

Open Data Guide

Importing and Using XML Data Files in Microsoft Excel

December 15, 2022

Working with XML Files

Part 1: Opening XML Files in MS Excel for Analysis

Shows you how to import locally-saved XML files into Excel to enable data analysis

• Uses 2.1.7 Balance Sheet as an example

Part 2: Creating a PivotTable with XML Data

Shows you how to create a PivotTable using the imported XML data

• Uses 2.1.7 Balance Sheet to reconstruct that section of the Yearbook

Part 3: Importing New/Updated XML Files

Shows you how to update an Excel file with a new version of the XML file

Part 4: Updating PivotTable(s) with New Data

Shows you how to refresh your PivotTable(s) using the new data from the new XML file

• Updates an existing 2015-2020 LEAP analysis with the addition of 2021 data as an example

Part 5: Connecting XML files in MS Excel with Power Query

Shows you how to access XML data in Excel using a URL

• Uses 2.1.7 Balance Sheet as an example



Part 1 Opening XML Files in MS Excel for Analysis



Electricity Reporting & Record Keeping Requirements (RRR): Section 2.1.7 Trial Balance

Description:

Provides data related to a distributor's balance sheet and income statement as well as trial balance data for all of the accounts (and sub-accounts as applicable) set out in the Accounting Procedures Handbook. Note that the star year for this data file is 2015.

URL:

Table 1: The first table provides a balance sheet view derived from the trial balance data.

https://www.oeb.ca/documents/opendata/rrr/2.1.7 Balance Sheet.xml

 Table 2: The second table contains an income statement view de
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 Table 3: The third table provides trial balance data for all of the Accounting Procedures Handbook.
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Open Data link: https://www.oeb.ca/open-data

Note: The start year for the data in the XML files is **2015** and they are updated annually.

For the purpose of this example, Electricity Reporting & Record Keeping Requirements (RRR): **Section 2.1.7 Trial Balance (Balance Sheet) will be used.**

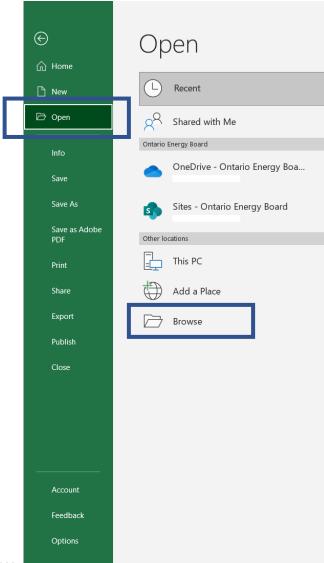
Step 1: Right-click on the XML link and select **Save link as...**



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Step 2: Save the XML in the desired folder. For this example, the XML file is saved in "Open Data Walkthrough."





Step 3: Open MS Excel. Click **Open** and then select **Browse** to locate the XML file in the desired folder.



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Step 4: Locate the XML file saved in Step 2. Click **Open** to import the XML file into Excel.



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Step 5: Select OK on both pop-up prompts.



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А	В	С	D	F	F
1 Company_Name				Inventory USofA 1305-1350	Inter-Company_Receivables_USofA_1200-1210 🔽 Other_Current
2 Alectra Utilities Corporation	2015	73302811.04	562548838.8	19509274.17	19137282.15
3 Alectra Utilities Corporation	2016	79495601.68	660483017	21051780.96	31317994.37
4 Alectra Utilities Corporation	2017	140218176.4	546376270.5	22115875.61	98096480.63
5 Alectra Utilities Corporation	2018	14234582.91	616535482.3	22636680.23	174426064.6
6 Alectra Utilities Corporation	2019	19601161.67	525018913.9	26568692.36	15646507.62
7 Alectra Utilities Corporation	2020	10282442.31	569318297.5	30866836.8	14066700.46
8 Alectra Utilities Corporation	2021	0	514741479.8	33538368.12	9206295.13
9 Algoma Power Inc.	2015	407099.29	6484797.05	55949.53	0
10 Algoma Power Inc.	2016	1024586.73	5335663.29	68783.78	0
11 Algoma Power Inc.	2017	811042.41	4458391.52	126117.16	0
12 Algoma Power Inc.	2018	633727.03	4675624.99	134288.73	0
13 Algoma Power Inc.	2019	404543.08	5525425.9	71273.97	0
14 Algoma Power Inc.	2020	1822126.81	6308590.18	52311.55	0
15 Algoma Power Inc.	2021	2717181.63	6785535.62	52821.47	0
16 Atikokan Hydro Inc.	2015	540927.94	921647.73	113968.29	0
17 Atikokan Hydro Inc.	2016	490449.92	924399.15	105866.65	0
18 Atikokan Hydro Inc.	2017	397813.31	823753.26	125468.33	0
19 Atikokan Hydro Inc.	2018	523303.38	752530.02	121074.42	0
20 Atikokan Hydro Inc.	2019	140011.08	814010.15	132610.57	0
21 Atikokan Hydro Inc.	2020	546959.18	677231.75	129631.63	0
 → Sheet1 (+) 				÷ 📢	

