Training Report

Training on Power BI for Climate and Energy Data Visualization

CBIT Maldives







Training Report

Training on Power BI for Climate and Energy Data Visualization

CBIT MALDIVES







Capacity Strengthening for Improved Transparency of Climate Change Mitigation and Adaptation Actions in the Maldives Project (CBIT Maldives)





This document was developed under the project "Capacity Strengthening for Improved Transparency of Climate Change Mitigation and Adaptation Actions in the Maldives (CBIT Maldives)", financed by the Global Environment Facility (GEF).

The project is executed by the Ministry of Tourism and Environment, with implementation support from the United Nations Environment Programme (UN Environment).

June 2025

Training Conducted by:





Citation:

MOTE, (2025). Training on Power BI for Climate and Energy Data Visualization: Ministry of Tourism and Environment.

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Executive Summary

The Ministry of Tourism and Environment (MOTE), under the Capacity Building Initiative for Transparency (CBIT) Project of Maldives, conducted a training workshop titled "Power BI for Climate and Energy Data Visualization" on 26 May 2025 at Meeruma, Malé. The training was held as part of Deliverable 2.1.6, which focuses on conducting short-term capacity-building activities in energy statistics and modelling tools.

The training aimed to strengthen institutional capabilities in analyzing and visualizing climate and energy-related data using Microsoft Power BI. Delivered by Riyan Private Limited in collaboration with Grant Thornton Bharat LLP, the session combined theoretical instruction with hands-on exercises. Participants learned to navigate Power BI, connect to external data sources, perform data cleaning, and build interactive dashboards.

A total of 38 participants (18 male, 20 female) attended the workshop, representing a wide range of public and private institutions, including technical departments within the Ministry, regulatory agencies, utilities, and academic institutions.

Certificates of Completion were awarded to all participants who successfully completed the training. The certificates were distributed by H.E. Ibrahim Mimrah, Minister of State for Tourism and Environment, during the closing ceremony.

1. Introduction

The Capacity Building Initiative for Transparency (CBIT) Project of Maldives aims to strengthen institutional capacity for tracking mitigation and adaptation actions and for establishing a national climate finance tracking system. The project supports the development and enhancement of a robust national transparency system in line with the Enhanced Transparency Framework (ETF) of the Paris Agreement. It is funded by the Global Environment Facility (GEF) with technical assistance from the United Nations Environment Programme (UN Environment).

As part of its activities under Deliverable 2.1.6, the project conducted a one-day national training workshop on "Power BI for Climate and Energy Data Visualization" on 26 May 2025 at Meeruma, Malé. The training was organized in collaboration with Riyan Private Limited and Grant Thornton Bharat LLP, as part of the consultancy supporting the development of systems for tracking mitigation actions.

The training was designed to equip participants with practical skills in using Microsoft Power BI to analyze, visualize, and interpret climate and energy data.

2. Objectives of the Training

The objective of this training was to equip participants with practical skills to effectively use Power BI for climate and energy-related data analysis. Through structured sessions, participants learned to navigate the Power BI interface, utilize key tools and functions, connect to external data sources such as Excel and databases, and design interactive dashboards.

The training also enhanced participants' ability to interpret and present energy statistics, supporting more transparent, data-driven decision-making aligned with national climate reporting requirements under the Enhanced Transparency Framework (ETF) of the Paris Agreement.

3. Participants

The opportunity to participate in the training was publicly announced on 11 May 2025, and the training was held on 26 May 2025 at Meeruma, Malé, Maldives.

A total of 38 participants — 18 male and 20 female — attended the workshop. Participants included representatives from the Climate Change Department, Energy Department, Waste and Pollution Control Department, Air Quality Unit, and Ozone Unit of the Ministry of Tourism and Environment. Other participating institutions included the Environment Protection Agency (EPA), Ministry of Transport and Civil Aviation, Maldives Bureau of Statistics, Utility Regulatory Authority (URA), WAMCO, STELCO, MWSC, State Trading Organization (STO), Maldives Airports Company Limited (MACL), Maldives Ports Limited (MPL), and Maldives National University (MNU).

The full list of attendees is included in Annex 2.

4. Training Content and Delivery

The training was structured as a one-day intensive session focused on the practical application of Microsoft Power BI for analyzing and visualizing climate and energy-related data. The workshop combined theoretical instruction with practical exercises to ensure participants could confidently apply Power BI in their professional roles related to data reporting, climate transparency, and energy statistics.

The sessions were delivered in English by facilitators from Riyan Private Limited, in collaboration with Grant Thornton Bharat LLP, under the consultancy supporting tracking mechanisms for mitigation actions as part of the CBIT Maldives Project.

The training content covered the following core areas:

- Introduction to the Power BI interface and its applications in climate data analysis
- Importing datasets from Excel and CSV formats and understanding data source integration
- Data cleaning, transformation, and preparation techniques
- Visualizing datasets using graphs, charts, and basic formatting tools
- Designing interactive dashboards with features such as slicers and drill-through functionality
- Publishing and sharing Power BI reports
- A case study session where participants developed dashboards using national energy data

All presentations, exercises, and supporting materials are provided in Annexes 4 and 5 to enable continued learning and reference beyond the training session.

5. Key Highlights

This training contributed directly to Deliverable 2.1.6 of the CBIT Maldives Project by serving as a short-term capacity-building activity focused on basic energy statistics and data visualization. Participants gained practical skills in using Microsoft Power BI to manage, analyze, and present climate and energy-related data, enhancing their capacity to support national climate reporting and data-driven policy planning.

To recognize successful completion, a Certificate of Completion was awarded to all participants who fully attended the training. The certificates were awarded to participants by H.E. Ibrahim Mimrah, Minister of State for Tourism and Environment, during the closing ceremony of the training.

Annex 1: Training Agenda



Ministry of Tourism and Environment

Republic of Maldives

Training on Power BI for Climate and Energy Data Visualization

Date: 26 May 2025 | Venue: Meeruma

Overview and objectives of the training

Power BI is a powerful analytics and data visualization tool designed to transform raw data into interactive insights. This training will introduce the participants to Power BI software.

The objective of this training is to equip participants with practical skills to effectively use Power BI for climate and energy-related data analysis. Through structured sessions, participants will learn to navigate the Power BI interface, utilize key tools and functions, connect to external data sources such as Excel and databases, and design interactive dashboards. The training will also enhance participants' ability to interpret and present energy statistics, supporting more transparent, data-driven decision-making aligned with national climate reporting requirements.

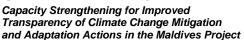
The training is part of the broader Capacity Strengthening for Improved Transparency of Climate Change Mitigation and Adaptation Actions in the Maldives (CBIT Maldives) project, funded by the Global Environment Facility (GEF) and supported by UN Environment.

The training is targeted at professionals involved in energy data management, climate change mitigation, energy planning, GHG inventory development, or tracking Nationally Determined Contributions (NDCs). Participants should ideally have a background in energy, environment, or related fields.

The training will be conducted by Riyan Private Limited in association with Grant Thornton Bharat LLP under the consultancy to develop tracking support for mitigation actions.

The training will be provided in English and will include presentations on methodologies, hands-on exercises, software demonstrations, and interactive sessions to ensure comprehensive learning. Participants who complete all sessions will receive a certificate of participation.









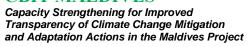




Agenda

8:45 am - 9:00 am	Participants Arrival and Pogistration		
8.45 am = 9.00 am	Participants Arrival and Registration		
09:00 am - 09:10 am	Opening Ceremony		
09:10 am - 09:25 am	Group photo and Tea / Coffee break		
09:25 am - 09:35 am	Aims and objective of the training and importance of Power BI Climate Change Mitigation and Adaptation Actions		
09:35 am - 09:45 am	Introduction of participants		
09:45 am - 10:00 am	Pre-training assessment to understand participants expectations (in Mentimeter)		
10:00 am - 10:45 am	Introduction to the Power BI		
	Understanding the interface of the power BI		
	Importing the data from excel, CSV files		
10:45 am – 12:00 pm	Understanding the data and basic cleaning process		
	Preparation of the graphs and basic formatting with hands-on activity		
12:00 pm - 01:00 pm	Lunch Break		
01:00 pm - 02:00 pm	Understanding the requirement of the dashboard development		
	Practising the development of dashboard, conditional formatting, slicers and drill through		
	Publishing the Power BI report with hands-on activity		
02:00 pm - 02:45 pm	Case study for practice – Preparation of the dashboard using the data set		
02:45 pm - 03:15 pm	Question and Answers		
03:15 pm - 03:30 pm	Post-training assessment (in Mentimeter)		
03:30 pm - 04:00 pm	n Closing Ceremony		
	Certificate Distribution		
	Closing Remarks		
04:00 pm	Tea		

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Background of the CBIT Maldives Project

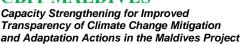
Anthropogenic climate change is widely accepted as the most significant environmental challenge faced by the world in the 21st century. The Fifth Assessment Report (AR5) (2014) and the Global Warming at 1.5 °C (2018) special report by the Intergovernmental Panel on Climate Change (IPCC) confirm that climate change is an existential threat for low lying coral islands like Maldives. The Maldives is one of the most vulnerable countries for adverse impacts of global climate change.

Maldives' Nationally Determined Contribution (NDC) highlights food security, critical infrastructure, public health, water security, coastal protection, and coral reef biodiversity as key vulnerabilities of the country. In addition to these vulnerabilities, Maldives, like other Small Island Developing States (SIDS), face specific developmental challenges. They include high transportation and logistical costs, exploitation of natural resources, poor management of waste and pollution, and a small population leading to unsustainable economies of scale for different development agendas.

The 21st Conference of the Parties (COP21) was a key milestone for the international climate negotiations due to adoption of the Paris Agreement (PA), which came into force in 2016. Maldives was among the first countries to sign and ratify the PA in April 2016. One of the unique aspects of the PA is the contribution of both Annex 1 Parties and non-Annex 1 Parties in climate change mitigation and adaptation efforts in the form of NDCs. Article 13 of the PA outlines the transparency framework relating to the transparency of action and support. The main purpose of the transparency framework is to improve mutual accountability amongst the Parties in terms of their efforts for emissions reduction, adaptation efforts and support needed and received for addressing climate change.

Despite being a country with very limited emissions, the Maldives is committed to support the temperature goal of the PA. Maldives' submitted a very ambitious updated Nationally Determined Contributions (updated NDC) in October 2020. Maldives aims to achieve net zero emissions by 2030, on condition that extensive support is received. Even if the required support is not received, Maldives has committed to reduce its BAU emissions by 26%.













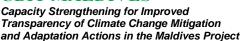
Parties to the United Nations Framework Convention on Climate Change (UNFCCC) agreed on the Katowice climate package during the 24th Conference of the Parties (COP24) held in Katowice on December 2018. The Katowice climate package included eight guiding principles for the modalities, procedures and guidelines (MPGs) of the Enhanced Transparency Framework (ETF) under the PA, these include 1) Building on and enhancing the transparency arrangements under the Convention, recognizing the special circumstances of the Least Developed Countries (LDCs) and Small Island Developing States (SIDS), and implementing the transparency framework in a facilitative, non-intrusive, non-punitive manner, respecting national sovereignty and avoiding placing undue burden on Parties; 2) The importance of facilitating improved reporting and transparency over time; 3) Providing flexibility to those developing country Parties that need it in the light of their capacities; 4) Promoting transparency, accuracy, completeness, consistency and comparability; 5) Avoiding duplication of work and undue burden on Parties and the secretariat; 6) Ensuring that Parties maintain at least the frequency and quality of reporting in accordance with their respective obligations under the Convention; 7) Ensuring that double counting is avoided; and 8) Ensuring environmental integrity. Furthermore, the ETF requires all Parties to compile national greenhouse gas (GHG) inventories and to report on the implementation of mitigation actions (tracking of NDC implementation) on a regular basis.

The Maldives is committed to meet the requirements of the ETF, despite of the flexibility provided for SIDS. There is need, therefore, for the Maldives to (i) establish a permanent institutional arrangement for GHG inventory compilation and tracking of NDC commitments, (ii) develop a centralized climate data management system for GHG data, tracking of mitigation actions, adaptation actions and support received and needed and (iii) develop tools and train experts to meet the enhanced transparency framework under the Paris Agreement.

This CBIT project has been developed with the objective of strengthening institutional capacity for tracking mitigation and adaptation actions and establishing climate finance tracking system in the Maldives. It aims to establish and enhance the Maldives' transparency system, in line with ETF of the PA. To achieve this objective, the following efforts are needed:

- (i) strengthening and formalizing long-term institutional arrangements;
- (ii) systemizing data collection and processing;













developing indicators and advancing methodologies, as well as improving the overall (iii) data quality and management procedures, for preparing GHG inventories, tracking mitigation and adaptation actions and climate finance in an integrated manner. The final goal is to inform the national decision-making process as well as regularly report to the UNFCCC process.

The project includes two components:

- Component 1: The Maldives' National Greenhouse Gas (GHG) Inventory System improved.
- Component 2: The Maldives' Transparency Framework for mitigation and adaptation actions and resilience building, including tracking support for implementation.

