Microsoft Cloud for Sustainability in a Day

Lab 02: Data ingestion

Step-by-Step Lab

30 minutes

April 2023

Contents

Overview

Background

In the previous lab, Wide Word 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 Carbon Activity data import 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 power query connectors in the Microsoft Sustainability Manager will be used to import the Carbon Activity data into the application.

Learning Objectives

In this lab, you will do the following:

- Use Microsoft Sustainability Manager Power Query connectors to import data
- Map source fields to destination fields of the data before import
- Review the imported data in the "Purchase Electricity Carbon Activity Data" Dataverse Table
- The newly imported activity data during this lab exercise will be utilized in the remaining scenarios (calculations and reporting) in the upcoming lab exercises.

Prerequisites

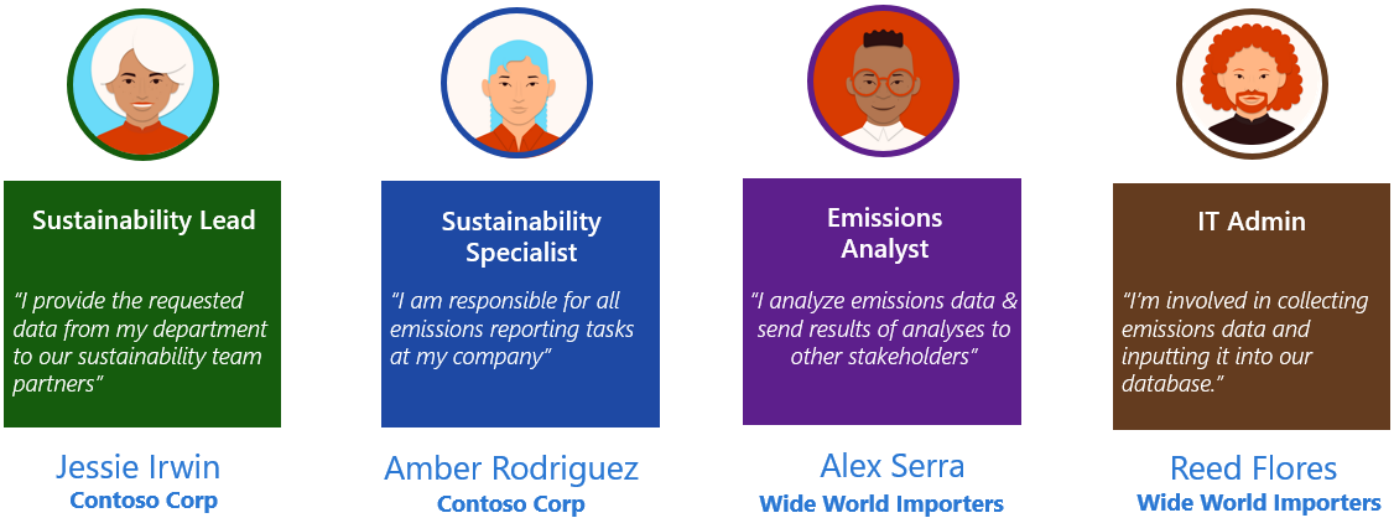
- Microsoft Sustainability manager environment is set up with sample data
- Lab 01 organization and reference data is entered.

Solution Focus Area

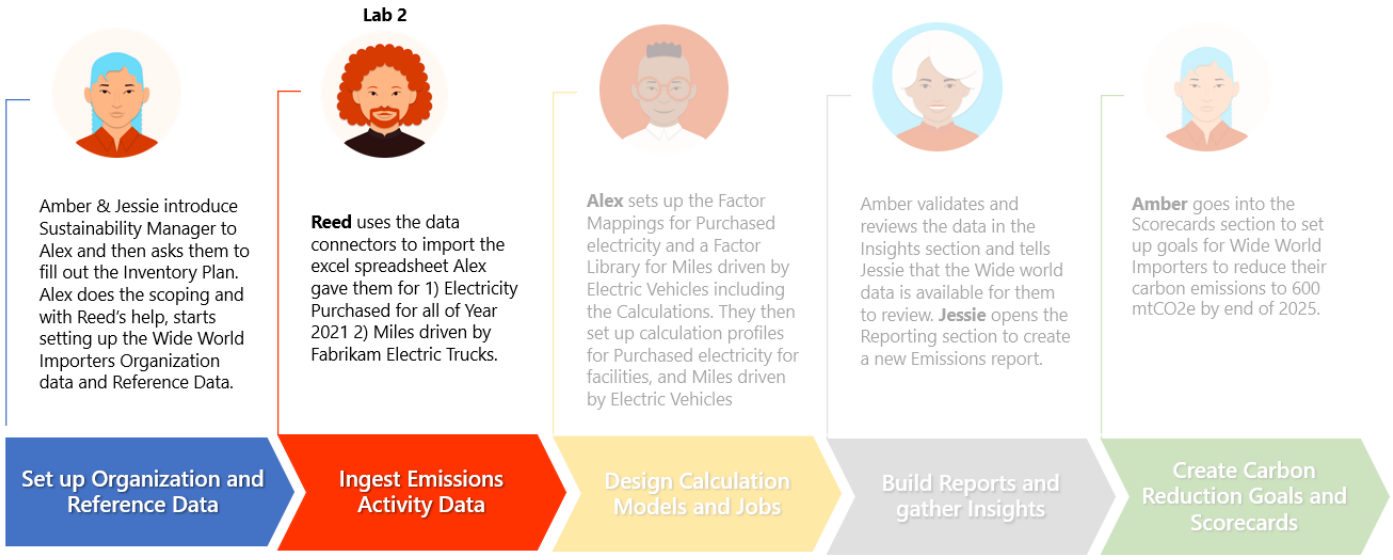
In this lab, the focus is on the "Data Ingestion" aspect of the Solution Focus Area. It follows the "Organization and Reference data Set up" and forms the basis for the emission calculations and the reporting thereafter. The Microsoft Sustainability Manager is flexible with multiple automated options 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 carbon activity data Excel spreadsheets sourced by Alex Serra – Emissions Analyst. The Activity data spreadsheets contain Electricity Purchased for the year 2022 and Miles driven by the fleet of Fabrikam Electric Trucks for the calendar year 2022. Reed utilizes Microsoft Sustainability Manger's power query connector functionality to import from the Excel spreadsheets, and reviews other connectors available for future purposes. Reed uses the built-in field mapping 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.



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



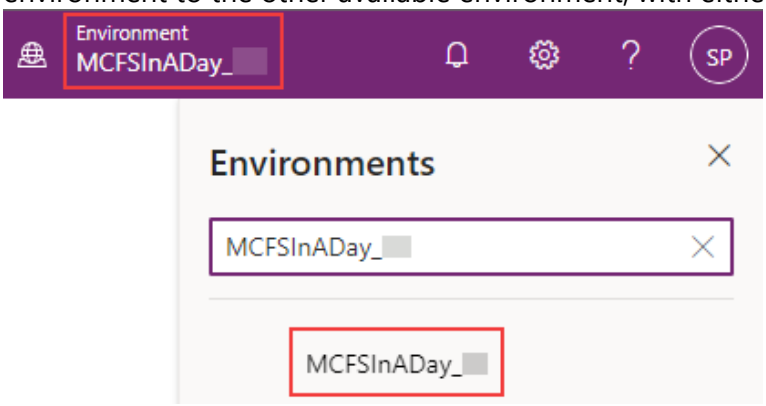
Exercise 1: Import Data

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.

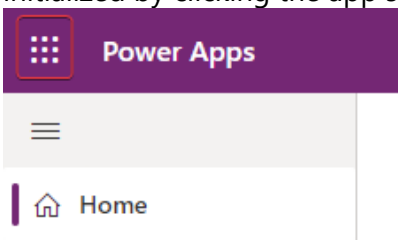
Important

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

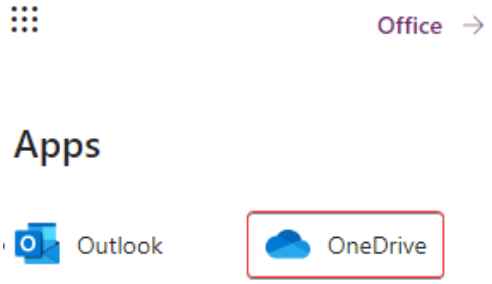
- For our Instructor Lead Training, we suggest using In-private browsing, or a new browser profile.
- For our Instructor Lead Training, log in to https://make.powerapps.com using the user account that has been assigned to you.
- For our Instructor Lead Training, please use the environment selector to switch from the default environment to the other available environment, with either MCfS or Sustainability in its name.



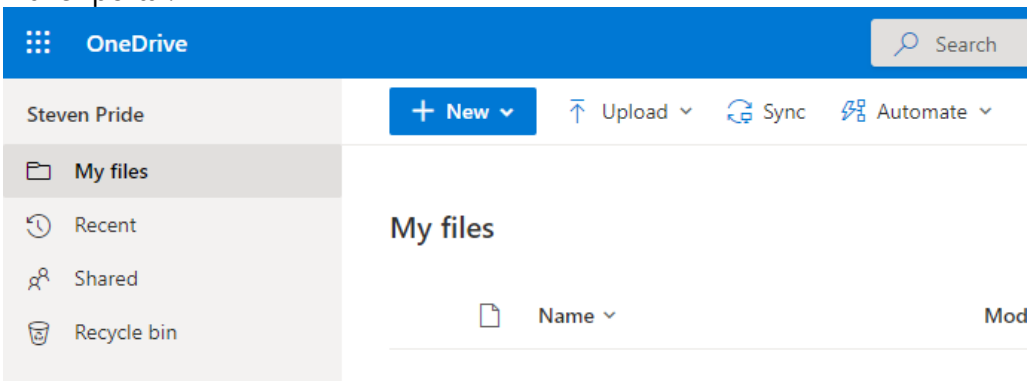
- For this lab, you will be utilizing OneDrive. Please ensure that your personal one drive has been initialized by clicking the app selector button in the top left corner of the screen.



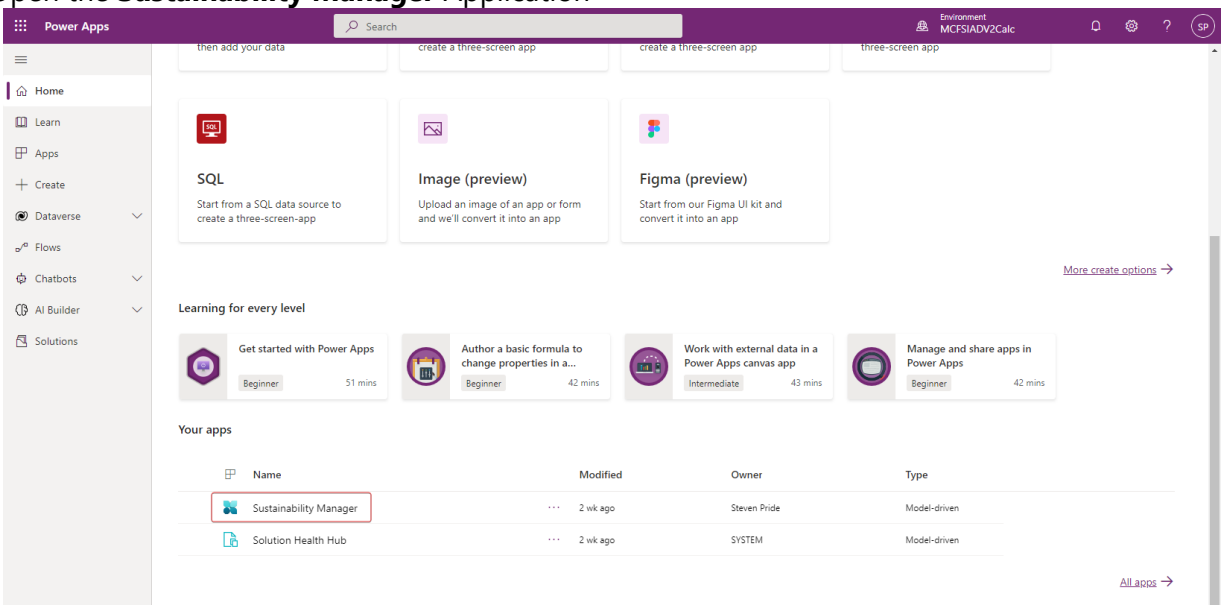
- Select one drive from the Apps list



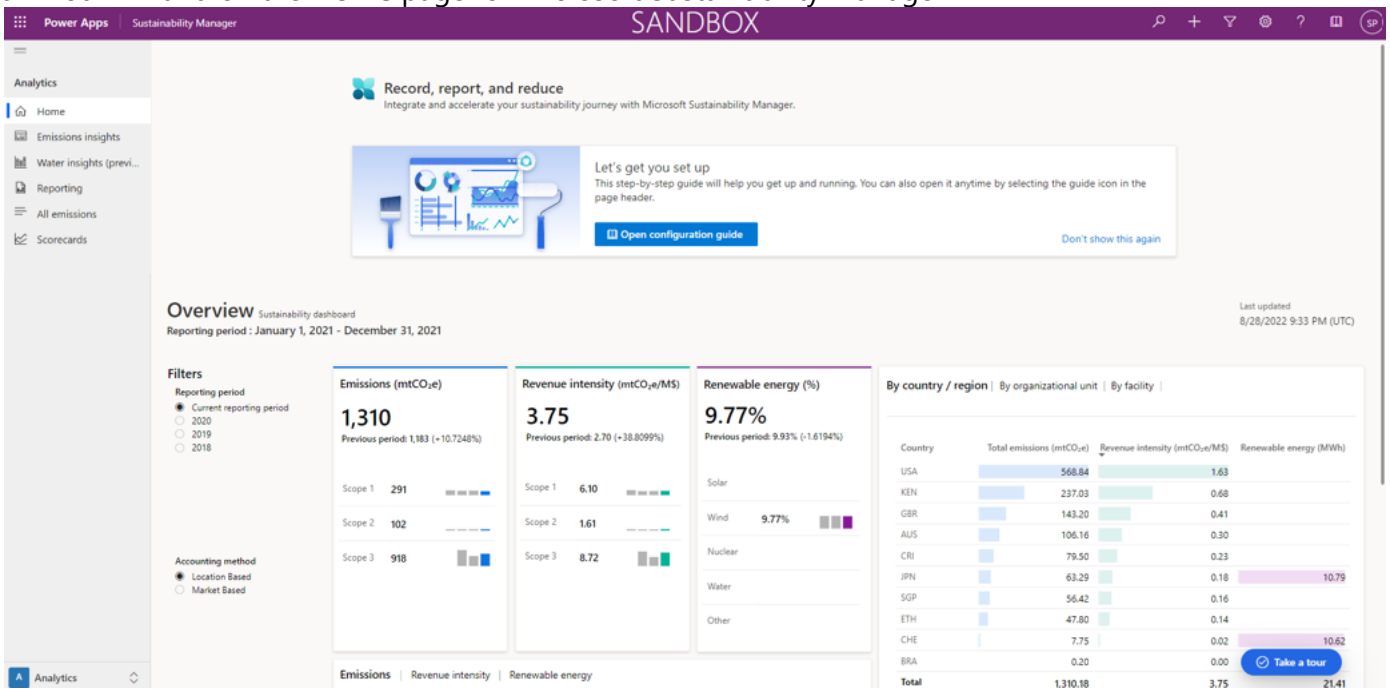
- This will open a new tab with your new OneDrive. You can close this tab and return to the Power Apps maker portal.



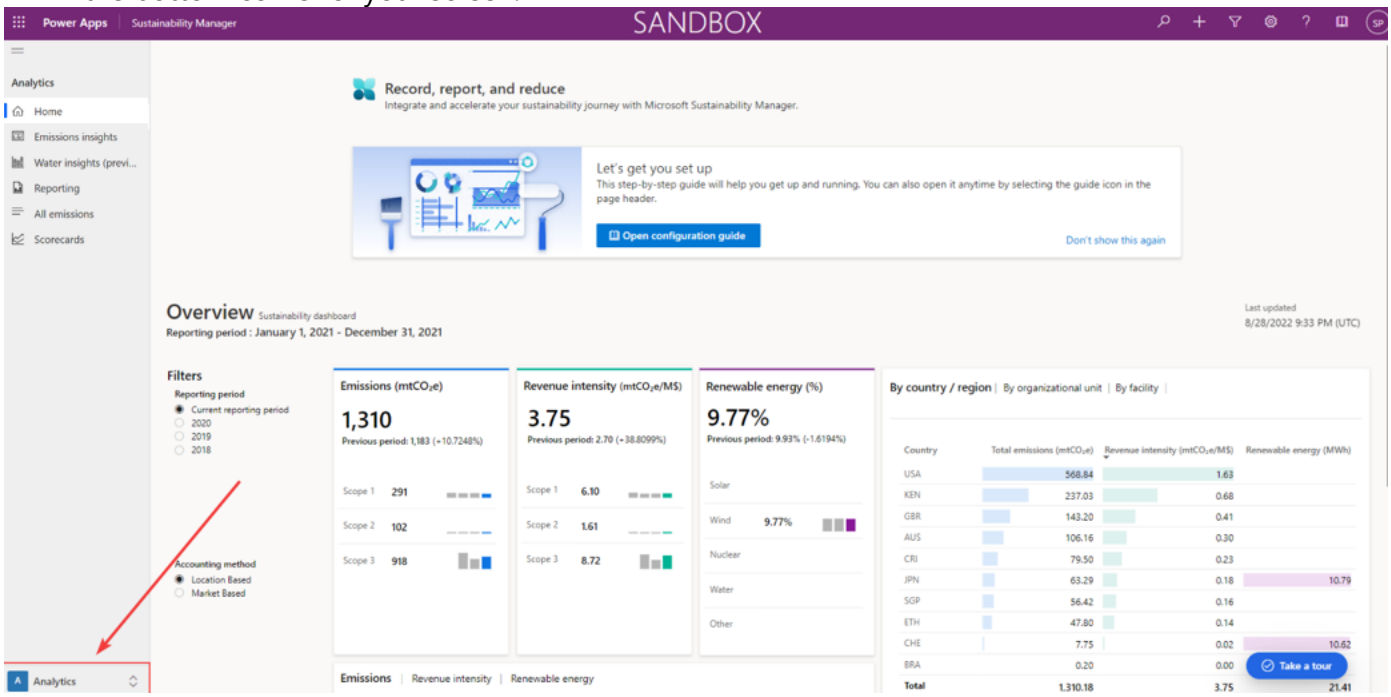
- Open the **Sustainability Manager** Application



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



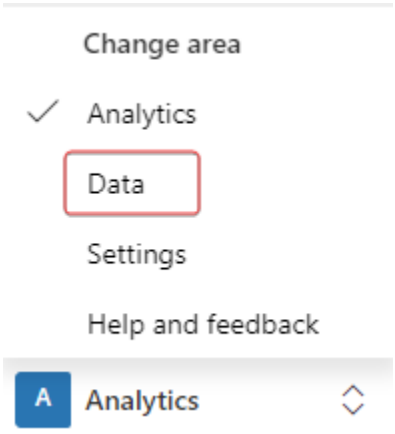
- Area navigation is a common first step in each lab and exercise. You can find the area navigation menu in the bottom corner of your screen.



