

Gas System
Operator

MIPI – Custom Data Download

nationalgrid



Why we have developed the Custom Data Download Tool

MIPI users have told us that they need a simple tool, which does not require development skills, to access data from MIPI in an easy and repeatable way.

The custom data download tool has been developed to enable users to create a query once, download and refresh the data without additional effort using a simple tool.

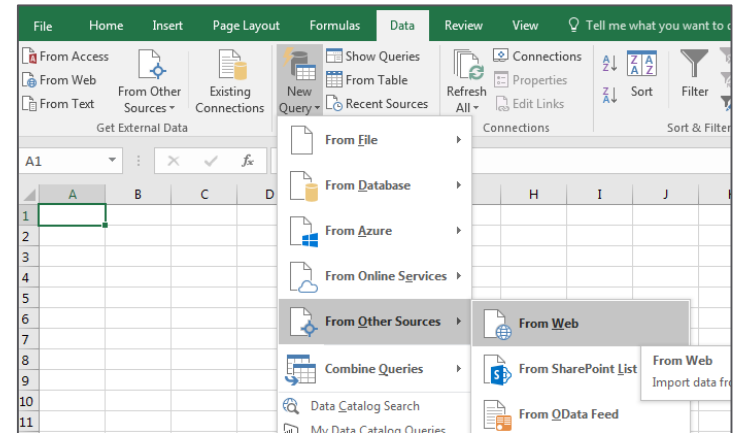
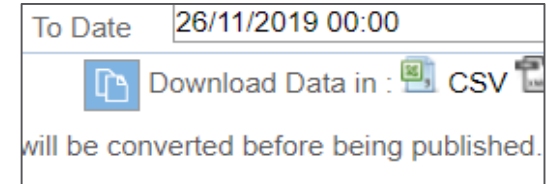
The following example is for MS Excel, but could be used with other Business Intelligence tools also.

How to access the Custom Data Download Tool

How to access publication object data for users of Excel (Office 365 or v16):

1. Firstly, within Data Item Explorer, define a query including the data items of interest and date range within data item explorer, then click the custom data download icon to copy the query url to the clipboard.
2. Open an Excel spreadsheet
3. On the Data tab select the “From Web” action.


Note: this will vary dependent on your version of Excel. See Microsoft help documentation for Excel data query web connections.



How to edit the Custom Data Download Tool

4. In the From Web dialog paste the url from the custom data download tool.

You can also build this query string by supplying parameters (detailed below) as required to restrict the returned data.



Parameter Name	Type	Description
LatestValue	Boolean	Only show latest values published per gas day. Expected values true or false.
Applicable	String	Controls whether the From and To restriction values supplied are restricting Applicable At or Applicable For. Expected values ApplicableAt or ApplicableFor.
FromUtcDatetime	String	An ISO 8601 date time string in UTC time to apply as the From value in Applicable restriction. String value must be in the form YYYY-MM-DDTHH:mm:ssZ or YYYY-MM-DD.
ToUtcDatetime	String	An ISO 8601 date time string in UTC time to apply as the To value in Applicable restriction. String value must be in the form YYYY-MM-DDTHH:mm:ssZ or YYYY-MM-DD.
PublicationObjectStagingIds	String	Comma separated list of data item staging identifiers. These values can be found by TODO: work out how to publish staging id's and advertise here.

How to edit the Custom Data Download Tool

5. The following example Url will display data for data items:

“Opening linepack (interim)” identified by staging Id “PUBOB29”

“Predicted Closing Linepack (PCLP1)” identified by staging Id “PUBOB30”

“Predicted Closing Linepack (PCLP2)” identified by staging Id “PUBOB31”

with Applicable For values within the month of August 2019:

<http://mip-prod-web.azurewebsites.net/CustomDataDownload?Applicable=ApplicableFor&PublicationObjectStagingIds=PUBOB29,PUBOB30,PUBOB31&FromUTCDateTime=2019-08-01&ToUTCDateTime=2019-08-31>

How to edit the Custom Data Download Tool

- In the Navigator window you can explore the data returned with “Table 0” containing the requested data. Pressing Load will create a connection to the web data access endpoint which can be refreshed or amended as required.

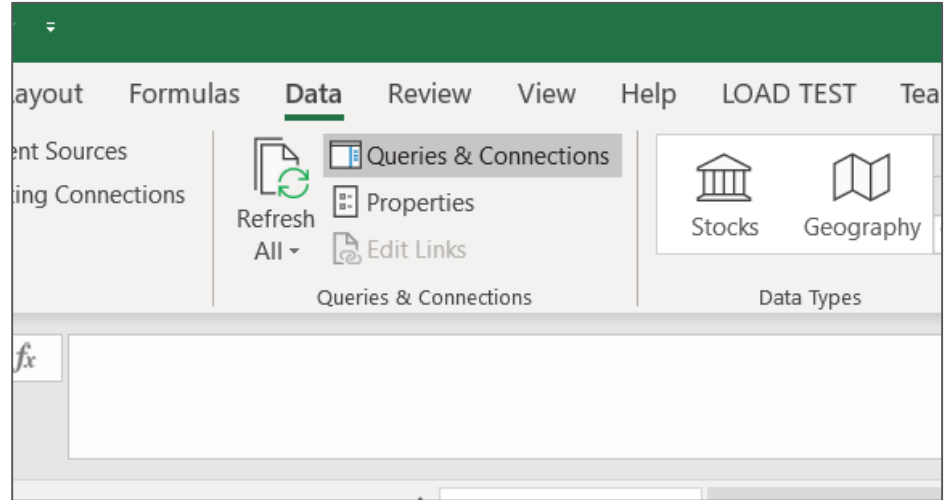
The screenshot displays the Custom Data Download Tool interface. On the left, the Navigator window shows a tree view with a folder containing a document icon and 'Table 0'. The main area shows 'Table 0' in 'Table View' mode. The table has three columns: 'Applicable At (UK Local Time)', 'Applicable For (Gas Day)', and 'Data Item'. The data items alternate between 'Opening linepack (intr)' and 'Predicted Closing Line' for each time slot. At the bottom, there are buttons for 'Load', 'Transform Data', and 'Cancel'.