Component 1 is designed to enable Maldives to meet the GHG inventory reporting requirements under the Modalities, Procedures and Guidelines (MPGs) outlined under the ETF of PA. Particularly, Chapter II of the MPGs contained in the annex of decision 18/CMA.1. Component 2 is designed to meet the NDC tracking requirements of MPGs and both components are aimed to enable Maldives to submit the Biennial Transparency Reports (BTRs) in a timely and regular manner.







Annex 2: List of Participants



Training on Power BI for Climate and Energy Data Visualization

Date: 26 May 2025 | Venue: Meeruma

Morning Session

No	Name	Institution	Designation	Signature
1	Ahmed Masoon Hassan	Ministry of Tourism and Environment	Programme Officer	
2	Raniya Husnu Al Suood	Ministry of Tourism and Environment	Programme Officer	
3	Fathimath Nashwa	Ministry of Tourism and Environment	Assistant Director	T'
4	Abdulla Safwan	Maldives Airports Company Limited	Senior Officer - Depot operations/Fuel services	
5	Fathimath Raufa Moosa	Ministry of Tourism and Environment	Project Technical Coordinator	†
6	Mohamed Inaz	Ministry of Tourism and Environment	Technical Coordinator	4
7	Hussain Ziyath	Charrette Studio	Director	-
8	Mohamed Saif Abdulla	Housing Development Corporation	Deputy Director	
9	Mir Thauheedul Islam	MWSC	Mechanical Engineer	
10	Ibrahim Miflal Fayaz	Dhiraagu	Product and Solution Delivery Lead	
11	Ibrahim Nashid	STELCO	General Manager	1
12	Ihsan Ali	Villa Nautica Paradise Island	Chief Engineer	7
13	Furugaan Ibrahim	MWSC	Assistant General Manager, Operations	(
14	Mir Thaufeequl Islam	STELCO	Engineer	
15	Mohamed Rasheed	Consonant Solutions	Managing Partner	
16	Aishath Niyaz	AISHANIYAZ CONSULTING	Sustainability Practitioner	
17	Mohamed Shaulan Sadiq	MWSC	Water and Environmental Engineer	
18	Suma Khalid Mohamed	FENAKA	S. Engineer	
19	Ajwad Musthafa	Ministry of Tourism and Environment	Permanent Secretary	
20	Mohamed Nazran Nazeer	EPOCH Associates Pvt. Ltd.	Building Services Engineer	
21	Aslam Mohamed Shakir	Villa Group (VSTC)	Technical Project Director	

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No	Name	Institution	Designation	Signature
22	Abdulla Shimaaz	STELCO	Chief Electrical Engineer	~
23	Nabeeh Ibrahim	State Electric Company Limited	Assistant Engineer	
24	Fathmath Fizna Yoosuf	URA	Director	
25	Abdulla Ziyaan	URA	Enforcement Officer	
26	Ahmed Jazlaan	URA	Director	
27	Mohamed Zidhan hassan	Maldives Airports Company Limited	Technician	
28	Aishath Neelam Rasheed	Maldives Police Service	Higher Crime Analyst	
29	Mariyam Rifa	Maldives Police Service	Analyst	Na Na
30	Aminath Afsheen Ibrahim	Maldives Police Service	Analyst	Na Na
31	Reena Mohamed	Maldives Police Service	Analyst	
32	Aminath Reesha Ahmed	Maldives Police Service	Analyst	20
33	Aminath Nasha	Maldives Police Service	Crime Analyst	
34	Haisham Ali	Maldives Police Service	Crime Analyst	-
35	Umaira Ahmed	Ministry of Tourism and Environment	Senior Environment Analyst	
36	Hassan Nishad	Villa Nautica Paradise Island	Financial Controller	
37	Ahmed Aimad Aiman -	Ministry of Construction, Housing and Infrastructure	Project Engineer	
38	Fathimath Rasheed	Riyan Pvt Ltd	Urban Researcher	-
39	Aneesa Yoosuf	Riyan Pvt Ltd	Head of Research & Planning	
40	Mariyam Ishraag Waheed	Riyan Pvt Ltd	Senior Research Officer	1
41	Mareer Mohamed Husny	Riyan Pvt Ltd	Environmental Expert	
42	Manoj Kumar Bansa	Grant Thornton	Partner	
43	Nand Gopal Esambadi	Grant Thornton	Director	
44	Amit Seth	Grant Thornton	Manager	

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Annex 3: Training Photographs













Annex 4: Training Presentations



Training Workshop:

Power BI for Climate and Energy

Data Visualization

26th May 2025, Meeruma, Male'

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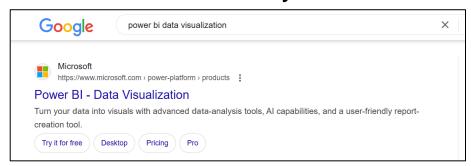




Installation of Power BI

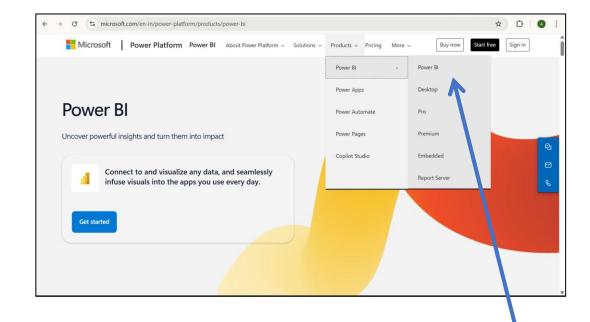
Step -1

Search Power BI data visualization in the search bar of any browser



Or Open the link https://www.microsoft.com/enin/power-platform/products/power-bi

Step -2



Clink on the Products, Click Power Bl desktop









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Climate Change Mitigation and Adaptation Actions in

Installation of Power BI

Step -3

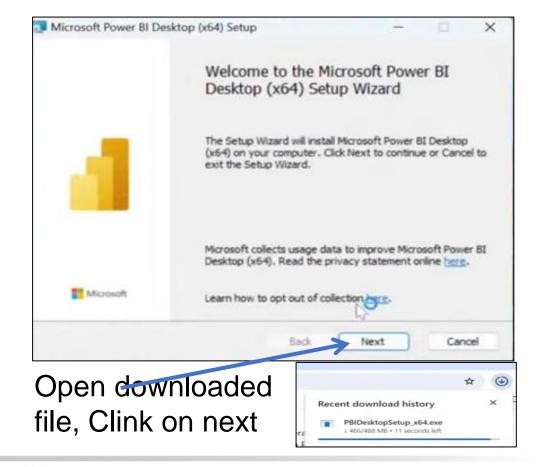


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Select the language



Step -4





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Select version



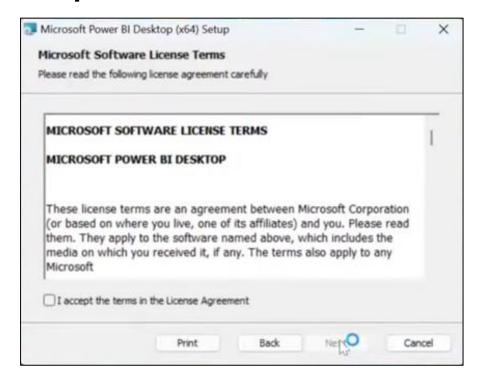






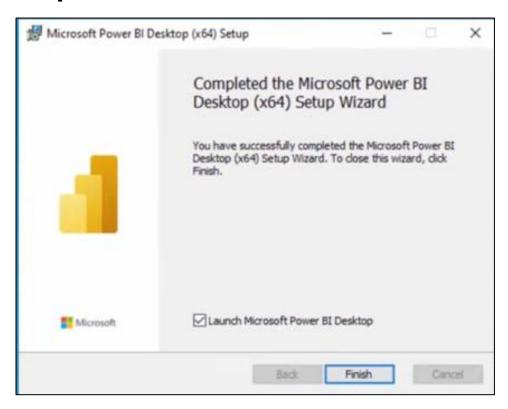
Installation of Power BI

Step -5



Read and accept the terms

Step -6



Click on Finish









Thanks

















Training Workshop:

Power BI for Climate and Energy

Data Visualization

26th May 2025, Meeruma, Male'

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What is BI and Power BI?

- BI refers to **Business Intelligence**
- BI is set of processes, architecture, and technologies that convert raw data into meaningful information that drives profitable actions.
- BI is combination of combination of analytics, data mining, data visualization, data tools and best practices to help make more data driven decisions.
- Power BI is an interactive data visualization software developed by Microsoft.

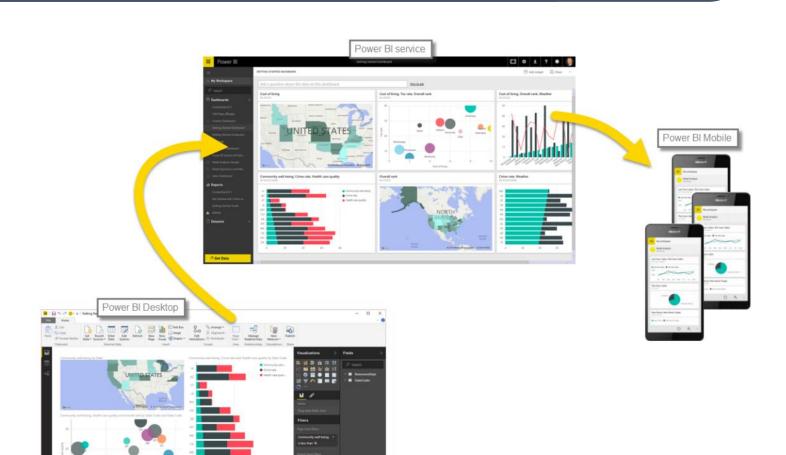




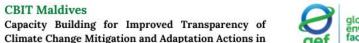


Common flow of activity in Power BI

- Bring data into Power BI Desktop and create a report.
- 2. Publish to the Power BI service, where you can create new visualizations or build dashboards.
- **3. Share dashboards** with others, especially people who are on the go.
- View and interact with shared dashboards and reports in Power BI Mobile apps.







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Aim and objective of the training

1. Review Data

Equip participants with the ability to understand, interpret, and analyze climate-related data.

2. Develop Power BI Skills

Train participants in using Power BI for data visualization, dashboard creation, and reporting.

3. Enable Evidence-Based Decision Making

Teach how to use data insights to support climate mitigation strategies.

4. Promote Monitoring and Evaluation

Show how to track progress of climate initiatives using interactive dashboards.

5. Foster Collaboration and Communication

 Encourage sharing of insights across departments, stakeholders, and the publishing mitigation results through visual storytelling.









Importance of Power BI in Climate Change Mitigation and Adaptation

1. Data Integration

Power BI can consolidate data from multiple sources (e.g., energy data, purchase data, emissions) into one platform.

2. Scenario Analysis

Helps visualize the impact of different policy or adaptation scenarios using historical data.

3. Transparency and accountability

Dashboards can be shared across various stakeholders to increase transparency.

4. Policy support

 Provides policymakers with clear, data-driven insights to support climate legislation and funding decisions.









Pre-training assessment to understand participants expectations

Link will be shared during workshop (in Mentimeter)









Thanks

















Power BI step by step solutions for Practice Session















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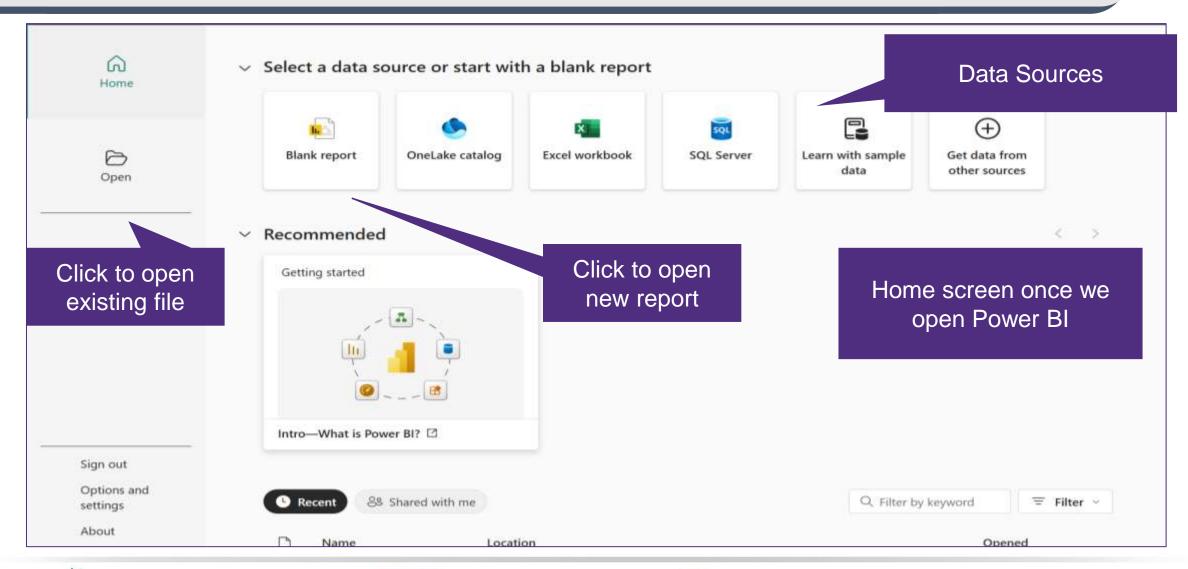