The 2.1.7 Trial Balance (Balance Sheet) XML file has been successfully opened using Excel.



Part 2 Creating a PivotTable with XML Data



Creating a PivotTable – Step 1

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1	Company_Name	💌 Year 💌 Cash_and_	Cash_Equivalents_USofA_1005-1070 🛛 🔽 Receiva
2	Alectra Utilities Corporation	2015	73302811.04
З	Alectra Utilities Corporation	2016	79495601.68
4	Alectra Utilities Corporation	2017	140218176.4
5	Alectra Utilities Corporation	2018	14234582.91
6	Alectra Utilities Corporation	2019	19601161.67
7	Alectra Utilities Corporation	2020	10282442.31
8	Alectra Utilities Corporation	2021	0

Step 1: Select any cell within the table range and select **PivotTable** under the **Insert** menu.



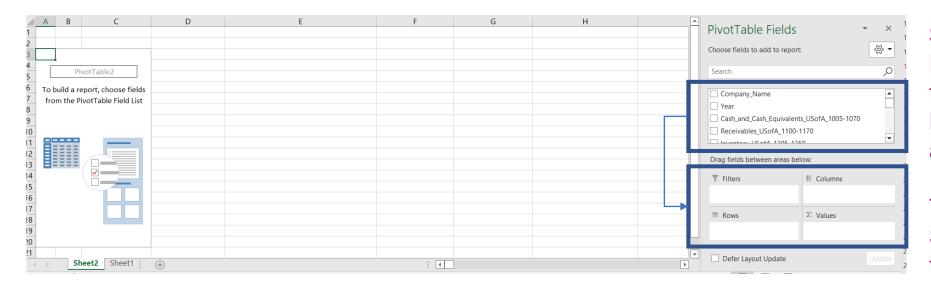
PivotTable fror	PivotTable from table or range							
Select a table or	range							
Table/Range: Table1								
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Step 2: Excel automatically selects the range of data for you. Please ensure that the whole data set is selected in the **Table/Range field.**

Click **OK** to continue.



Creating a PivotTable – Step 3



Step 3: To populate the PivotTable, drag and drop the data fields in either **Filters, Columns, Rows and Values.**

To replicate the Balance Sheet (Yearbook format), the user would place:

- 1) Company_Name in Columns
- 2) Year in Filters
- 3) The remaining fields in Values
- 4) ' Σ ' symbol in Rows



