



Microsoft Cloud for Sustainability **in a Day**

Lab 02: Data ingestion

Step-by-Step Lab

45 minutes

September 2022

Contents

- Overview..... 3
 - Background..... 3
 - Learning Objectives 3
 - Prerequisites 3
 - Solution Focus Area..... 3
 - Personas and Scenarios..... 4
- Exercise 1: Import Data 6
 - Task 1: Import 2021 data for “Purchased Electricity” for Facilities..... 9
 - Task 2: Import 2021 data “Miles Driven” for Electric Trucks..... 26

Overview

Background

In the previous lab, Wide World Importers' company profile, facilities, and reference data such as Contractual instrument types were created to lay the Master data foundation for Emissions calculations and Reporting. In this lab - we will perform the Activity data ingestion for the Purchased Electricity of the two newly acquired Florida facilities. In addition, we will also ingest emission data related to the charging of the fleet of 50 Fabrikam Electric trucks. The built-in connectors in the Microsoft Sustainability Manager will be used to ingest the Activity data into the application.

Learning Objectives

In this lab, you will do the following:

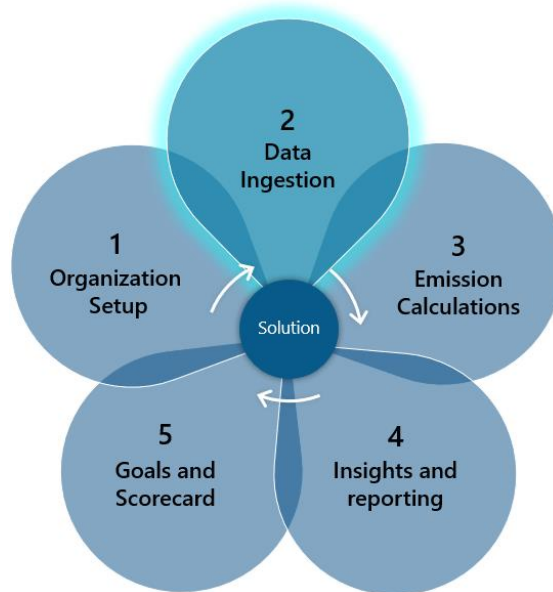
- Use Microsoft Sustainability Manager connectors to ingest data
- Use Power Query to transform the data before ingestion
- Review the ingested data in the "Purchase Electricity Activity Data" Dataverse Table
- The newly ingested activity data during this lab exercise will be utilized in the remaining scenarios (calculations and reporting) in the upcoming lab exercises.

Prerequisites

- Microsoft Sustainability manager environment is set up with sample data
- Lab 01 organization and reference data is entered.

Solution Focus Area

In this lab, the focus is on the "Data Ingestion" aspect of the Solution Focus Area. It follows the "Organization and Reference data Set up" and forms the basis for the emission calculations and the reporting thereafter. The Microsoft Sustainability Manager is flexible with multiple automated options to ingest data – such as the connectors as well as manual inputs. For scenarios that may require complex data transformation and/or ETL, tools like Azure Data Factory are recommended. You can explore this functionality in deeper detail on Microsoft Docs, please visit [Overview of Microsoft Cloud for Sustainability Data Import](#)



Personas and Scenarios

In this lab, Reed Flores – IT Admin for Wide World Importers utilizes the activity data Excel spreadsheets sourced by Alex Serra – Emissions Analyst. The Activity data spreadsheets contain Electricity Purchased for the year 2021 and Miles driven by the fleet of Fabrikam Electric Trucks for the calendar year 2021. Reed utilizes Microsoft Sustainability Manager’s connector functionality to import from the Excel spreadsheets, and reviews other connectors available for future purposes. Reed uses the built-in Power Query functionality to transform the data to match Microsoft Sustainability Manager’s data schema and looks for other potential issues such as case-sensitive data fields.



Sustainability Lead

"I provide the requested data from my department to our sustainability team partners"

Jessie Irwin
Contoso Corp



Sustainability Specialist

"I am responsible for all emissions reporting tasks at my company"

Amber Rodriguez
Contoso Corp



Emissions Analyst

"I analyze emissions data & send results of analyses to other stakeholders"

Alex Serra
Wide World Importers



IT Admin

"I'm involved in collecting emissions data and inputting it into our database."

Reed Flores
Wide World Importers

In this lab exercise, we will focus on the Lab 2 scenario illustrated below:

Lab 2



Amber & Jessie introduce Sustainability Manager to Alex and then asks them to fill out the Inventory Plan. Alex does the scoping and with Reed's help, starts setting up the Wide World Importers Organization data and Reference Data.



Reed uses the data connectors to import the excel spreadsheet Alex gave them for 1) Electricity Purchased for all of Year 2021 2) Miles driven by Fabrikam Electric Trucks.



Alex sets up the Factor Mappings for Purchased electricity and a Factor Library for Miles driven by Electric Vehicles including the Calculations. They then set up calculation profiles for Purchased electricity for facilities, and Miles driven by Electric Vehicles



Amber validates and reviews the data in the Insights section and tells Jessie that the Wide world data is available for them to review. **Jessie** opens the Reporting section to create a new Emissions report.



Amber goes into the Scorecards section to set up goals for Wide World Importers to reduce their carbon emissions to 600 mtCO2e by end of 2025.

Set up Organization and Reference Data

Ingest Emissions Activity Data

Design Calculation Models and Jobs

Build Reports and gather Insights

Create Carbon Reduction Goals and Scorecards

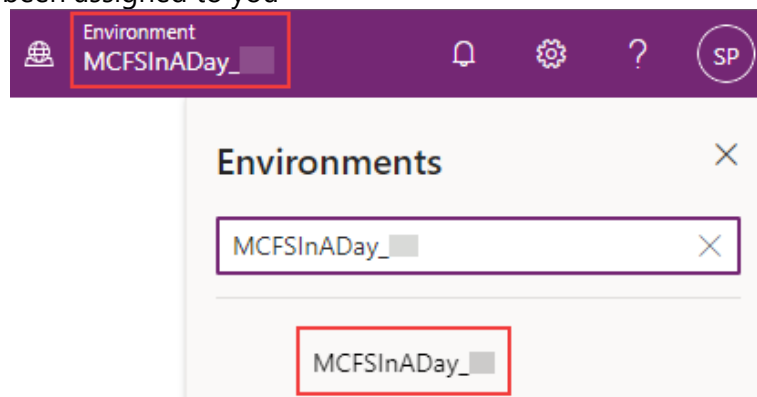
Exercise 1: Import Data

In this exercise, you will learn about the steps that Reed takes to ingest the spreadsheets given by Alex. Data import is a vital task to bringing large volumes of data into Microsoft Sustainability Manager. Excel is utilized in this lab; however, many pre-built connectors are available, and Partners can build custom connectors to integrate with additional data sources. You can explore this functionality in deeper detail on Microsoft Docs, please visit [Overview of data connectors](#).

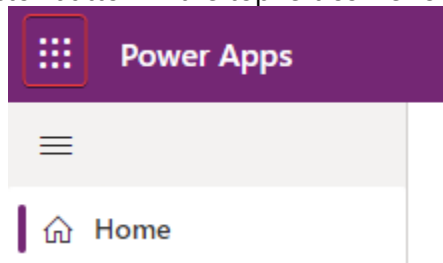
Important

Please ensure you have completed the previous lab to create Reference Data. The data import process requires all Reference Data to exist, and the process is case sensitive, so please ensure the Reference data that was added has the exact same case formatting as what is found in the lab. Failure to do so will result in errors during the data import process

- For our Instructor Lead Training, we suggest using In-private browsing, or a new browser profile.
- For our Instructor Lead Training, log in to <https://make.powerapps.com> using the mcfsiaduserXX@powerplatformopenhacks.onmicrosoft.com account that has been assigned to you.
- For our Instructor Lead Training, please use the environment selector to select the MCFSInADay_XX environment that has been assigned to you



- For this lab, you will be utilizing OneDrive. Please ensure that your personal one drive has been initialized by clicking the app selector button in the top left corner of the screen.



- Select one drive from the Apps list



Office →

Apps

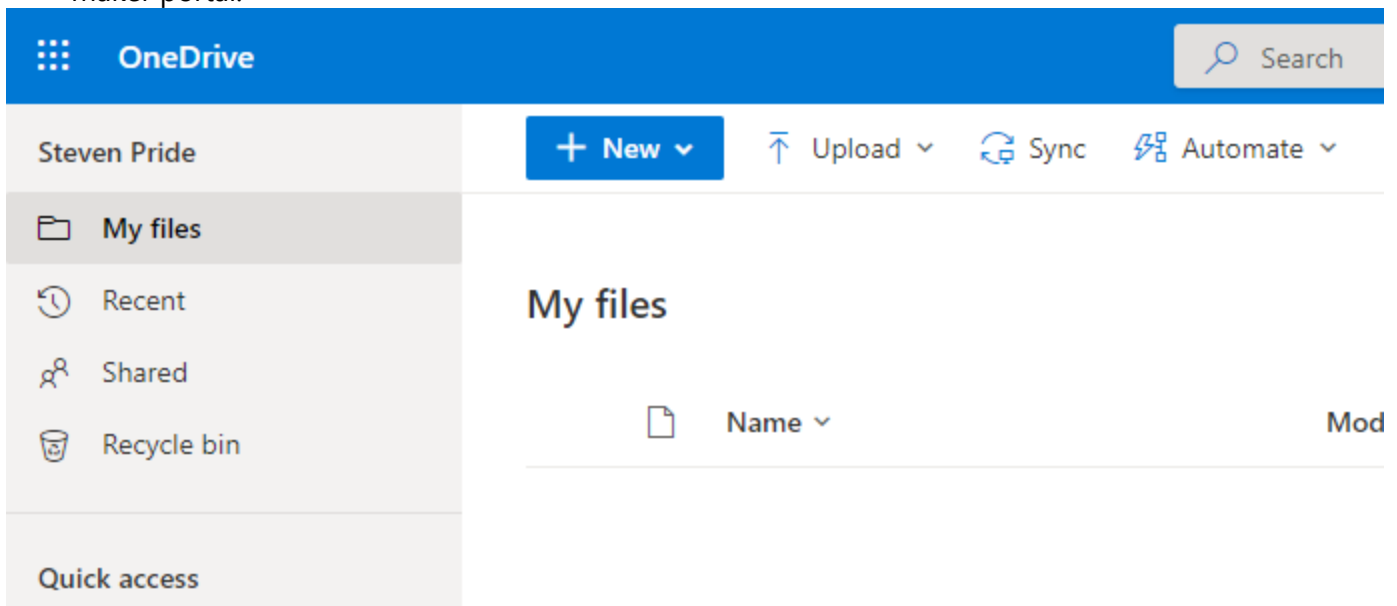


Outlook

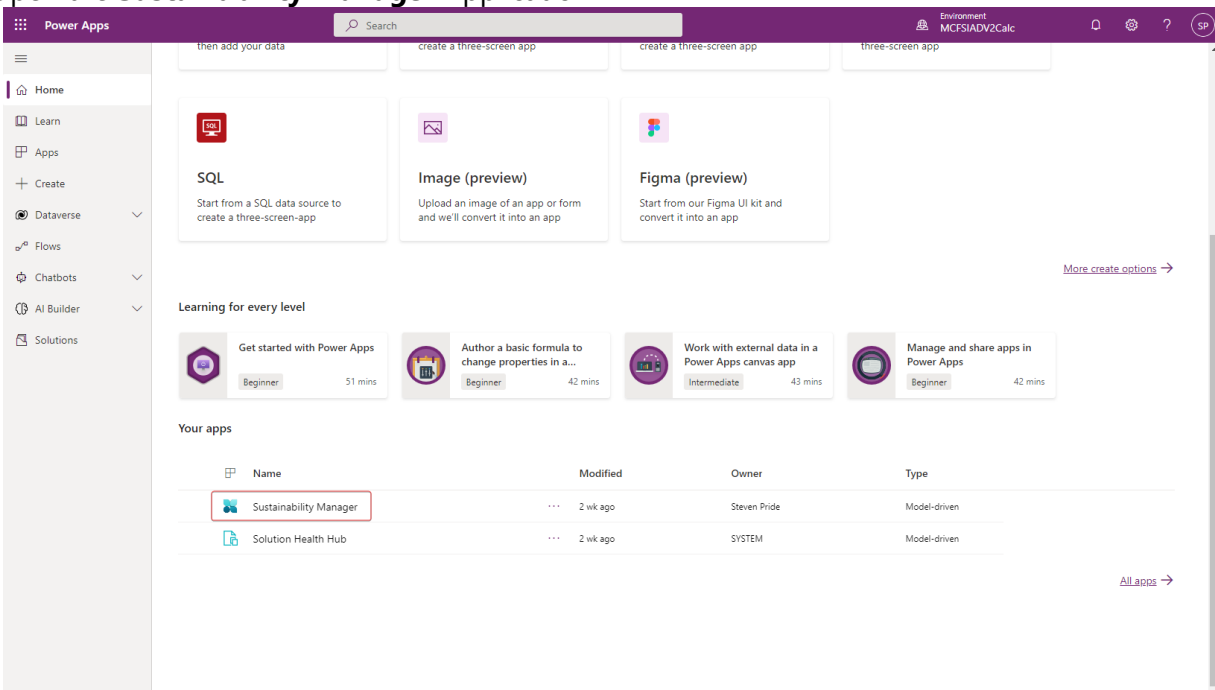


OneDrive

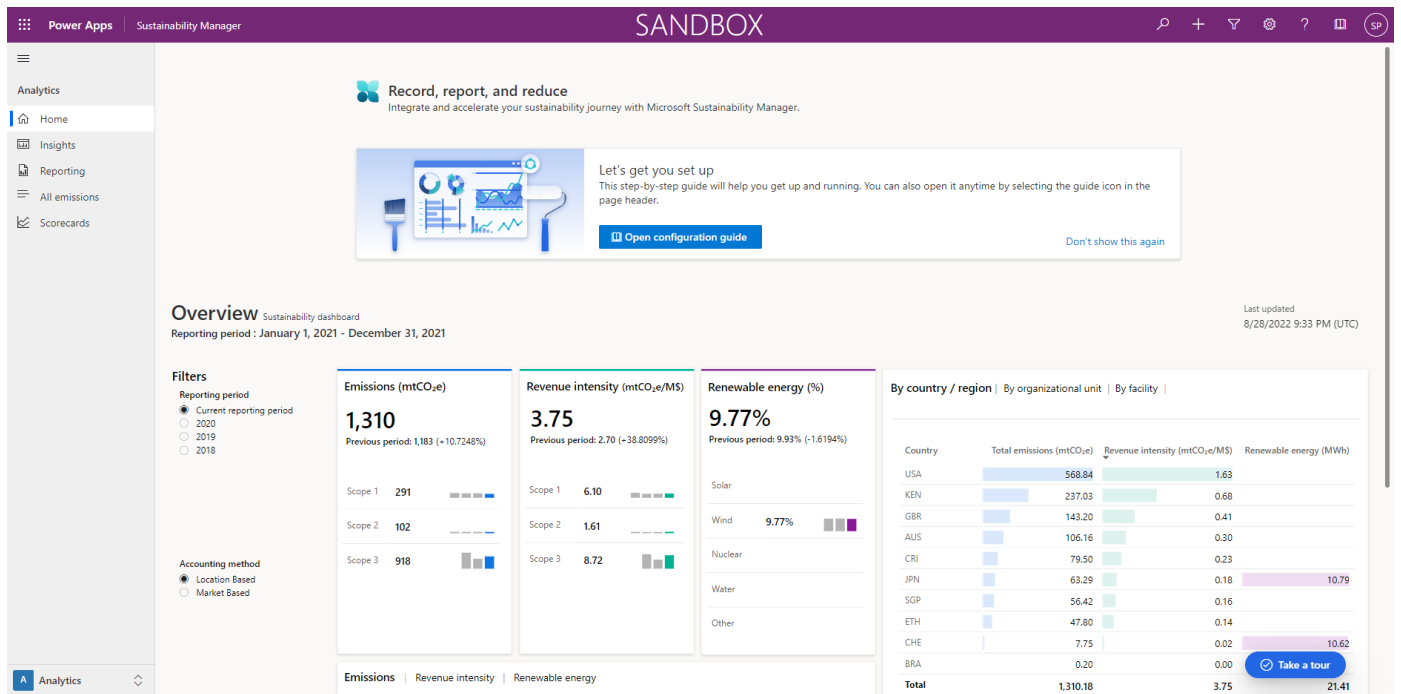
- This will open a new tab with your new OneDrive. You can close this tab and return to the Power Apps maker portal.



