

# VATT Logging

Important engineering data is now logged at VATT into a sqlite database. This is done using sqlalchemy and several python modules to retrieve data from the relevant systems. That [source code](#) can be found on gitlab. There is also a [web page](#) that will display simple plots or tables of logged data.

## Web API for advanced plotting

Through the previously mentioned web app there is a url API of sorts that can be used to access data programmatically.

The program below will retrieve data from each currently available table for the last 1200 minutes.

```
#!/usr/bin/python

import pandas as pd

minsago = 1200

dataframes = dict()

for table in ['temps', 'telem', 'ngtelem', 'ivps']:
    url =
    "http://vatt.as.arizona.edu:42180/recent/data/{}.csv?minsago={}".format(
    table, minsago )
    print("retrieving data from: \n\t\t{}".format(url))
    dataframe[table].plot(subplots=True)
    try:
        dataframe[table]=pd.read_csv(url)
        print(dataframe[table])
    except Exception as err:
        print err

print()
print()
```

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