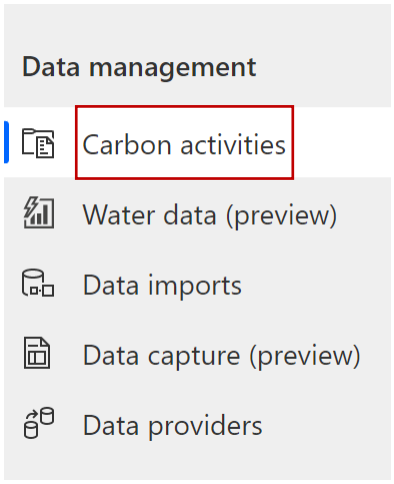
Task 1: Import 2022 data for "Purchased Electricity" for Facilities

In this task, Reed imports the first excel spreadsheet provided by Alex, Purchased electricity Wide World Importers 2022.xlsx. This brings in the Electricity Purchased by Wide World Importers facilities for the year 2022 into the Purchased electricity activity data.

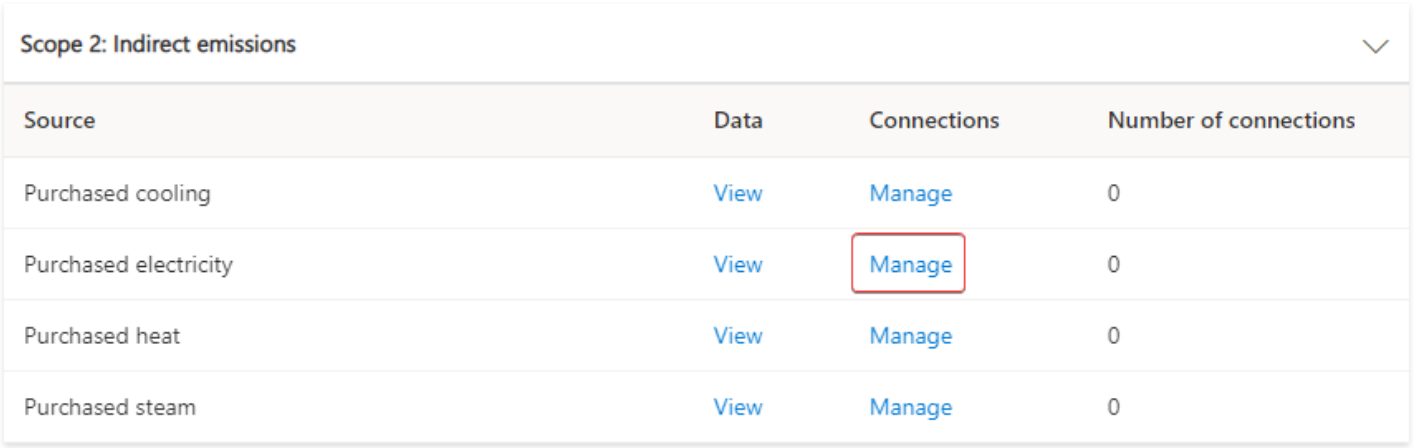
1. In the bottom left corner, change the Area to **Data**



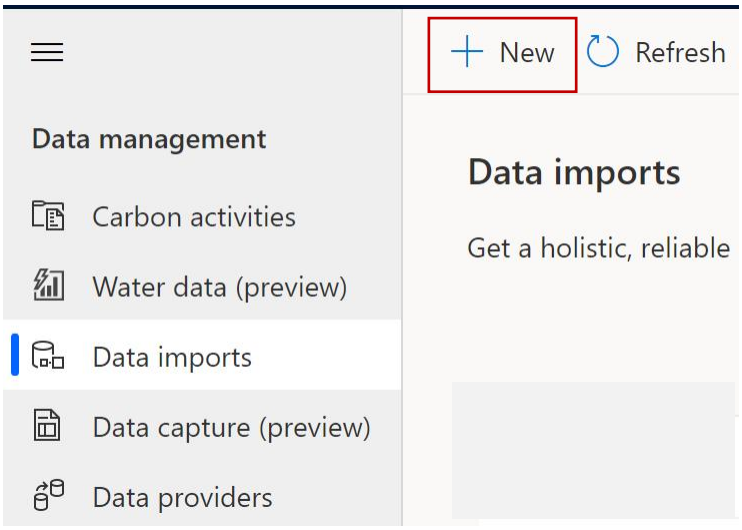
2. Navigate to "**Carbon activities**" on the left side of the page.



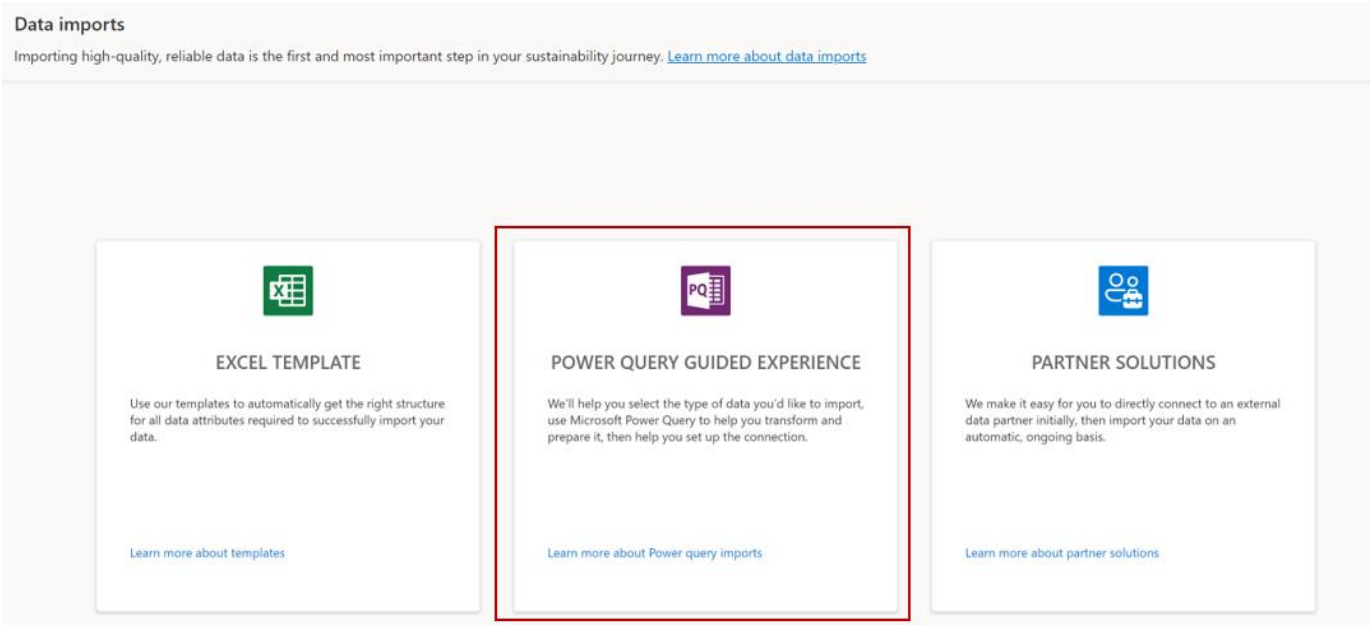
3. Find Purchased electricity in the **Scope 2: Indirect emissions** section, and click **Manage**



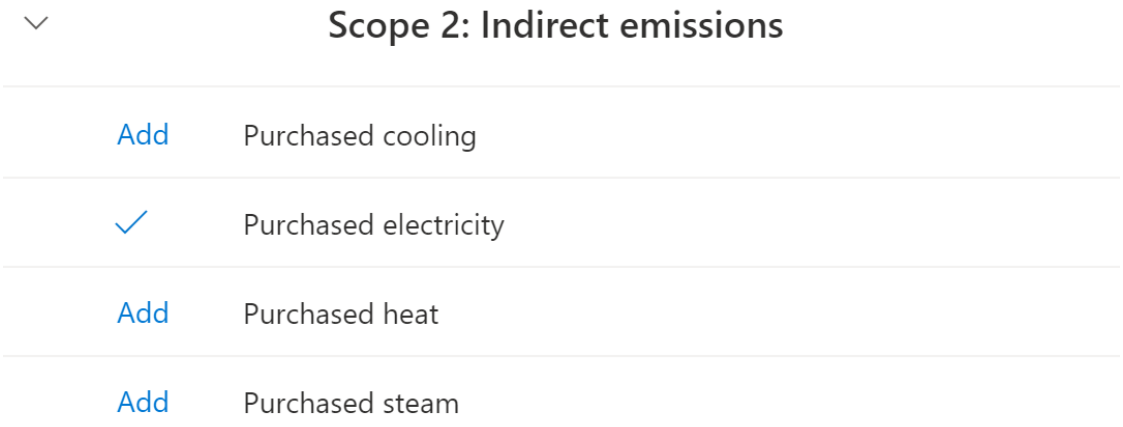
4. On the “Data Imports” view, click **+New**



5. On the “Data imports”, select “**POWER QUERY GUIDED EXPERIENCE**”:

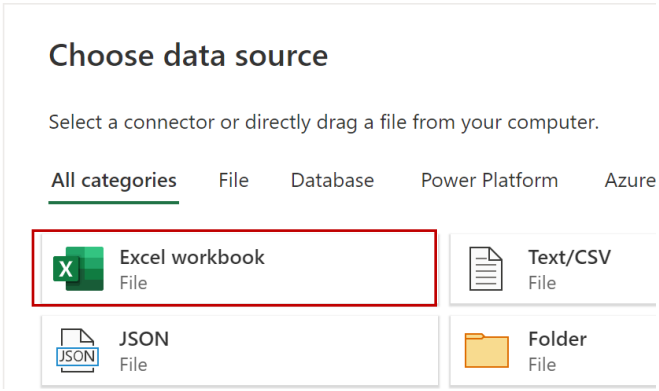


a. Select **Add, next to Purchased Electricity**



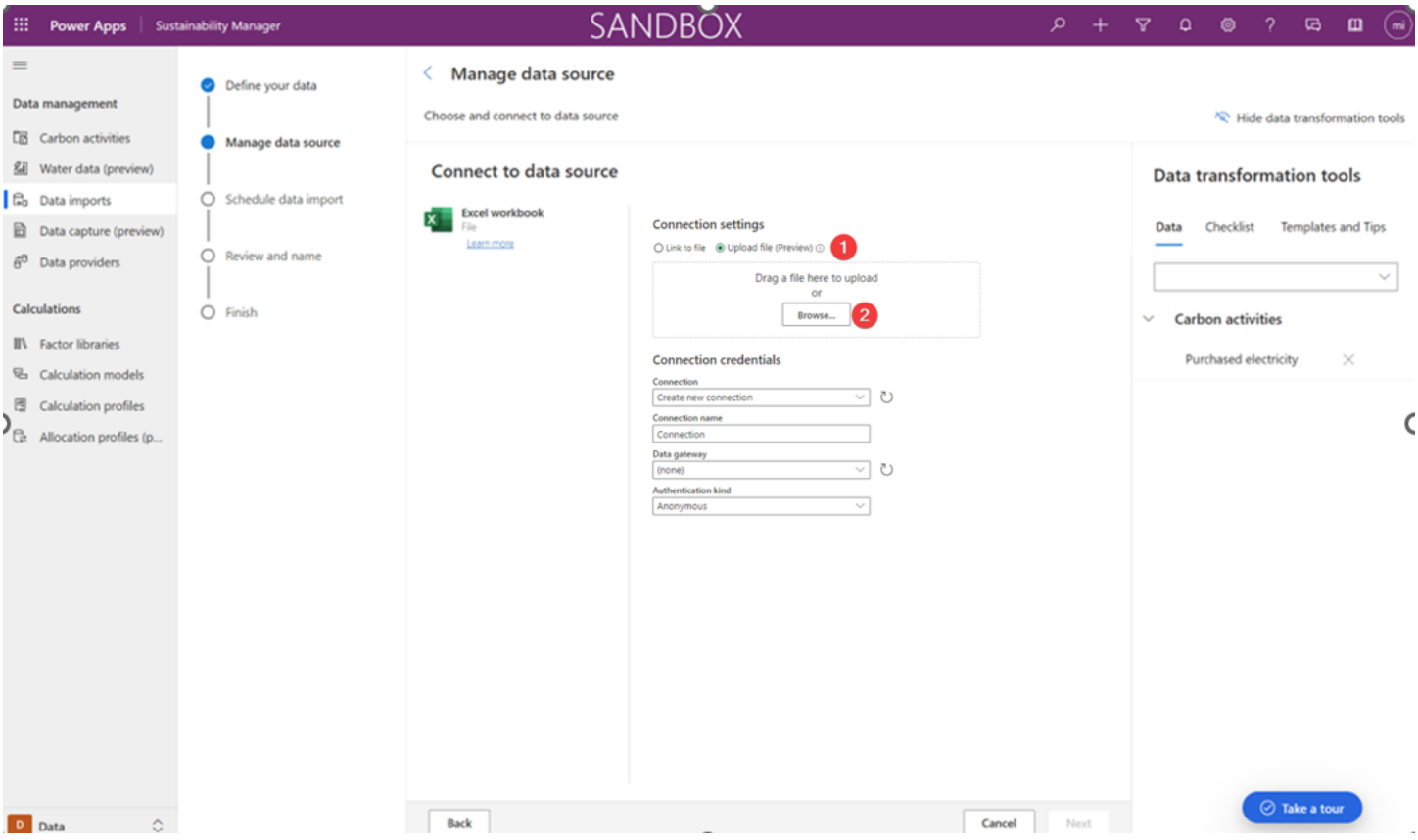
b. Choose **Next**

6. Take a moment to review the large list of connectors. Click **Excel Workbook,** as the Data Connector

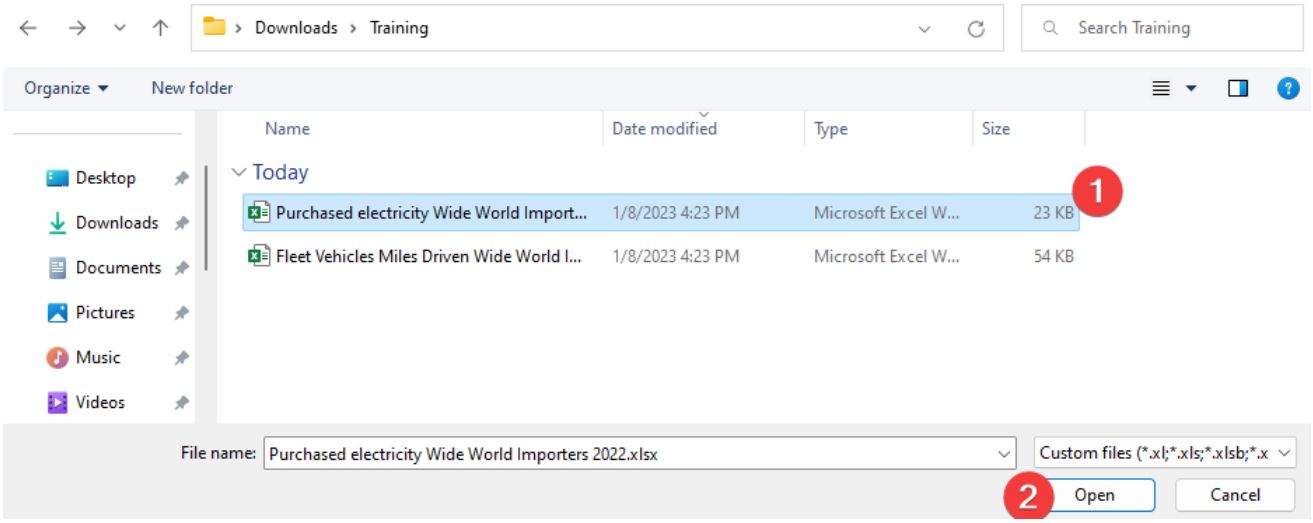


7. A new dialog will open for Power Query. On the Power Query dialog:
    a. Click **Upload file**
    b. Click **Browse**

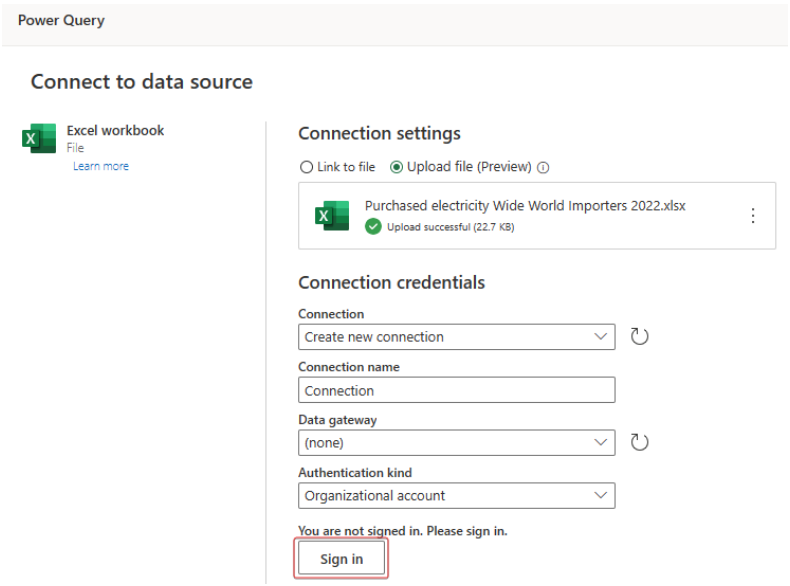
Note: You can also import an existing file located in OneDrive. For simplicity of this lab, we are using the Upload file functionality.