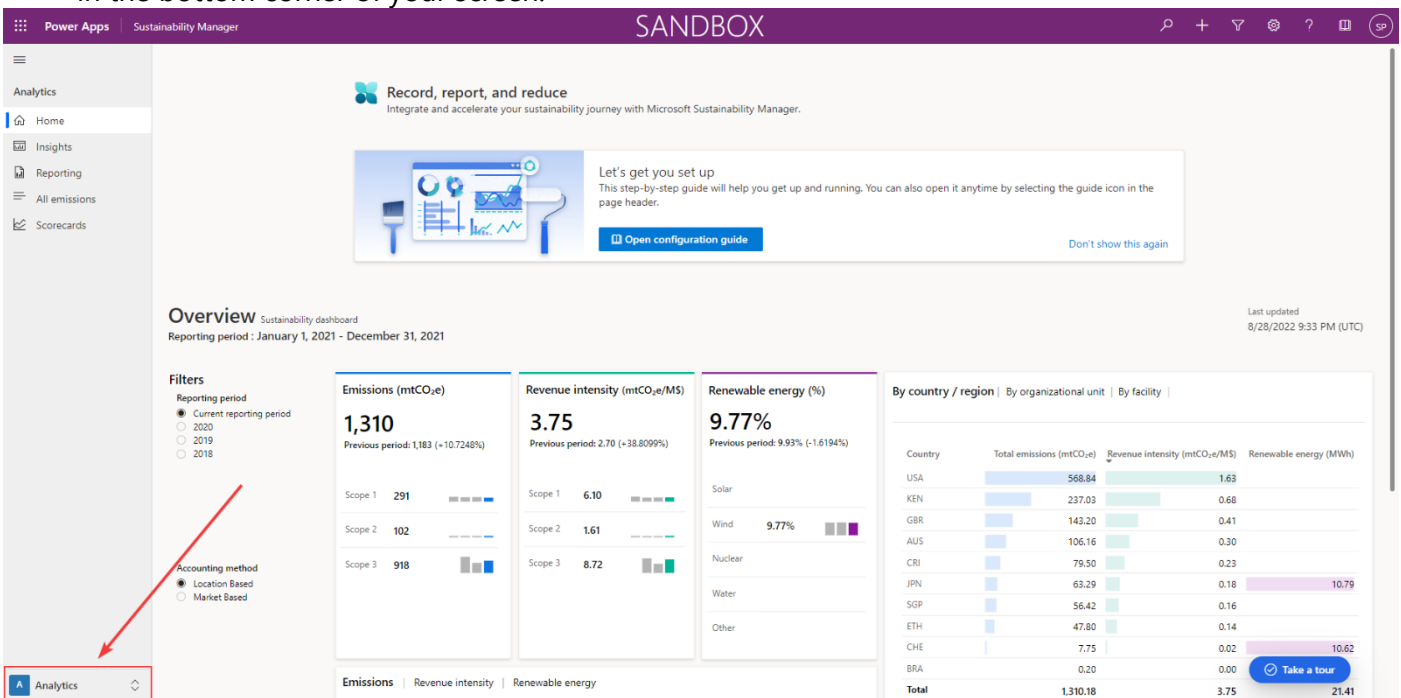
- Open the **Sustainability Manager** Application



- You will land on the **Home** page for Microsoft Sustainability Manager



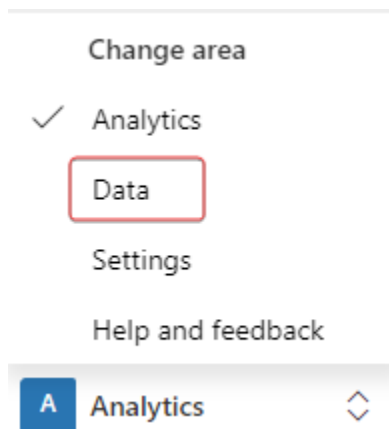
- Area navigation is a common first step in each lab and exercise. You can find the area navigation menu in the bottom corner of your screen.



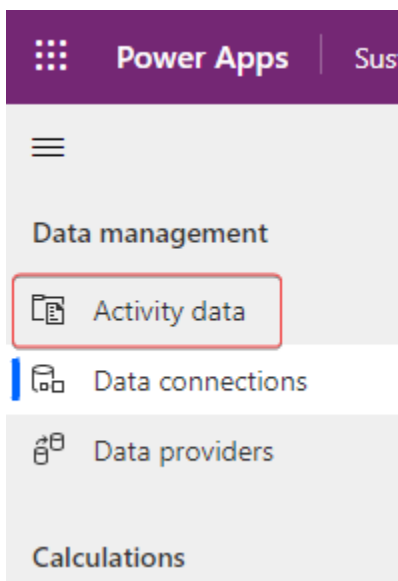
Task 1: Import 2021 data for “Purchased Electricity” for Facilities

In this task, Reed imports the first excel spreadsheet provided by Alex, Purchased electricity Wide World Importers – 2021.xlsx. This brings in the Electricity Purchased by Wide World Importers facilities for the year 2021 into the Purchased electricity activity data.

1. In the bottom left corner, change the Area to **Data**



2. Navigate to “**Activity data**” on the left side of the page.

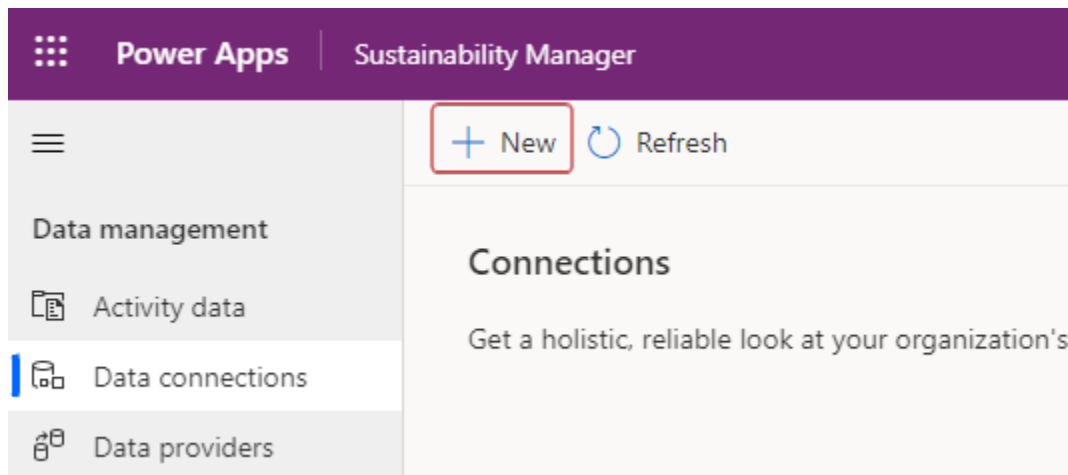


3. Find Purchased electricity in the **Scope 2: Indirect emissions** section, and click **Manage**

Scope 2: Indirect emissions			
Source	Data	Connections	Number of connections
Purchased cooling	View	Manage	0
Purchased electricity	View	Manage	0
Purchased heat	View	Manage	0
Purchased steam	View	Manage	0

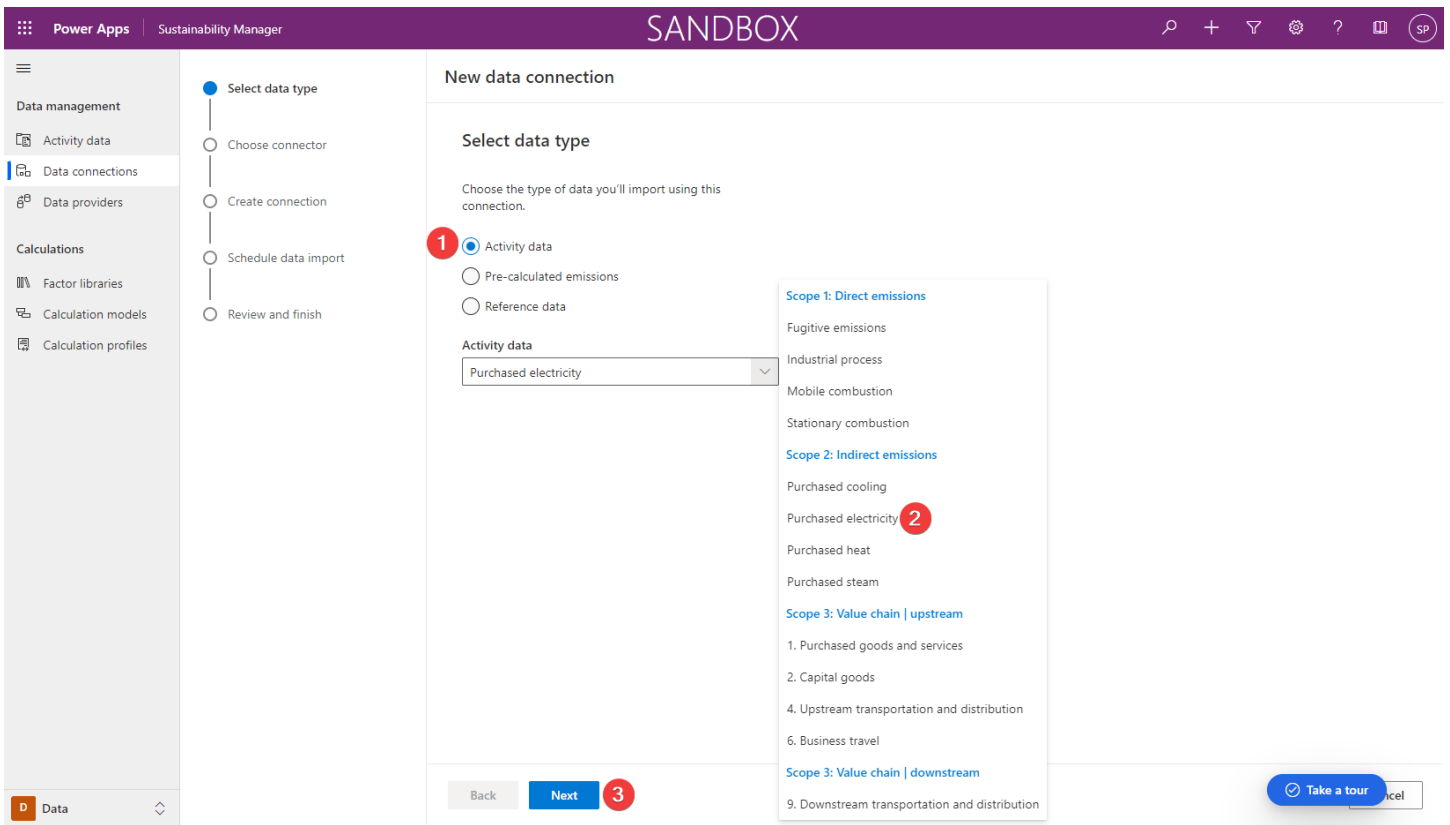
Scope 3: Value chain upstream			
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4. On the "Connections" view, click **+New**



5. On the "New data connection" wizard:

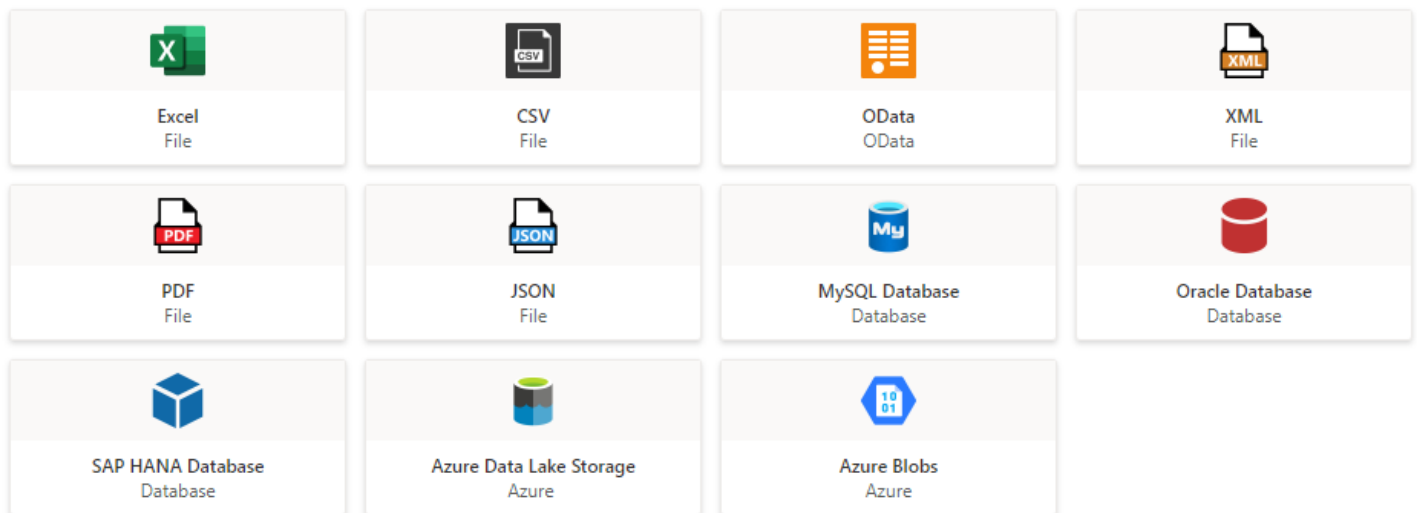
- 1) Select **Activity data** from data type screen
- 2) Choose **Purchased electricity** from the Activity data drop down list
- 3) Click **Next** when finished



6. Take a moment to review the large list of connectors by clicking the “See all Power Query connectors” link

Choose connector

Power Query



[See all Power Query connectors](#)

7. Microsoft Sustainability Manager utilizes Power Query for its data ingestion connectors, there is a broad list of connectors available in Power Query. Click Cancel or the X in the top right corner to close the Power Query dialog.



Choose data source

Select a connector or directly drag a file from your computer.