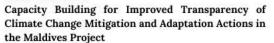


Understanding Power BI interface









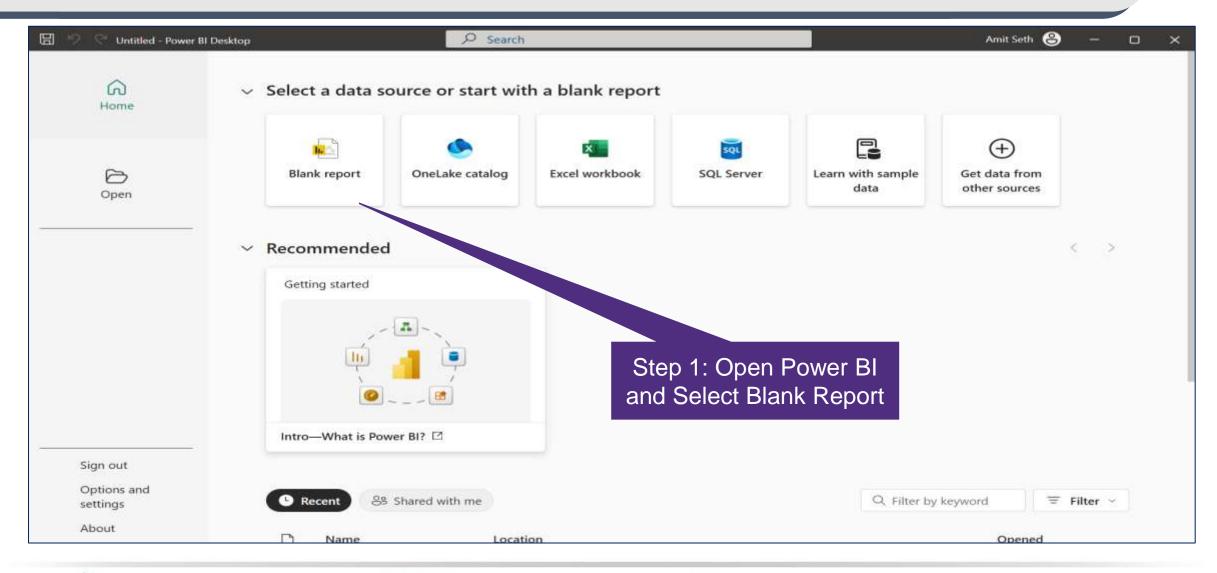






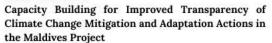


Opening Power BI window









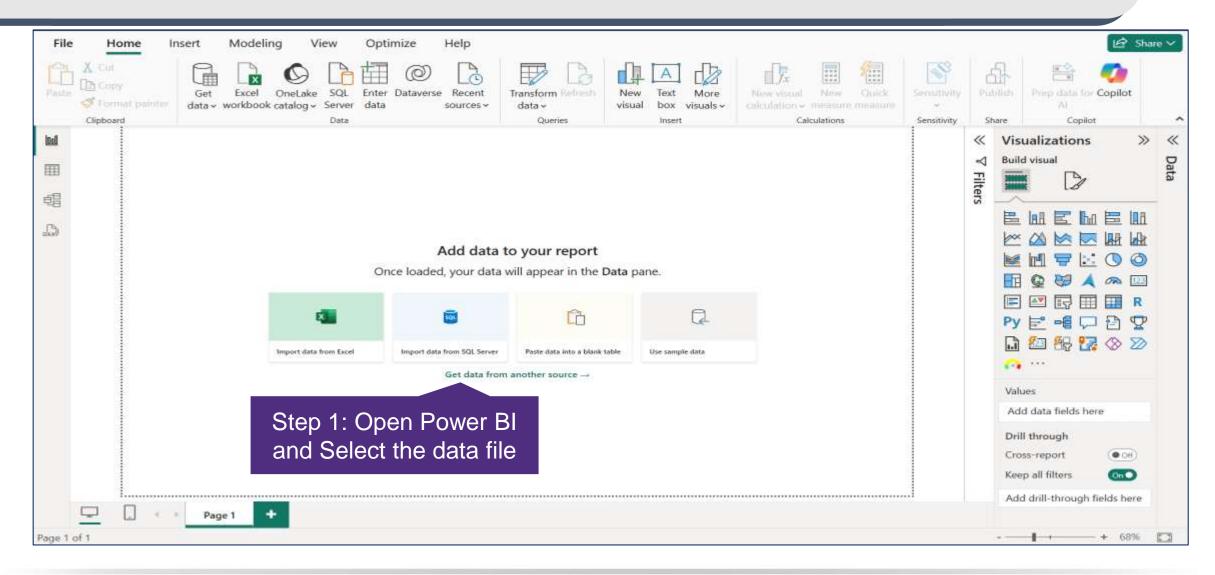






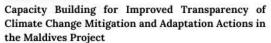


Starting Power BI







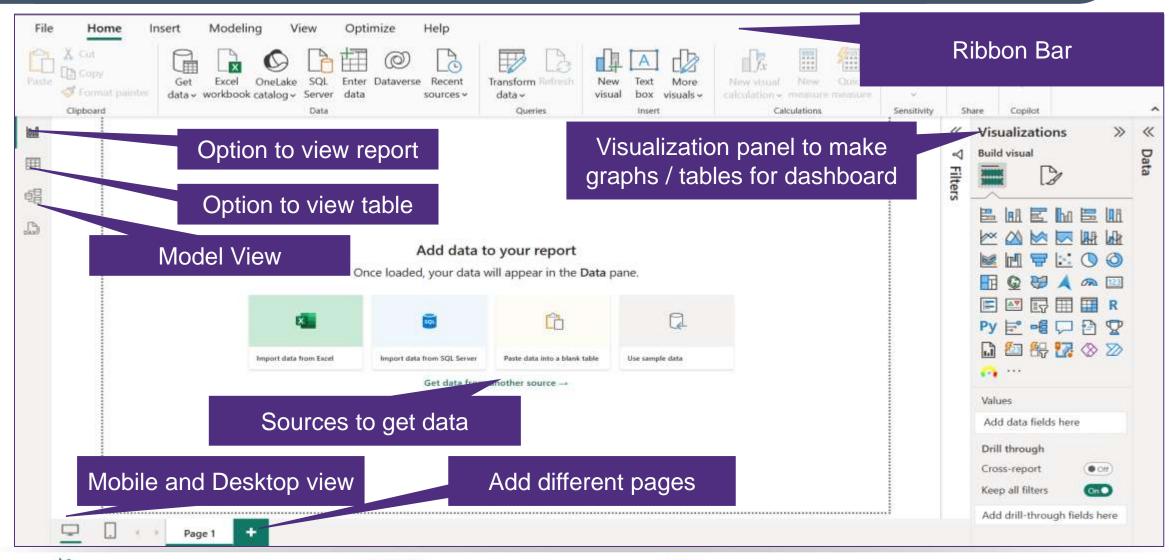






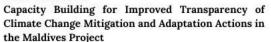


Understanding Power BI interface









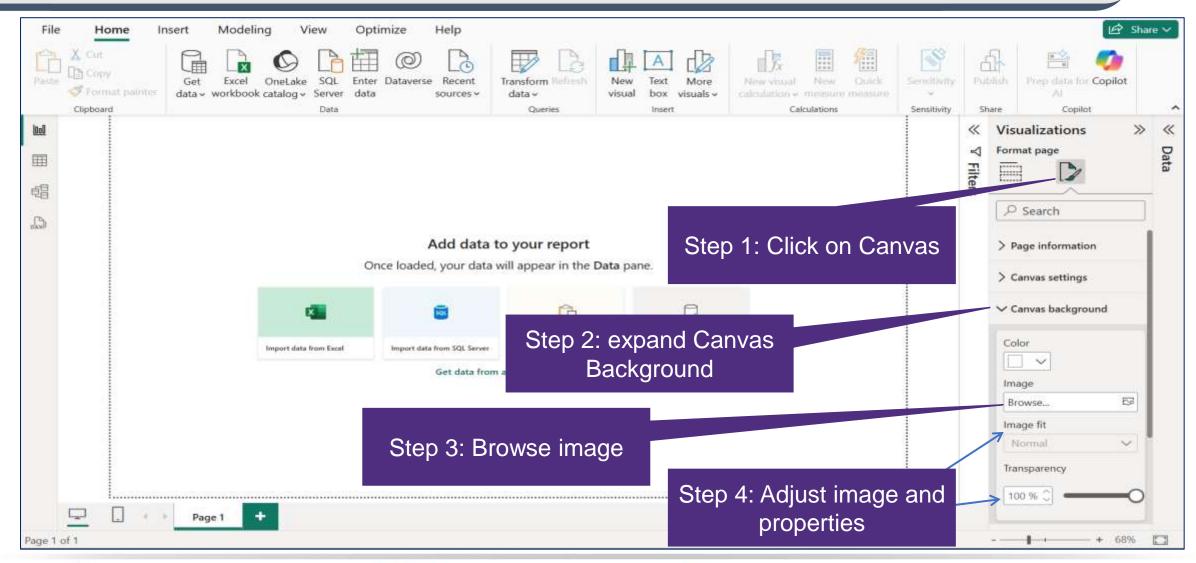








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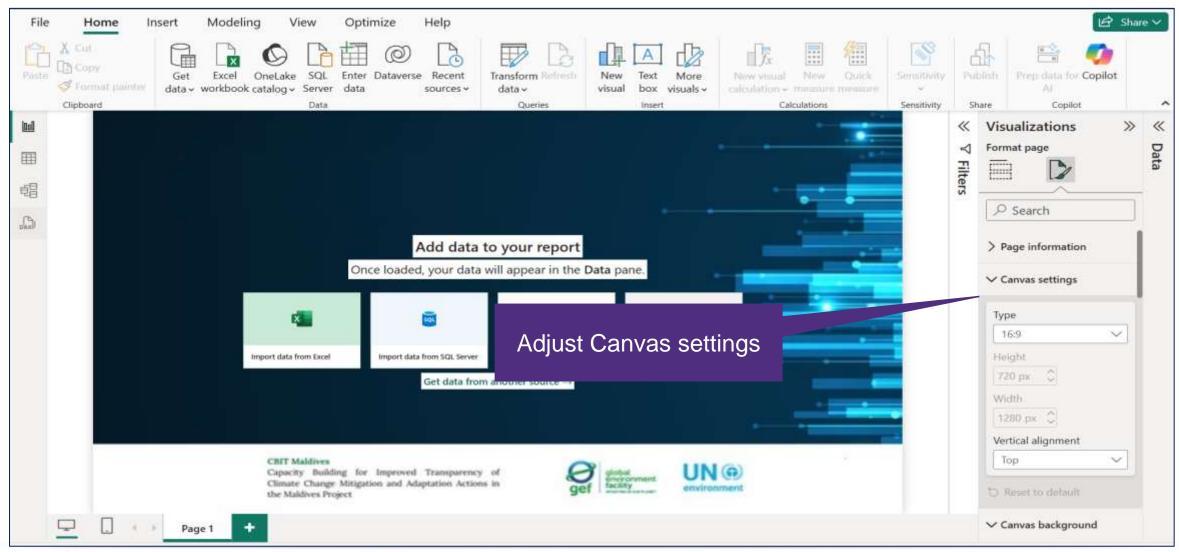