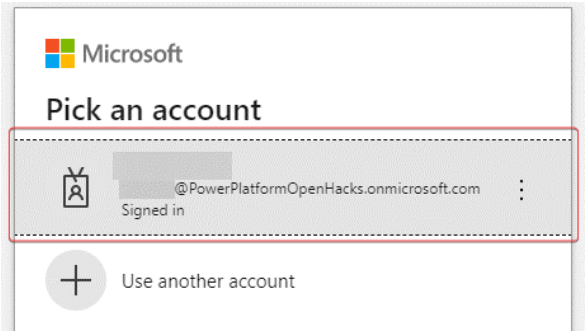
8. On the file selection window, browse to the location of the excel files that were downloaded.
    a. Select the **Purchased electricity Wide World Importers 2022.xlsx** file
    b. Click **Open**



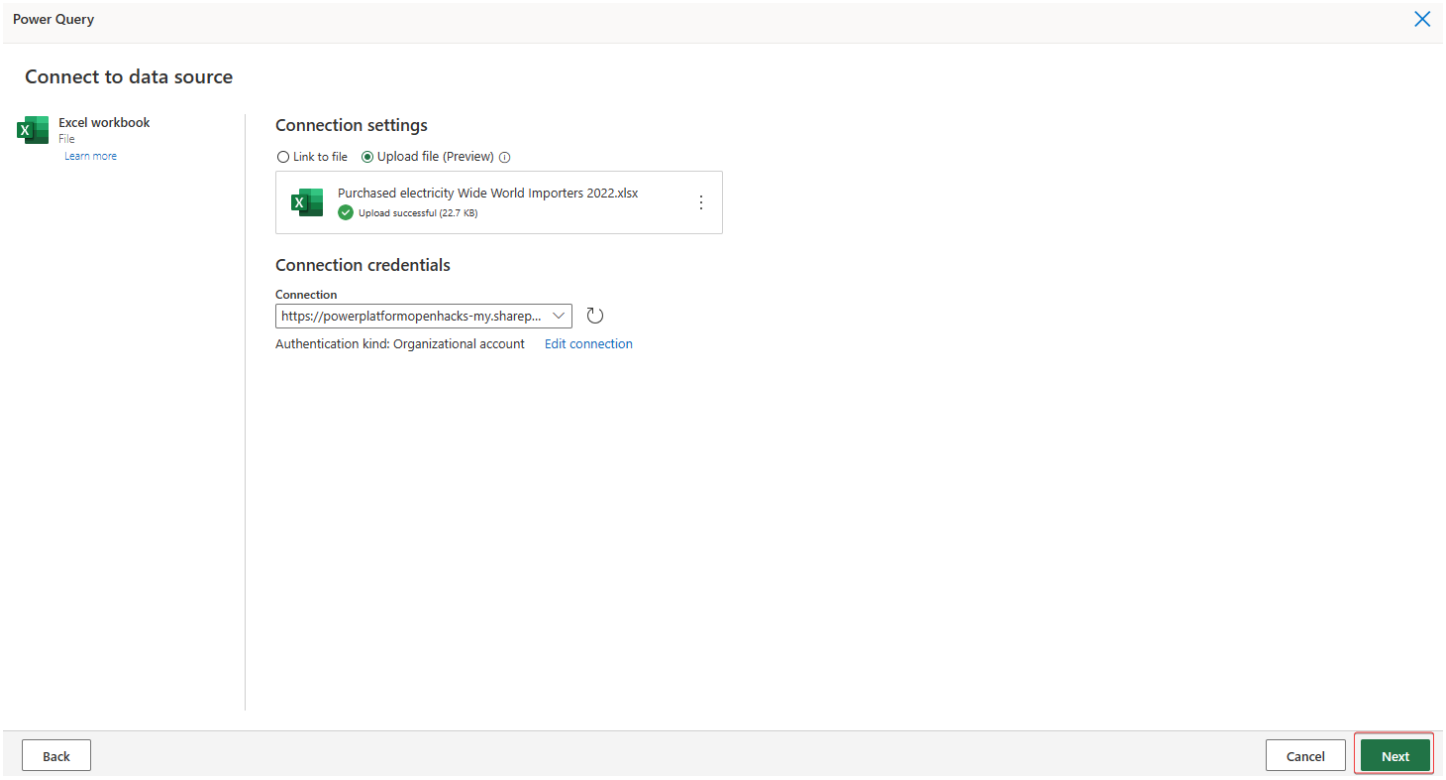
9. Once the file is successfully uploaded, it may be required to click the sign in button below to create a new Connection credential, this is done by clicking **Sign in**.



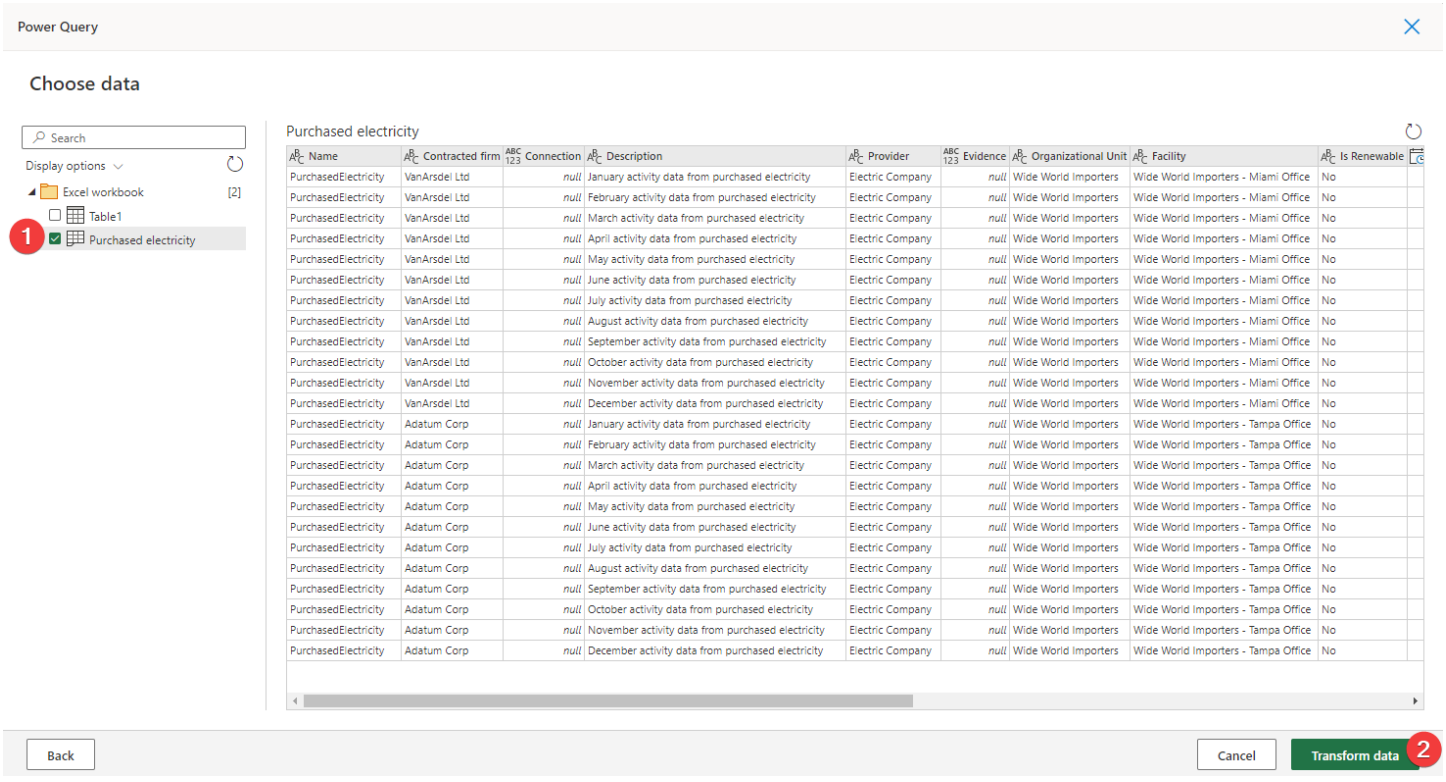
    a. An Office 365 Sign in dialog will appear. Reed selects their user from the list. (For the purposes of this lab, select your "In a Day" user account from the list).



10. If signed in, the new connection is automatically selected. Click **Next**.

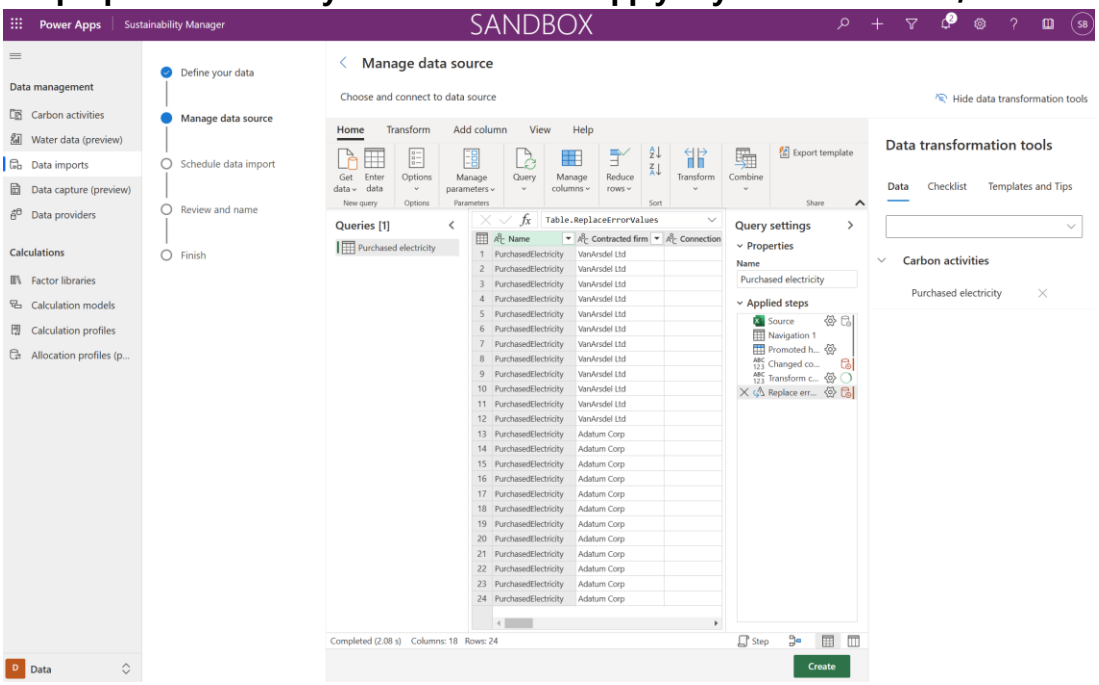


11. On the "Choose data" page of the Power Query wizard:
    a. Select the "**Purchased electricity**" sheet
    b. Click **Transform data**



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

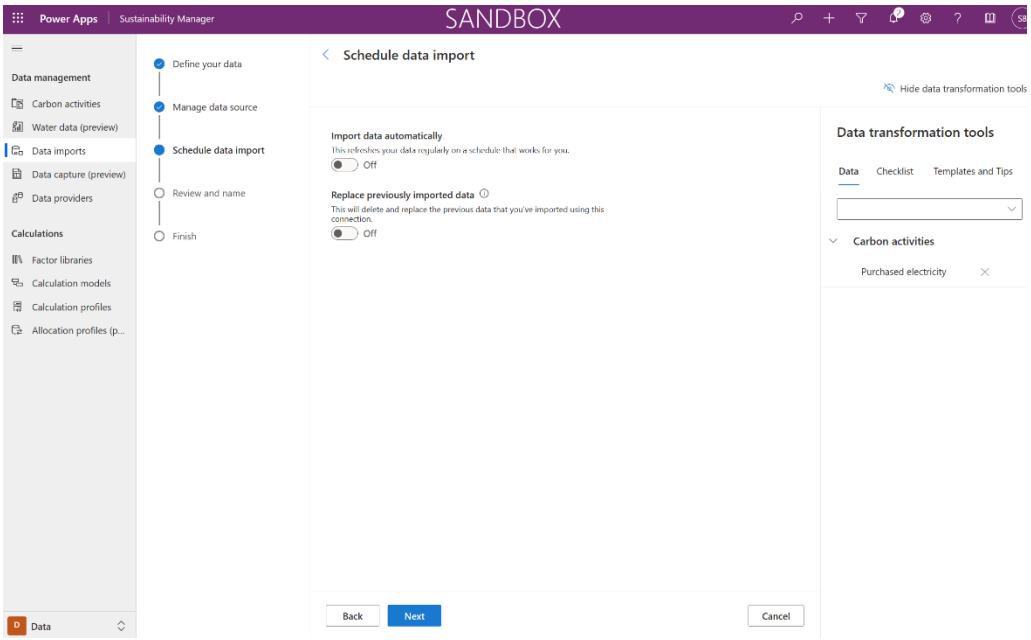
12. On the “Transform data” page of the Power Query wizard, various data and column transformations can be performed. This will allow for the adjusting of data types, update column mappings, and even perform advanced transformations familiar with in Power Platform Dataflows or Power BI Datasets. **For the purpose of this lab you do not need to apply any transformations, click create.**



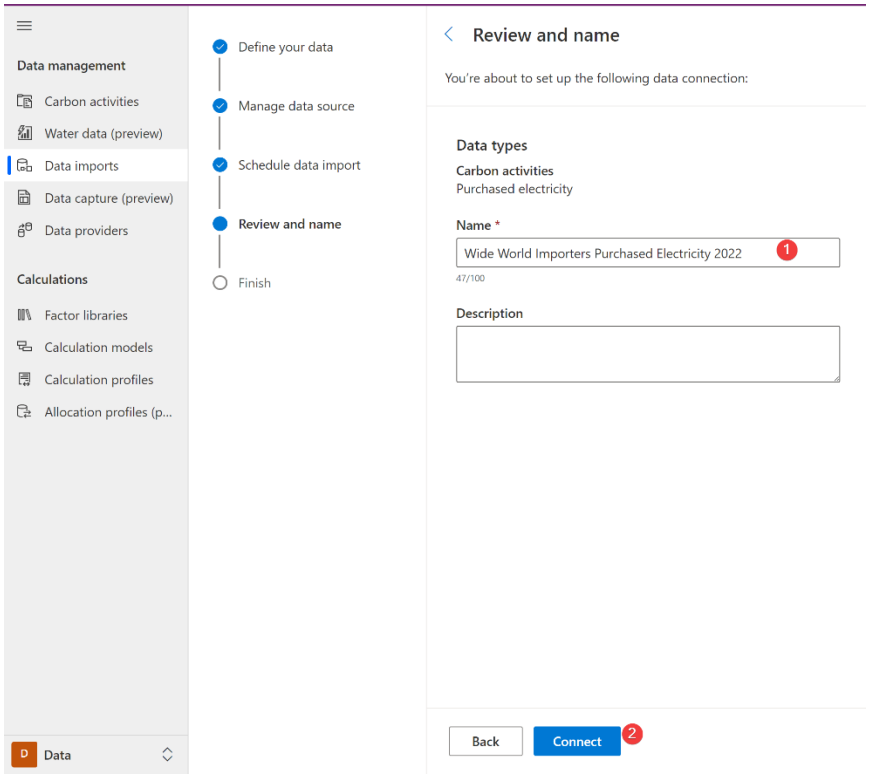
13. The “New data connection” wizard will now be on the Schedule data import page.

- 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.