All categories File Database Power Platform Azure Online services Other

Search

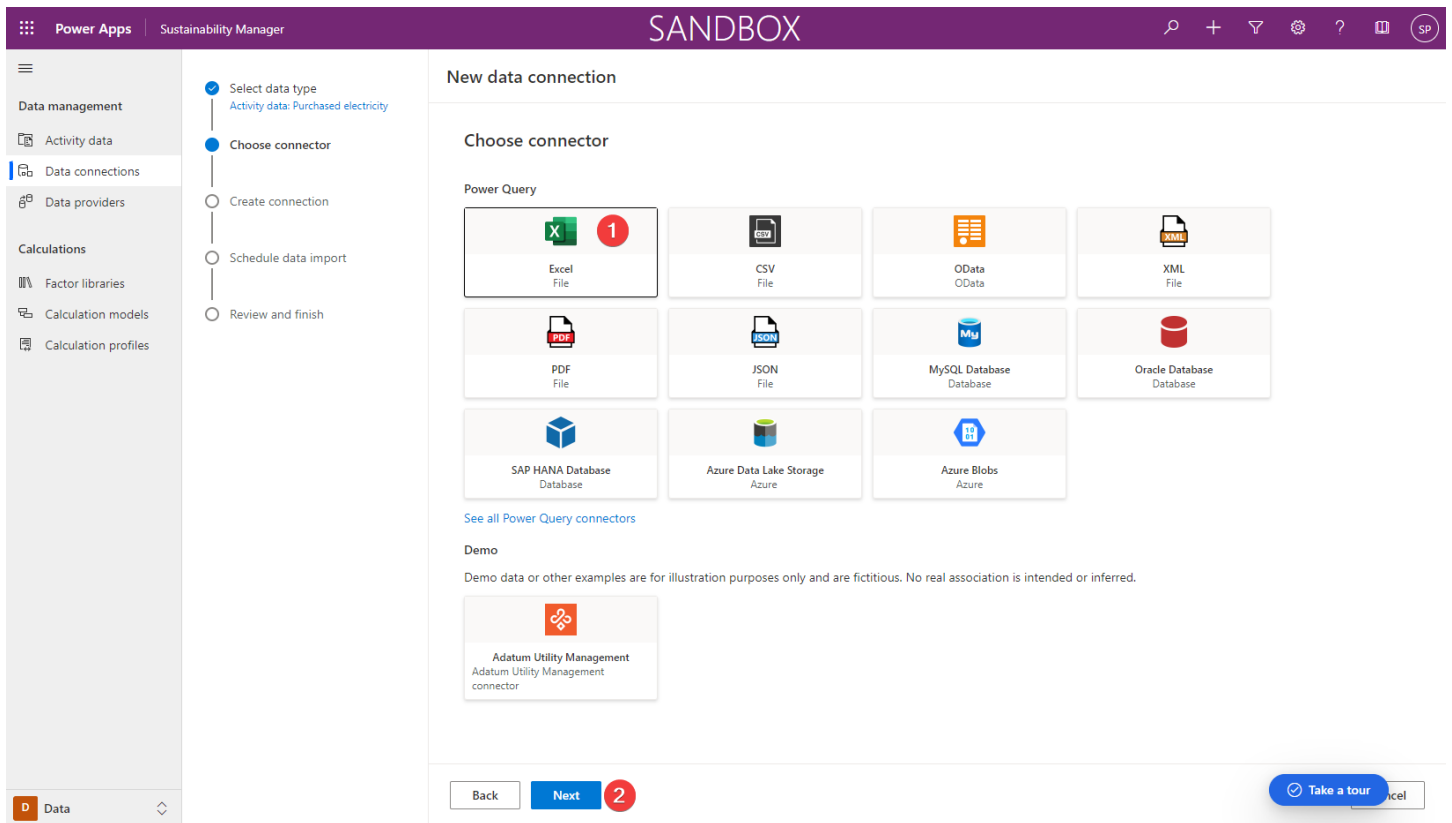
Excel workbook File	Text/CSV File	XML File	JSON File	Folder File
PDF File	Parquet File	SharePoint folder File	SQL Server database Database	Access Database
SQL Server Analysis Services Database	Oracle database Database	IBM Db2 database Database	MySQL database Database	PostgreSQL database Database
Teradata database Database	SAP HANA database Database	SAP BW Application Server Database	SAP BW Message Server Database	Snowflake Database
Google BigQuery Database	Amazon Redshift Database	Impala Database	Dataflows Power Platform	Dataverse Power Platform
Azure SQL database Azure	Azure Synapse Analytics (SQ... Azure	Azure Analysis Services Azure	Azure Blobs Azure	Azure Tables Azure
Azure Data Explorer (Kusto) Azure	Azure Data Lake Storage Gen2 Azure	Azure HDInsight Spark Azure	SharePoint Online list Online services	Microsoft Exchange Online Online services
Salesforce objects Online services	Salesforce reports Online services	Google Analytics Online services	Adobe Analytics Online services	Web API Other
Web page Other	SharePoint list Other	OData Other	Spark Other	Odbc Other

Cancel

8. On the "Choose connector" page:

- 1) Select **Excel**
- 2) Click **Next**

Note: Notice the Adatum Utility Management connector at the bottom. Data providers and Partners can create their own connectors to be available in Microsoft Sustainability Manager



9. A new dialog will open for Power Query. On the Power Query dialog:

- 1) Click **Upload file**
- 2) Click **Browse**

Note: You can also choose to import an existing file located in OneDrive. For simplicity of this lab, we are using the Upload file functionality.

Power Query

Connect to data source

Excel workbook
File
[Learn more](#)

Connection settings

☐ Link to file ☒ Upload file (Preview) 1

Drag a file here to upload
or
[Browse...](#) 2

Connection credentials

Connection
Create new connection

Connection name
Connection

Data gateway
(none)

Authentication kind
Anonymous

Back Cancel Next

10. On the file selection window, browse to the location of the excel files that were downloaded.

- 1) Select the **Purchased electricity Wide World Importers - 2021.xlsx** file
- 2) Click **Open**

← → ▾ ↑ This PC > Downloads > Training ▾ ↻ Search Training

Organize ▾ New folder

Name	Date modified	Type	Size
Fleet Vehicles Miles Driven Wide World I...	8/10/2022 5:39 PM	Microsoft Excel W...	62 KB
Purchased electricity Wide World Import...	8/10/2022 5:39 PM	Microsoft Excel W...	22 KB


File name: Purchased electricity Wide World Importers - 2021 Custom files

Open Cancel

11. Once the file is successfully uploaded, it may be required to click the sign in button below to create a new Connection credential, this is done by clicking **Sign in**.


Power Query

Connect to data source

 Excel workbook
File
[Learn more](#)

Connection settings

☐ Link to file ☒ Upload file (Preview) ⓘ

 Purchased electricity Wide World Importers - 2021 1.xlsx
Upload successful (21.3 KB)

Connection credentials

Connection
Create new connection ▼ ↺

Connection name
Connection

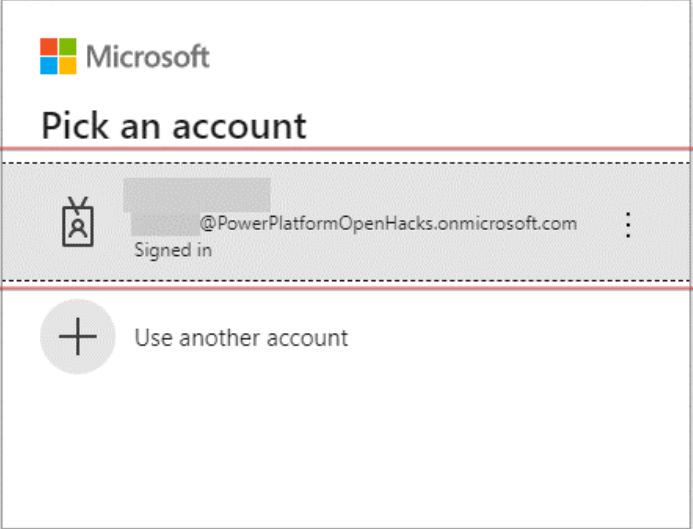
Data gateway
(none) ▼ ↺

Authentication kind
Organizational account ▼

You are not signed in. Please sign in.

Sign in

12. An Office 365 Sign in dialog will appear. Reed selects their user from the list. (For the purposes of this lab, select your "In a Day" user account from the list).



The image shows a Microsoft sign-in dialog titled "Pick an account". It features the Microsoft logo at the top. Below the title, there is a list of accounts. The first account is highlighted with a red box; it shows a profile icon, a blurred name, the email address "@PowerPlatformOpenHacks.onmicrosoft.com", and the text "Signed in". Below this list, there is a button with a plus sign and the text "Use another account". At the bottom of the dialog, there are links for "Terms of use" and "Privacy & cookies", followed by a three-dot menu icon.

13. Once the sign in process is completed, the new connection is automatically selected. Click **Next**.

Power Query

Excel workbook

File

Learn more

Connection settings

Link to file

Upload file (Preview)

Purchased electricity Wide World Importers - 2021 1.xlsx

Upload successful (21.3 KB)

Connection credentials

Connection

@PowerPlatformOpenHacks.onmicr...

Authentication kind: Organizational account

Edit connection

Back

Cancel

Next

14. On the "Choose data" page of the Power Query wizard:

- 1) Select the **"Purchased electricity"** sheet
- 2) Click **Transform data**

Power Query

Choose data

Search

Display options

Excel workbook

Table1

Purchased electricity

Purchased electricity

Name	Contracted firm	Connection	Description	Provider	Evidence	Organizational Unit	Facility	Is Renewable
PurchasedElectricity	VanArsdel Ltd	null	January activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Miami Office	No
PurchasedElectricity	VanArsdel Ltd	null	February activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Miami Office	No
PurchasedElectricity	VanArsdel Ltd	null	March activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Miami Office	No
PurchasedElectricity	VanArsdel Ltd	null	April activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Miami Office	No
PurchasedElectricity	VanArsdel Ltd	null	May activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Miami Office	No
PurchasedElectricity	VanArsdel Ltd	null	June activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Miami Office	No
PurchasedElectricity	VanArsdel Ltd	null	July activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Miami Office	No
PurchasedElectricity	VanArsdel Ltd	null	August activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Miami Office	No
PurchasedElectricity	VanArsdel Ltd	null	September activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Miami Office	No
PurchasedElectricity	VanArsdel Ltd	null	October activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Miami Office	No
PurchasedElectricity	VanArsdel Ltd	null	November activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Miami Office	No
PurchasedElectricity	VanArsdel Ltd	null	December activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Miami Office	No
PurchasedElectricity	Adatum Corp	null	January activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Tampa Office	No
PurchasedElectricity	Adatum Corp	null	February activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Tampa Office	No
PurchasedElectricity	Adatum Corp	null	March activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Tampa Office	No
PurchasedElectricity	Adatum Corp	null	April activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Tampa Office	No
PurchasedElectricity	Adatum Corp	null	May activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Tampa Office	No
PurchasedElectricity	Adatum Corp	null	June activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Tampa Office	No
PurchasedElectricity	Adatum Corp	null	July activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Tampa Office	No
PurchasedElectricity	Adatum Corp	null	August activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Tampa Office	No
PurchasedElectricity	Adatum Corp	null	September activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Tampa Office	No
PurchasedElectricity	Adatum Corp	null	October activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Tampa Office	No
PurchasedElectricity	Adatum Corp	null	November activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Tampa Office	No
PurchasedElectricity	Adatum Corp	null	December activity data from purchased electricity	Electric Company	null	Wide World Importers	Wide World Importers - Tampa Office	No

Back

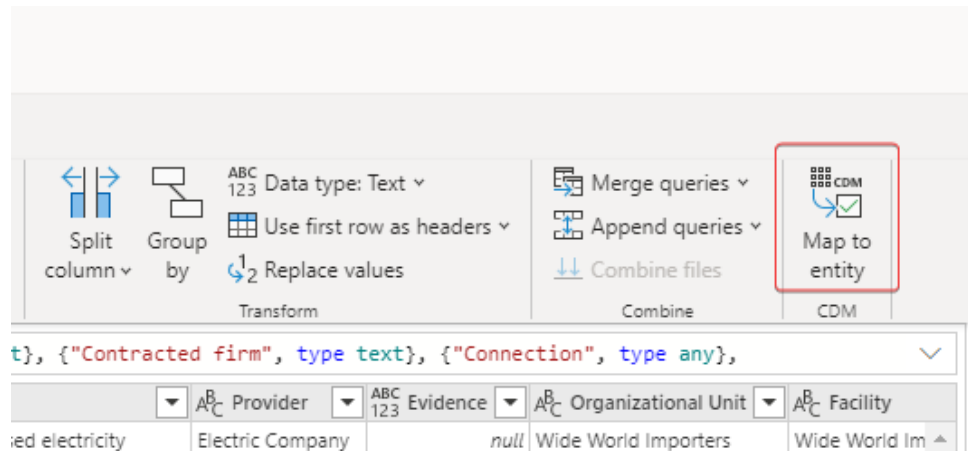
Cancel

Transform data

16

On the "Transform data" page of the Power Query wizard, various data and column transformations can be performed. This will allow for the adjusting of data types, update column mappings, and even perform advanced transformations familiar with in Power Platform Dataflows or Power BI Datasets.

15. In this scenario, Reed will need to map the columns from the spreadsheet to the columns in Microsoft Sustainability Manager. To do this click on Map to entity in the upper right corner of the dialog window.



16. On the "Map to CDM entity" of the dialog window we need to:
- 1) Select the table name, "**Purchased energy**"
 - 2) Select "**Auto map**" to allow any automatic mappings to occur
 - 3) Contractual Instrument Type was "Not mapped", hence Reed selects "**Contracted firm**" from the list of options in the "Query output column"
 - 4) Energy Provider name was "Not mapped", select "**Provider**" from the list of options in the "Query output column"
 - 5) When finished, click "**OK**"

Map to CDM entity

Map the columns from your query output to attributes of a standard Common Data Model (CDM) entity.

[Learn more](#)

Purchased energy

1

2

Auto map

Clear all mappings

Entity description

Electric energy, measured in MWh, delivered by the utility to a customer in accordance with the signed agreement.

Query output column	Entity attribute ↑	Mapping type
Consumption End Date	Consumption End Date	Auto mapped
Consumption Start Date	Consumption Start Date	Auto mapped
Contracted firm	Contractual Instrument Type	Mapped
Cost	Cost	Auto mapped
Cost unit	Cost unit	Auto mapped
Data Quality Type	Data Quality Type	Auto mapped
Description	Description	Auto mapped
Provider	Energy Provider Name	Mapped
Evidence	Evidence	Auto mapped
Facility	Facility	Auto mapped
Is Renewable	Is Renewable	Auto mapped
Meter number	Meter number	Not mapped

5

OK

Cancel

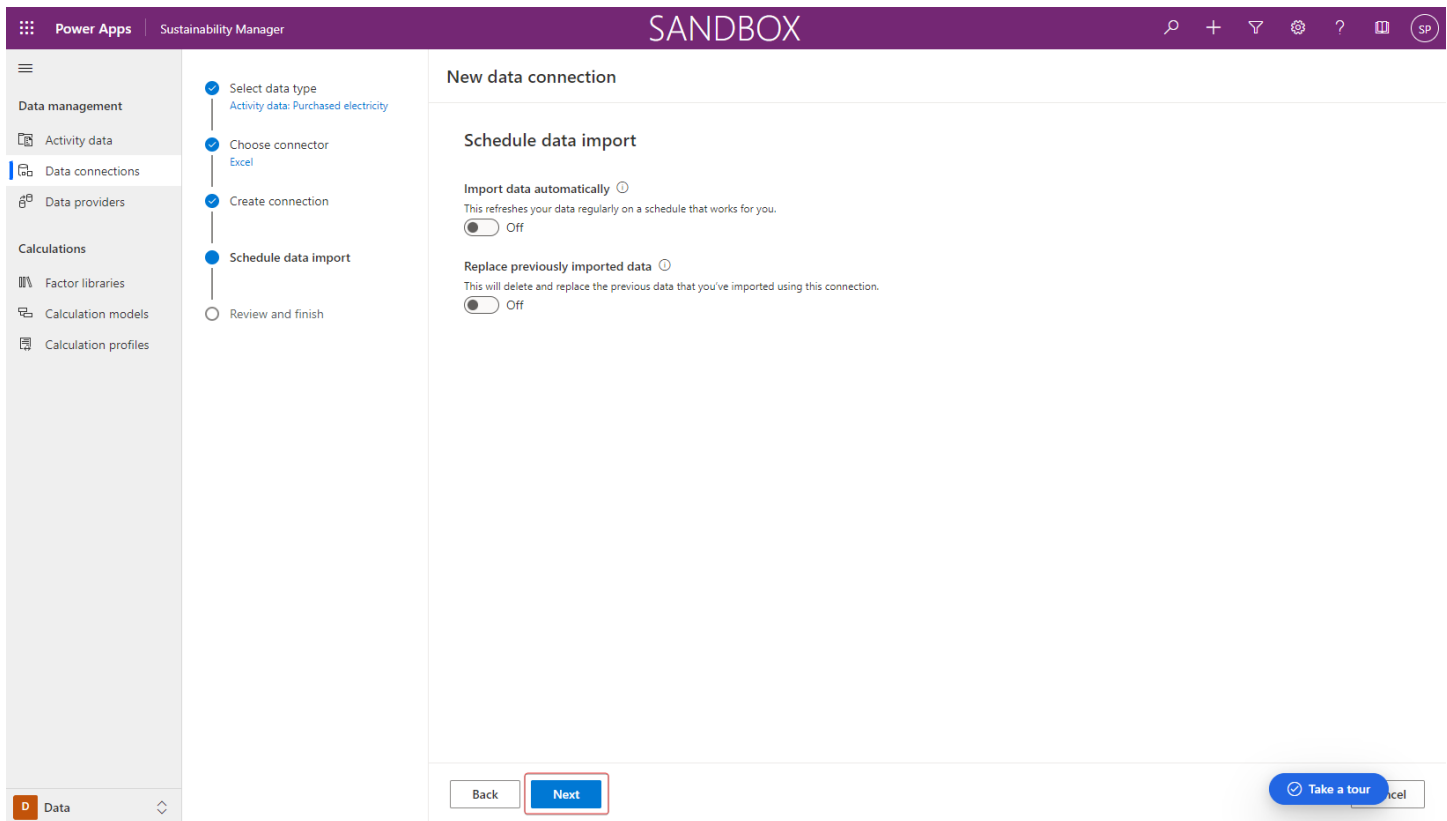
17. The “Transform data” page should now look like this

Note: Observe that the column names have changed to Contractual Instrument Type and Energy Provider Name.

