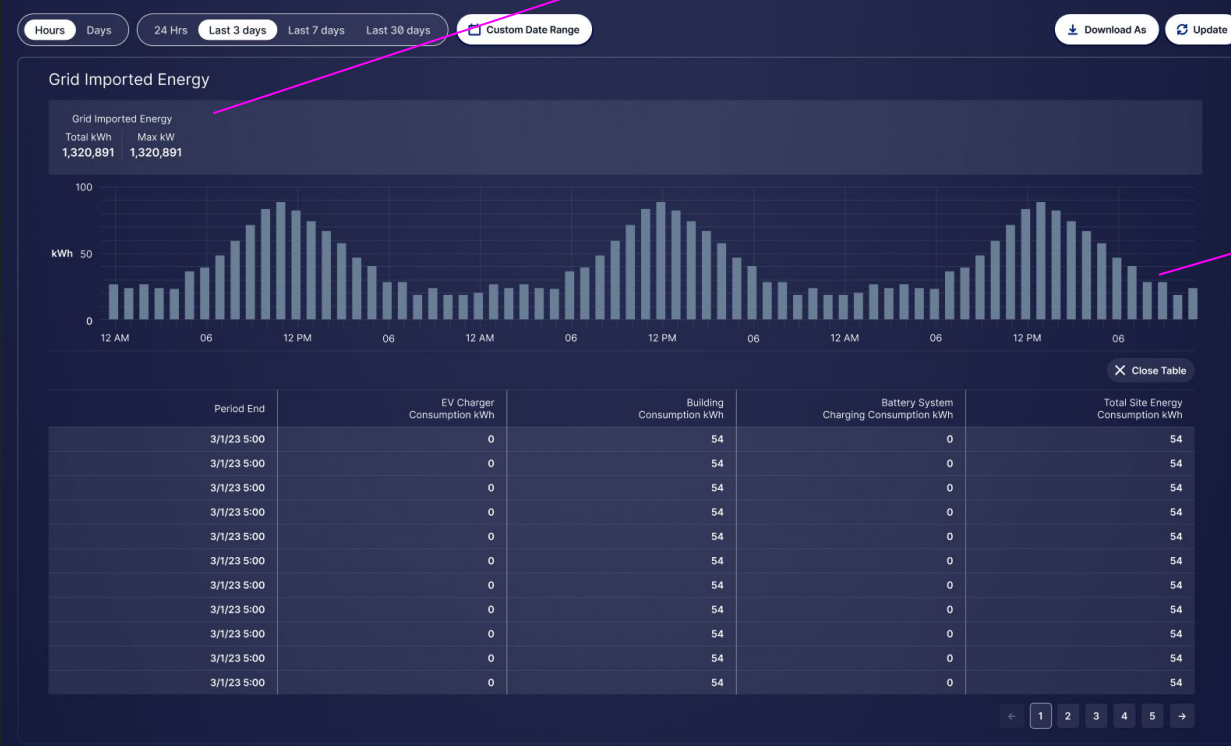
Grid Imported Energy

Grid Imported Energy

Total kWh	Max kW
1,320,891	1,320,891

Comes from 5th item in the nest lists in net_energy_consumption_kwh

Period End	EV Charger Consumption kWh	Building Consumption kWh	Battery System Charging Consumption kWh	Total Site Energy Consumption kWh
3/1/23 5:00	0	54	0	54
3/1/23 5:00	0	54	0	54
3/1/23 5:00	0	54	0	54
3/1/23 5:00	0	54	0	54
3/1/23 5:00	0	54	0	54
3/1/23 5:00	0	54	0	54
3/1/23 5:00	0	54	0	54
3/1/23 5:00	0	54	0	54
3/1/23 5:00	0	54	0	54
3/1/23 5:00	0	54	0	54
3/1/23 5:00	0	54	0	54