Adding Background Image to Canvas





Ministry of Tourism and Environment

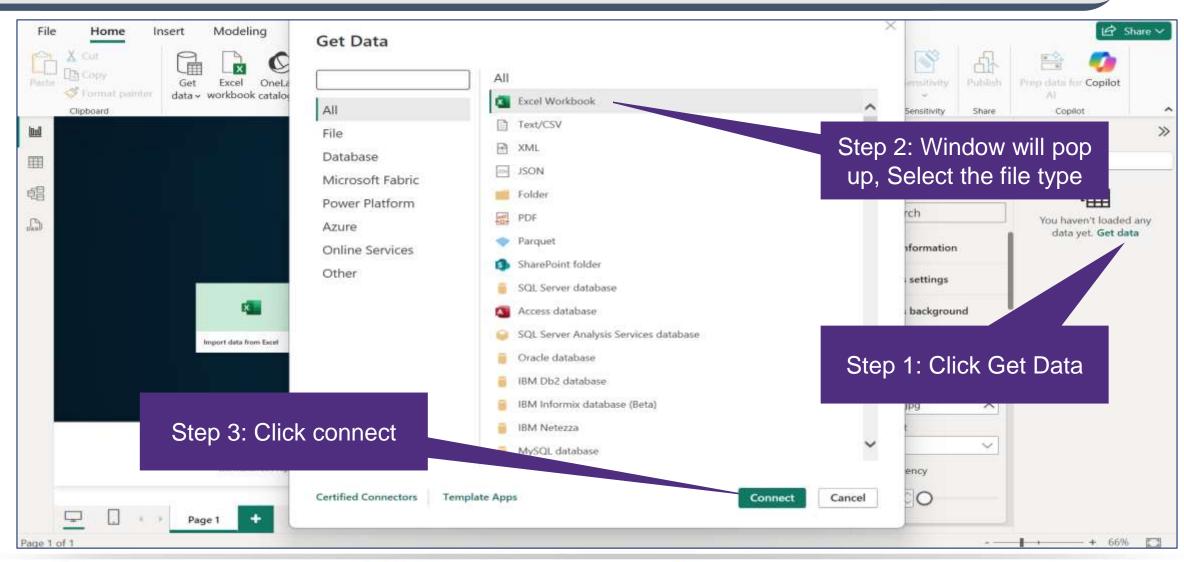
Republic of Maldives













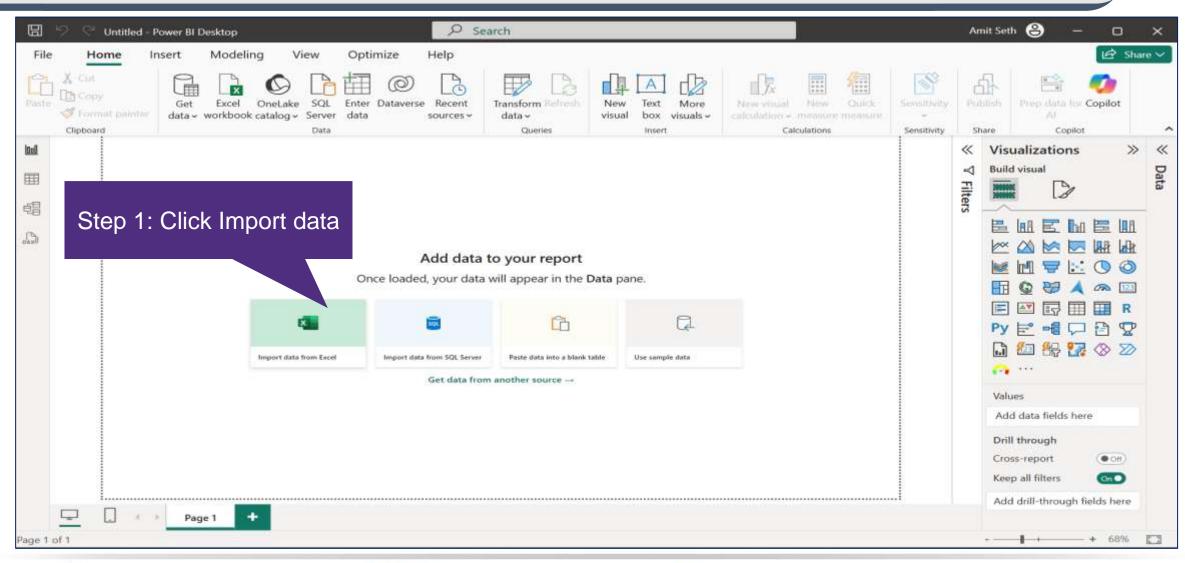








Importing Data to Power BI (Option 2)







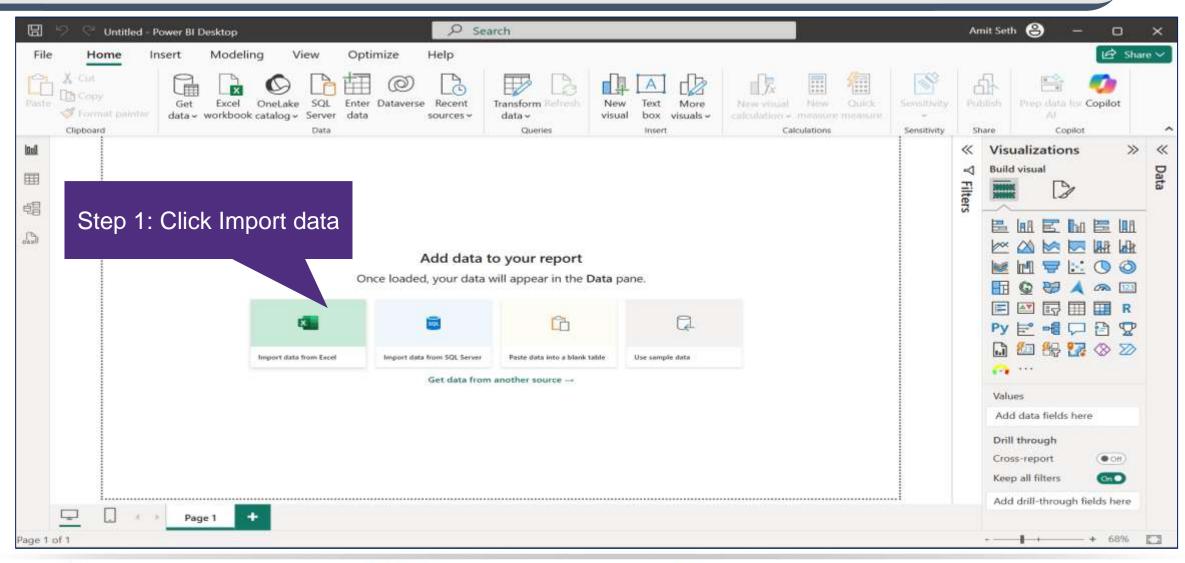








Importing Data to Power BI (Option 2)





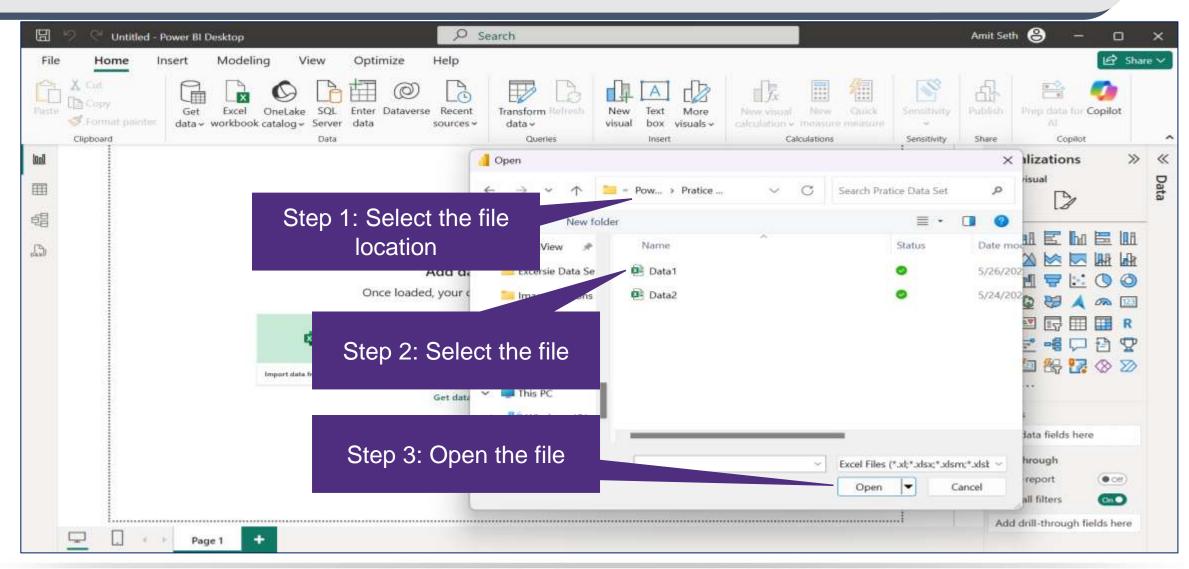












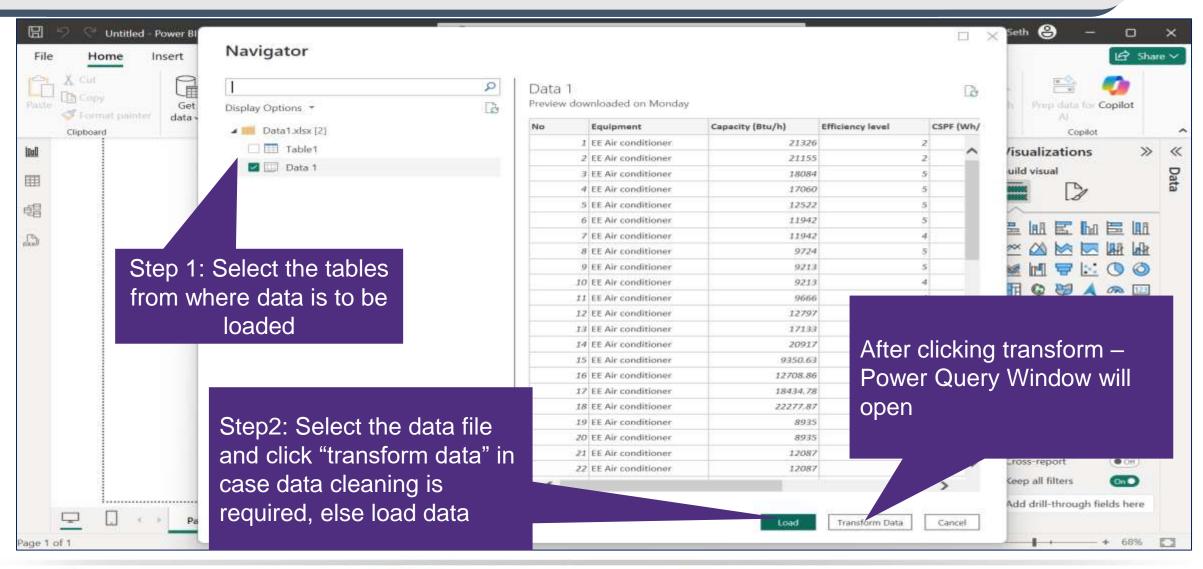






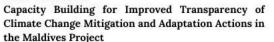










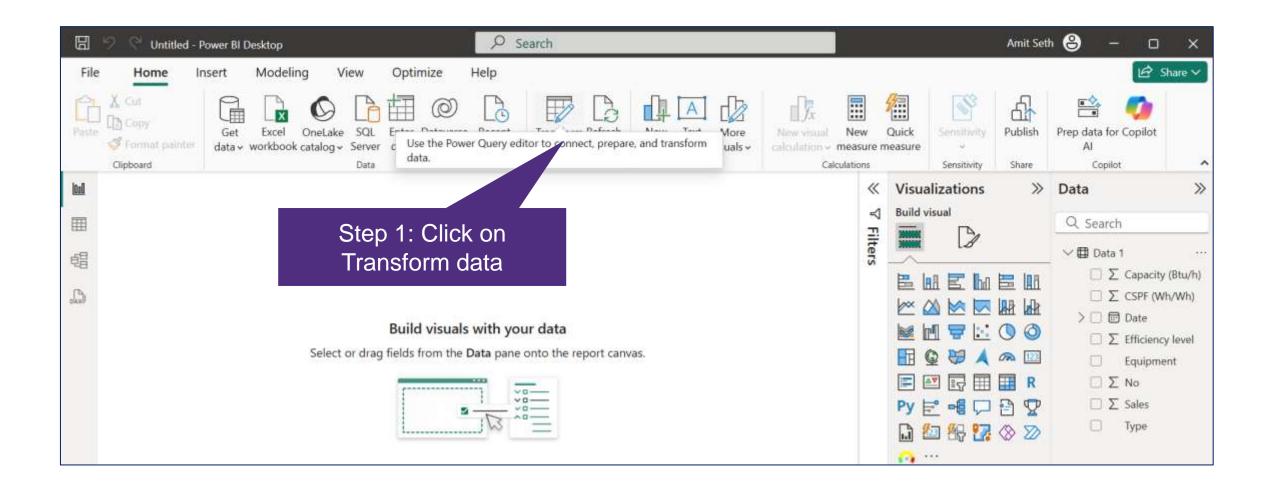






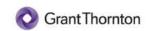


Transforming data after loading in Power Query









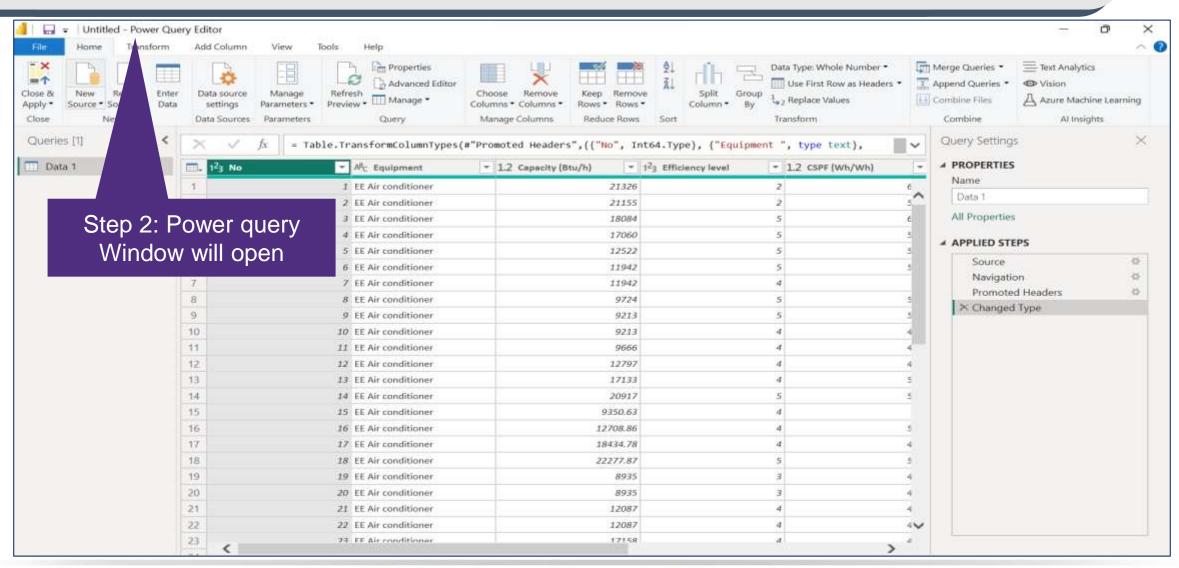


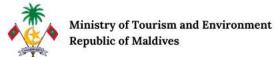
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Capacity Building for Improved Transparency of