Turning on “Import data automatically” will give the option to set a schedule to have the data imported automatically, this may be a good option if the connector will be used in a scenario where the data will change frequently such as a web API or FTP server.

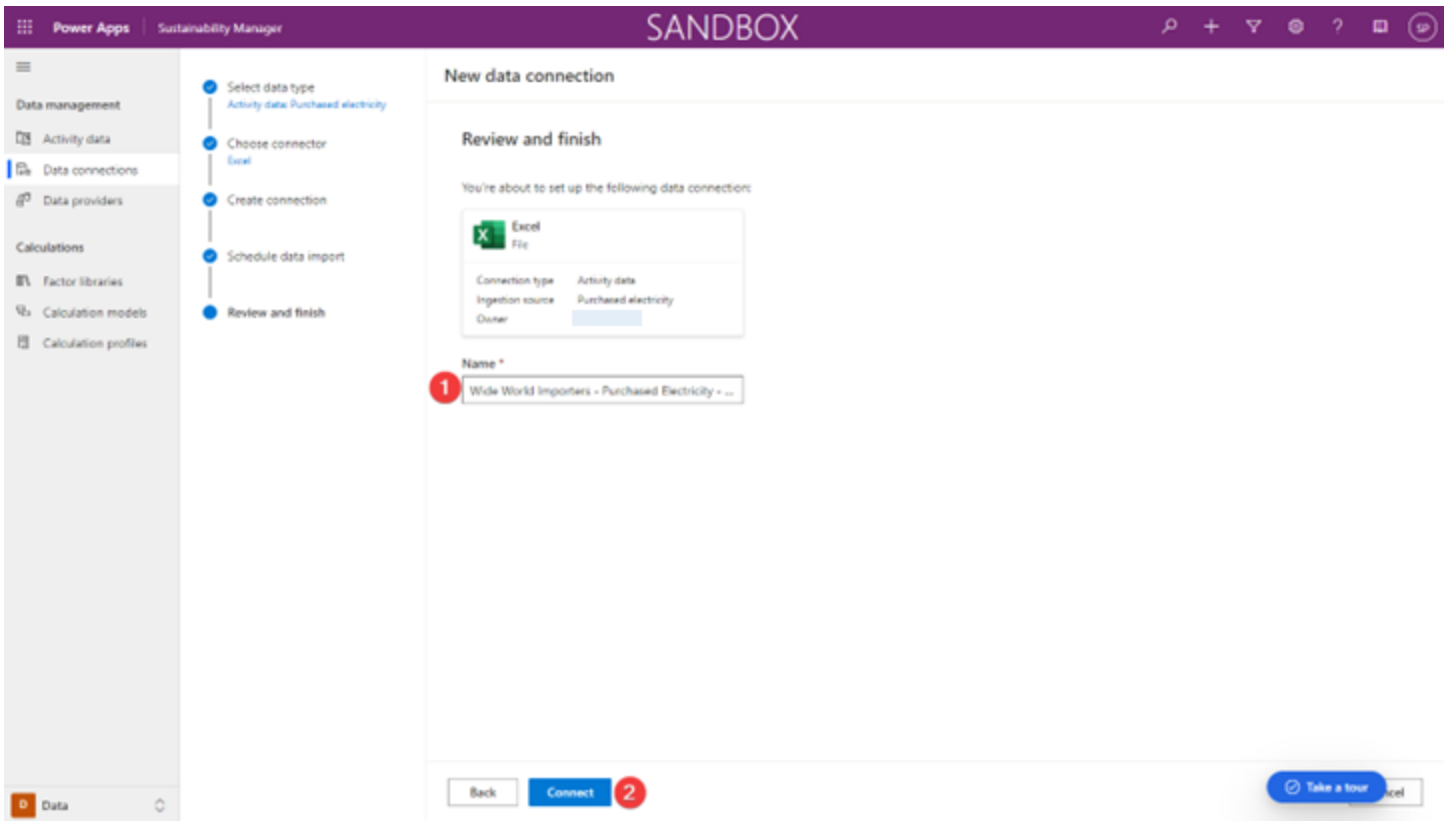
Turning on “Replace previously imported data” will remove all previously imported data and bring in the full data set that was retrieved, this may be a good option if the data source is not only providing data from the last import or always includes a full set of data. For this scenario of importing historical data, leave both options turned off.

Click “**Next**” when finished



20. On the “Review and finish” page:

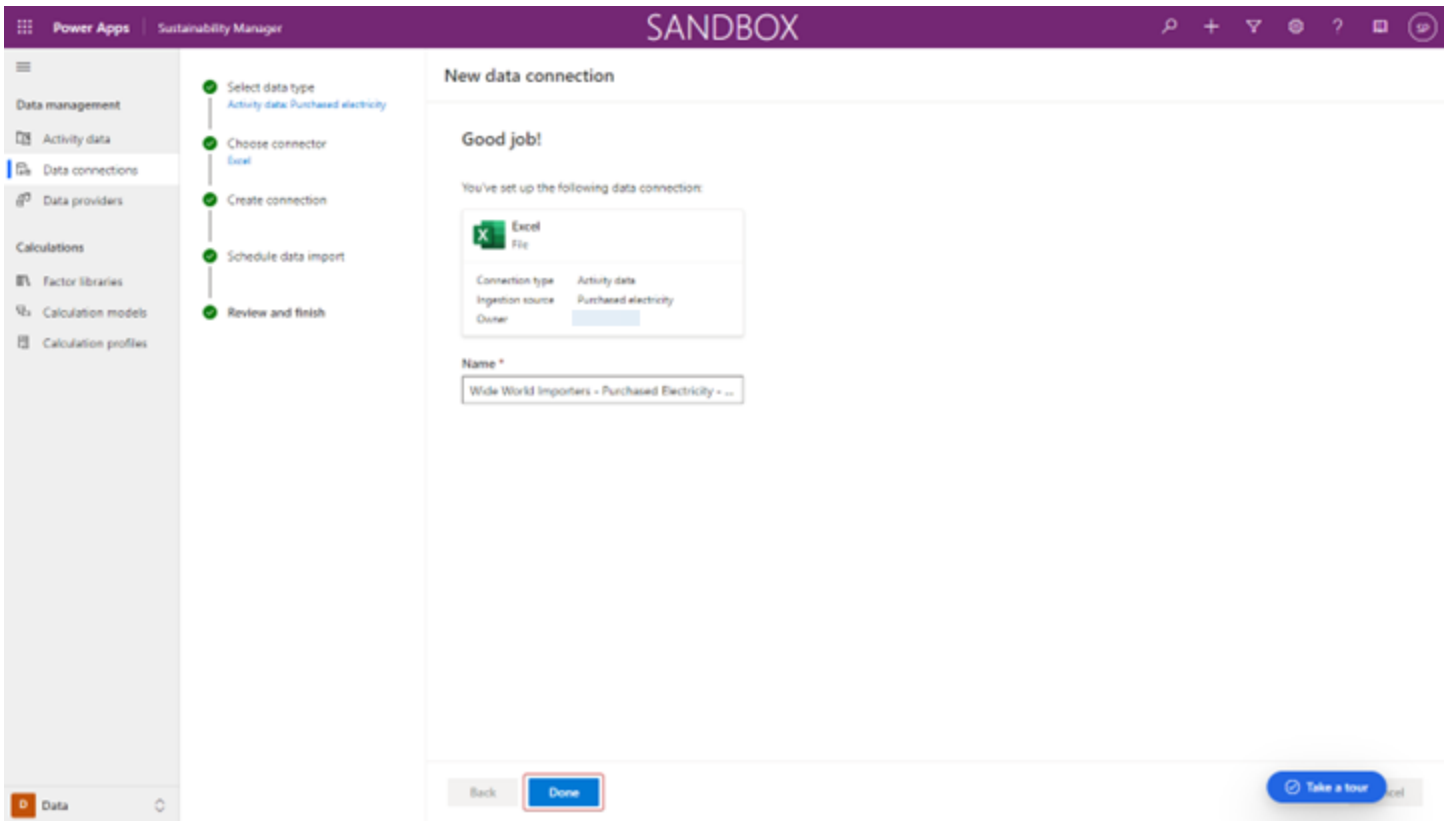
- 1) Enter a name for the new connection, such as “**Wide World Importers - Purchased Electricity - 2021**”
- 2) Click “**Connect**”



21. At the bottom of the window, there will be a message, "Creating connection..."



22. Once the connection is created, click "**Done**"



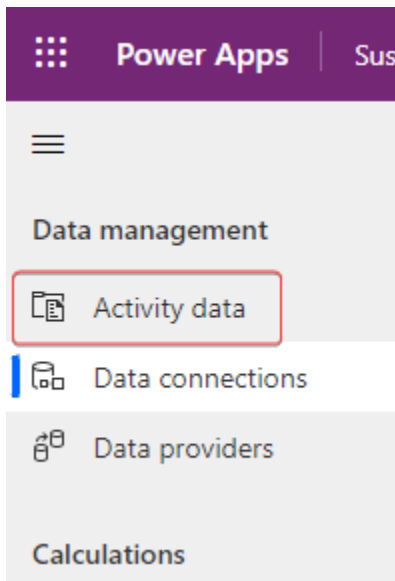
23. The “**Connections**” view will now be visible, along with the status of the recently created connection. It should say “**Processing**”

Connections Clear all filters Filters <input type="text" value="Search"/> List							
Get a holistic, reliable look at your organization's emissions by using data connections to import activity and reference data. Learn more about data connections							
Name	Connection type	Ingestion source	Owner	Last refresh	Next refresh	Inserted records	Status
Wide World Importers - Purc...	Activity data	Purchased electricity	[redacted]	8/11/2022 1:43 PM	—	24	Processing

24. After a minute or two click the “**Refresh**” button above the list to see the updated status, which should be “**Completed**”

+ New Refresh							
Connections Clear all filters Filters <input type="text" value="Search"/> List							
Get a holistic, reliable look at your organization's emissions by using data connections to import activity and reference data. Learn more about data connections							
Name	Connection type	Ingestion source	Owner	Last refresh	Next refresh	Inserted records	Status
Wide World Importers - Purc...	Activity data	Purchased electricity	[redacted]	8/11/2022 1:43 PM	—	24	Complete

25. Navigate to “**Activity data**” on the left side of the page.



26. Find Purchased electricity in the Scope 2: Indirect emissions section, and click **View**

Scope 2: Indirect emissions				
Source	Data	Connections	Number of connections	
Purchased cooling	View	Manage	0	
Purchased electricity	View	Manage	2	
Purchased heat	View	Manage	0	
Purchased steam	View	Manage	0	

Scope 3: Value chain upstream				
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27. The Purchased electricity view shows all purchased electricity activity data that has been imported

Power Apps | Sustainability Manager | **SANDBOX**

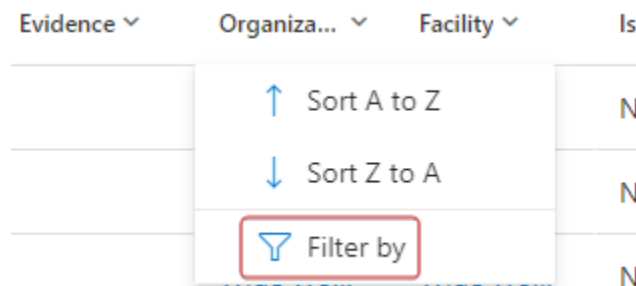
← Show Chart + New Refresh Email a Link Flow Run Report Excel Templates Export to Excel Import from Excel

