

User Guide

Embedded Generation Forecasts

PV & Wind

Introduction

National Grid-ESO currently publish Embedded generation forecasts (for PV & Wind power) through our website. These forecasts are available through an API (Application Programming Interface) in half-hourly resolution for up to 14 days ahead timescales and get updated every hour.

This is one the ESO Forward Plan deliverables for forecasting: “*Make energy forecasts more accessible via a dedicated website and APIs*”.

How to access the API

Link to access API without request parameters:

<https://demandforecast.nationalgrid.com/EmbeddedPVWind/resources/api?>

In this case API, will download **last available forecast** in the form of **CSV** file format.

The link to access the API with request parameters is:

<https://demandforecast.nationalgrid.com/EmbeddedPVWind/resources/api?FN=1&OutType=json>

In this case the API, will generate output in the format of **JSON** for the **Last available - 1 forecasts**.

Parameters:

FN (forecast number, with 1 being the latest, 2 the second-to-latest and 23 yesterdays' forecast)

OutType (output file format, JSON and CSV file format are available)

Example:

<https://demandforecast.nationalgrid.com/EmbeddedPVWind/resources/api?FN=1&OutType=json>

Data description

Data element	Description
"DATE_GMT"	The forecast target date in the GMT timezone
"TIME_GMT"	The forecast target time in the GMT timezone
"SETTLEMENT_DATE"	The target settlement date for the forecast, this is in local time
"SETTLEMENT_PERIOD"	The target settlement period
"EMBEDDED_WIND_FORECAST"	The forecast for average embedded wind generation for the half hour period ending at the forecast date and time, in MW.
"EMBEDDED_WIND_CAPACITY"	The available capacity of embedded wind generation for the half hour period ending at the forecast date and time in MW
"EMBEDDED_SOLAR_FORECAST"	The forecast for average embedded PV generation for the half hour period ending at the forecast date and time, in MW.
"EMBEDDED_SOLAR_CAPACITY"	The available capacity of embedded wind generation for the half hour period ending at the forecast date and time in MW