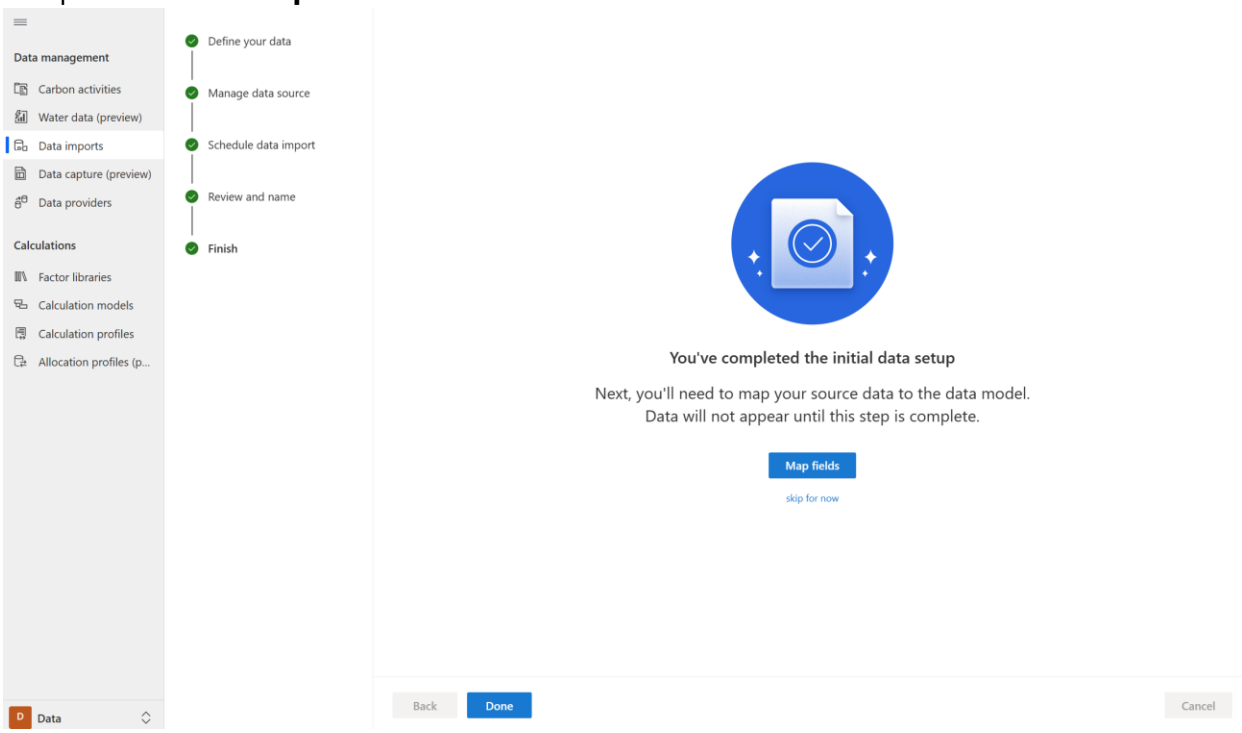
  For this scenario of importing historical data, leave both options turned off. **Click** “**Next**” when finished



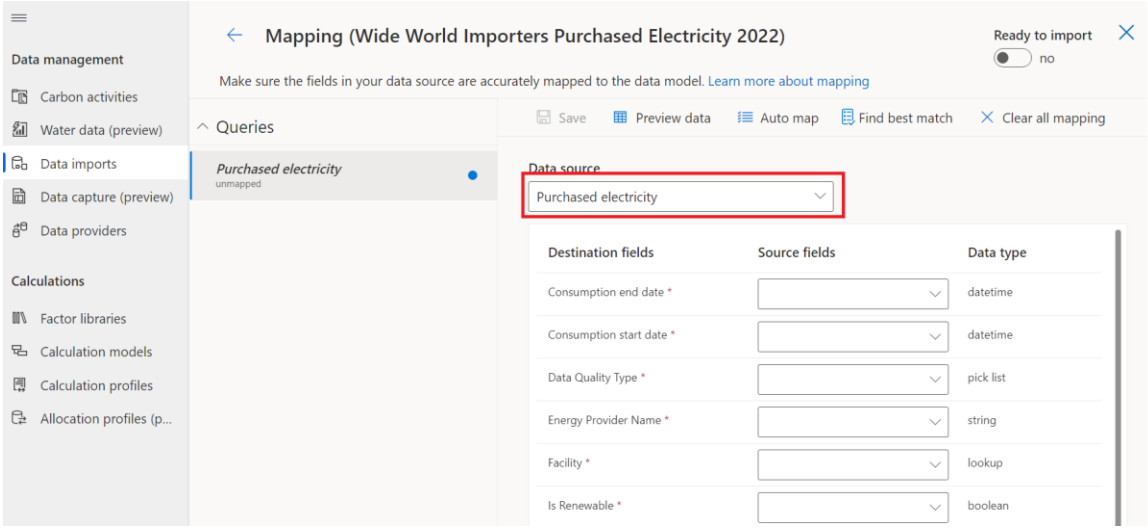
14. On the “Review and finish” page:
    a. Enter a name for the new connection, such as “**Wide World Importers Purchased Electricity 2022**”
    b. Click “**Connect**”



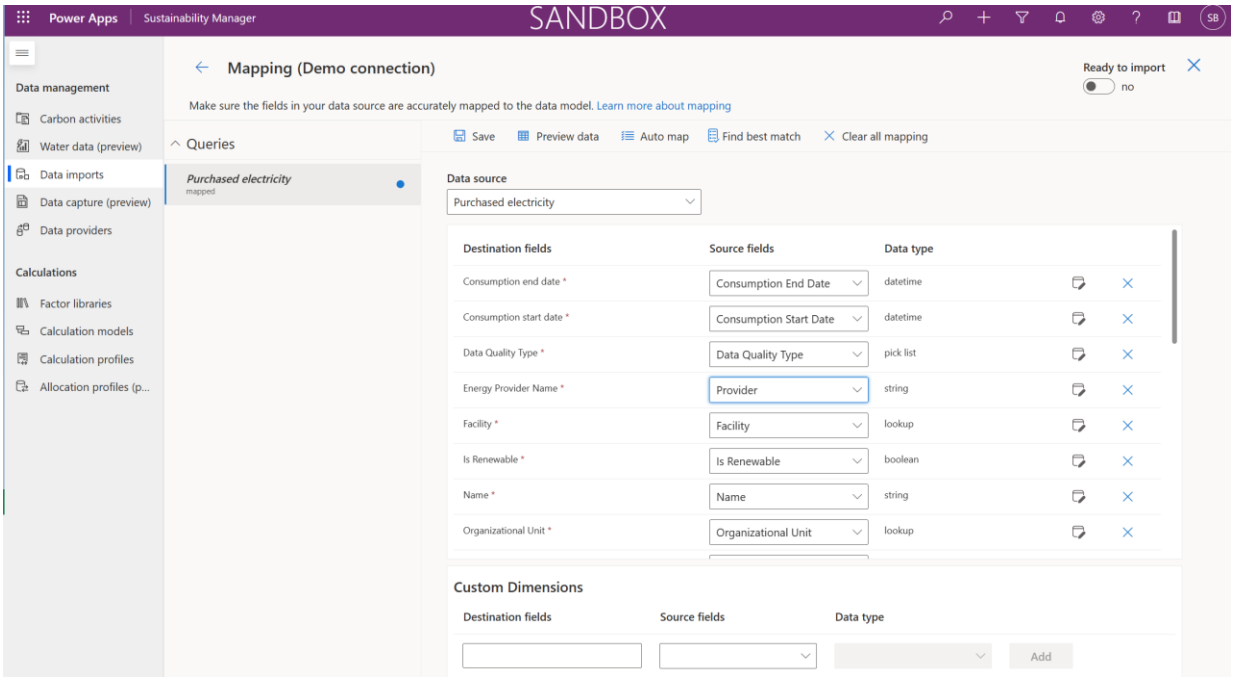
15. Next, you'll need to map your source data to the data model. Data will not appear until this step is complete. Click on **Map fields.**



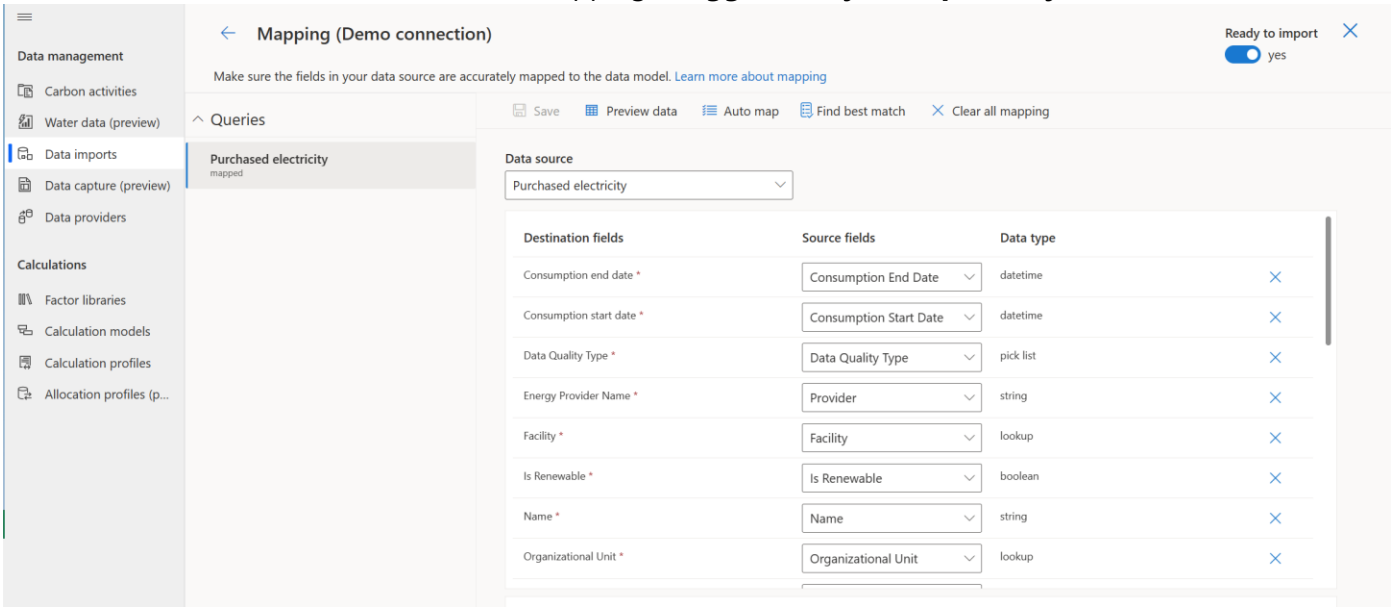
16. Select the **Data source** to map, in this lab that is **Purchased electricity** under **Carbon Activities**



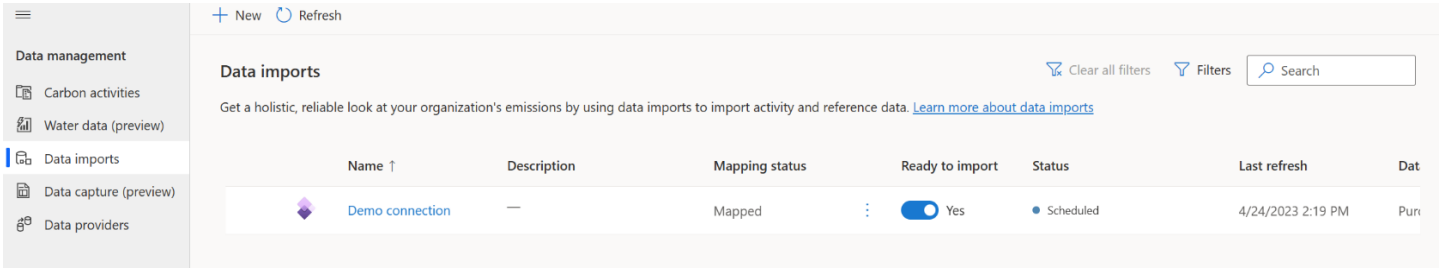
17. In this scenario, Reed will need to map the columns from the spreadsheet to the columns in Microsoft Sustainability Manager. **Select Auto Map** for the solution to automatically map the file's source fields with the destination fields, for any field that is not an exact match the best match will be found and highlight the field blue, make sure to review them. When you are done with the mapping**, Click Save.**



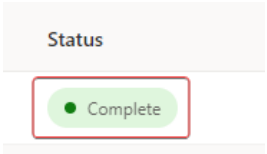
18. Now that we have reviewed our field mappings**, toggle Ready to Import as yes.**



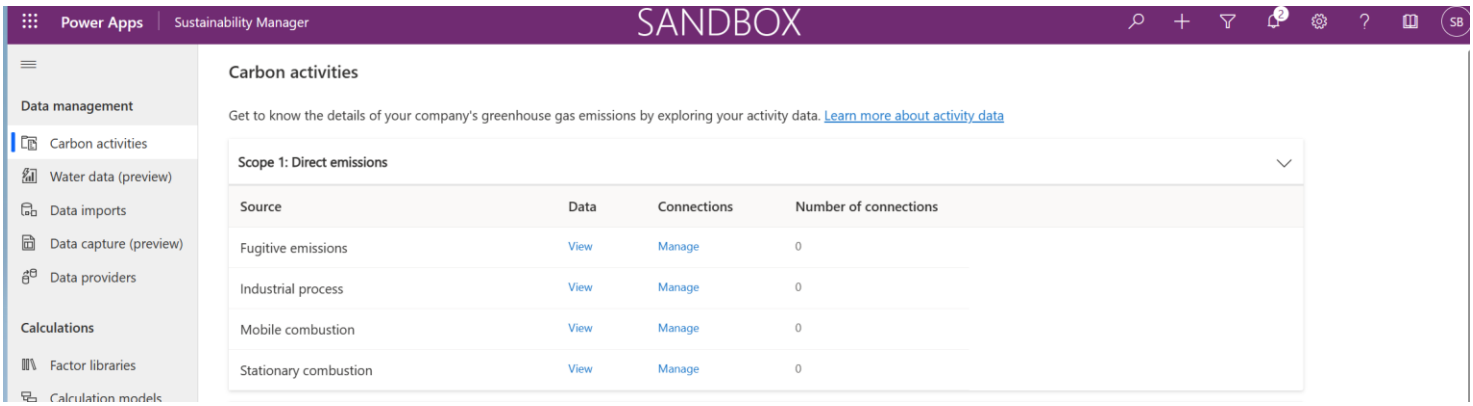
19. Navigate back to Data imports where you can see the import you created just now.
20. The "**Data Import**" job will be run, it should say "**Scheduled**" then in a moment switch to "**Processing**" you might need to refresh your page to see the change.



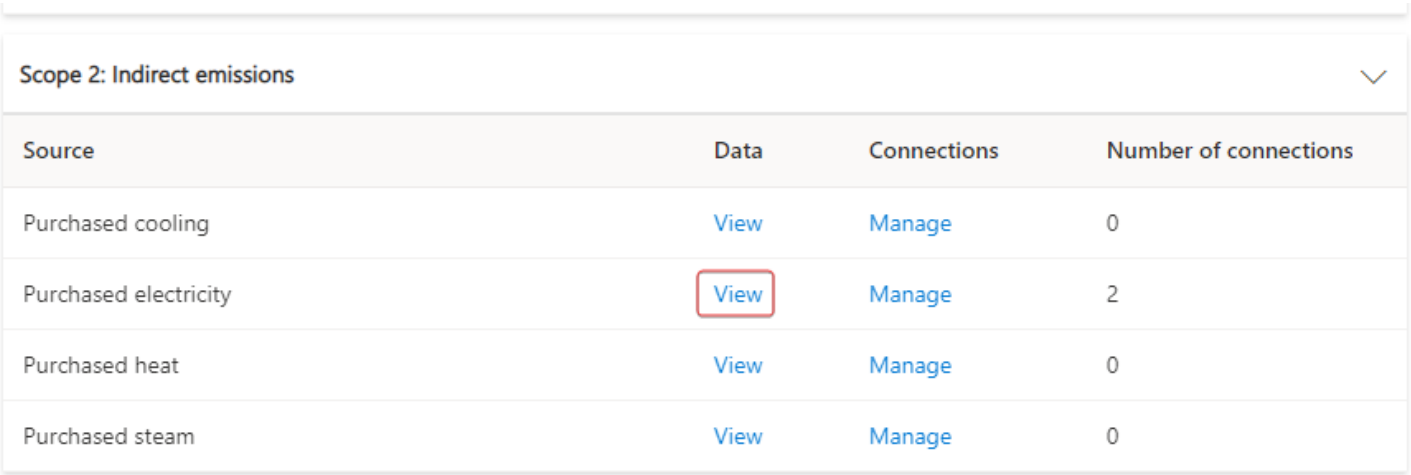
21. After a minute or two click the "**Refresh**" button above the list to see the updated status, which should be "**Completed**"



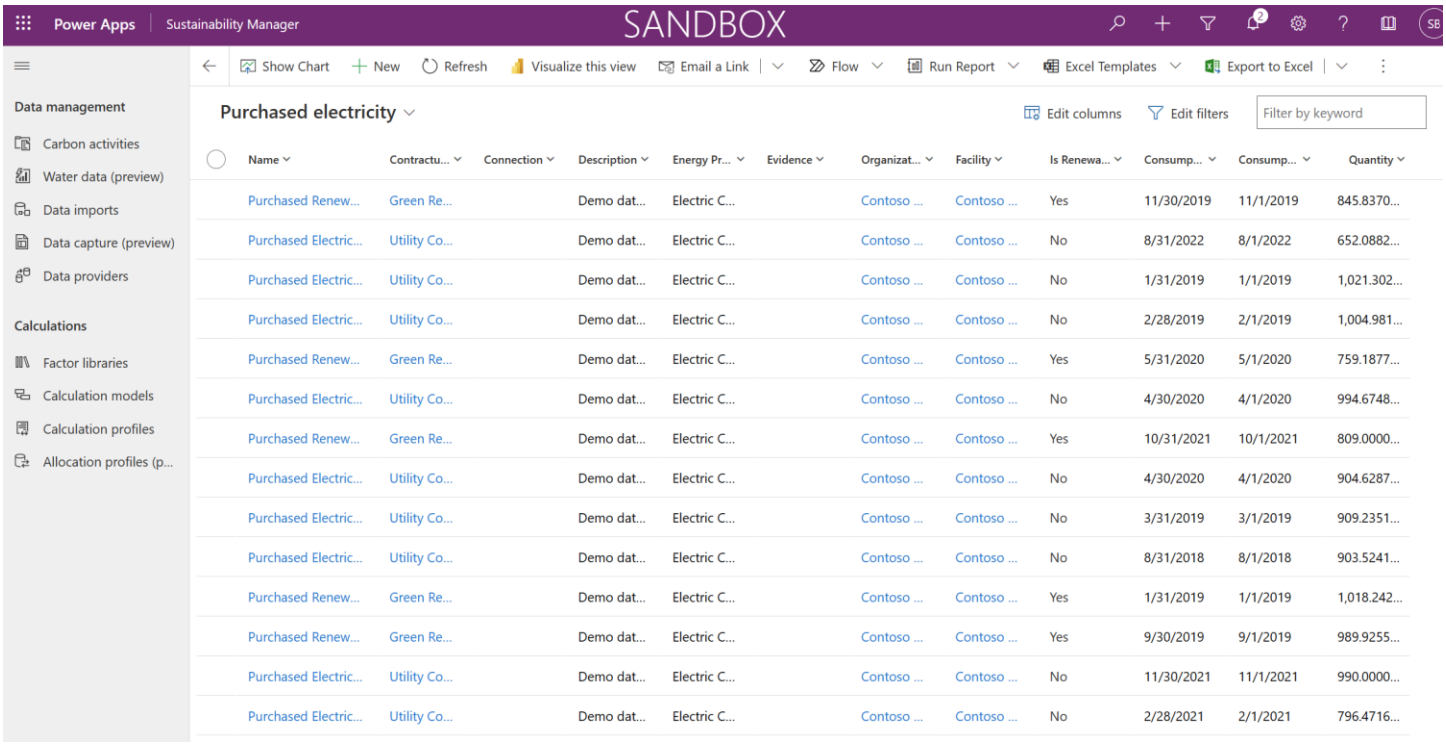
22. Navigate to "**Carbon Activities**" on the left side of the page.