Purchased electricity* Edit columns Edit filters Search this view

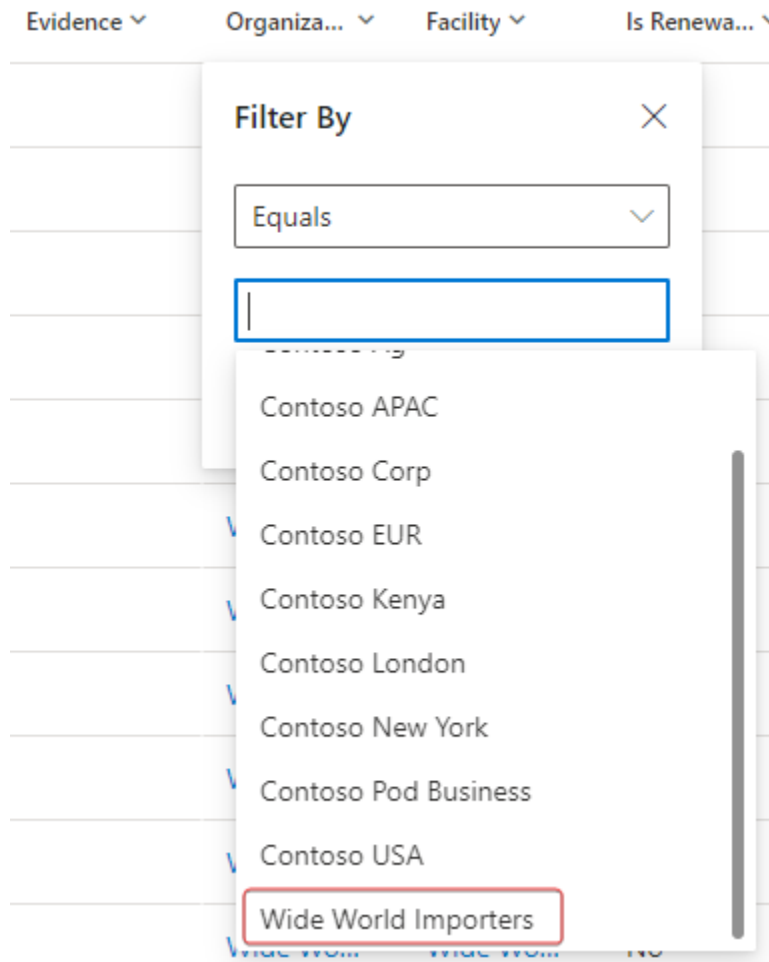
Name	Contra...	Connection	Description	Energy Pr...	Evidence	Organizat...	Facility	Is Renewa...	Consump...	Consump...	Quantity	Quantity ...	Da
PurchasedElectric...	VanArsde...	Wide Wo...	January a...	Electric C...		Wide Wo...	Wide Wo...	No	1/31/2021	1/1/2021	4,022.151...	kWh	
PurchasedElectric...	VanArsde...	Wide Wo...	July activi...	Electric C...		Wide Wo...	Wide Wo...	No	7/31/2021	7/1/2021	3,858.722...	kWh	
PurchasedElectric...	VanArsde...	Wide Wo...	October ...	Electric C...		Wide Wo...	Wide Wo...	No	10/31/20...	10/1/2021	2,428.723...	kWh	
PurchasedElectric...	VanArsde...	Wide Wo...	Decembe...	Electric C...		Wide Wo...	Wide Wo...	No	12/31/20...	12/1/2021	4,006.636...	kWh	
PurchasedElectric...	Adatum ...	Wide Wo...	January a...	Electric C...		Wide Wo...	Wide Wo...	No	1/31/2021	1/1/2021	3,519.037...	kWh	
PurchasedElectric...	Adatum ...	Wide Wo...	April acti...	Electric C...		Wide Wo...	Wide Wo...	No	4/30/2021	4/1/2021	2,831.273...	kWh	
PurchasedElectric...	Adatum ...	Wide Wo...	June activ...	Electric C...		Wide Wo...	Wide Wo...	No	6/30/2021	6/1/2021	3,387.645...	kWh	
PurchasedElectric...	Adatum ...	Wide Wo...	August a...	Electric C...		Wide Wo...	Wide Wo...	No	8/31/2021	8/1/2021	1,504.602...	kWh	
PurchasedElectric...	Adatum ...	Wide Wo...	Septemb...	Electric C...		Wide Wo...	Wide Wo...	No	9/30/2021	9/1/2021	2,494.647...	kWh	
PurchasedElectric...	Adatum ...	Wide Wo...	October ...	Electric C...		Wide Wo...	Wide Wo...	No	10/31/20...	10/1/2021	1,689.632...	kWh	
PurchasedElectric...	Adatum ...	Wide Wo...	Novembe...	Electric C...		Wide Wo...	Wide Wo...	No	11/30/20...	11/1/2021	3,882.752...	kWh	
PurchasedElectric...	Adatum ...	Wide Wo...	Decembe...	Electric C...		Wide Wo...	Wide Wo...	No	12/31/20...	12/1/2021	3,002.299...	kWh	
PurchasedElectric...	VanArsde...	Wide Wo...	February	Electric C...		Wide Wo...	Wide Wo...	No	2/28/2021	2/1/2021	1,567.615...	kWh	

1 - 24 of 24 Page 1

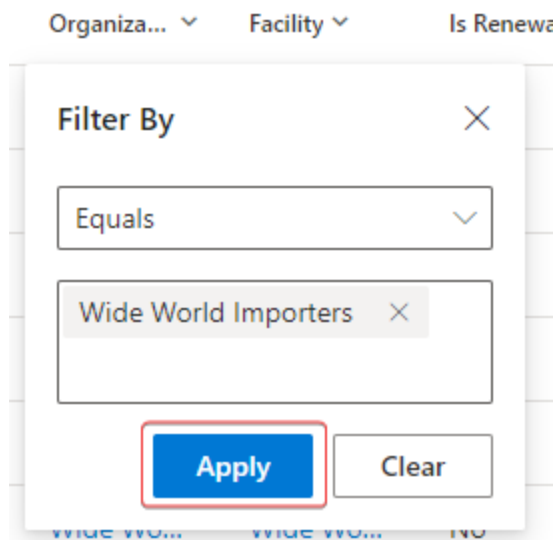
28. Filter the view by clicking the down arrow next to the **Organizational Unit** column, and selecting **Filter by**



29. Select **"Wide World Importers"** from the Filter By dialog



30. Click **Apply** to apply the filter to the column



31. After a few moments, the view will refresh, and the activity data records that were imported during this lab will be displayed.

Power Apps | Sustainability Manager | **SANDBOX**

Show Chart | New | Refresh | Email a Link | Flow | Run Report | Excel Templates | Export to Excel | Import from Excel | **Table view**

Purchased electricity* | Edit columns | Edit filters | Search this view

Name	Contractu...	Connection	Description	Energy Pr...	Evidence	Organiz...	Facility	Is Renewa...	Consump...	Consump...	Quantity	Quantity
PurchasedElectric...	Adatum ...	Wide Wo...	January a...	Electric C...		Wide Wo...	Wide Wo...	No	1/31/2021	1/1/2021	3,519.037...	kWh
PurchasedElectric...	VanArsde...	Wide Wo...	April acti...	Electric C...		Wide Wo...	Wide Wo...	No	4/30/2021	4/1/2021	2,492.166...	kWh
PurchasedElectric...	VanArsde...	Wide Wo...	June activ...	Electric C...		Wide Wo...	Wide Wo...	No	6/30/2021	6/1/2021	1,695.275...	kWh
PurchasedElectric...	VanArsde...	Wide Wo...	January a...	Electric C...		Wide Wo...	Wide Wo...	No	1/31/2021	1/1/2021	4,022.151...	kWh
PurchasedElectric...	Adatum ...	Wide Wo...	July activ...	Electric C...		Wide Wo...	Wide Wo...	No	7/31/2021	7/1/2021	2,894.133...	kWh
PurchasedElectric...	Adatum ...	Wide Wo...	Decembe...	Electric C...		Wide Wo...	Wide Wo...	No	12/31/20...	12/1/2021	3,002.299...	kWh
PurchasedElectric...	VanArsde...	Wide Wo...	August a...	Electric C...		Wide Wo...	Wide Wo...	No	8/31/2021	8/1/2021	1,503.367...	kWh
PurchasedElectric...	Adatum ...	Wide Wo...	Septemb...	Electric C...		Wide Wo...	Wide Wo...	No	9/30/2021	9/1/2021	2,494.647...	kWh
PurchasedElectric...	Adatum ...	Wide Wo...	Novembe...	Electric C...		Wide Wo...	Wide Wo...	No	11/30/20...	11/1/2021	3,882.752...	kWh
PurchasedElectric...	Adatum ...	Wide Wo...	February ...	Electric C...		Wide Wo...	Wide Wo...	No	2/28/2021	2/1/2021	2,134.421...	kWh
PurchasedElectric...	Adatum ...	Wide Wo...	April acti...	Electric C...		Wide Wo...	Wide Wo...	No	4/30/2021	4/1/2021	2,831.273...	kWh
PurchasedElectric...	VanArsde...	Wide Wo...	July activ...	Electric C...		Wide Wo...	Wide Wo...	No	7/31/2021	7/1/2021	3,858.722...	kWh
PurchasedElectric...	Adatum ...	Wide Wo...	August a...	Electric C...		Wide Wo...	Wide Wo...	No	8/31/2021	8/1/2021	1,504.602...	kWh
PurchasedElectric...	VanArsde...	Wide Wo...	February ...	Electric C...		Wide Wo...	Wide Wo...	No	2/28/2021	2/1/2021	1,567.615...	kWh
PurchasedElectric...	VanArsde...	Wide Wo...	October ...	Electric C...		Wide Wo...	Wide Wo...	No	10/31/20...	10/1/2021	2,428.723...	kWh
PurchasedElectric...	VanArsde...	Wide Wo...	Septemb...	Electric C...		Wide Wo...	Wide Wo...	No	9/30/2021	9/1/2021	3,325.488...	kWh

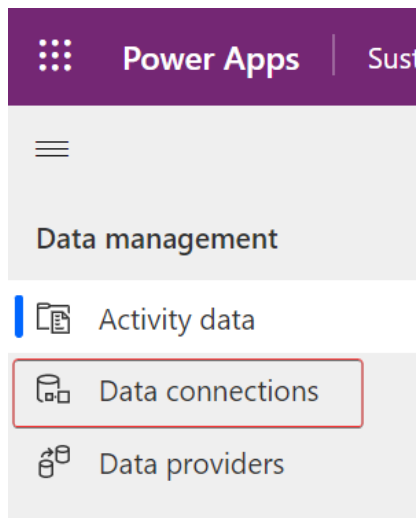
1 - 24 of 24 | Page 1

Great job, you have just completed the data import of 2021 Purchased Electricity for Wide World Importers. This is an important step to realizing the goal of recording, reporting, and reducing carbon emissions. Next, we will import the 2021 Miles Driven for Wide World Importers fleet of electric vehicles. **Please continue to the next task.**

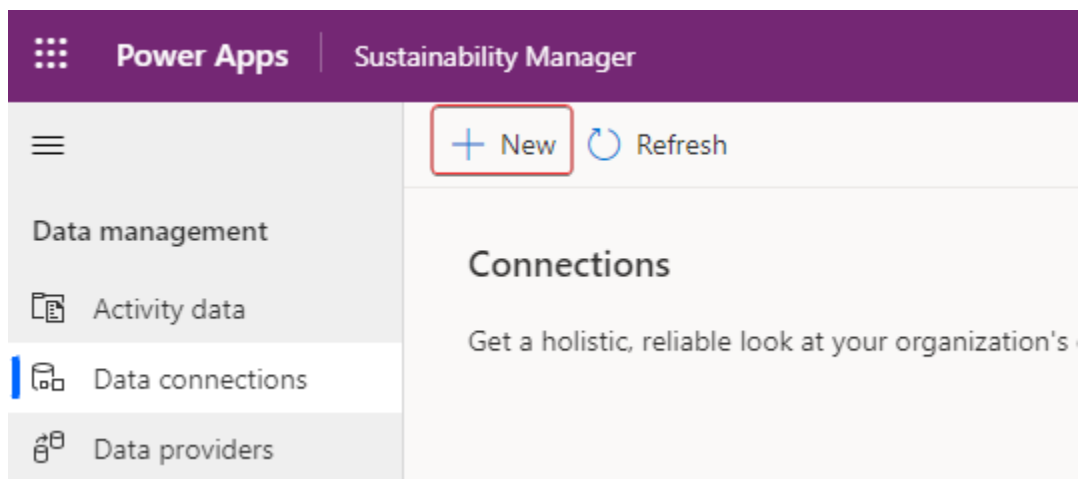
Task 2: Import 2021 data “Miles Driven” for Electric Trucks

In this task, Reed imports the second excel spreadsheet provided by Alex - “Fleet Vehicles Miles Driven Wide World Importers - 2021.xlsx”. While electric vehicles do not produce direct tailpipe emissions, they do produce “Scope 2: Purchased electricity from charging”. This brings in the Miles driven by Wide World Importers fleet of electric truck for the year 2021 into the Purchased electricity activity data.

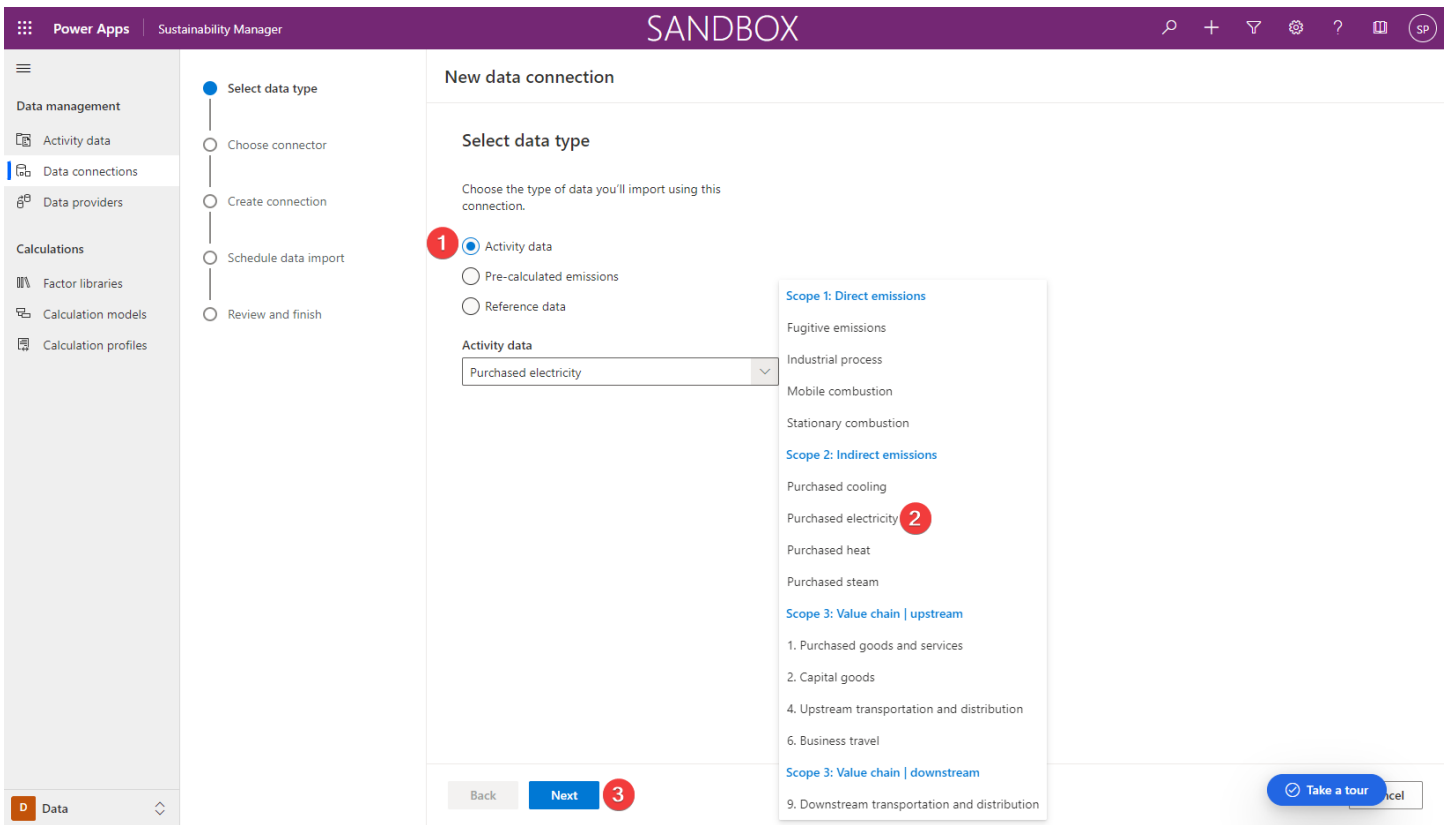
1. Navigate to **“Data connections”** on the left side of the page.