Climate Change Mitigation and Adaptation Actions in

Transforming data after loading in Power Query





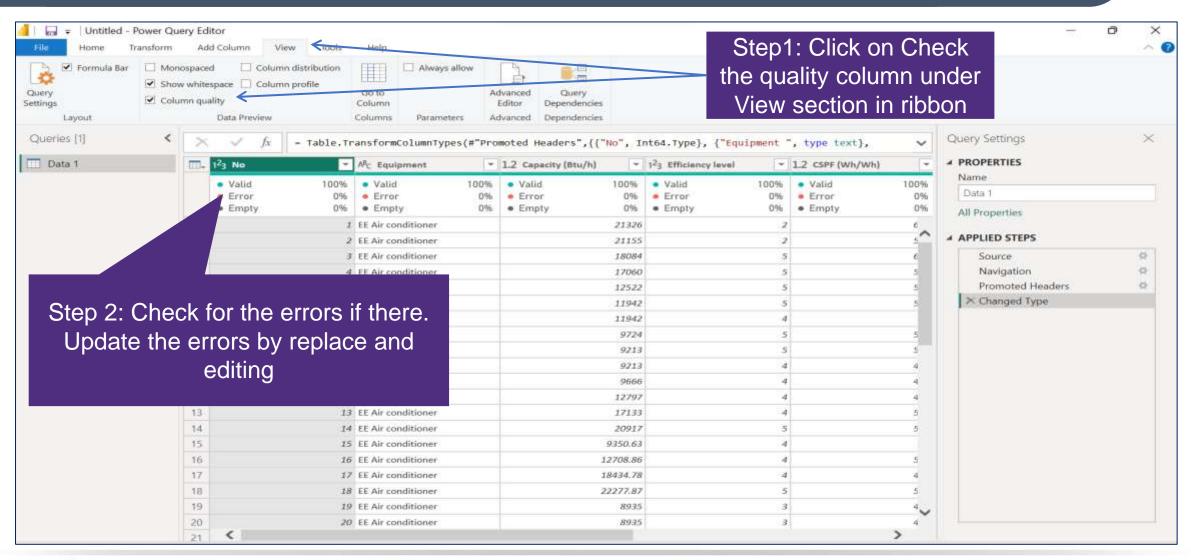
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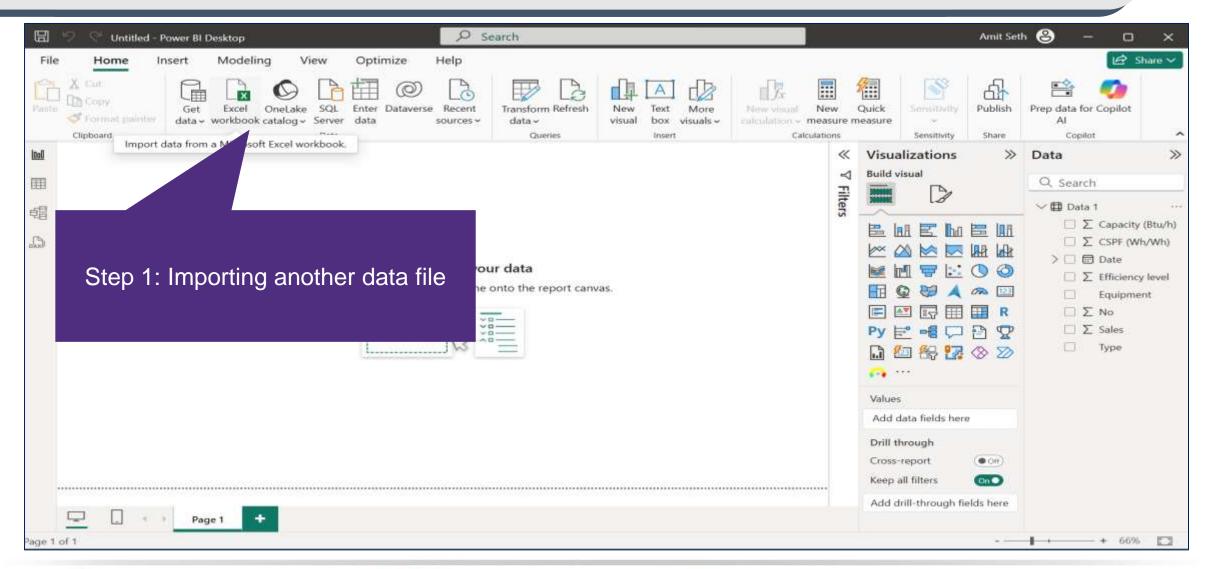