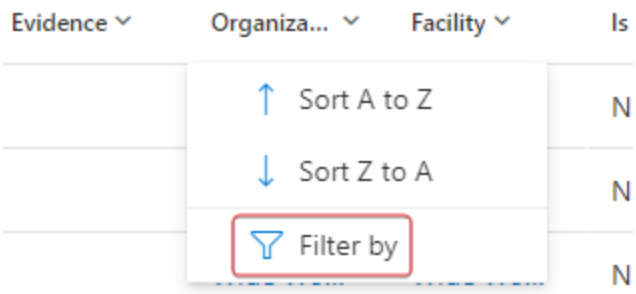
23. Find Purchased electricity in the Scope 2: Indirect emissions section and **click View.**



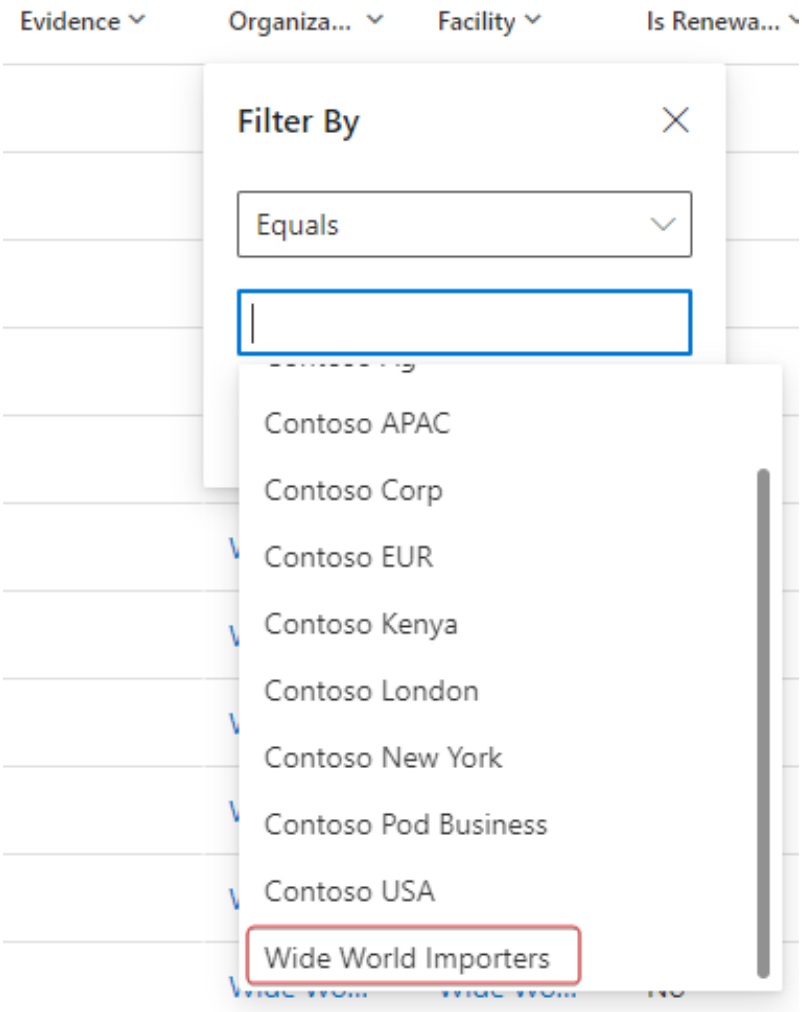
24. The Purchased electricity view shows all purchased electricity activity data that has been imported



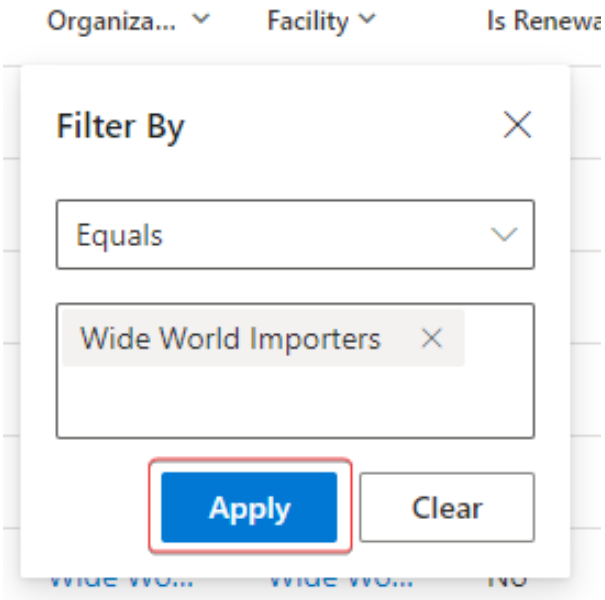
25. Filter the view by clicking the down arrow next to the **Organizational Unit** column, and selecting **Filter by**



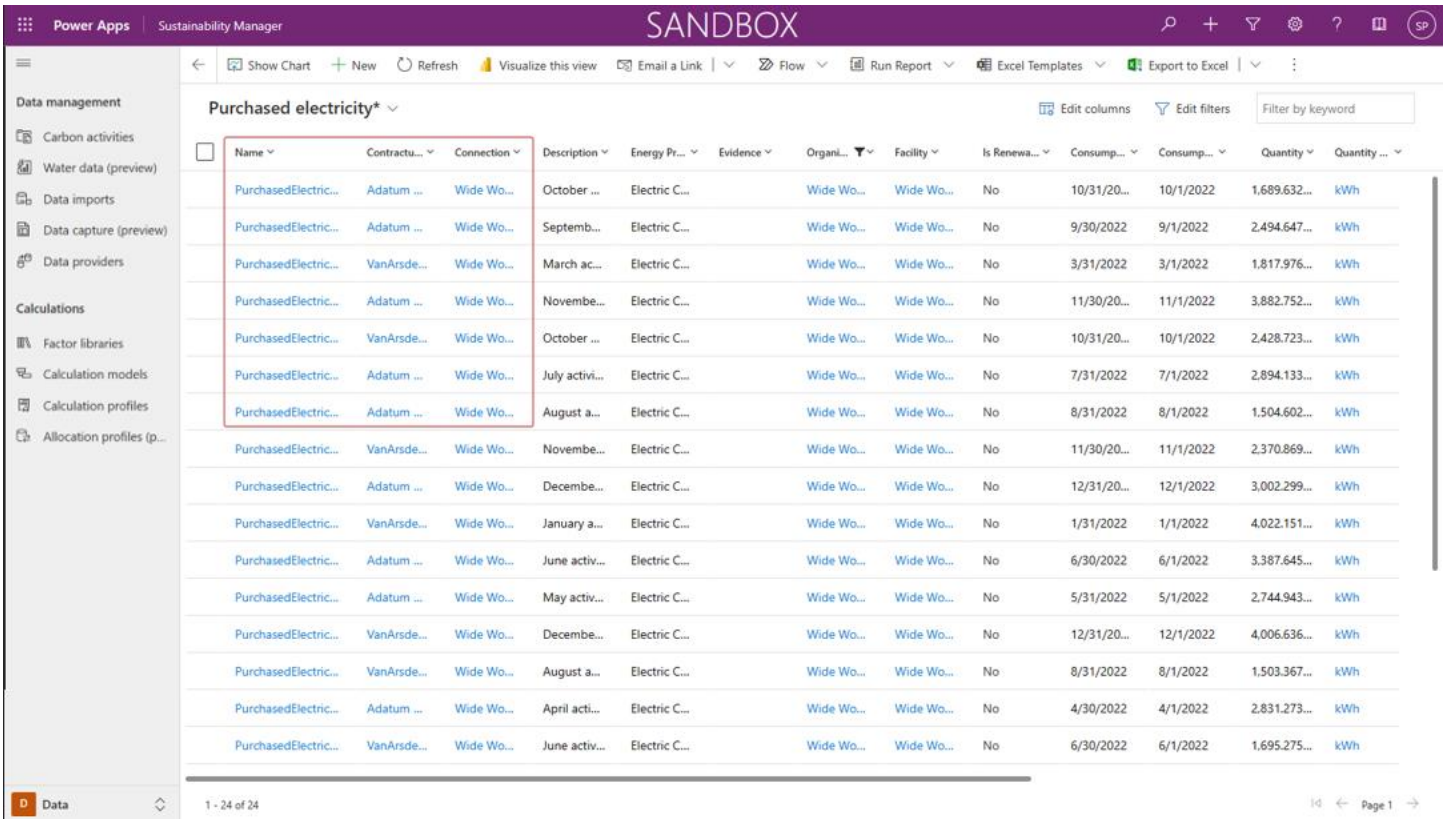
26. Select "**Wide World Importers**" from the Filter By dialog



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



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

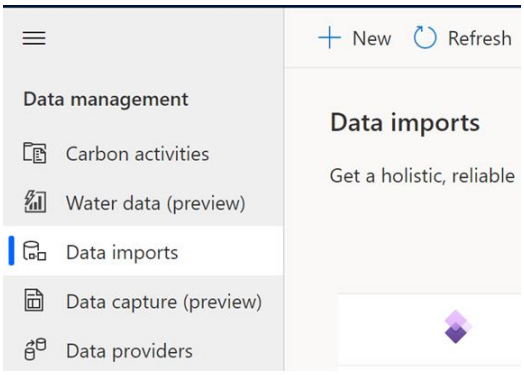


Great job, you have just completed the data import of 2022 Purchased Electricity for Wide World Importers. This is an important step to realizing the goal of recording, reporting, and reducing carbon emissions. Next, we will import the 2022 Miles Driven for Wide World Importers fleet of electric vehicles. **Please continue to the next task.**

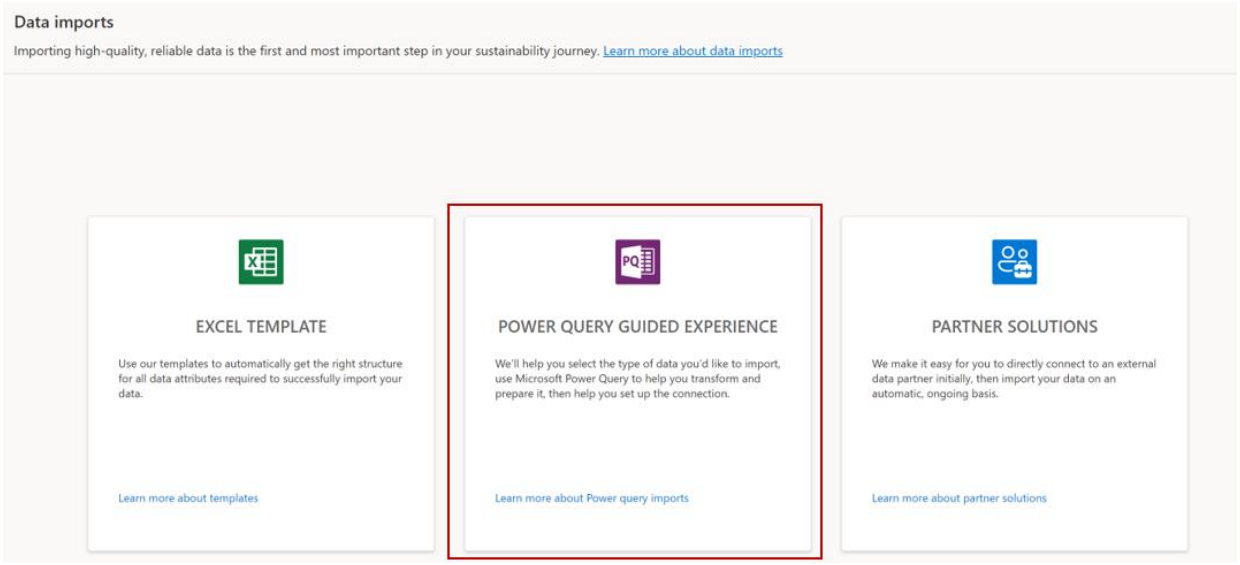
Task 2: Import 2022 data "Miles Driven" for Electric Trucks

In this task, Reed imports the second excel spreadsheet provided by Alex - "Fleet Vehicles Miles Driven Wide World Importers 2022.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 trucks for the year 2022 into the Purchased electricity carbon activity data.

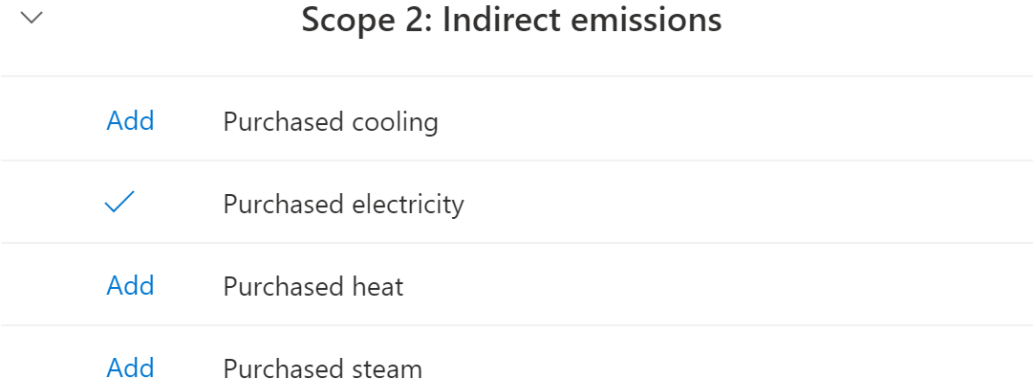
1. Navigate to "**Data imports**" on the left side of the page, **click +New.**