2. On the "Connections" view, click **+New**

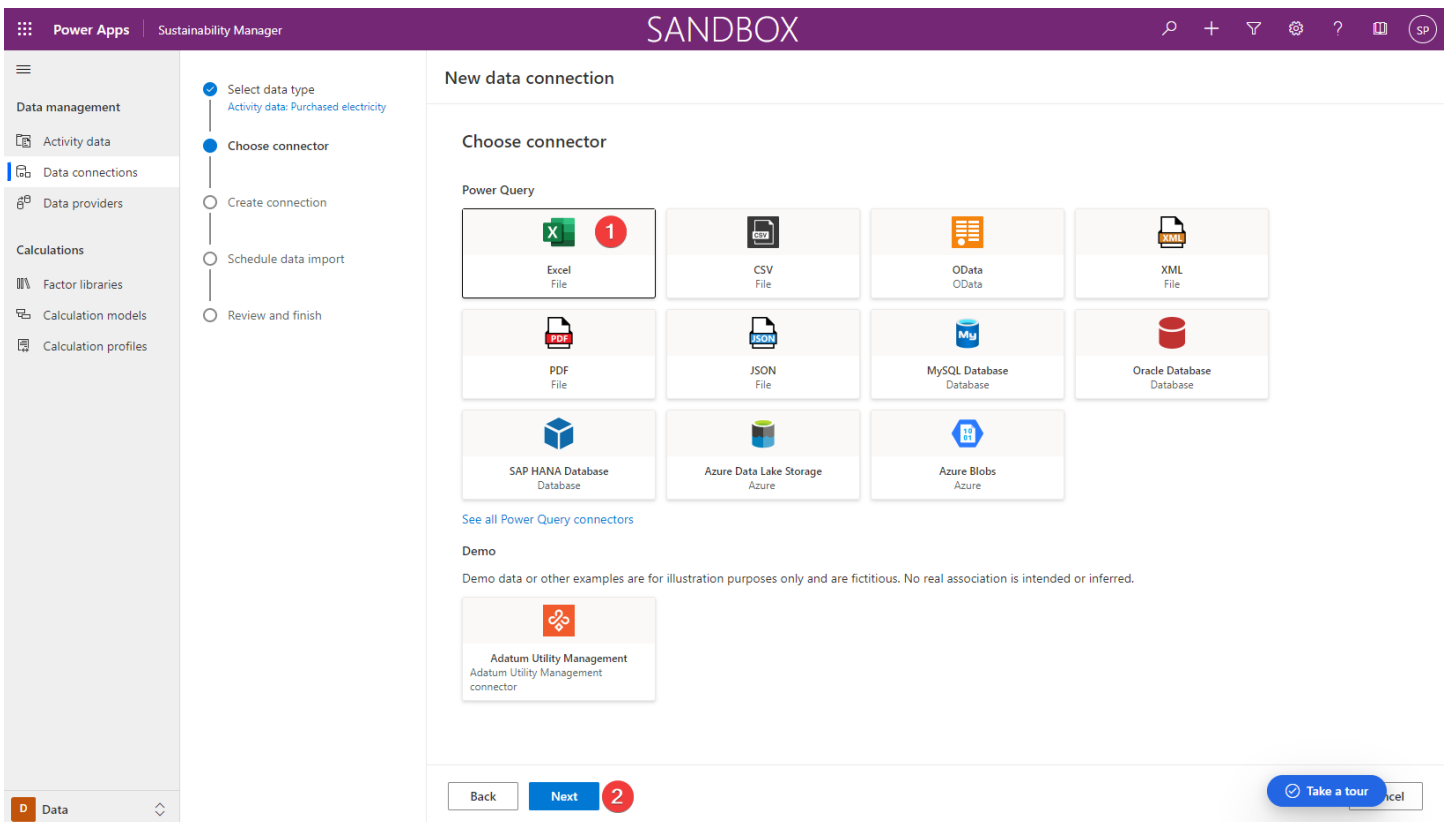


3. On the "New data connection" wizard:
 - 1) Select **Activity data** from data type screen
 - 2) Choose **Purchased electricity** from the Activity data drop down list
 - 3) Click **Next** when finished



4. On the "Choose connector" page:

- 1) Select "**Excel**"
- 2) Click "**Next**" when finished



5. A new dialog will open for Power Query. On the Power Query dialog:
 - 1) Click "**Upload file**"
 - 2) Click "**Browse**"

Power Query

Connect to data source

Excel workbook
File
[Learn more](#)

Connection settings

☐ Link to file ☒ Upload file (Preview) 1

Drag a file here to upload
or
Browse... 2

Connection credentials

Connection
Create new connection

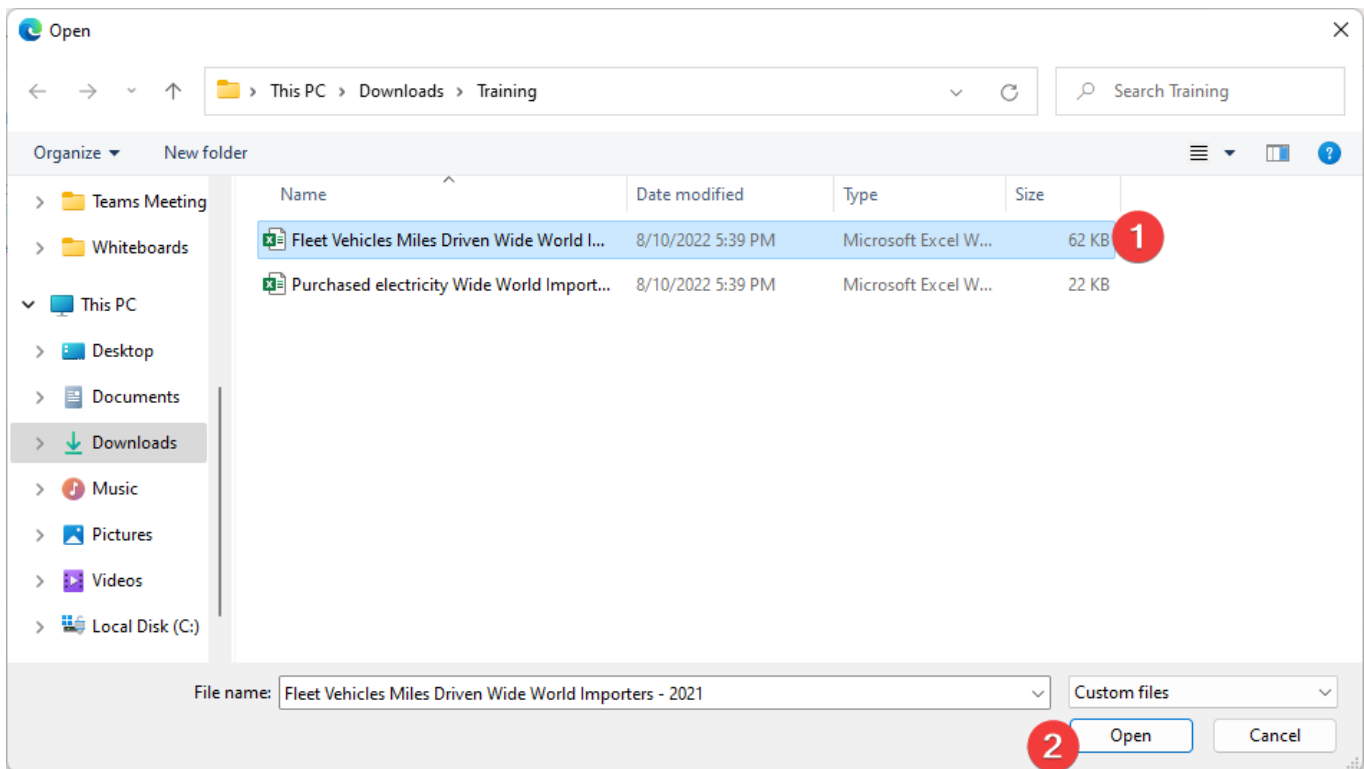
Connection name
Connection

Data gateway
(none)

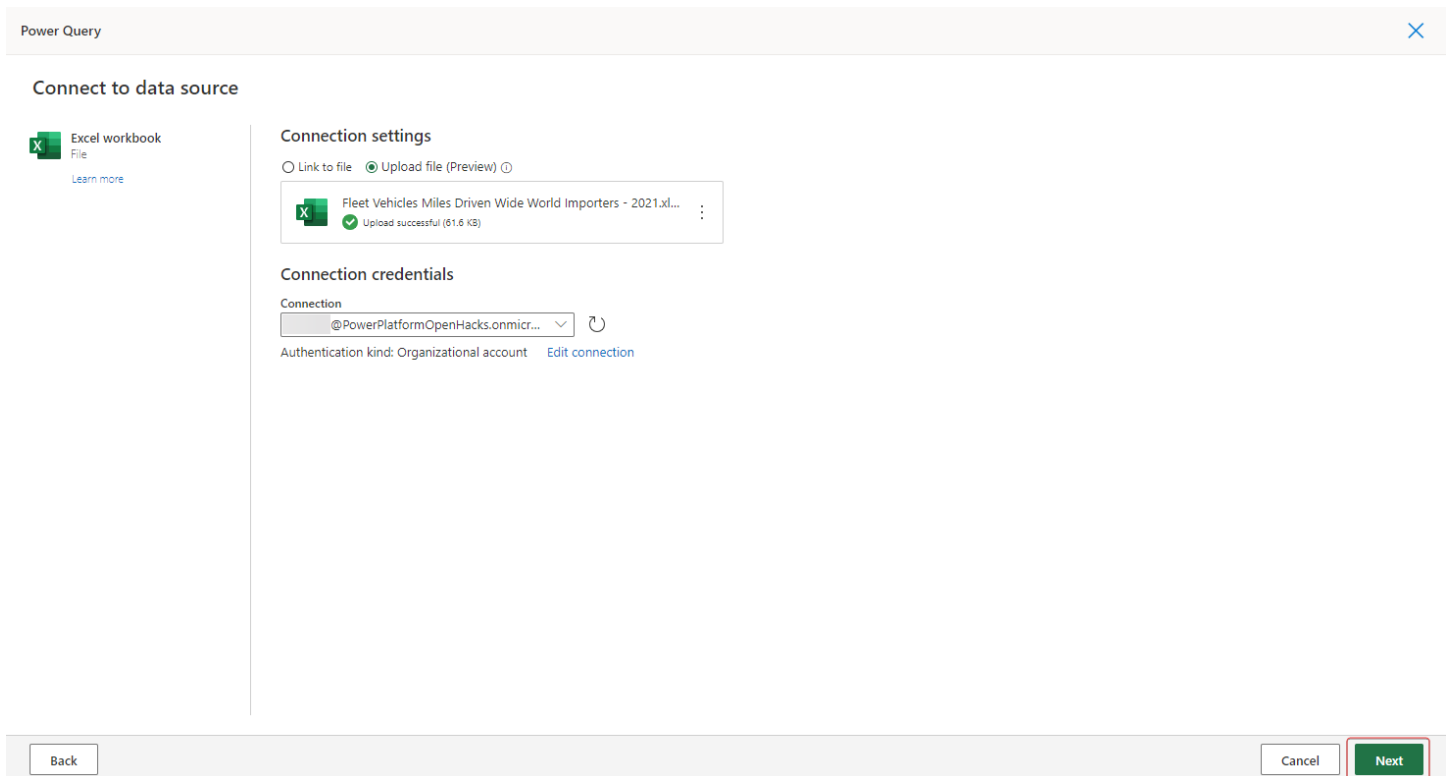
Authentication kind
Anonymous

Back Cancel Next

6. On the file selection window, browse to the location of the excel files the downloaded.
 - 1) Select the "**Fleet Vehicles Miles Driven Wide World Importers - 2021.xlsx**" file
 - 2) Click "**Open**"



7. Once the file is uploaded, the Connection credentials automatically selects the previous connection for authentication. Click **"Next"**



8. On "Choose data" page of the Power Query wizard:
 - 1) Select the **"Miles Driven"** sheet
 - 2) Click **"Transform data"**

Power Query

Choose data

Search

Display options

Excel workbook

Table1

Miles Driven

Miles Driven

Name	Contracted firm	Connection	Description	Provider	Evidence	Organizational Unit	Facility	Is Renewable
Fleet Vehicle 1			January activity data from Fleet Vehicle 1	Fabrikam Electric Truck 1		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 2			January activity data from Fleet Vehicle 2	Fabrikam Electric Truck 2		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 3			January activity data from Fleet Vehicle 3	Fabrikam Electric Truck 3		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 4			January activity data from Fleet Vehicle 4	Fabrikam Electric Truck 4		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 5			January activity data from Fleet Vehicle 5	Fabrikam Electric Truck 5		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 6			January activity data from Fleet Vehicle 6	Fabrikam Electric Truck 6		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 7			January activity data from Fleet Vehicle 7	Fabrikam Electric Truck 7		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 8			January activity data from Fleet Vehicle 8	Fabrikam Electric Truck 8		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 9			January activity data from Fleet Vehicle 9	Fabrikam Electric Truck 9		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 10			January activity data from Fleet Vehicle 10	Fabrikam Electric Truck 10		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 11			January activity data from Fleet Vehicle 11	Fabrikam Electric Truck 11		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 12			January activity data from Fleet Vehicle 12	Fabrikam Electric Truck 12		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 13			January activity data from Fleet Vehicle 13	Fabrikam Electric Truck 13		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 14			January activity data from Fleet Vehicle 14	Fabrikam Electric Truck 14		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 15			January activity data from Fleet Vehicle 15	Fabrikam Electric Truck 15		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 16			January activity data from Fleet Vehicle 16	Fabrikam Electric Truck 16		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 17			January activity data from Fleet Vehicle 17	Fabrikam Electric Truck 17		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 18			January activity data from Fleet Vehicle 18	Fabrikam Electric Truck 18		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 19			January activity data from Fleet Vehicle 19	Fabrikam Electric Truck 19		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 20			January activity data from Fleet Vehicle 20	Fabrikam Electric Truck 20		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 21			January activity data from Fleet Vehicle 21	Fabrikam Electric Truck 21		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 22			January activity data from Fleet Vehicle 22	Fabrikam Electric Truck 22		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 23			January activity data from Fleet Vehicle 23	Fabrikam Electric Truck 23		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 24			January activity data from Fleet Vehicle 24	Fabrikam Electric Truck 24		Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 25			January activity data from Fleet Vehicle 25	Fabrikam Electric Truck 25		Wide World Importers	Wide World Importers - Tampa Office	No
Fleet Vehicle 26			January activity data from Fleet Vehicle 26	Fabrikam Electric Truck 26		Wide World Importers	Wide World Importers - Tampa Office	No

Back

Cancel

Transform data

On the "Transform data" page of the Power Query wizard, various data and column transformations can be performed. This will allow the adjusting of data types, column mappings updates, and even perform advanced transformations familiar with in Power Platform Dataflows or Power BI Datasets.

- In this scenario, Reed will need to map the columns from the spreadsheet to the columns in Microsoft Sustainability Manager. To do this click on Map to entity in the upper right corner of the dialog window.

Split column by

Group by

Replace values

Data type: Text

Use first row as headers

Merge queries

Append queries

Combine files

Map to entity

Transform

Combine

CDM

t}, {"Contracted firm", type text}, {"Connection", type any},

Provider

Evidence

Organizational Unit

Facility

ied electricity

Electric Company

null

Wide World Importers

Wide World Im

- On the "Map to CDM entity" dialog window we need to:
 - Select the table name, "**Purchased energy**"
 - Select "**Auto map**" to allow any automatic mappings to occur
 - Contractual Instrument Type was "Not mapped", hence Reed selects "**Contracted firm**" from the list of options in the "Query output column"

- 4) Energy Provider name was "Not mapped", select "**Provider**" from the list of options in the "Query output column"
- 5) When finished, click "**OK**"

Map to CDM entity

Map the columns from your query output to attributes of a standard Common Data Model (CDM) entity.