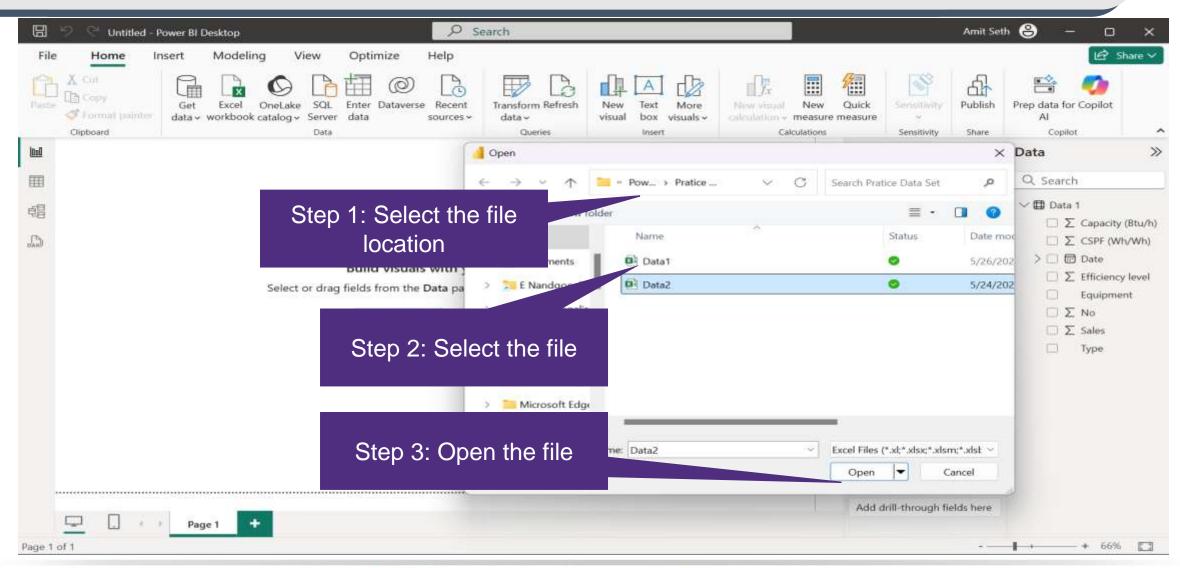












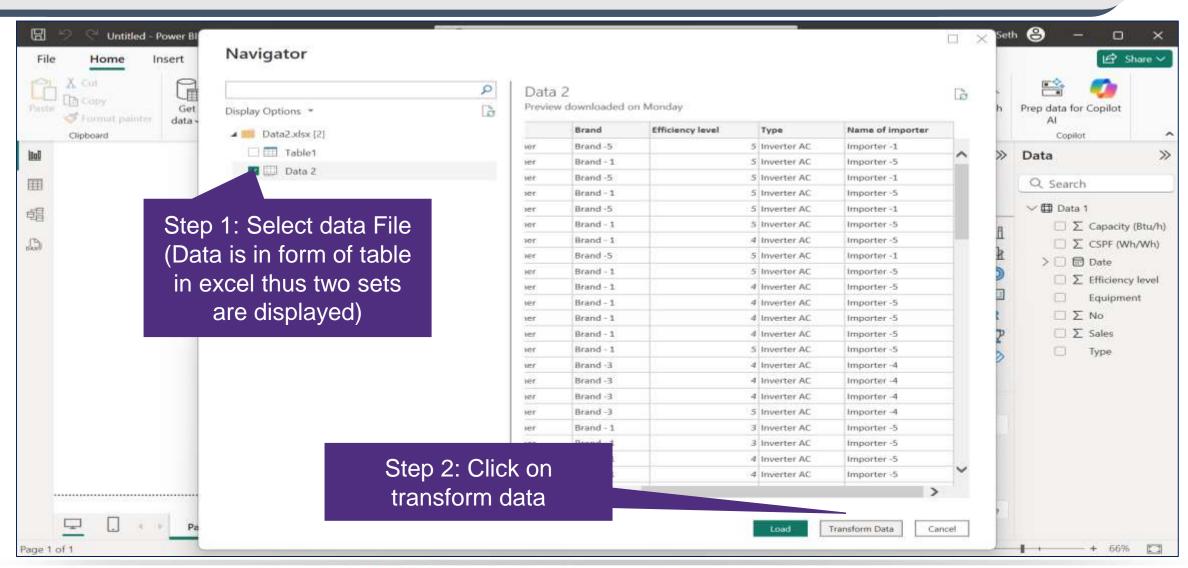












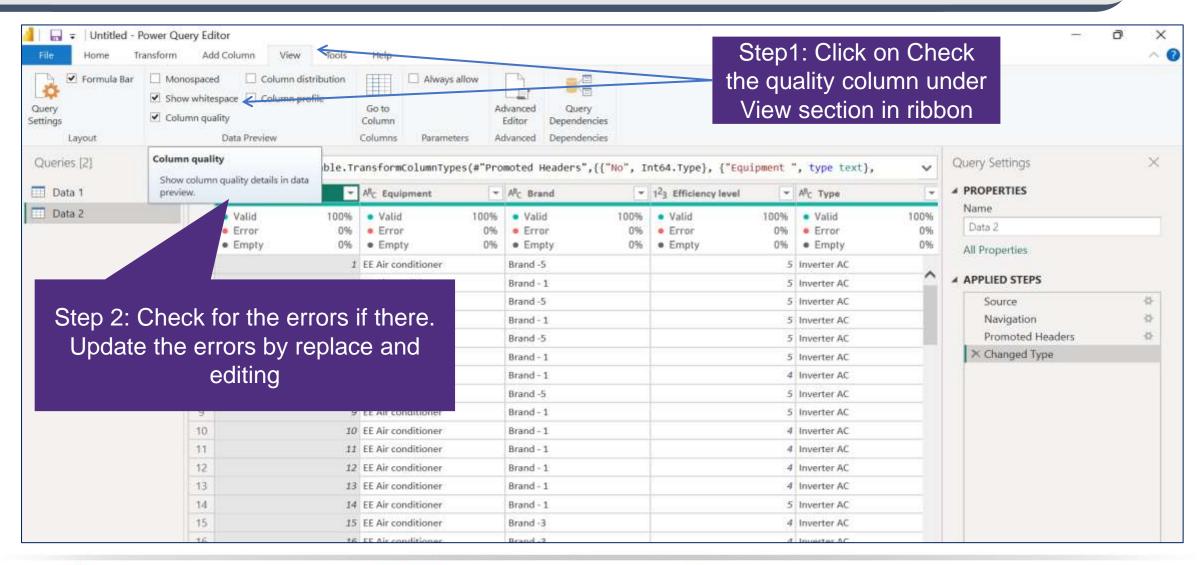












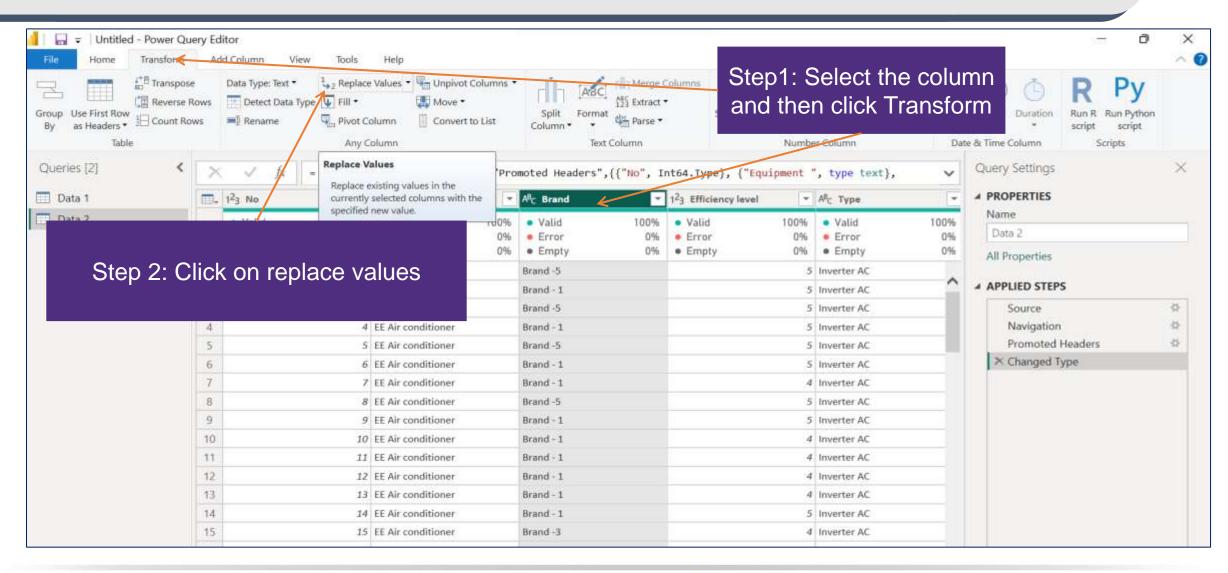






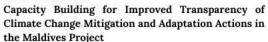










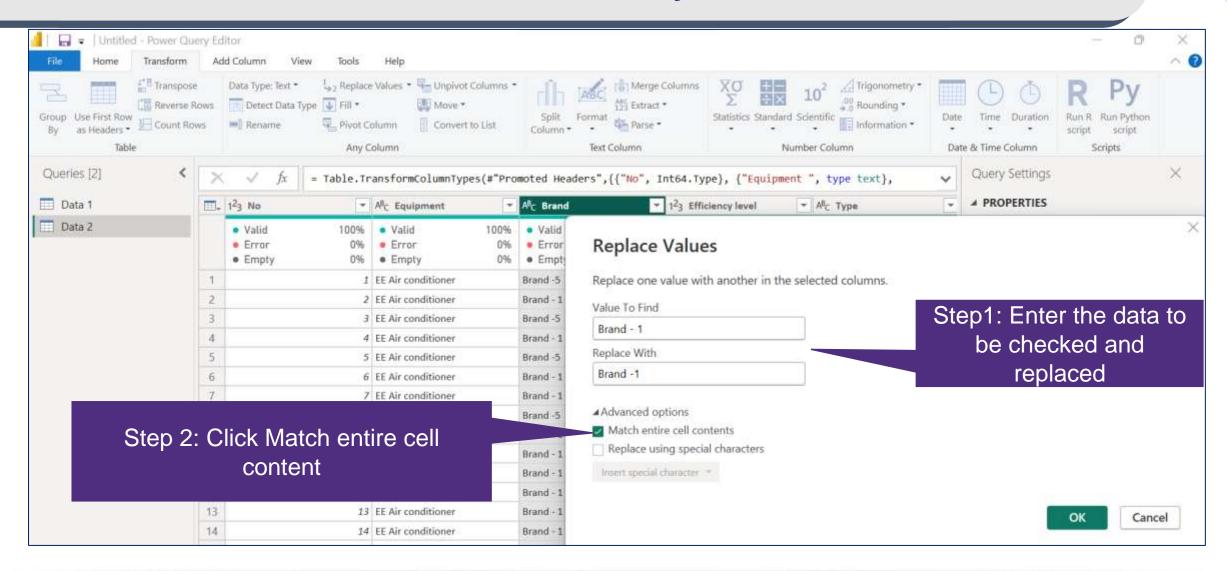












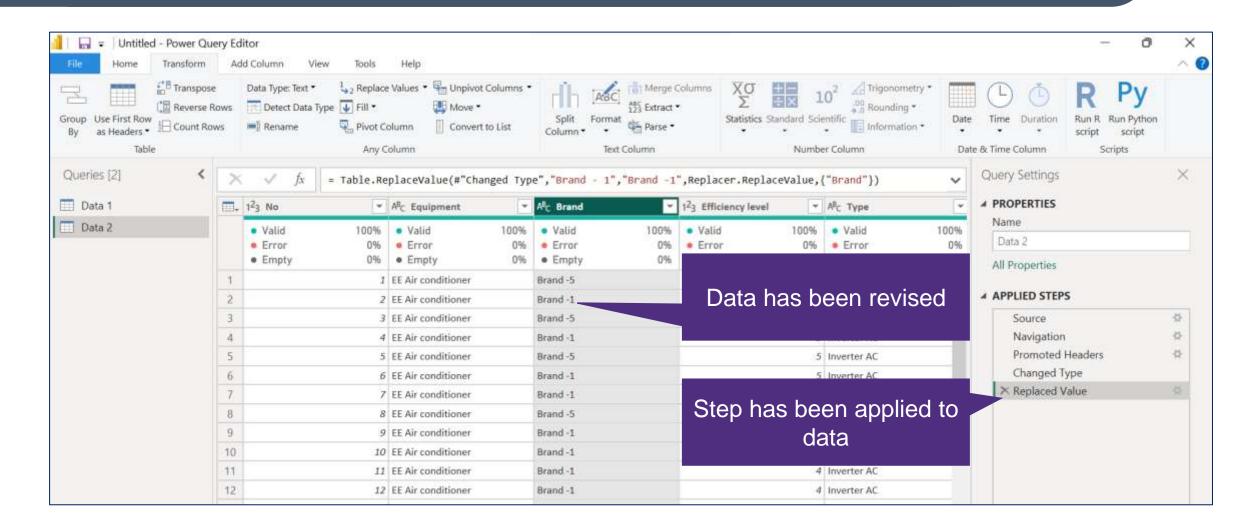




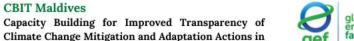












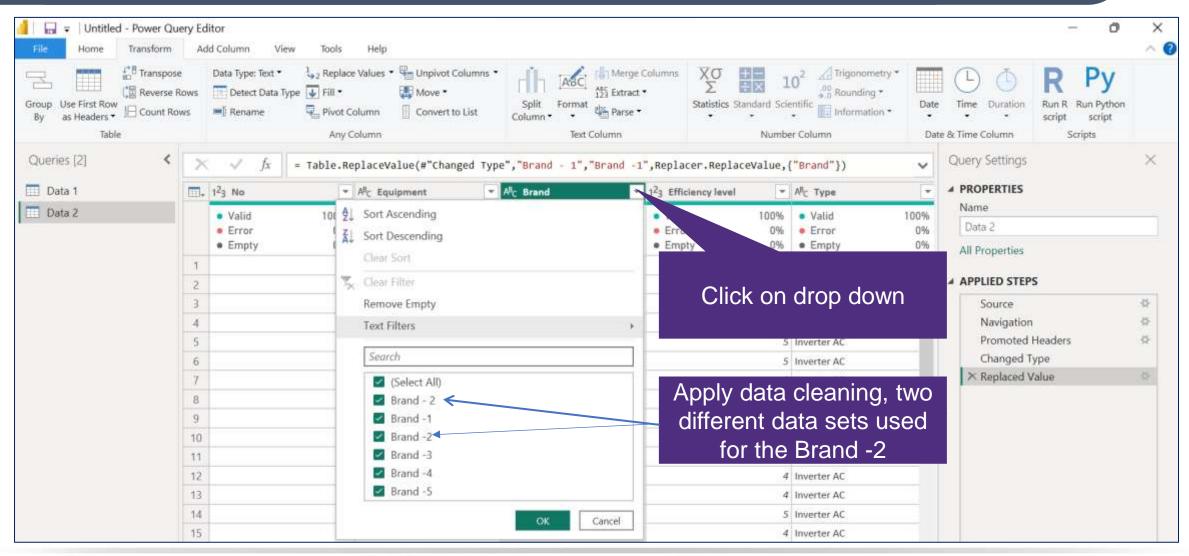
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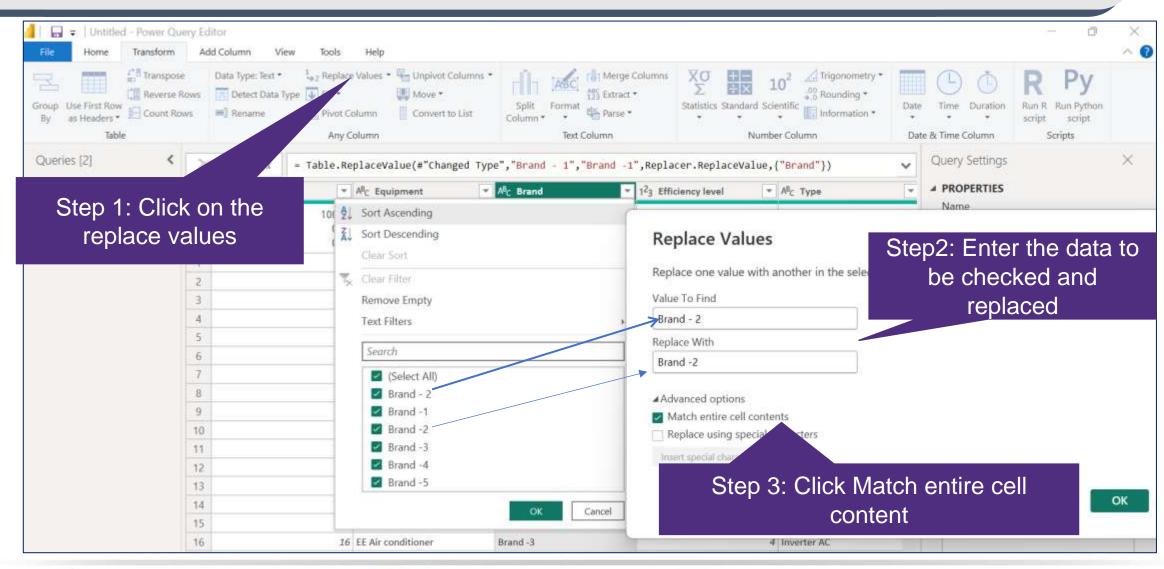