2. On the "Data imports", select "**POWER QUERY GUIDED EXPERIENCE**":

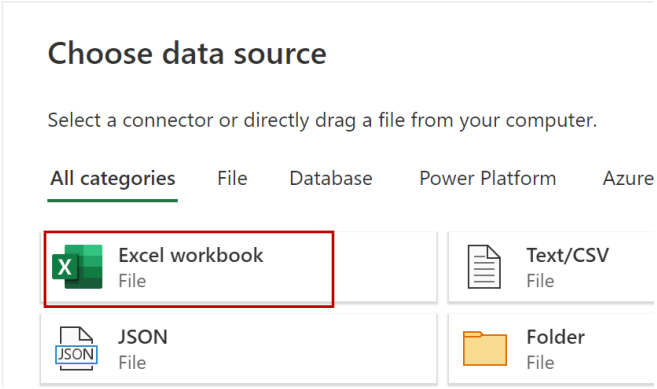


a. Select **Add, next to Purchased Electricity**



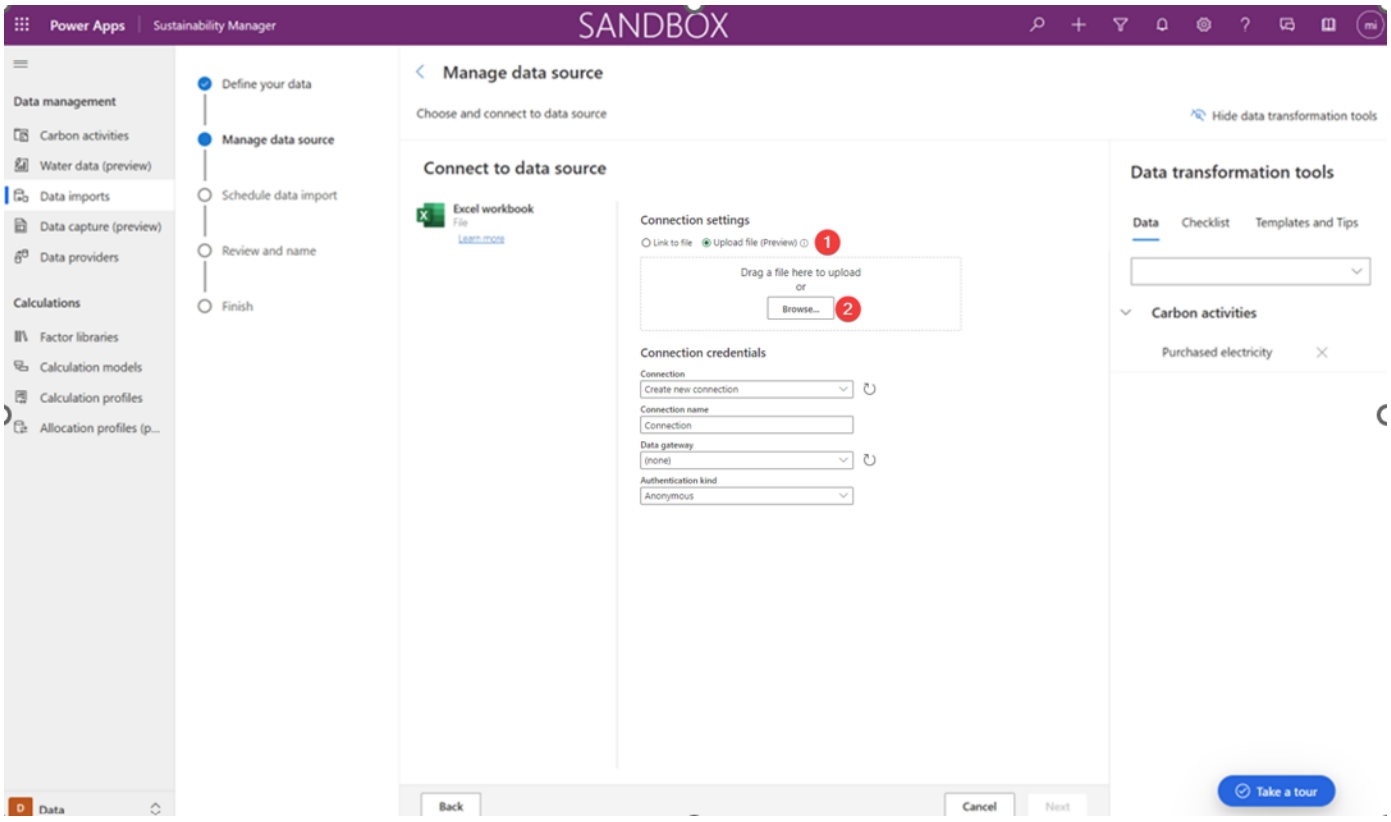
b. Choose **Next**

3. On the list of connectors. **Click Excel Workbook,** as the Data Connector

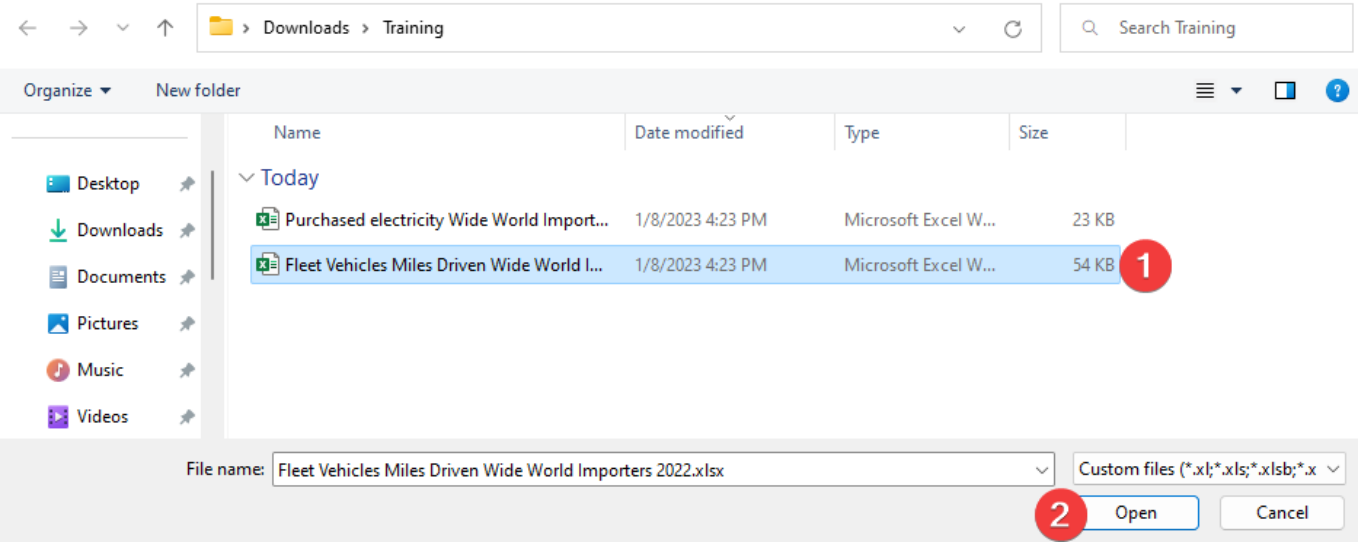


4. A new dialog will open for Power Query. On the Power Query dialog:
    a. Click **Upload file (Preview)**
    b. Click **Browse**

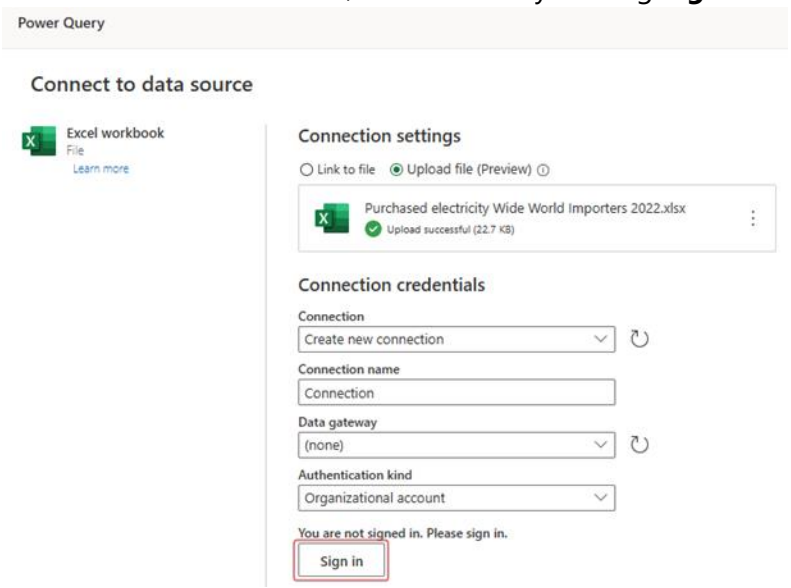
Note: You can also import an existing file located in OneDrive. For simplicity of this lab, we are using the Upload file functionality.



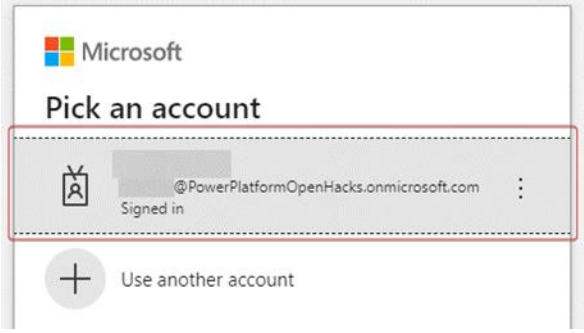
5. On the file selection window, browse to the location of the excel files the downloaded.
    1) Select the "**Fleet Vehicles Miles Driven Wide World Importers 2022.xlsx**" file
    2) Click "**Open**"



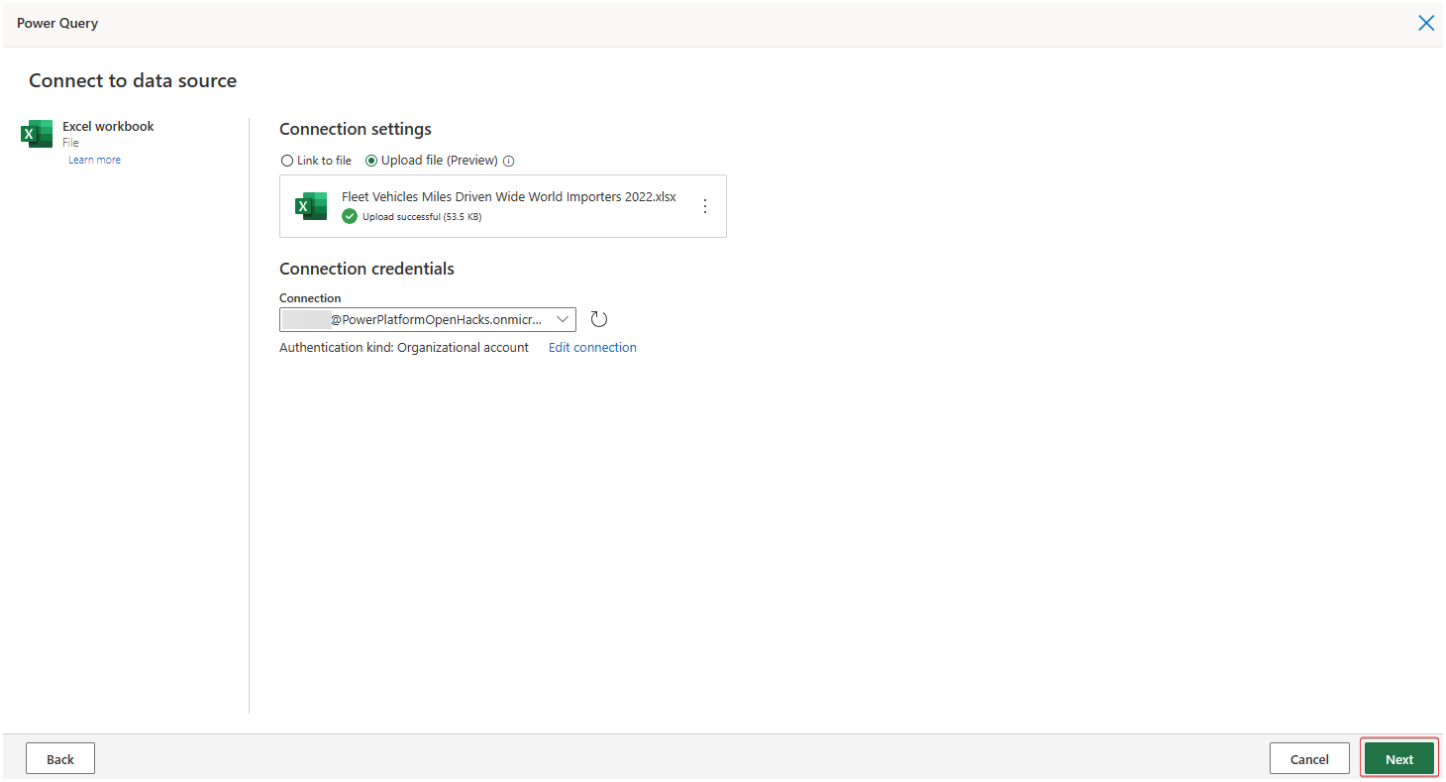
6. Once the file is successfully uploaded, it may be required to click the sign in button below to create a new Connection credential, this is done by clicking **Sign in.**



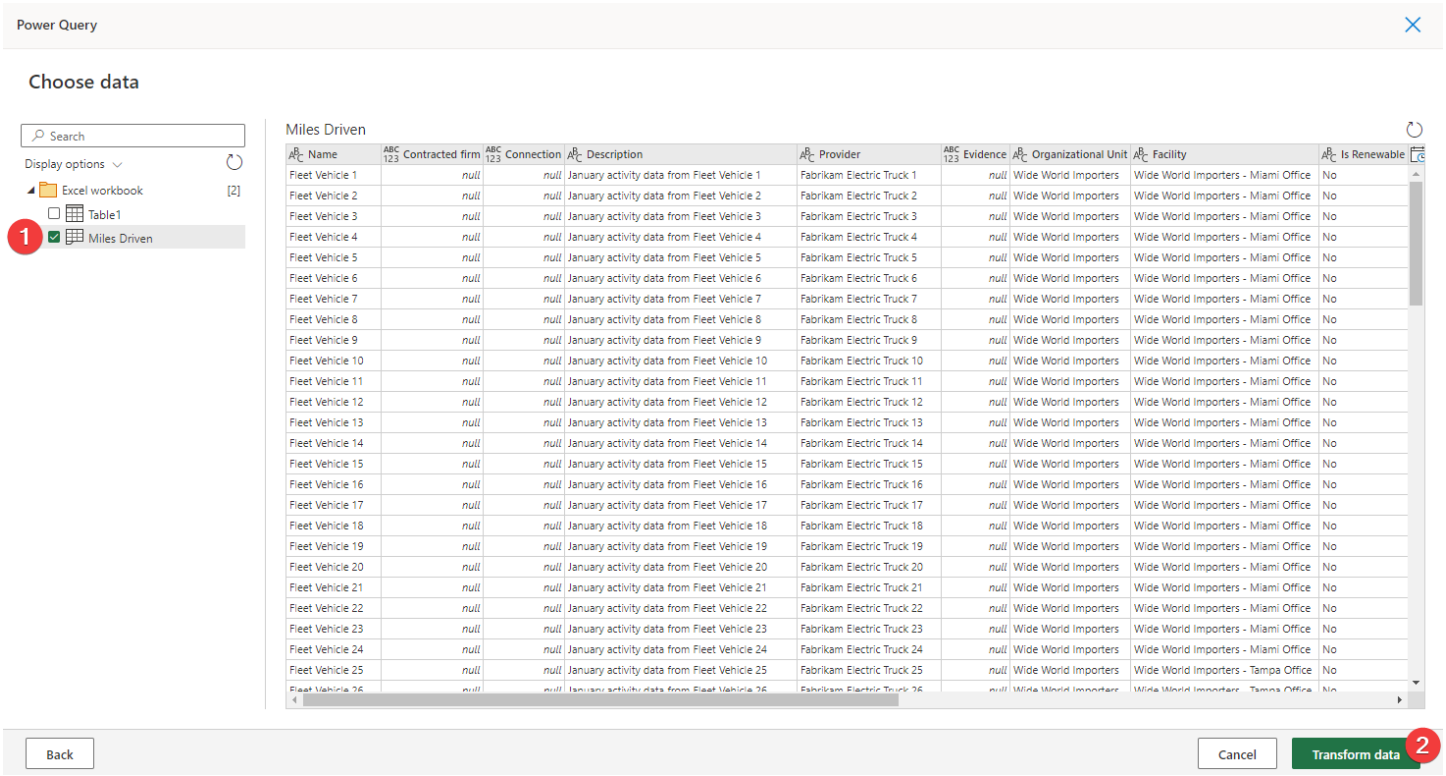
    a. An Office 365 Sign in dialog will appear. Reed selects their user from the list. (For the purposes of this lab, select your "In a Day" user account from the list).



7. If signed in, the new connection is automatically selected. **Click Next.**

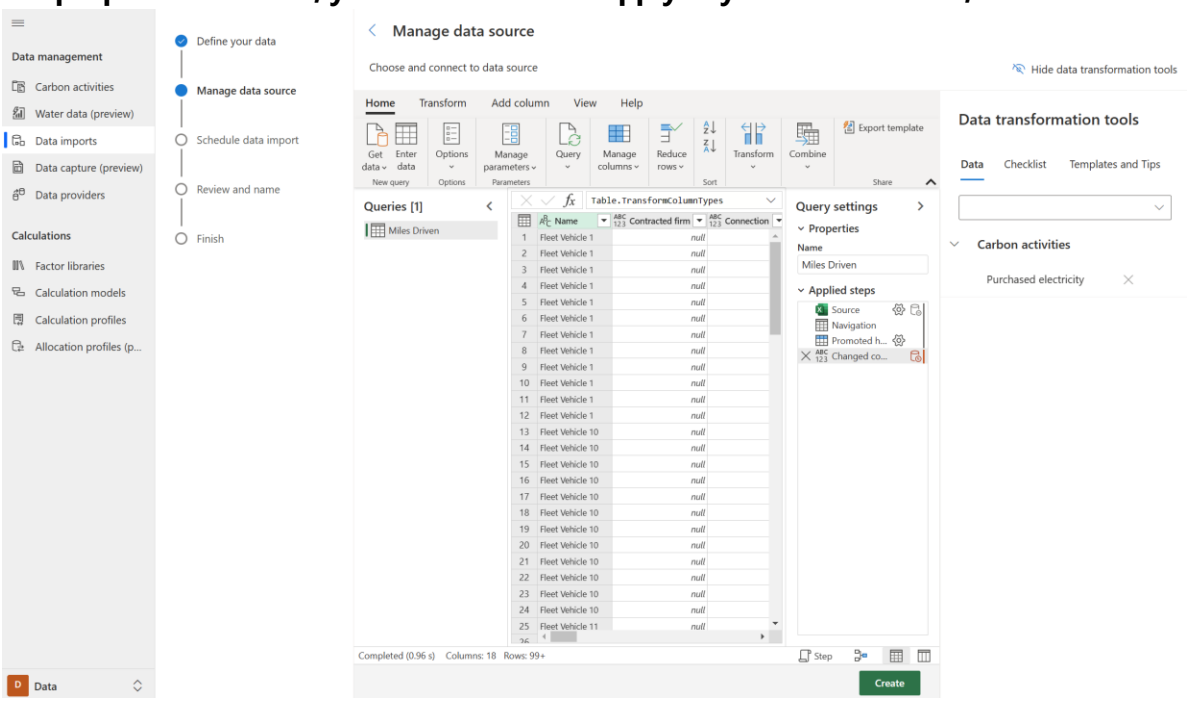


8. On "Choose data" page of the Power Query wizard:
    a. Select the "**Miles Driven**" sheet
    b. Click "**Transform data**"