Creating a PivotTable – Step 4

Year	2020 -
	Column Labels
	Alectra Utilities Corporation
Sum of Current_Assets_Total_Cash_and_Cash_Equivalents_USofA_1005-1070	10,282,443
Sum of Current_Assets_Total_Receivables_USofA_1100-1170	569,318,29
Sum of Current_Assets_TotaLInventory_USofA_1305-1350	30,866,83
Sum of Current_Assets_TotaLInter-Company_Receivables_USofA_1200-1210	14,066,70
Sum of Current_Assets_Total_Other_Current_Assets_USofA_1180-1190_and_2290_Debit_and_2296_Debit	18,234,12
Sum of Current_Assets_Total	642,768,40
Sum of Net_Property_Plant_and_Equipment_Total_Property_Plant_and_Equipment_USofA_1606-2075	5,419,084,57;
Sum of Net_Property_Plant_and_Equipment_Total_Accumulated_Depreciation_and_Amortization_USofA_2105-2180	-1,027,424,35
Sum of Net_Property_Plant_and_Equipment_Total	4,391,660,22
Sum of Regulatory_Assets_USofA_1505-1595_and_2405_and_2425_Debit	100,692,14
Sum of Inter-Company_Investments_USofA_1480-1490	3,962,90
Sum of Other_Non-Current_Assets_USofA_1405-1475_and_1495_Debit_and_2350_Debit	116,165,36
Sum of Non-Current_Assets_Total	220,820,40
Sum of Total Assets	5,255,249,03
Sum of Current_Liabilities_TotaLAccounts_Payable_and_Accrued_Charges_USofA_2205-2220_and_2250-2256_and_2294	-459,557,12
Sum of Current_Liabilities_TotaLOther_Current_Liabilities_USofA_2264_and_2285_and_2290_Credit_and_2292_and_2296_Credit	
Sum of Current_Liabilities_TotaLInter-Company_Payables_USofA_2240_and_2242	-376,562,36
Sum of Current_Liabilities_TotaLLoans_Notes_Payable_and_Current_Portion_of_Long-	
Term_Debt_USofA_2225_and_2260_and_2268_and_2270_and_2272	-112,116,55
Sum of Current_Liabilities_Total	-954,626,36
Sum of Non-Current_Liabilities_TotaLLong-Term_Debt_USofA_2505-2525	-95,000,00
Sum of Non-Current_Liabilities_Total_Inter-Company_Long-Term_Debt_and_Advances_USofA_2530_and_2550	-1,662,727,62
Sum of Non-Current_Liabilities_Total_Regulatory_Liabilities_USofA_15051595_and_2405_and_2425_Credit	-49,775,75
Sum of Non-	
Current_Liabilities_Total_Other_Deferred_Amounts_and_Customer_Deposits_USofA_2305_and_2308_and_2310_and_2315-	
2348 and 2410 and 2415 and 2435 and 2440	-487.068.97
Sum of Non-Current_Liabilities_Total_Employee_Future_Benefits_USofA_2265_and_2306_and_2312_and_2313	-103,928,87
Sum of Deferred. Taxes. USofA. 1495. and. 2350. Credit	-82,920,83
Sum of Non-Current Liabilities Total	-2,481,422,05
Sum of Total Liabilities	-3.436.048.42
Sum of Shareholders_Equity_USofA_3005-3090	-1,819,200,60
Sum of Liabilities & Shareholders' Equity	-5.255.249.03

Open Data Version

Balance Sheet as of December 31	Alectra Utilities Corporation	A
	\$	Г
Cash & Cash Equivalents	10,282,442	
Receivables	569,318,297	
Inventory	30,866,837	
Inter-company receivables	14,066,700	
Other current assets	18,234,126	-
Current assets	642,768,403	
Property, Plant & Equipment	5,419,084,572	
Acc. Depreciation & Amortization	(1,027,424,351)	_
Net PP&E	4,391,660,221	
Regulatory assets	100,692,141	
Inter-company investments	3,962,900	
Other non-current assets	116,165,364	
Total Assets	5,255,249,030	
		İ
A/P & Accrued Charges	459,557,129	
Other current liabilities	6,390,312	
Inter-company payables	376,562,366	
Loans/Notes Payable & Current Portion of	112,116,559	
Long-Term Debt Current liabilities	954,626,366	-
	05.000.000	
Long-term debt	95,000,000	
Inter-company Long-Term Debt and Advances	1,662,727,627	
Regulatory liabilities	49,775,756	
Other Deferred Amounts and Customer Deposits	487,068,970	
Employee future benefits Deferred taxes	103,928,875 82,920,831	
Total Liabilities		-
LOTAL LIADUITIES	3,436,048,425	
Shareholder's Equity	1,819,200,604	L .