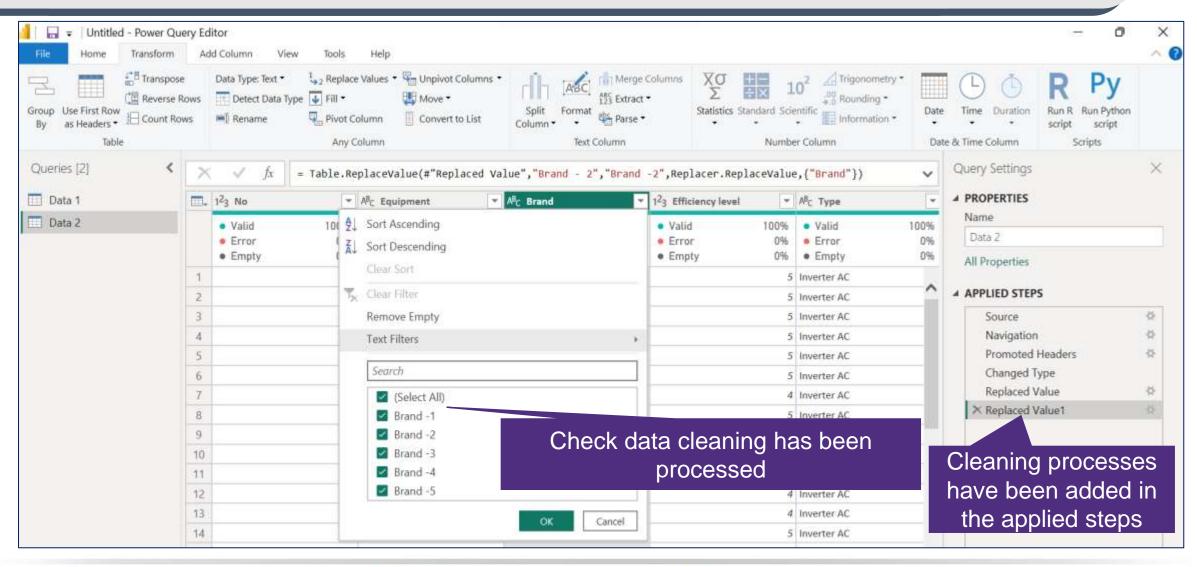












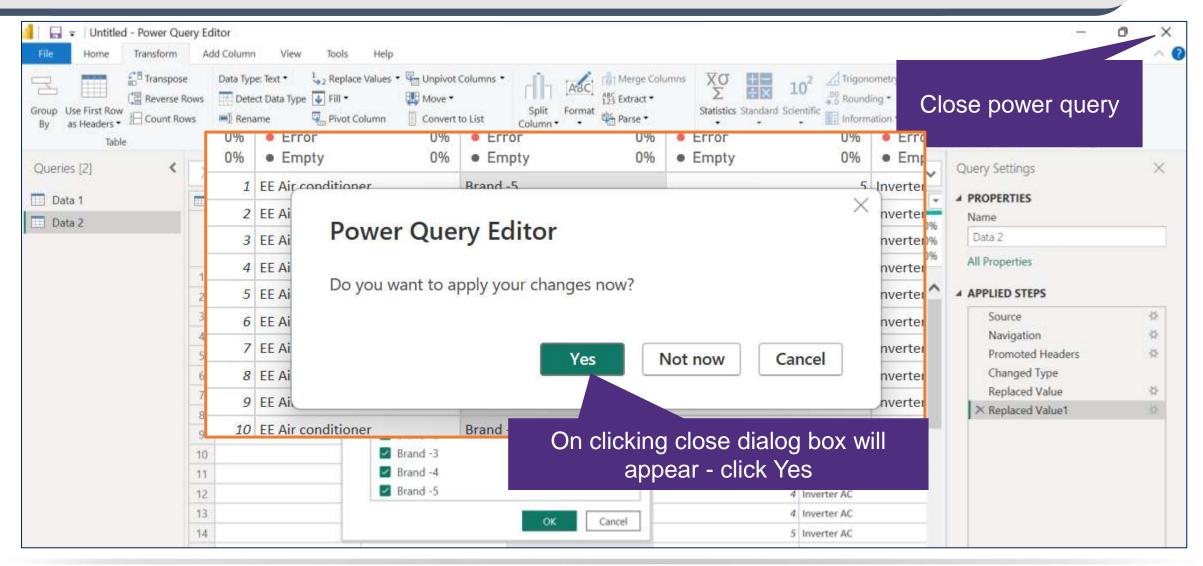






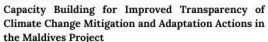










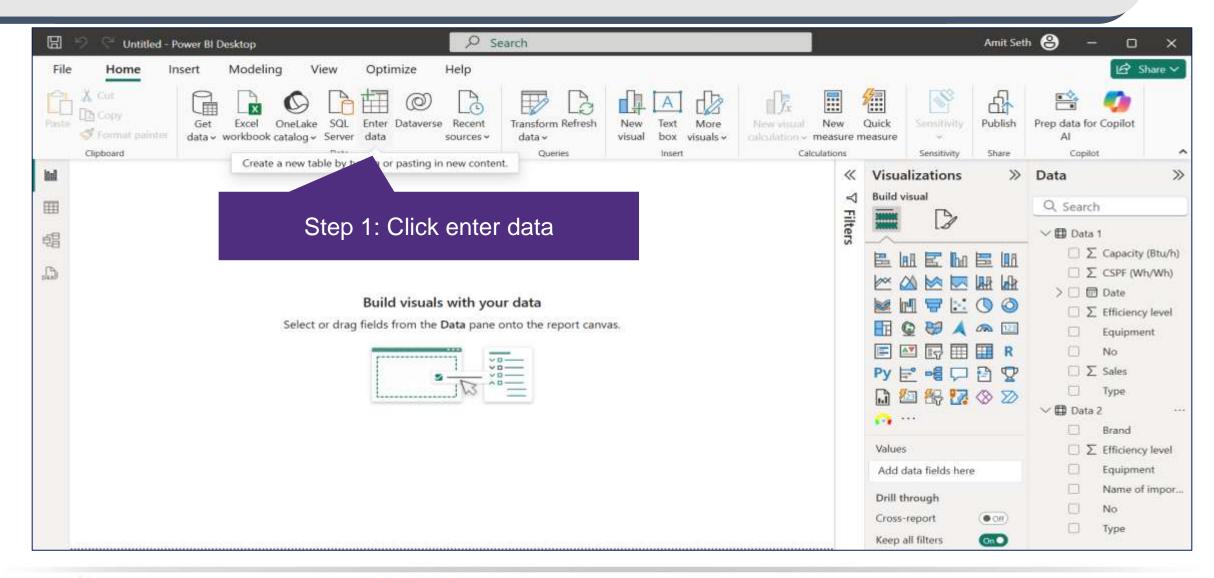






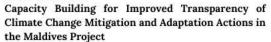


Adding Data to Power BI







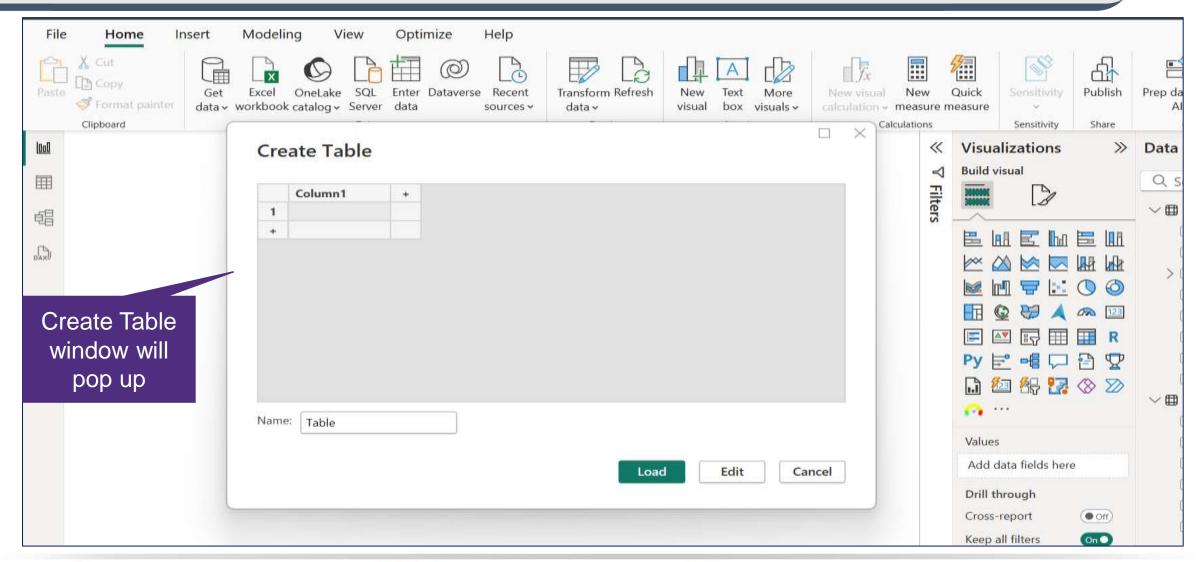






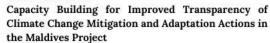


Adding Data to Power BI





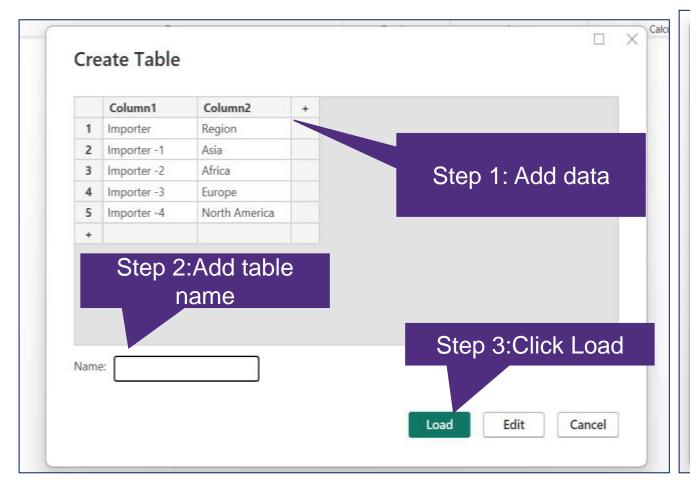


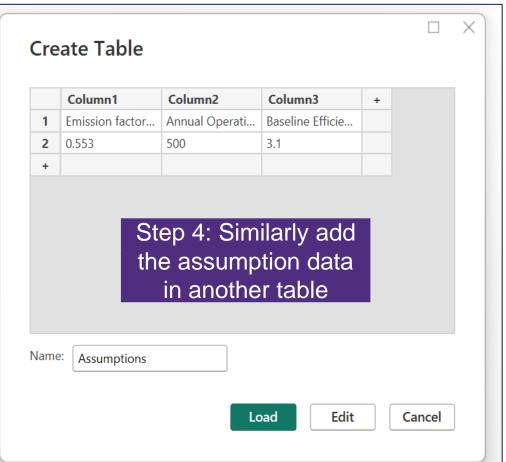












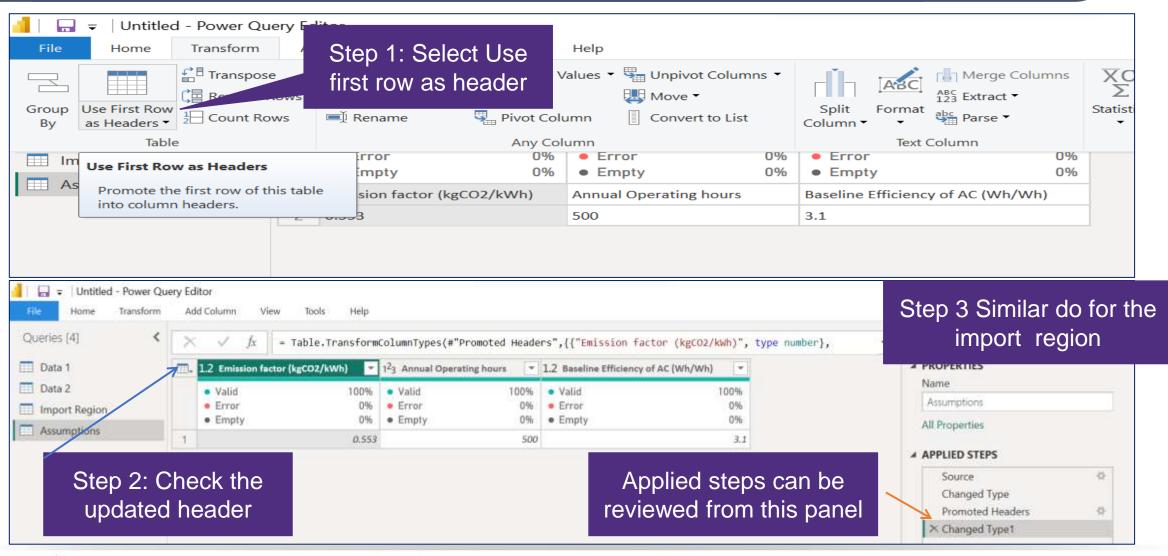












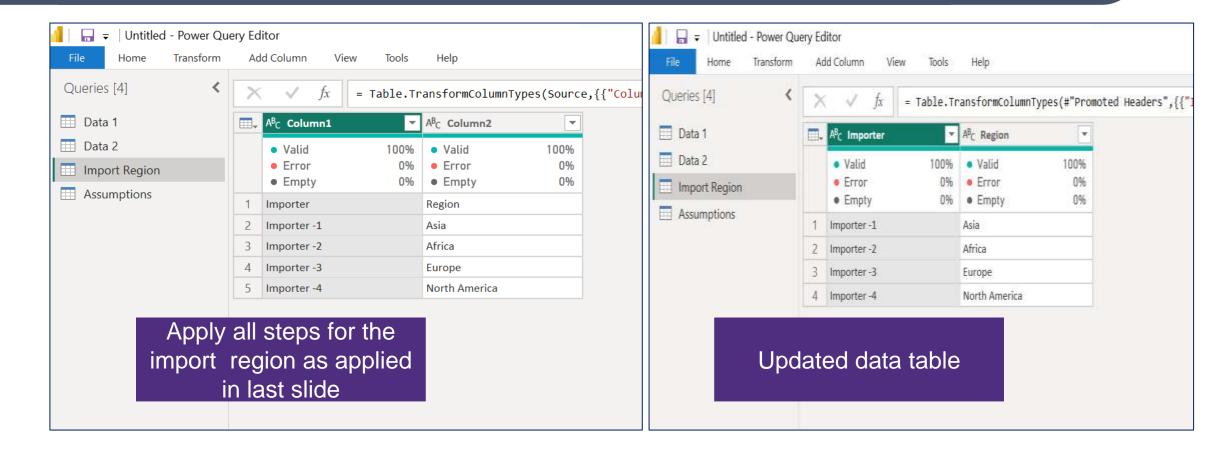






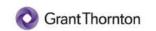










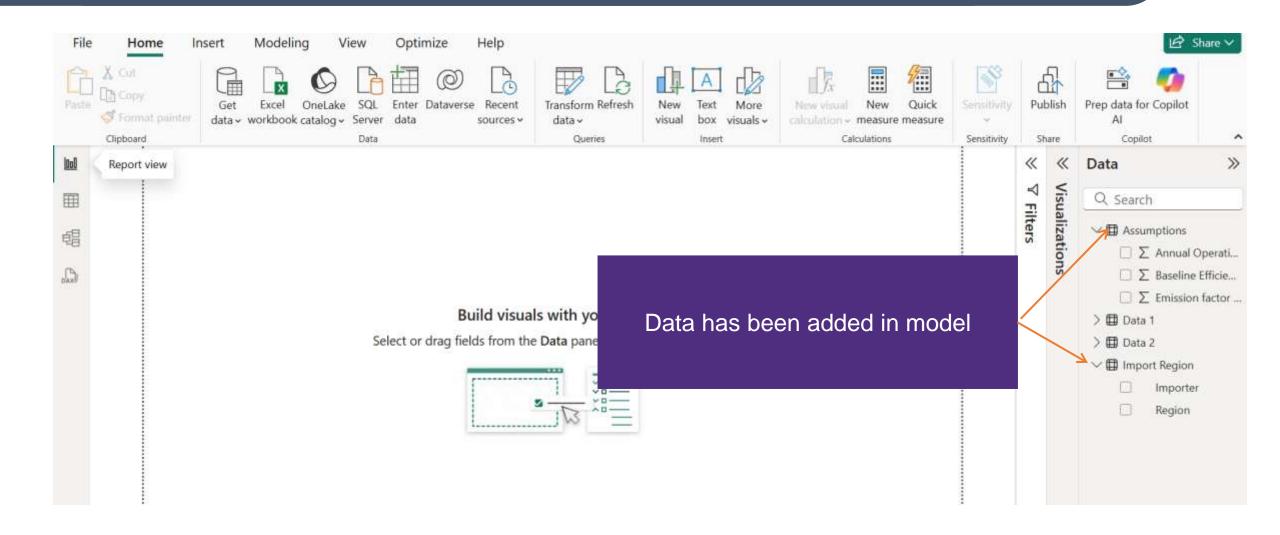




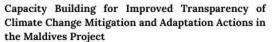
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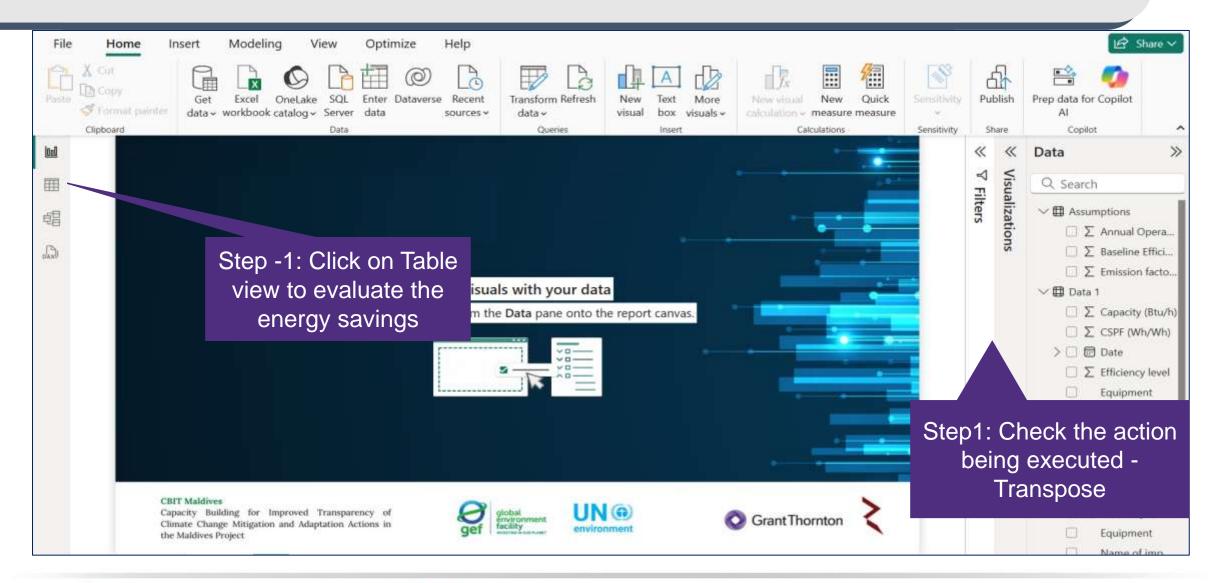