Applicable At (UK Local Time)	Applicable For (Gas Day)	Data Item
31/08/2015 04:00:00	30/08/2015	Opening linepack (intr)
31/08/2015 04:00:00	30/08/2015	Predicted Closing Line
31/08/2015 04:00:00	30/08/2015	Predicted Closing Line
31/08/2015 03:00:00	30/08/2015	Opening linepack (intr)
31/08/2015 03:00:00	30/08/2015	Predicted Closing Line
31/08/2015 03:00:00	30/08/2015	Predicted Closing Line
31/08/2015 02:00:00	30/08/2015	Opening linepack (intr)
31/08/2015 02:00:00	30/08/2015	Predicted Closing Line
31/08/2015 02:00:00	30/08/2015	Predicted Closing Line
31/08/2015 01:00:00	30/08/2015	Opening linepack (intr)
31/08/2015 01:00:00	30/08/2015	Predicted Closing Line
31/08/2015 01:00:00	30/08/2015	Predicted Closing Line
31/08/2015 00:00:00	30/08/2015	Opening linepack (intr)
31/08/2015 00:00:00	30/08/2015	Predicted Closing Line
31/08/2015 00:00:00	30/08/2015	Predicted Closing Line
30/08/2015 23:00:00	30/08/2015	Opening linepack (intr)
30/08/2015 23:00:00	30/08/2015	Predicted Closing Line
30/08/2015 23:00:00	30/08/2015	Predicted Closing Line
30/08/2015 22:00:00	30/08/2015	Opening linepack (intr)
30/08/2015 22:00:00	30/08/2015	Predicted Closing Line
30/08/2015 22:00:00	30/08/2015	Predicted Closing Line

How to edit the Custom Data Download Tool

7. To get access to amend the query (or refresh the data) ensure the Queries and Connections window is displayed:

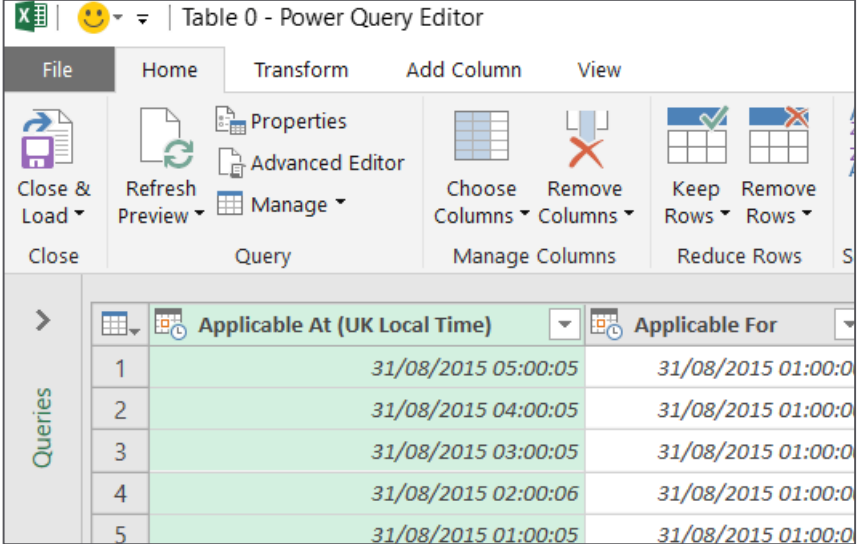
Note: this will vary dependent on your version of Excel. See Microsoft help documentation for Excel data query web connections.



How to edit the Custom Data Download Tool

- By selecting edit on the context menu of the query we can amend the query to add dynamic parameters (for example amend the date range in relation to current time).

The Data Community Site has some working examples of this spreadsheet [Here](#), where you can take this process and build mini applications where you are regularly accessing structured data. For example: Yesterdays system status data or larger quantities of historical without the need to run multiple queries.



The screenshot shows the Power Query Editor interface for a table named 'Table 0'. The ribbon includes 'File', 'Home', 'Transform', 'Add Column', and 'View'. The 'Queries' pane on the left shows a table with 5 rows. The table has two columns: 'Applicable At (UK Local Time)' and 'Applicable For'. The data in the table is as follows:

	Applicable At (UK Local Time)	Applicable For
1	31/08/2015 05:00:05	31/08/2015 01:00:0
2	31/08/2015 04:00:05	31/08/2015 01:00:0
3	31/08/2015 03:00:05	31/08/2015 01:00:0
4	31/08/2015 02:00:06	31/08/2015 01:00:0
5	31/08/2015 01:00:05	31/08/2015 01:00:0

Any Questions?

For further assistance with this, please contact us:



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