Yearbook View (2020)



Part 3 Importing New/Updated XML files



Importing New/Updated XML Files

- The data in the XML files will naturally change over time due to:
 - Mergers, Acquisitions, Amalgamations, Divestitures (MAADs)
 - Data Revision Requests (DRRs)
 - New year of RRR filings
 - New or revised data points in RRR (note: this may result in changes to the schema)
- OEB staff will update the files as needed throughout the year to accommodate MAADs and DRRs
 - "Last Updated Date" will be indicated on each open data webpage Update Frequency: Annually (Last updated: November 14, 2022)
- Each new year of RRR submissions will be added to the existing XML for all sections except 2.1.7 Trial Balance
 - Due to size limitations there are individual XMLs for each year of 2.1.7, but OEB staff have posted an Excel file to consolidate all years of 2.1.7 data in a single file
- New/updated XMLs need to be linked to existing analysis to see changes in the data



Refreshing Without First Importing New/Updated File – ERROR

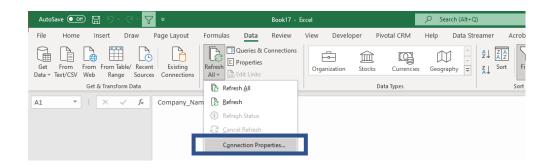
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Error

If the end user attempts to refresh the source of the data by clicking **'Refresh All'** (raw data sheet), the system will show 'XML Import Error' (as shown on the screenshot in the bottom left corner).





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2.1.7 Income Sta	atement Analysis		
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Like in <u>Part 1</u>, users will need to download and import the latest version of the XML file from <u>https://www.oeb.ca/open-data</u>

Step 1: To link an existing analysis to the New/Updated XML file to access the newly added (e.g., a new year of RRR filings) or updated (e.g., MAADs) data:

- From the Refresh All dropdown menu, select
 Connection Properties
- Select **Definition** → **Browse**
- Select the new / updated XML file that was saved from the Open Data webpage
- Select **OK**



Importing New/Updated XML Files – Step 2

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 Quick access Desktop Downloads Documents Pictures 1. First Email 2. Second Email Open Data Related Docs PowerBl Version Microsoft Excel OneDrive - Ontario Energy Board This PC 3D Objects Desktop Documents Documents Documents Documents Music Nusic 	 Name 2.1.7 Balance Sheet 	Status Date mor	modified Type 11-22 9:25 AM XML Document	Size 1,270 KB		Step 2: Select the XML file that was saved in the desired folder. Select Open .
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Importing New/Updated XML Files – Step 3

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Check: If the folder path points to the data file that was selected in Step 2, then the user has successfully updated the data link.

The 'XML Import Error' message should no longer be displayed when **Refresh All** is selected.



Part 4 Updating PivotTable(s) with New Data



Sum of	Overall_Avg_Grant_per_Assisted_Applicant_in_Dollars Column Labels	
Row La	bels Alectra Utilities Corporation	Algoma Power Inc.
2015	400.78	480.08
2016	409.42	496.56
2017	415.39	501.58
2018	450.61	492.48
2019	451.39	506.22
2020	494.35	556.93
Grand	Total 2621.94	3033.85

Example

Previous analysis was done using the XML with **LEAP data** for **2015 to 2020**. We want to **update** the analysis using the newest XML which now contains data for **2021**.

Step 1: Download and import the new XML file (See <u>Part 3</u>).



Updating PivotTable(s) with New Data – Step 2

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Step 2: Select Refresh All from the "Queries & Connections" menu to update your PivotTable with data from the newly connected XML file.