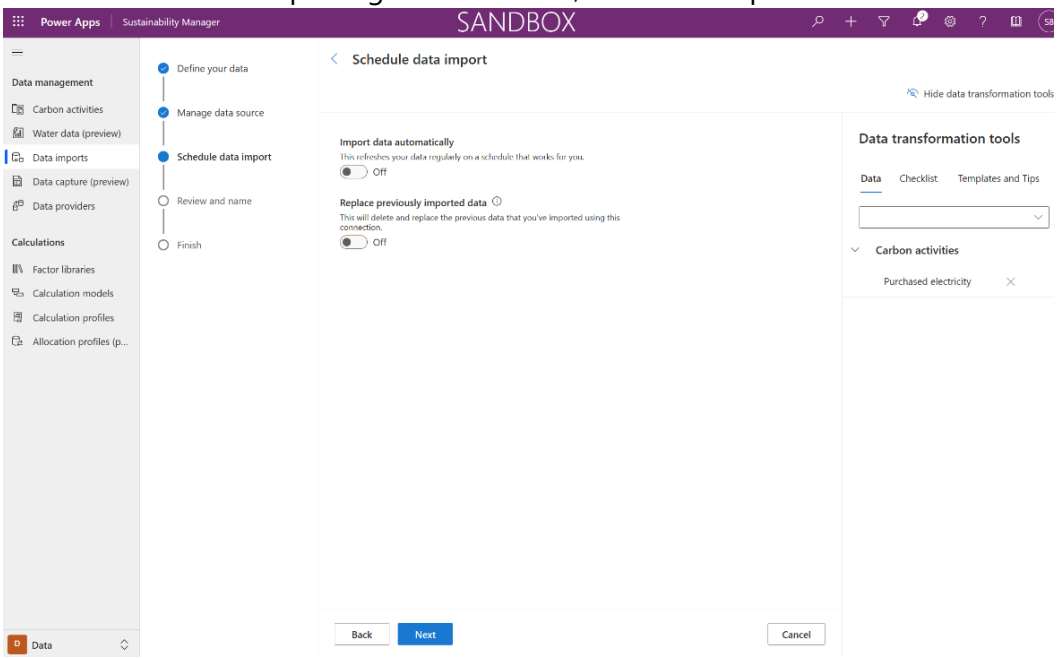
Name	Contracted firm	Connection	Description	Provider	Evidence	Organizational Unit	Facility	Is Renewable
Fleet Vehicle 1	null	null	January activity data from Fleet Vehicle 1	Fabrikam Electric Truck 1	null	Wide World Importers	Wide World Importers - Miami Office	No
Fleet Vehicle 2	null	null	January activity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

9. 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 Power Platform Dataflows or Power BI Datasets. **For the purpose of this lab, you do not need to apply any transformations, click create.**

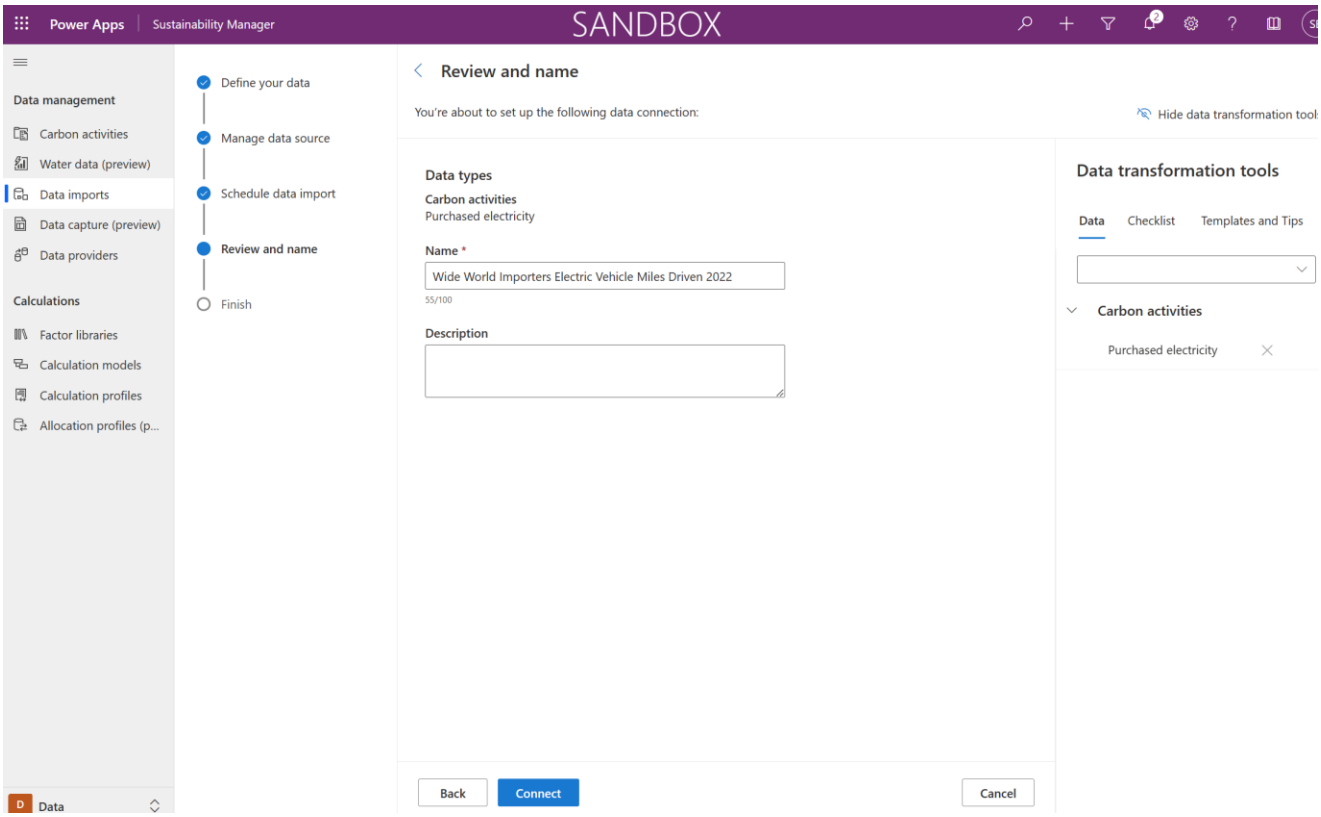


10. The “New data connection” wizard will now be on the Schedule data import page.
    - Turning on “Import data automatically” will give the option to set a schedule to have the data imported automatically, this may be a good option if the connector will be used in a scenario where the data will change 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.

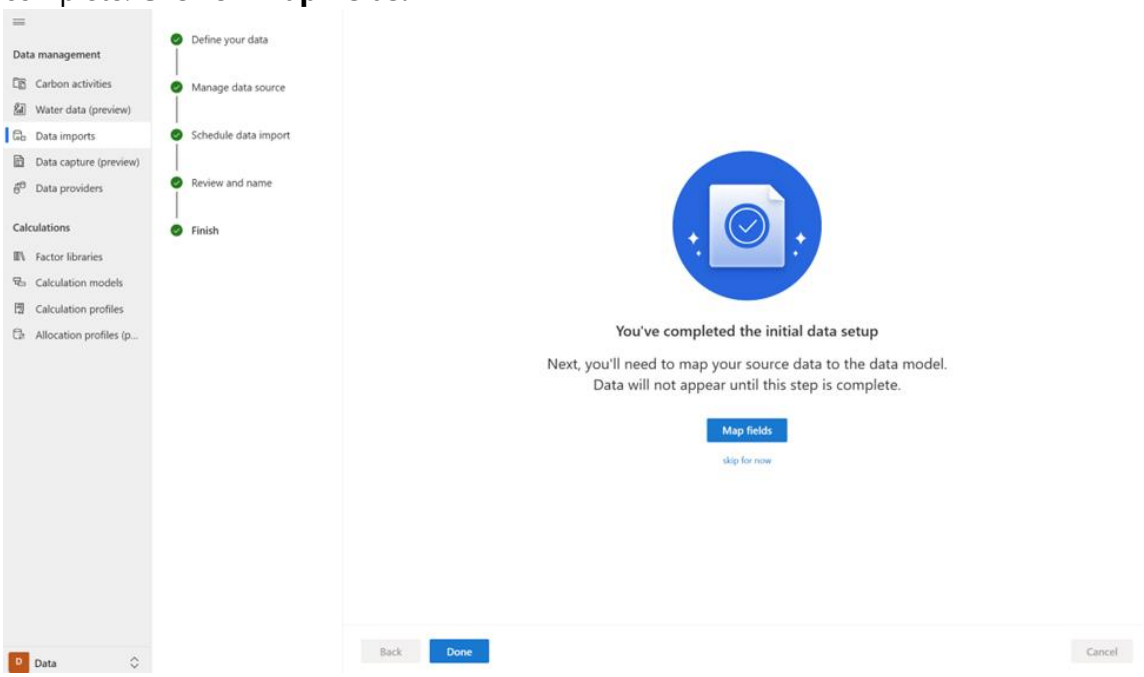
    For this scenario of importing historical data, leave both options turned off. **Click “Next”** when finished.



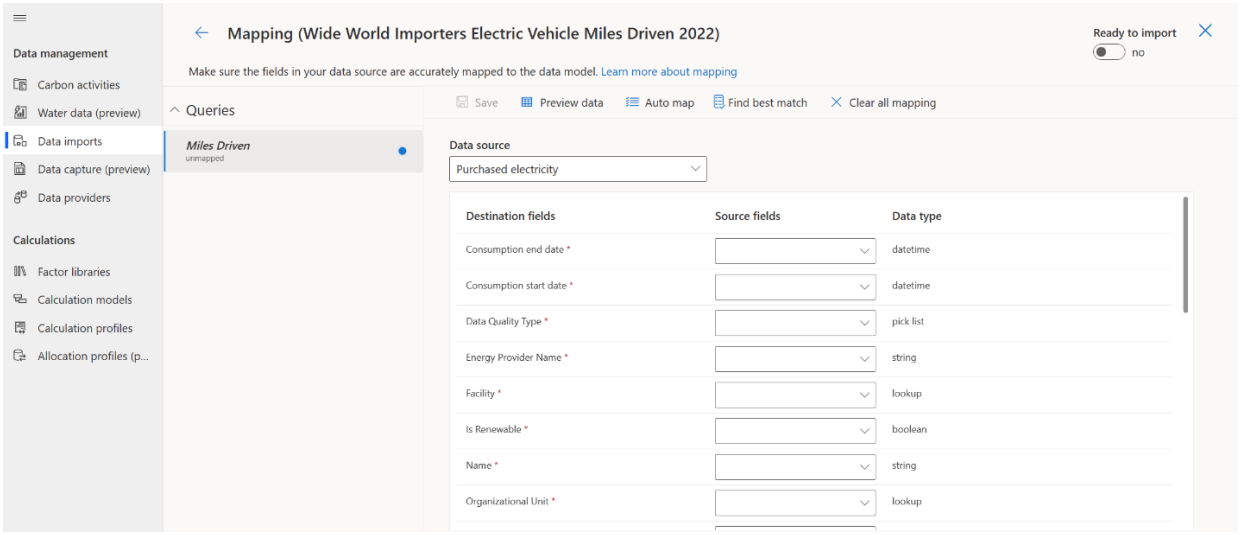
11. On the "Review and finish" page:
    a. Enter a name for the new connection, such as "**Wide World Importers Electric Vehicle Miles Driven 2022**."
    b. Click "**Connect**"



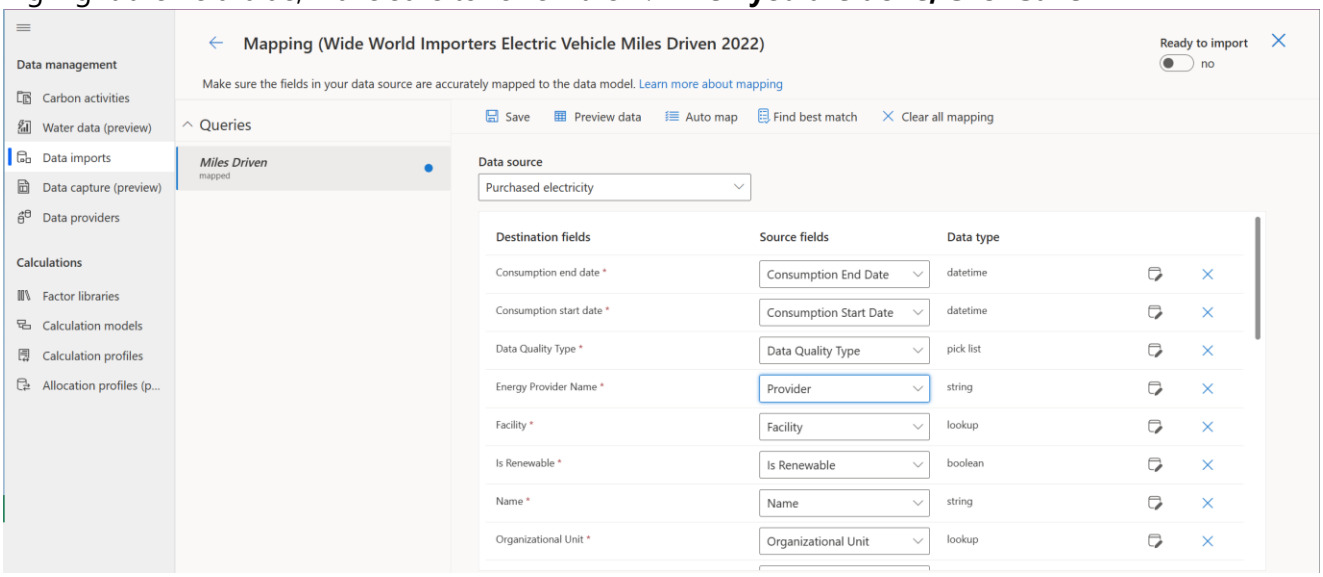
12. Next, you'll need to map your source data to the data model. Data will not appear until this step is complete. **Click on Map fields.**



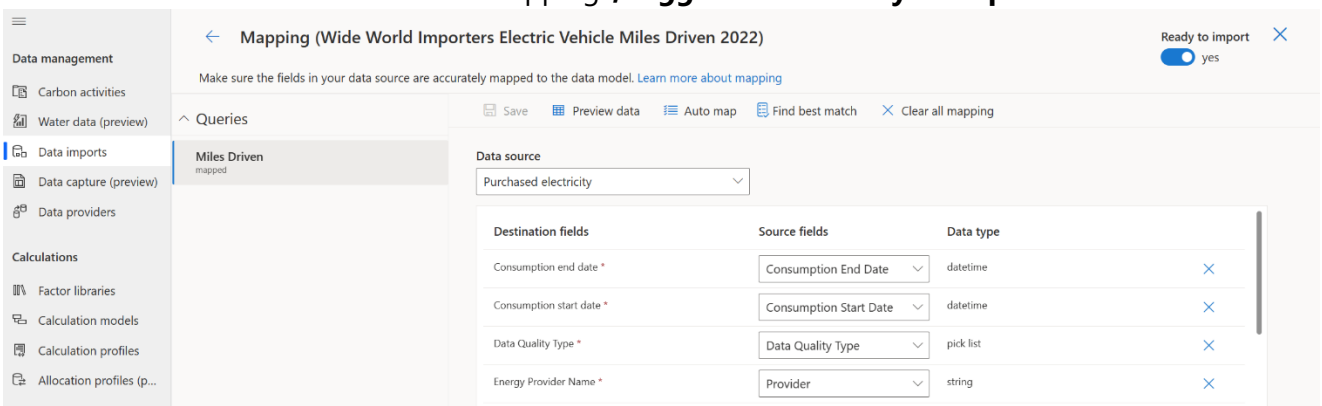
13. **Select the data source to map**, in this lab that is **Purchased electricity under Carbon Activities**



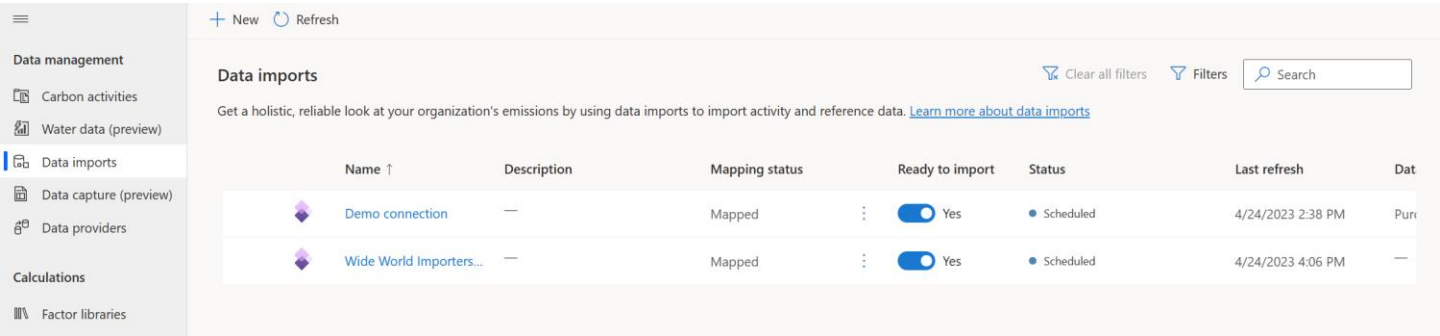
14. In this scenario, Reed will need to map the columns from the spreadsheet to the columns in Microsoft Sustainability Manager. **Select Auto Map** for the solution to automatically map the file's source fields with the destination fields, for any field that is not an exact match the best match will be found and highlight the field blue, make sure to review them. **When you are done, Click Save**



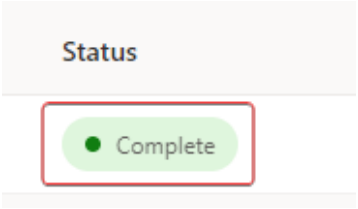
15. Now that we have reviewed our field mappings**, toggle Yes for ready to import**.



