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# **nem Documentation**

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This is an example on how to use the nem module to read data from AEMO.

```
import nem

for document in nem.current.DispatchIS:
    for data in document.filter("PRICE"):
        if data["REGIONID"] == "VIC1":
            print(data["RRP"])

# prints out the RRP for VIC

print(nem.generators()["GSTONE1"]["Fuel Source - Primary"])
# 'Fossil'
# prints out the primary fuel source for gstone
```

**nem.archive** = <nem.importer.importer object>

Provides a nem.importer for archive data

**nem.current** = <nem.importer.importer object>

Provides a nem.importer for current data

**nem.direct**

Provides a nem.importer.document for single use file extraction

alias of document

**nem.generators**

Dictionary of generators and their data from the participants list

alias of stationdata

**nem.historical** = <nem.importer.importer object>

Provides a nem.importer for historical data (10+ years)

**class** nem.importer.document(*url*)

Bases: object

Lists all the documents available for parsing by this module

**Parameters** *url* (string) – URL to parse

**clean\_data**

Provides a dictionary of all the datasets

**Return type** object

**Returns** {"dataset1":[{"header1":"value"}]}

**data**

Provides the raw data from the file

**Return type** list

**Returns** Array of raw lines of data

**datasets**

Provides lists of datasets in the file

**Return type** list

**Returns** Array of datasets available

**dateTime** = None

Provides a datetime object for the file based on the timestamp in the filename

**Return type** datetime

**filter** (*dataSet*)

Filters out data to a specific dataset and return that set

**Return type** [{"header1": "data1"}]

**class** nem.importer.files (*baseUrl*, *historical*)

Bases: list

Lists all the documents available for parsing by this module

**Parameters**

- **baseUrl** (string) – URL to list files for
- **historical** (string) – Enables generating a list of files for every year, requires being set to the filename requested (eg PUBLIC\_DVD\_P5MIN\_REGIONSOLUTION)

**Returns** Returns an array of documents

**Return type** [document]

**class** nem.importer.importer (*url*= 'http://www.nemweb.com.au/Reports/CURRENT/', *historical*=False)

Bases: object

Impoter class allows downloading data from AEMO NEM site

**Parameters**

- **url** (string) – URL to the NEM server
- **historical** (boolean) – Access to historical data using the MMSDM data

**Returns** Returns an array of documents

**Return type** [document]

**CO2 = None**

NEM CO2 data documents

**Return type** [document]

**DispatchIS = None**

NEM DispatchIS data documents

**Return type** [document]

**Notices = None**

NEM Notices data documents

**Return type** [document]

**SCADA = None**

NEM SCADA data documents

**Return type** [document]

**p5 = None**

NEM p5 data documents

**Return type** [document]

# CHAPTER 1

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## Indices and tables

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