[Learn more](#)

Purchased energy 1

2

⋮
Auto map

🗑️
Clear all mappings

Query output column	Entity attribute ↑	Mapping type
<div style="border: 1px solid #ccc; padding: 2px;">Consumption End Date ▾</div>	Consumption End Date	Auto mapped
<div style="border: 1px solid #ccc; padding: 2px;">Consumption Start Date ▾</div>	Consumption Start Date	Auto mapped
<div style="border: 1px solid #ccc; padding: 2px;">Contracted firm 3 ▾</div>	Contractual Instrument Type	Mapped
<div style="border: 1px solid #ccc; padding: 2px;">Cost ▾</div>	Cost	Auto mapped
<div style="border: 1px solid #ccc; padding: 2px;">Cost unit ▾</div>	Cost unit	Auto mapped
<div style="border: 1px solid #ccc; padding: 2px;">Data Quality Type ▾</div>	Data Quality Type	Auto mapped
<div style="border: 1px solid #ccc; padding: 2px;">Description ▾</div>	Description	Auto mapped
<div style="border: 1px solid #ccc; padding: 2px;">Provider 4 ▾</div>	Energy Provider Name	Mapped
<div style="border: 1px solid #ccc; padding: 2px;">Evidence ▾</div>	Evidence	Auto mapped
<div style="border: 1px solid #ccc; padding: 2px;">Facility ▾</div>	Facility	Auto mapped
<div style="border: 1px solid #ccc; padding: 2px;">Is Renewable ▾</div>	Is Renewable	Auto mapped
<div style="border: 1px solid #ccc; padding: 2px;">(none) ▾</div>	Meter number	Not mapped

5
OK

Cancel

Entity description

Electric energy, measured in MWh, delivered by the utility to a customer in accordance with the signed agreement.

11. The "Transform data" page should now look like this

Power Query

Home Transform Add column View Help

Get data Enter data Options Manage parameters Refresh Advanced editor Properties Choose columns Remove columns Keep rows Remove rows Sort Replace values Combine files entity CDM

Query

Queries [1]

Miles Driven

Cdm.MapToEntity(#"Changed column type", {"Name", "Name", type text}, {"Contractual Instrument Type", "Contracted firm", type text},

ABC 123 Connection

ABC 123	Name	Contractual Instrument Type	Description	Energy Provider Name	Evidence	Organizational Unit
1	Fleet Vehicle 1	null	January activity data from Fleet Vehicle 1	Fabrikam Electric Truck 1	null	Wide World Importers
2	Fleet Vehicle 2	null	January activity data from Fleet Vehicle 2	Fabrikam Electric Truck 2	null	Wide World Importers
3	Fleet Vehicle 3	null	January activity data from Fleet Vehicle 3	Fabrikam Electric Truck 3	null	Wide World Importers
4	Fleet Vehicle 4	null	January activity data from Fleet Vehicle 4	Fabrikam Electric Truck 4	null	Wide World Importers
5	Fleet Vehicle 5	null	January activity data from Fleet Vehicle 5	Fabrikam Electric Truck 5	null	Wide World Importers
6	Fleet Vehicle 6	null	January activity data from Fleet Vehicle 6	Fabrikam Electric Truck 6	null	Wide World Importers
7	Fleet Vehicle 7	null	January activity data from Fleet Vehicle 7	Fabrikam Electric Truck 7	null	Wide World Importers
8	Fleet Vehicle 8	null	January activity data from Fleet Vehicle 8	Fabrikam Electric Truck 8	null	Wide World Importers
9	Fleet Vehicle 9	null	January activity data from Fleet Vehicle 9	Fabrikam Electric Truck 9	null	Wide World Importers
10	Fleet Vehicle 10	null	January activity data from Fleet Vehicle 10	Fabrikam Electric Truck 10	null	Wide World Importers
11	Fleet Vehicle 11	null	January activity data from Fleet Vehicle 11	Fabrikam Electric Truck 11	null	Wide World Importers
12	Fleet Vehicle 12	null	January activity data from Fleet Vehicle 12	Fabrikam Electric Truck 12	null	Wide World Importers
13	Fleet Vehicle 13	null	January activity data from Fleet Vehicle 13	Fabrikam Electric Truck 13	null	Wide World Importers
14	Fleet Vehicle 14	null	January activity data from Fleet Vehicle 14	Fabrikam Electric Truck 14	null	Wide World Importers
15	Fleet Vehicle 15	null	January activity data from Fleet Vehicle 15	Fabrikam Electric Truck 15	null	Wide World Importers
16	Fleet Vehicle 16	null	January activity data from Fleet Vehicle 16	Fabrikam Electric Truck 16	null	Wide World Importers
17	Fleet Vehicle 17	null	January activity data from Fleet Vehicle 17	Fabrikam Electric Truck 17	null	Wide World Importers
18	Fleet Vehicle 18	null	January activity data from Fleet Vehicle 18	Fabrikam Electric Truck 18	null	Wide World Importers
19	Fleet Vehicle 19	null	January activity data from Fleet Vehicle 19	Fabrikam Electric Truck 19	null	Wide World Importers
20	Fleet Vehicle 20	null	January activity data from Fleet Vehicle 20	Fabrikam Electric Truck 20	null	Wide World Importers
21	Fleet Vehicle 21	null	January activity data from Fleet Vehicle 21	Fabrikam Electric Truck 21	null	Wide World Importers
22	Fleet Vehicle 22	null	January activity data from Fleet Vehicle 22	Fabrikam Electric Truck 22	null	Wide World Importers
23						

Completed (0.91 s) Columns: 19 Rows: 99+

Step

Create

Note: Observe that the column names have changed to Contractual Instrument Type and Energy Provider Name.

Query settings

Properties

Name

Miles Driven

Entity type

Purchased energy

Applied steps

Source

Navigation

Promoted h...

ABC 123 Changed co...

X Mapped to ...

12. Click **Create** to start the data import process:

Source

Navigation

Promoted h...

ABC 123 Changed co...

X Mapped to ...

Step

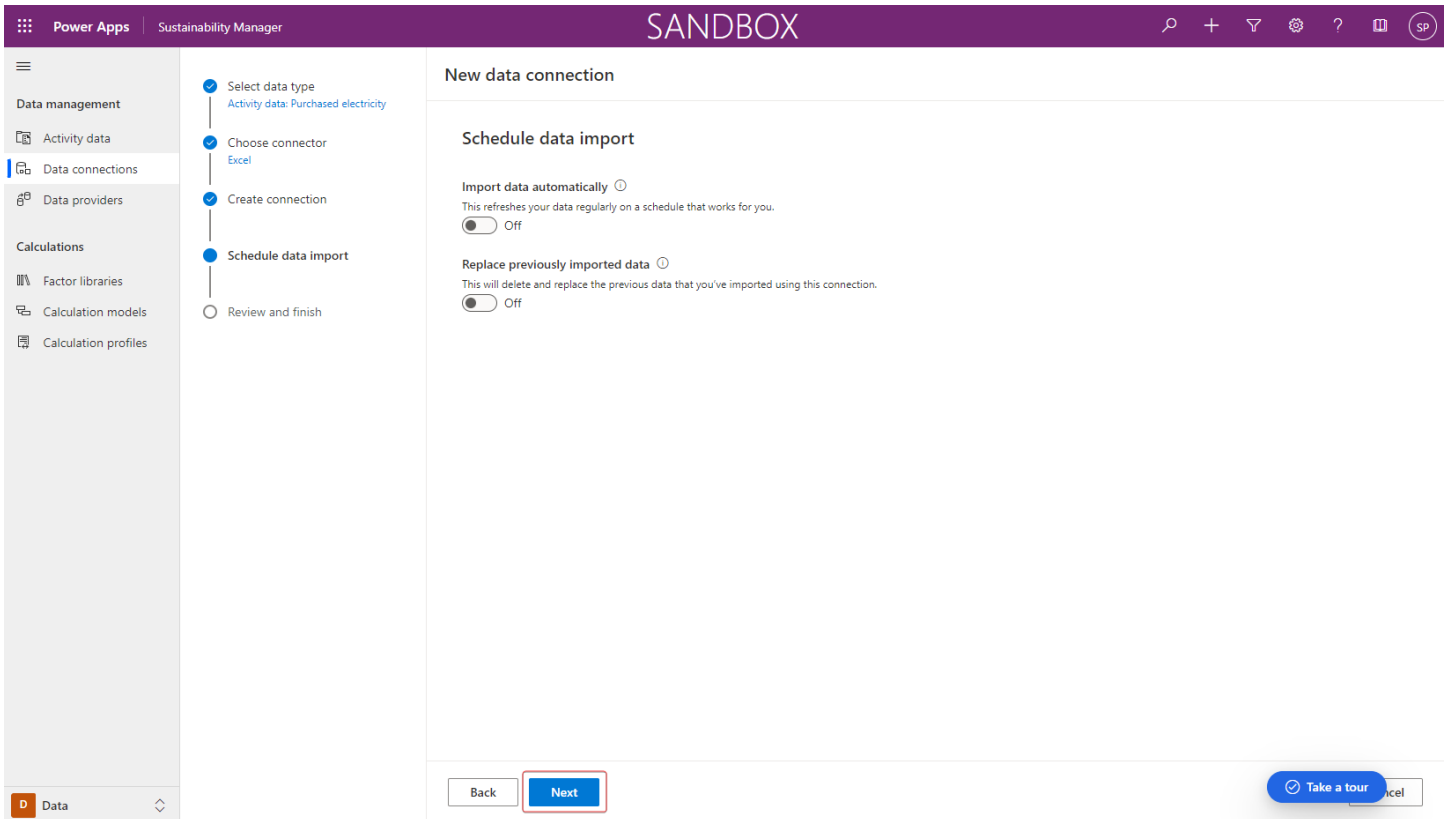
Create

13. The "New data connection" wizard will now be on the Schedule data import page.

Turning on “Import data automatically” will give the option to set a schedule to have the data imported automatically, this may be a good option if the connector will be used in a scenario where the data will change frequently such as a web API or FTP server.

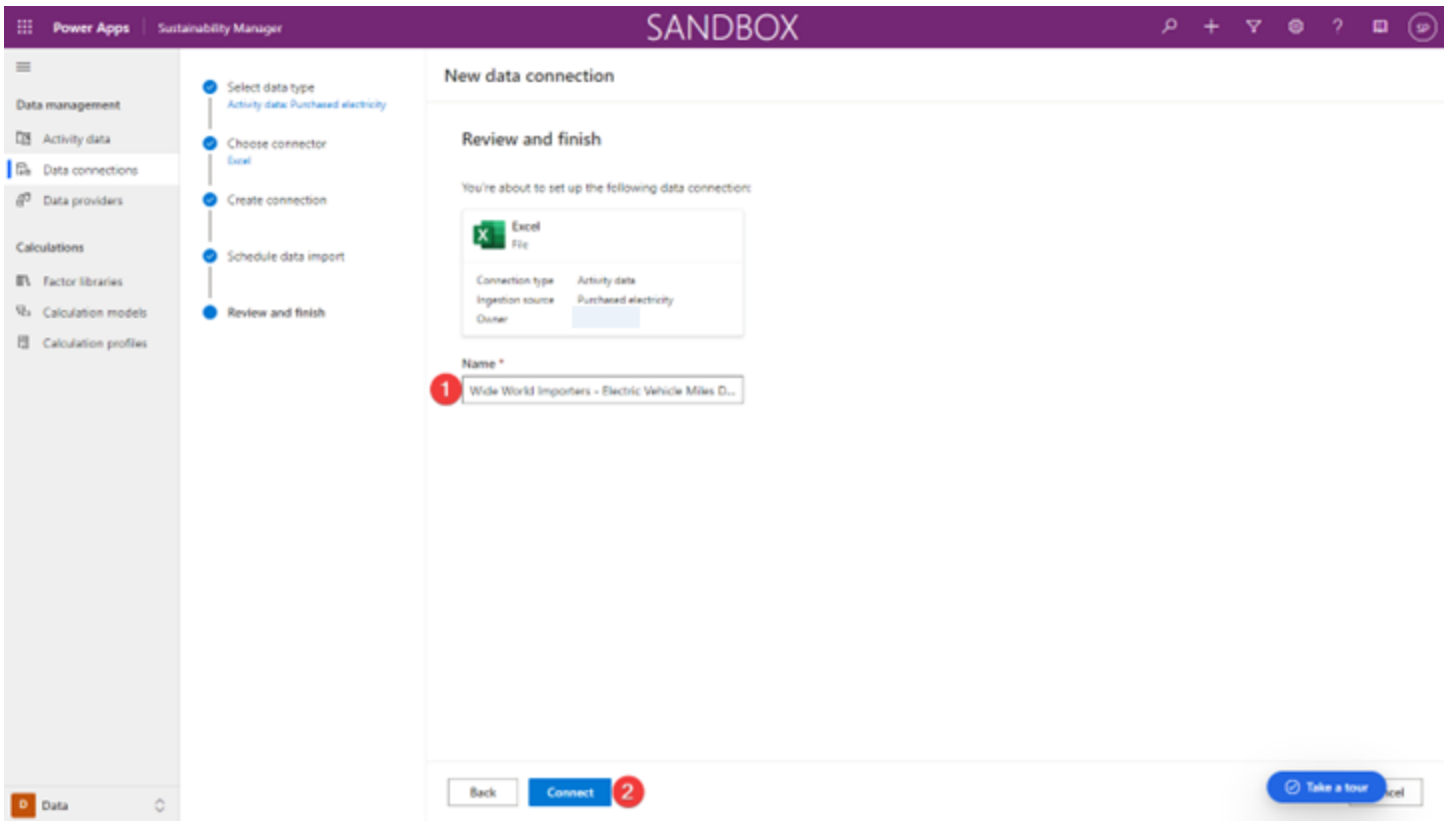
Turning on “Replace previously imported data” will remove all previously imported data and bring in the full data set that was retrieved, this may be a good option if the data source is not only providing data from the last import or always includes a full set of data. For this scenario of importing historical data, leave both options turned off.

Click “**Next**” when finished

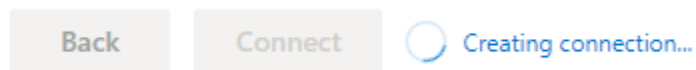


14. On the “Review and finish” page:

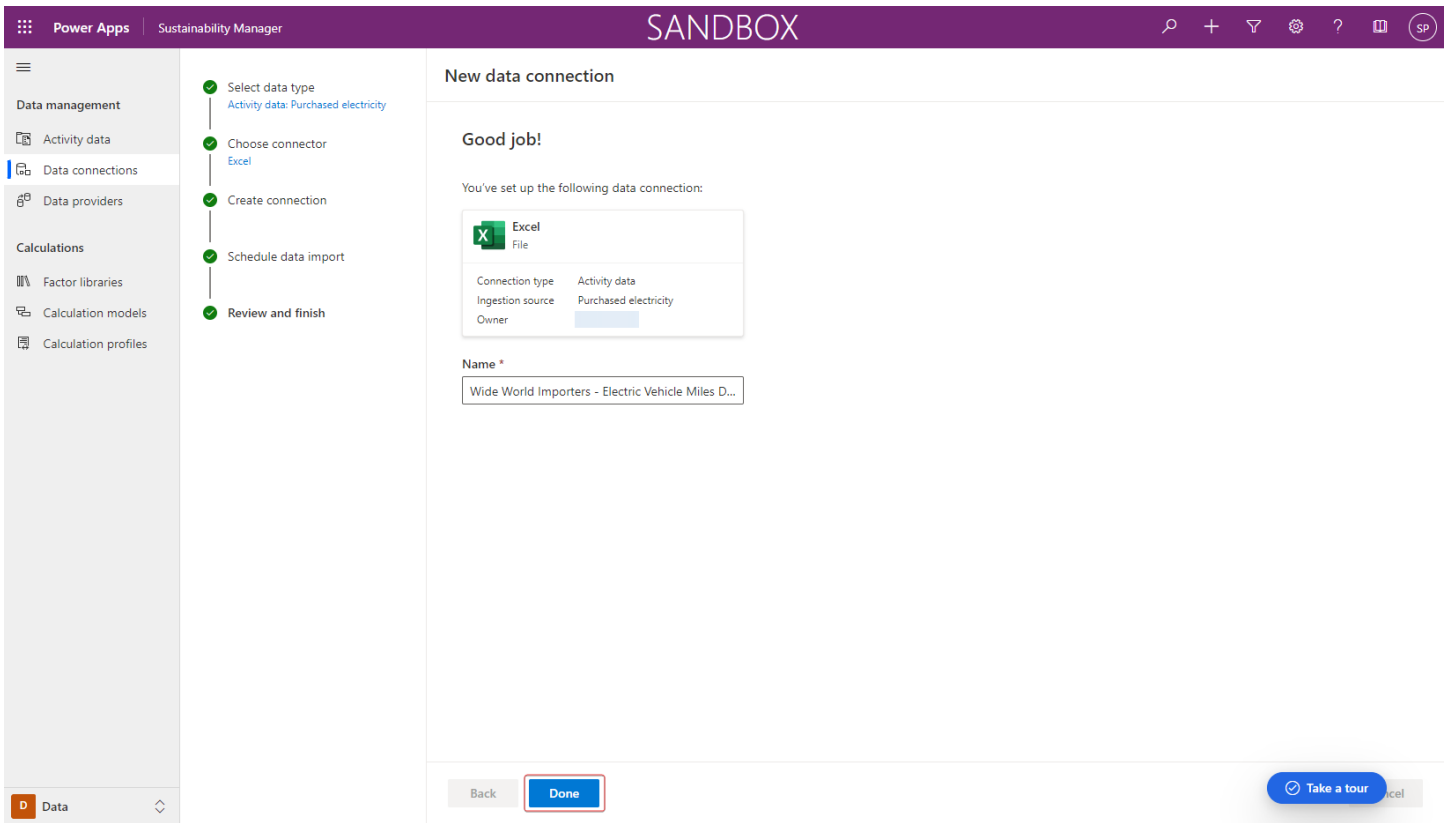
- 1) Enter a name for the new connection, such as “Wide World Importers - Electric Vehicle Miles Driven - 2021”
- 2) Click “**Connect**”