All previous data will be overwritten with what is in the new XMI file:

- If no revision requests were submitted by distributors, • the only change you'll see is a new year of data added
- If revision requests were submitted, then some historical data may change
- Some distributors may also "disappear" if MAAD • applications have been processed



Updating PivotTable(s) with New Data – Step 3

	Sum of Overall	_Avg_Grant_per_Assisted_Applicant_in_Dollars	Column Labels]	
	Row Labels		Alectra Utilities Corporation	Algoma Power Inc.	Atikokan Hydro Inc.
	2015		400.78	480.08	575
	2016		409.42	496.56	475.3
	2017		415.39	501.58	352.3
	2018		450.61	492.48	492.0
	2019		451.39	506.22	60
The wiret table	2020		494.35	556.93	60
The pivot table	Grand Total		2621.94	3033.85	3094.6
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the additional 2021 data, which confirms that the	Sum of Overall_	Avg_Grant_per_Assisted_Applicant_in_Dollars	Column Labels 🔻		
2021 data, which confirms that the	Sum of Overall_ Row Labels		Column Labels 🔹 Alectra Utilities Corporation	Algoma Power Inc.	Atikokan Hydro Inc.
2021 data, which confirms that the analysis has				Algoma Power Inc. 480.08	
2021 data, which confirms that the analysis has	Row Labels		Alectra Utilities Corporation	_	57
2021 data, which confirms that the analysis has	Row Labels		Alectra Utilities Corporation 400.78	480.08	575 475.3
2021 data, which confirms that the analysis has	Row Labels 2015 2016		Alectra Utilities Corporation 400.78 409.42	480.08 496.56	57 475.3 352.3
2021 data, which confirms that the analysis has	Row Labels 2015 2016 2017		Alectra Utilities Corporation 400.78 409.42 415.39	480.08 496.56 501.58	575 475.3 352.3 492.0
2021 data, which confirms that the analysis has	Row Labels 2015 2016 2017 2018		Alectra Utilities Corporation 400.78 409.42 415.39 450.61	480.08 496.56 501.58 492.48	57: 475.3 352.3 492.0 600
	Row Labels 2015 2016 2017 2018 2019		Alectra Utilities Corporation 400.78 409.42 415.39 450.61 451.39	480.08 496.56 501.58 492.48 506.22	Atikokan Hydro Inc. 575 475.37 352.31 492.01 600 552.34



Part 5 Connecting XML File to **MS Excel for Analysis** (with Power Query)



Electricity Reporting & Record Keeping Requirements (RRR): Section 2.1.7 Trial Balance

Description:

Provides data related to a distributor's balance sheet and income statement as well as trial balance data for all of the accounts (and sub-accounts as applicable) set out in the Accounting Procedures Handbook. Note that the star year for this data file is 2015.

URL:

Table 1: The first table provides a balance sheet view derived from the trial balance data.

https://www.oeb.ca/documents/opendata/rrr/2.1.7 Balance Sheet.xml

	Open link in new tab
	Open link in new window
Table 2: The second table contains an income statement view de	Open link in incognito window
https://www.oeb.ca/documents/opendata/rrr/2.1.7 Income Sta	Save link as
	Copy link address
Table 3: The third table provides trial balance data for all of the a	Adobe Acrobat: PDF edit, convert, sign tools + pplicable) set out
the Accounting Procedures Handbook.	Inspect
Note: Some files are large and are best viewed in a data applicat	ion. Right-click and download the files to your

Connecting the XML data file using a web URL is an alternative to the approach outlined in Part 1. This approach allows for an active connection to the XML file published on the OEB Open Data webpage.

For the purpose of this example, Electricity Reporting & Record Keeping Requirements (RRR): **Section 2.1.7 Trial Balance (Balance Sheet) will be used.**

Step 1: Right-click on the XML link and select **Copy link address...**



Connecting XML File to MS Excel with Power Query – Step 2

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From Web

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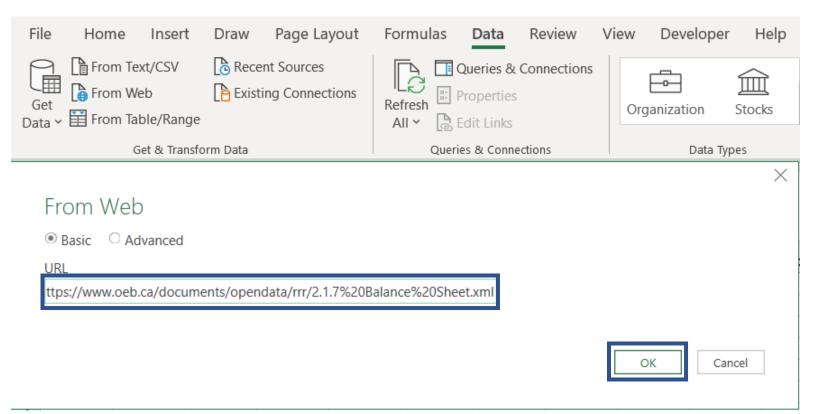
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8	Send to OneNote	
9	Select all	

Step 2: In a new MS Excel window, select the **From Web** option under the "Get & Transform Data" menu.