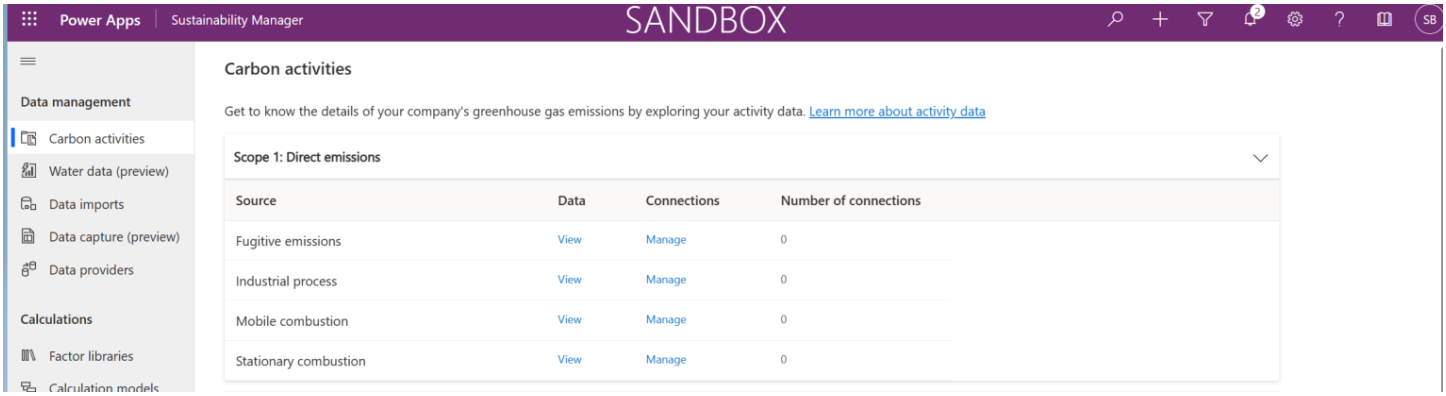
16. The **“Data Import”** job will be run, it should say **“Scheduled”** then in a moment switch to **“Processing”** you might need to refresh your page to see the change.



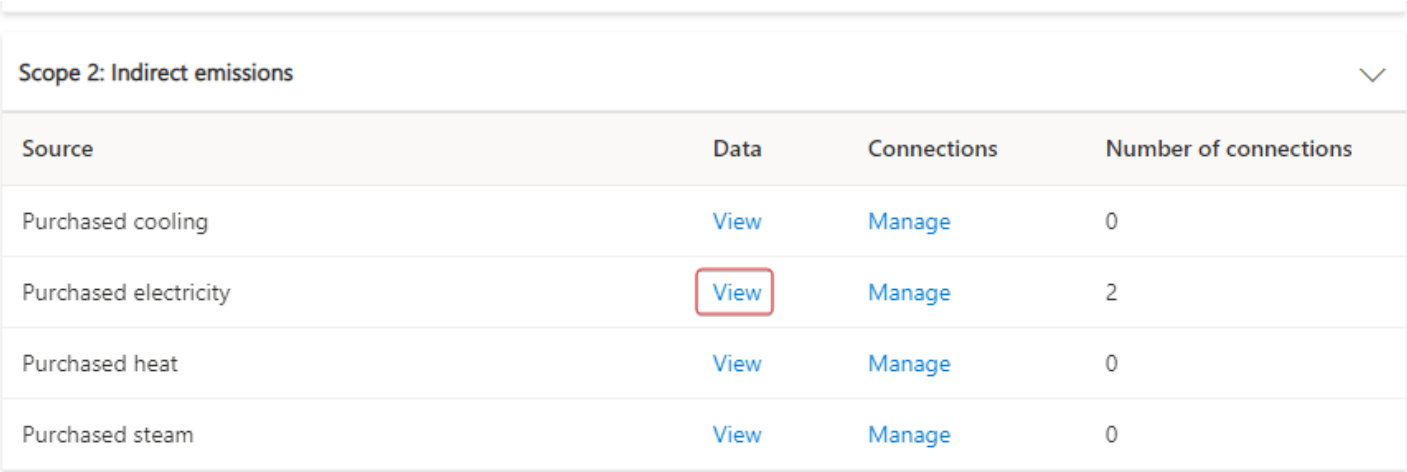
17. After a minute or two click the “**Refresh**” button above the list to see the updated status, which should be “**Completed**”. Ensure you have the correct number of records as below and the status of the data connections are **Complete** before moving to next steps.



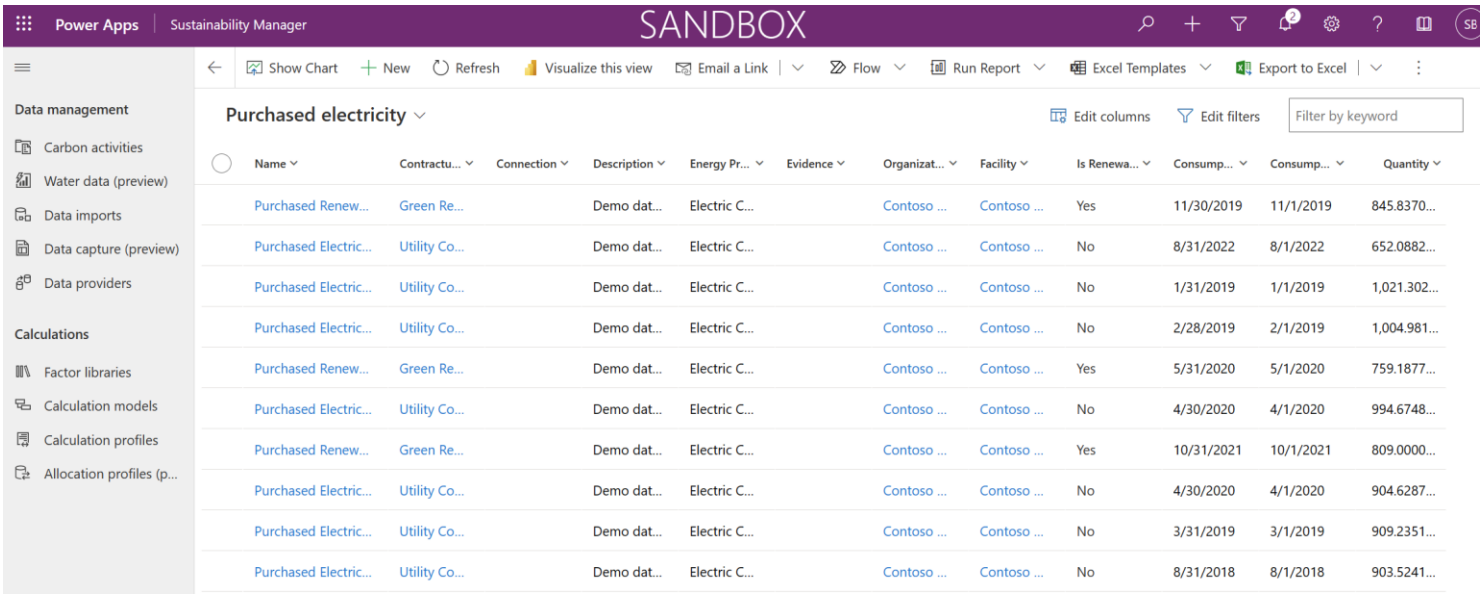
18. Navigate to “**Carbon activities data**” on the left side of the page.



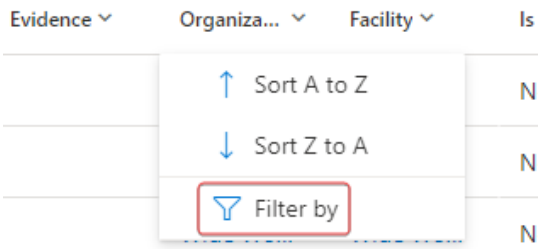
19. Find Purchased electricity in the Scope 2: Indirect emissions section, and click **View**



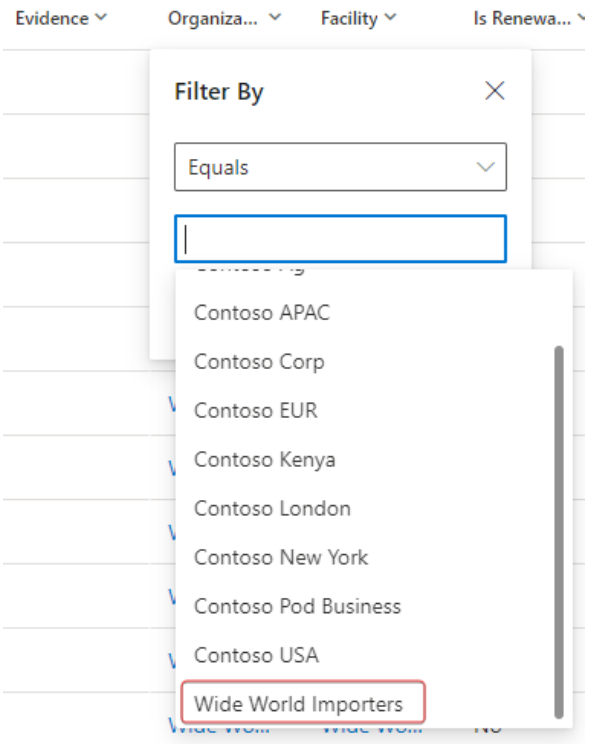
20. The Purchased electricity view shows all purchased electricity activity data that has been imported



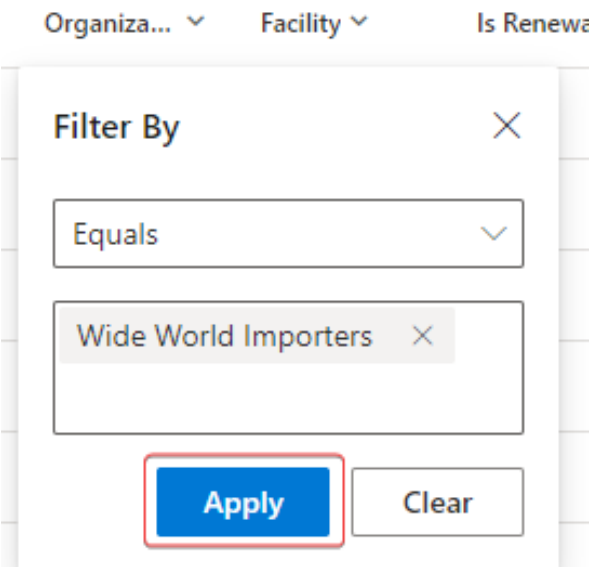
21. Filter the view by clicking the down arrow next to the **Organizational Unit** column, selecting **Filter by**



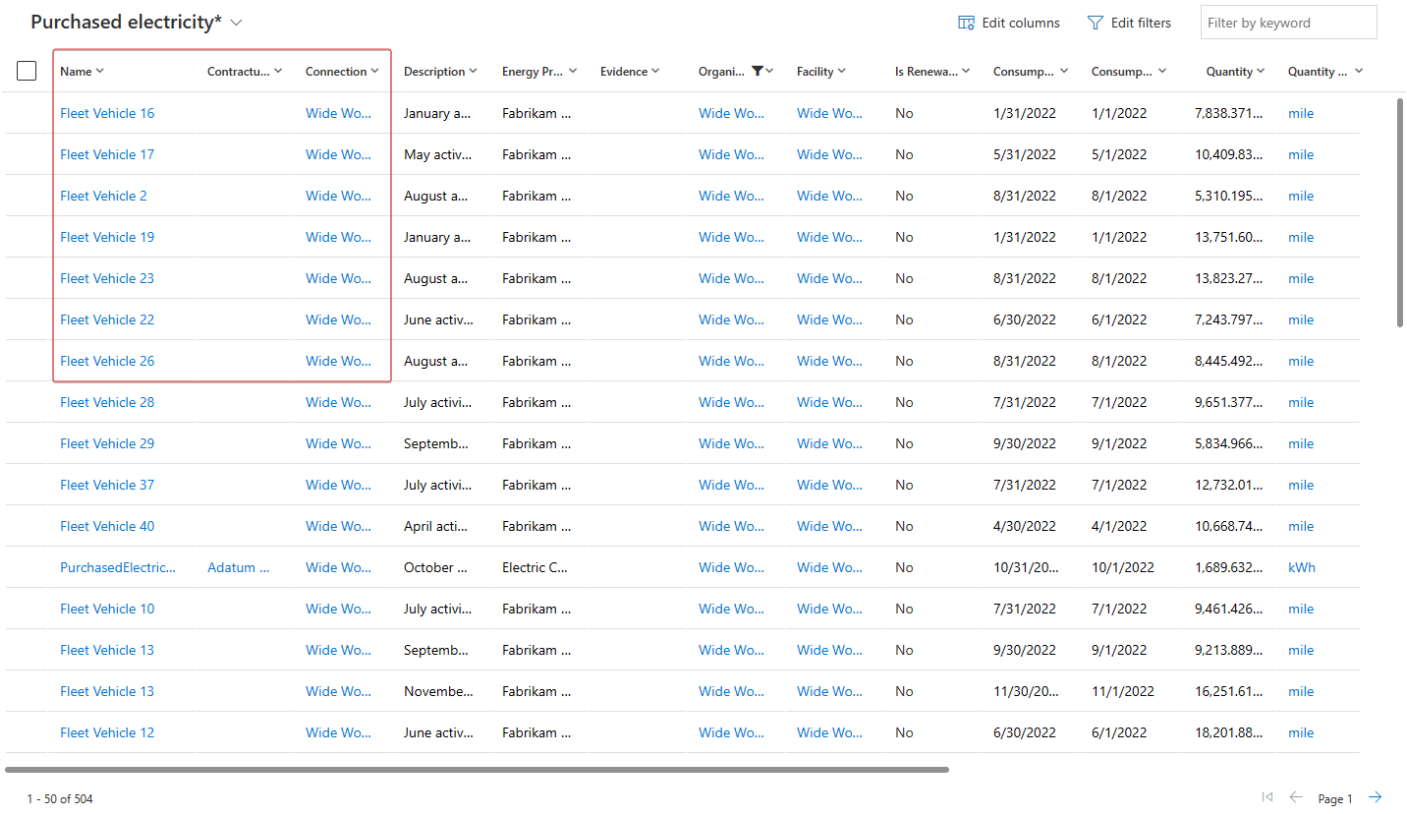
22. Select "**Wide World Importers**" from the Filter By dialog



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



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



Name	Contractu...	Connection	Description	Energy Pr...	Evidence	Organi...	Facility	Is Renewa...	Consump...	Consump...	Quantity	Quantity ...
Fleet Vehicle 16		Wide Wo...	January a...	Fabrikam ...		Wide Wo...	Wide Wo...	No	1/31/2022	1/1/2022	7,838.371...	mile
Fleet Vehicle 17		Wide Wo...	May activ...	Fabrikam ...		Wide Wo...	Wide Wo...	No	5/31/2022	5/1/2022	10,409.83...	mile
Fleet Vehicle 2		Wide Wo...	August a...	Fabrikam ...		Wide Wo...	Wide Wo...	No	8/31/2022	8/1/2022	5,310.195...	mile
Fleet Vehicle 19		Wide Wo...	January a...	Fabrikam ...		Wide Wo...	Wide Wo...	No	1/31/2022	1/1/2022	13,751.60...	mile
Fleet Vehicle 23		Wide Wo...	August a...	Fabrikam ...		Wide Wo...	Wide Wo...	No	8/31/2022	8/1/2022	13,823.27...	mile
Fleet Vehicle 22		Wide Wo...	June activ...	Fabrikam ...		Wide Wo...	Wide Wo...	No	6/30/2022	6/1/2022	7,243.797...	mile
Fleet Vehicle 26		Wide Wo...	August a...	Fabrikam ...		Wide Wo...	Wide Wo...	No	8/31/2022	8/1/2022	8,445.492...	mile
Fleet Vehicle 28		Wide Wo...	July activi...	Fabrikam ...		Wide Wo...	Wide Wo...	No	7/31/2022	7/1/2022	9,651.377...	mile
Fleet Vehicle 29		Wide Wo...	Septemb...	Fabrikam ...		Wide Wo...	Wide Wo...	No	9/30/2022	9/1/2022	5,834.966...	mile
Fleet Vehicle 37		Wide Wo...	July activi...	Fabrikam ...		Wide Wo...	Wide Wo...	No	7/31/2022	7/1/2022	12,732.01...	mile
Fleet Vehicle 40		Wide Wo...	April acti...	Fabrikam ...		Wide Wo...	Wide Wo...	No	4/30/2022	4/1/2022	10,668.74...	mile
PurchasedElectric...	Adatum ...	Wide Wo...	October ...	Electric C...		Wide Wo...	Wide Wo...	No	10/31/20...	10/1/2022	1,689.632...	kWh
Fleet Vehicle 10		Wide Wo...	July activi...	Fabrikam ...		Wide Wo...	Wide Wo...	No	7/31/2022	7/1/2022	9,461.426...	mile
Fleet Vehicle 13		Wide Wo...	Septemb...	Fabrikam ...		Wide Wo...	Wide Wo...	No	9/30/2022	9/1/2022	9,213.889...	mile
Fleet Vehicle 13		Wide Wo...	Novembe...	Fabrikam ...		Wide Wo...	Wide Wo...	No	11/30/20...	11/1/2022	16,251.61...	mile
Fleet Vehicle 12		Wide Wo...	June activ...	Fabrikam ...		Wide Wo...	Wide Wo...	No	6/30/2022	6/1/2022	18,201.88...	mile

Congratulations! You have just completed the data import for 2022 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.