15. At the bottom of the window, there will be a message, "**Creating connection...**"



16. Once the connection is created, click "**Done**"



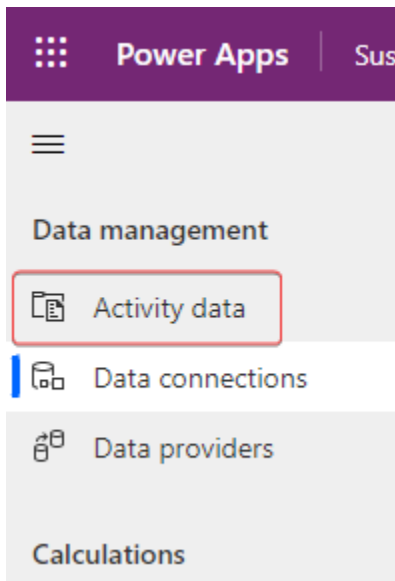
17. The “**Connections**” view will now be visible, along with the status of the recently created connection. It should say “**Processing**”

Connections							
Get a holistic, reliable look at your organization's emissions by using data connections to import activity and reference data. Learn more about data connections							
Name	Connection type	Ingestion source	Owner	Last refresh	Next refresh	Inserted records	Status
Wide World Importers - Elect...	Activity data	Purchased electricity	[redacted]		—	—	Processing
Wide World Importers - Purc...	Activity data	Purchased electricity	[redacted]	8/11/2022 9:43 AM	—	24	Complete

18. After a minute or two click the “**Refresh**” button above the list to see the updated status, which should be “**Completed**”

+ New Refresh							
Connections							
Get a holistic, reliable look at your organization's emissions by using data connections to import activity and reference data. Learn more about data connections							
Name	Connection type	Ingestion source	Owner	Last refresh	Next refresh	Inserted records	Status
Wide World Importers - Elect...	Activity data	Purchased electricity	[redacted]	9/7/2022 4:25 PM	—	480	Complete
Wide World Importers - Purc...	Activity data	Purchased electricity	[redacted]	8/11/2022 9:43 AM	—	24	Complete

19. Navigate to “**Activity data**” on the left side of the page.



20. Find Purchased electricity in the Scope 2: Indirect emissions section, and click **View**

Scope 2: Indirect emissions				
Source	Data	Connections	Number of connections	
Purchased cooling	View	Manage	0	
Purchased electricity	View	Manage	2	
Purchased heat	View	Manage	0	
Purchased steam	View	Manage	0	

Scope 3: Value chain upstream				
---------------------------------	--	--	--	--

21. The Purchased electricity view shows all purchased electricity activity data that has been imported

Power Apps | Sustainability Manager | **SANDBOX**

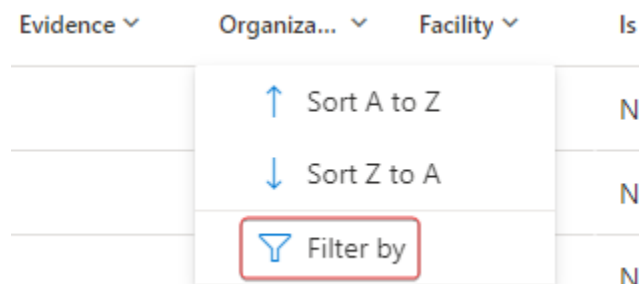
Show Chart | New | Refresh | Email a Link | Flow | Run Report | Excel Templates | Export to Excel | Import from Excel | Create view

Purchased electricity | Edit columns | Edit filters | Search this view

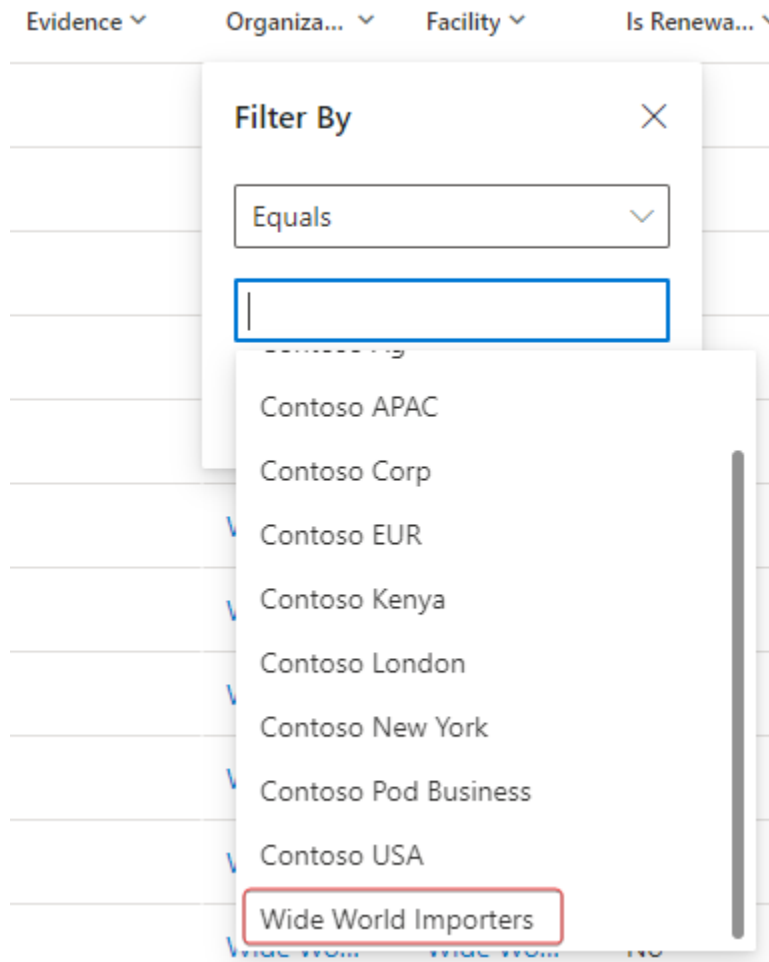
Name	Contractu...	Connection	Description	Energy Pr...	Evidence	Organizat...	Facility	Is Renewa...	Consump...	Consump...	Quantity	Quantity
PurchasedElectric...	Adatum ...	Wide Wo...	January a...	Electric C...		Wide Wo...	Wide Wo...	No	1/31/2021	1/1/2021	3,519.037...	kWh
Fleet Vehicle 45		Wide Wo...	February ...	Fabrikam ...		Wide Wo...	Wide Wo...	No	2/28/2021	2/1/2021	7,484.724...	mile
Fleet Vehicle 15		Wide Wo...	March ac...	Fabrikam ...		Wide Wo...	Wide Wo...	No	3/31/2021	3/1/2021	5,727.667...	mile
Fleet Vehicle 18		Wide Wo...	March ac...	Fabrikam ...		Wide Wo...	Wide Wo...	No	3/31/2021	3/1/2021	13,551.57...	mile
Fleet Vehicle 11		Wide Wo...	April acti...	Fabrikam ...		Wide Wo...	Wide Wo...	No	4/30/2021	4/1/2021	4,742.131...	mile
Fleet Vehicle 26		Wide Wo...	May activ...	Fabrikam ...		Wide Wo...	Wide Wo...	No	5/31/2021	5/1/2021	4,703.259...	mile
Fleet Vehicle 8		Wide Wo...	May activ...	Fabrikam ...		Wide Wo...	Wide Wo...	No	5/31/2021	5/1/2021	3,007.718...	mile
Fleet Vehicle 34		Wide Wo...	May activ...	Fabrikam ...		Wide Wo...	Wide Wo...	No	5/31/2021	5/1/2021	9,715.311...	mile
Fleet Vehicle 32		Wide Wo...	June activ...	Fabrikam ...		Wide Wo...	Wide Wo...	No	6/30/2021	6/1/2021	6,014.341...	mile
Fleet Vehicle 33		Wide Wo...	August a...	Fabrikam ...		Wide Wo...	Wide Wo...	No	8/31/2021	8/1/2021	9,976.985...	mile
Fleet Vehicle 35		Wide Wo...	August a...	Fabrikam ...		Wide Wo...	Wide Wo...	No	8/31/2021	8/1/2021	4,742.241...	mile
Fleet Vehicle 38		Wide Wo...	Septemb...	Fabrikam ...		Wide Wo...	Wide Wo...	No	9/30/2021	9/1/2021	6,403.905...	mile
Fleet Vehicle 41		Wide Wo...	Septemb...	Fabrikam ...		Wide Wo...	Wide Wo...	No	9/30/2021	9/1/2021	8,235.352...	mile
Fleet Vehicle 14		Wide Wo...	Decembe...	Fabrikam ...		Wide Wo...	Wide Wo...	No	12/31/20...	12/1/2021	6,403.973...	mile
Fleet Vehicle 24		Wide Wo...	Novembe...	Fabrikam ...		Wide Wo...	Wide Wo...	No	11/30/20...	11/1/2021	9,007.163...	mile
PurchasedRenew...	Green Re...		Demo da...	Electric C...		Contoso ...	Contoso ...	Yes	8/31/2019	8/1/2019	980.9146...	kWh

1 - 50 of 864 | Take a tour | Page 1

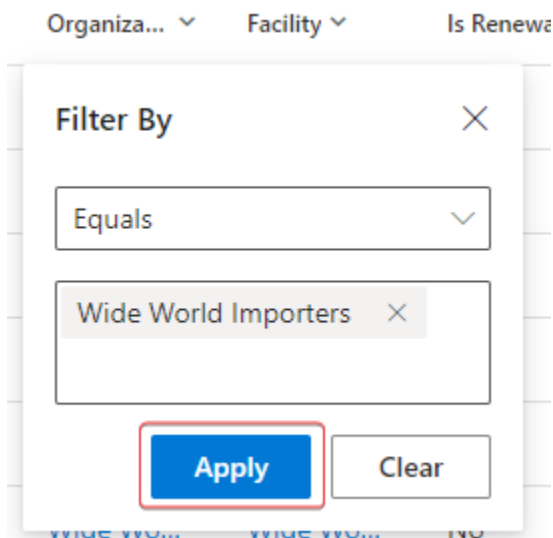
22. Filter the view by clicking the down arrow next to the **Organizational Unit** column, and selecting **Filter by**



23. Select **"Wide World Importers"** from the Filter By dialog



24. Click **Apply** to apply the filter to the column



25. After a few moments, the view will refresh, and the activity data records that were imported during this lab will be displayed.

Power Apps

Sustainability Manager

SANDBOX

Show Chart

New

Refresh

Email a Link

Flow

Run Report

Excel Templates

Export to Excel

Import from Excel

Create view

Data management

Activity data

Data connections

Data providers

Calculations

Factor libraries

Calculation models

Calculation profiles

Purchased electricity*

Edit columns

Edit filters

Search this view

Name	Contractu...	Connection	Description	Energy Pr...	Evidence	Organl...	Facility	Is Renewa...	Consump...	Consump...	Quantity	Quantity
PurchasedElectric...	Adatum ...	Wide Wo...	January a...	Electric C...		Wide Wo...	Wide Wo...	No	1/31/2021	1/1/2021	3,519.037...	kWh
Fleet Vehicle 45		Wide Wo...	February ...	Fabrikam ...		Wide Wo...	Wide Wo...	No	2/28/2021	2/1/2021	7,484.724...	mile
Fleet Vehicle 15		Wide Wo...	March ac...	Fabrikam ...		Wide Wo...	Wide Wo...	No	3/31/2021	3/1/2021	5,727.667...	mile
Fleet Vehicle 18		Wide Wo...	March ac...	Fabrikam ...		Wide Wo...	Wide Wo...	No	3/31/2021	3/1/2021	13,551.57...	mile
Fleet Vehicle 11		Wide Wo...	April acti...	Fabrikam ...		Wide Wo...	Wide Wo...	No	4/30/2021	4/1/2021	4,742.131...	mile
Fleet Vehicle 26		Wide Wo...	May activ...	Fabrikam ...		Wide Wo...	Wide Wo...	No	5/31/2021	5/1/2021	4,703.259...	mile
Fleet Vehicle 8		Wide Wo...	May activ...	Fabrikam ...		Wide Wo...	Wide Wo...	No	5/31/2021	5/1/2021	3,007.718...	mile
Fleet Vehicle 34		Wide Wo...	May activ...	Fabrikam ...		Wide Wo...	Wide Wo...	No	5/31/2021	5/1/2021	9,715.311...	mile
Fleet Vehicle 32		Wide Wo...	June activ...	Fabrikam ...		Wide Wo...	Wide Wo...	No	6/30/2021	6/1/2021	6,014.341...	mile
Fleet Vehicle 33		Wide Wo...	August a...	Fabrikam ...		Wide Wo...	Wide Wo...	No	8/31/2021	8/1/2021	9,976.985...	mile
Fleet Vehicle 35		Wide Wo...	August a...	Fabrikam ...		Wide Wo...	Wide Wo...	No	8/31/2021	8/1/2021	4,742.241...	mile
Fleet Vehicle 38		Wide Wo...	Septemb...	Fabrikam ...		Wide Wo...	Wide Wo...	No	9/30/2021	9/1/2021	6,403.905...	mile
Fleet Vehicle 41		Wide Wo...	Septemb...	Fabrikam ...		Wide Wo...	Wide Wo...	No	9/30/2021	9/1/2021	8,235.352...	mile
Fleet Vehicle 14		Wide Wo...	Decembe...	Fabrikam ...		Wide Wo...	Wide Wo...	No	12/31/20...	12/1/2021	6,403.973...	mile
Fleet Vehicle 24		Wide Wo...	Novembe...	Fabrikam ...		Wide Wo...	Wide Wo...	No	11/30/20...	11/1/2021	9,007.163...	mile
Fleet Vehicle 1		Wide Wo...	March ac...	Fabrikam ...		Wide Wo...	Wide Wo...	No	3/31/2021	3/1/2021	8,044.711...	mile

1 - 50 of 624

Take a tour

Congratulations! You have just completed the data import for 2021 Miles Driven for Wide World Importers. This is an important step to realizing the goal of recording, reporting, and reducing carbon emissions. In the following labs we will calculate emissions, review insights and reporting, and define our reduction scorecards and goals.