In the new pop-up window, right-click in the URL input field and select **Paste**.



Connecting XML File to MS Excel with Power Query – Step 3



Step 3: Confirm that the copied web address is pasted into the URL input field and select **OK**.



Connecting XML File to MS Excel with Power Query – Step 4

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Navigator

Select multiple items

Display Options 🔻

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Company_Name	Year	Cash_and_Cash_Equivalents_USofA_1005-1070
Alectra Utilities Corporation	2015	73302811.04
Alectra Utilities Corporation	2016	79495601.68
Alectra Utilities Corporation	2017	140218176.4
Alectra Utilities Corporation	2018	14234582.93
Alectra Utilities Corporation	2019	19601161.67
Alectra Utilities Corporation	2020	10282442.3
Alectra Utilities Corporation	2021	
Algoma Power Inc.	2015	407099.25
Algoma Power Inc.	2016	1024586.73
Algoma Power Inc.	2017	811042.41
Algoma Power Inc.	2018	633727.03
Algoma Power Inc.	2019	404543.08
Algoma Power Inc.	2020	1822126.83
Algoma Power Inc.	2021	2717181.65
Atikokan Hydro Inc.	2015	540927.94
Atikokan Hydro Inc.	2016	490449.92
Atikokan Hydro Inc.	2017	397813.3

1 The data in the preview has been truncated due to size limits.

Step 4: In the Navigator window, select the data table shown in the left-side menu.

A preview of the data table will be displayed. Select **Load**.

Note: Selecting **Transform Data** will open the Power Query Editor window. This tool is beyond the scope of the workshop, but an abundance of reference material is readily available through an online search.



Transform Data

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Connecting XML File to MS Excel with Power Query – Step 5

Inquire

ACROBAT

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Power Pivot Table Design

Query

The 2.1.7 Trial Balance (Balance Sheet) XML file has been successfully loaded using Power Query.

To update an existing analysis with a new XML data file, select **Refresh All** from the "Queries & Connections" menu to update your data table and PivotTable with the latest data. The steps outlined in Part 3 are NOT required.



	A	В	С	D	E
1	Company_Name	💌 Year 💌	Cash_and_Cash_Equivalents_USofA_1005-1070 🔽	Receivables_USofA_1100-1170	Inventory_USofA_1305-1350 🔽
2	Alectra Utilities Corporation	2015	73302811.04	562548838.8	19509274.17
3	Alectra Utilities Corporation	2016	79495601.68	660483017	21051780.96
4	Alectra Utilities Corporation	2017	140218176.4	546376270.5	22115875.61
5	Alectra Utilities Corporation	2018	14234582.91	616535482.3	22636680.23
6	Alectra Utilities Corporation	2019	19601161.67	525018913.9	26568692.36
7	Alectra Utilities Corporation	2020	10282442.31	569318297.5	30866836.8
8	Alectra Utilities Corporation	2021	0	514741479.8	33538368.12
9	Algoma Power Inc.	2015	407099.29	6484797.05	55949.53
10	Algoma Power Inc.	2016	1024586.73	5335663.29	68783.78
11	Algoma Power Inc.	2017	811042.41	4458391.52	126117.16
12	Algoma Power Inc.	2018	633727.03	4675624.99	134288.73
13	Algoma Power Inc.	2019	404543.08	5525425.9	71273.97
14	Algoma Power Inc.	2020	1822126.81	6308590.18	52311.55
15	Algoma Power Inc.	2021	2717181.63	6785535.62	52821.47

Developer

Help

Data Review View

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