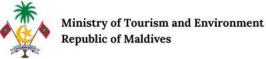






Transform Data to Power BI





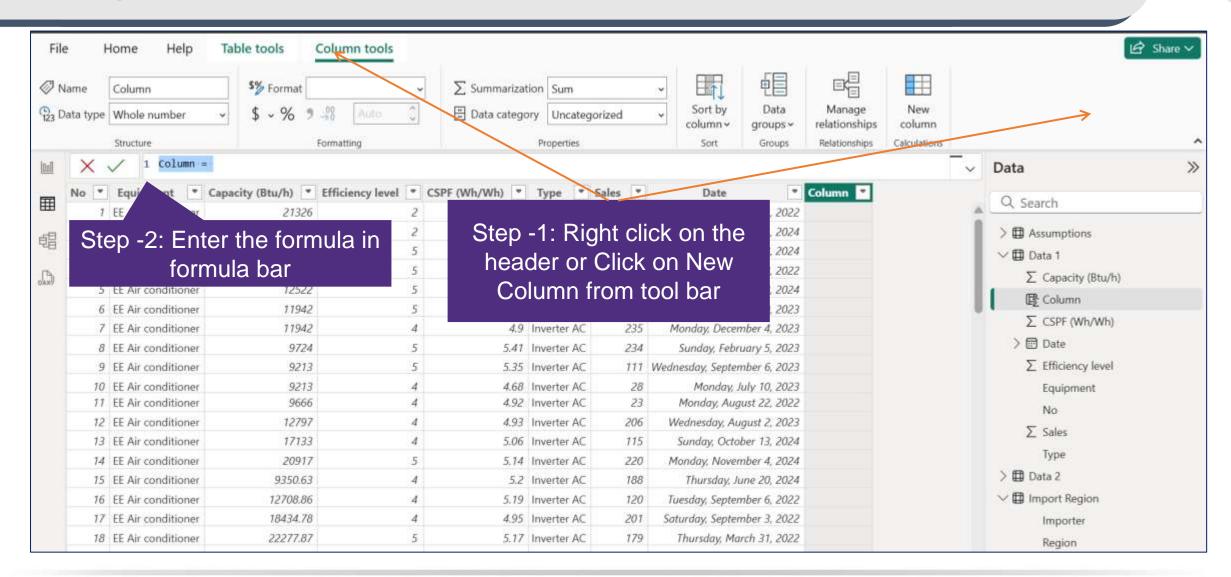


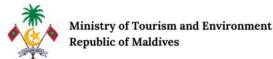




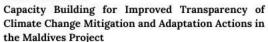


Using DAX formulas









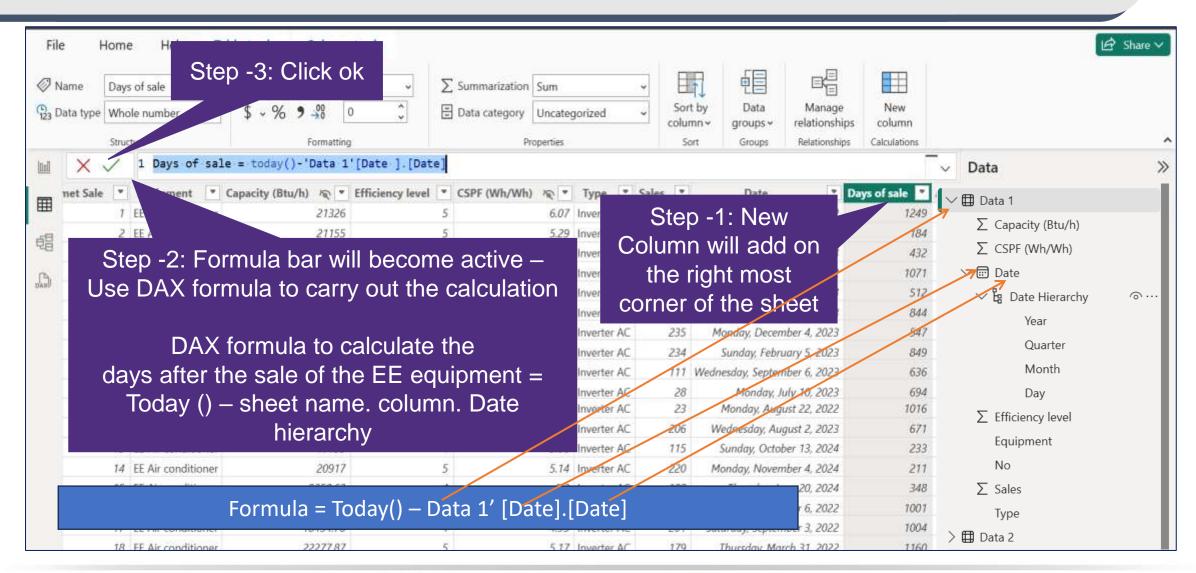






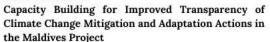


Using DAX formulas









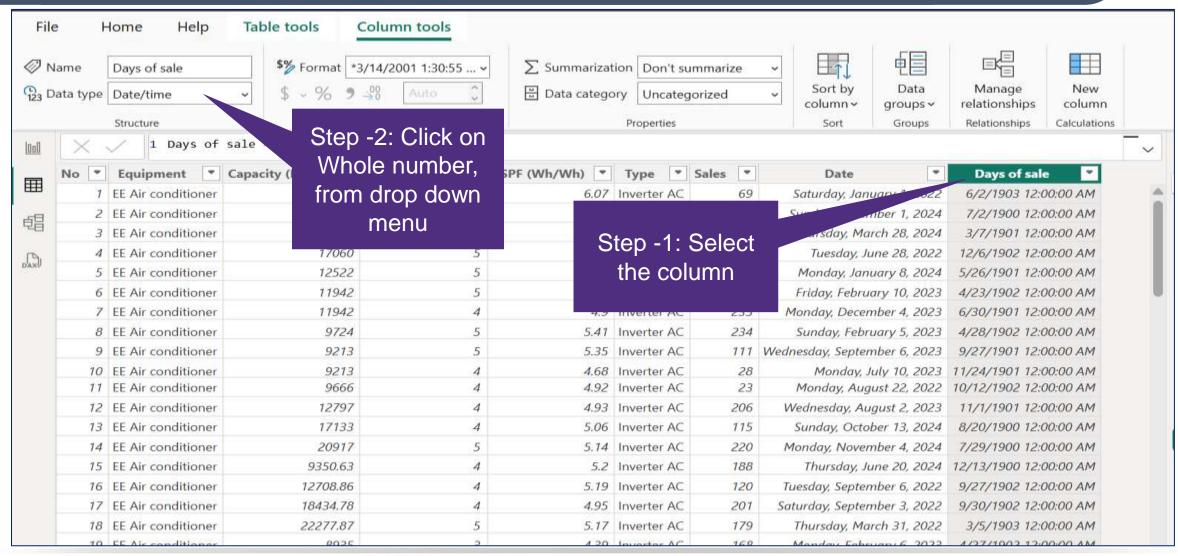




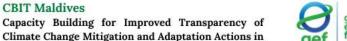




Changing the data format







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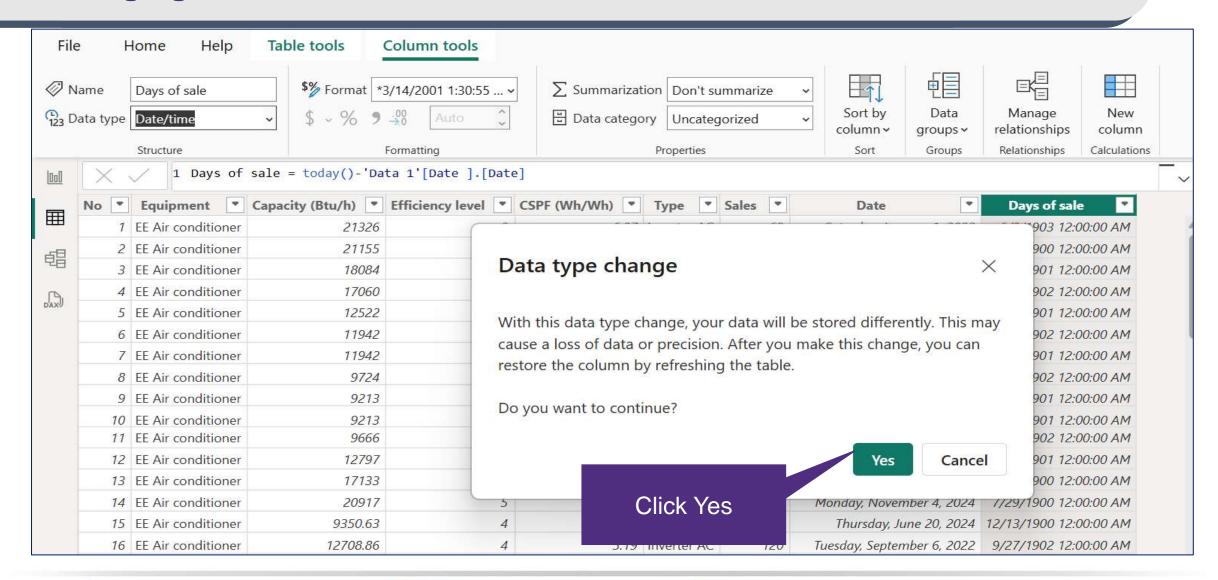
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Changing the data format







Climate Change Mitigation and Adaptation Actions in

the Maldives Project

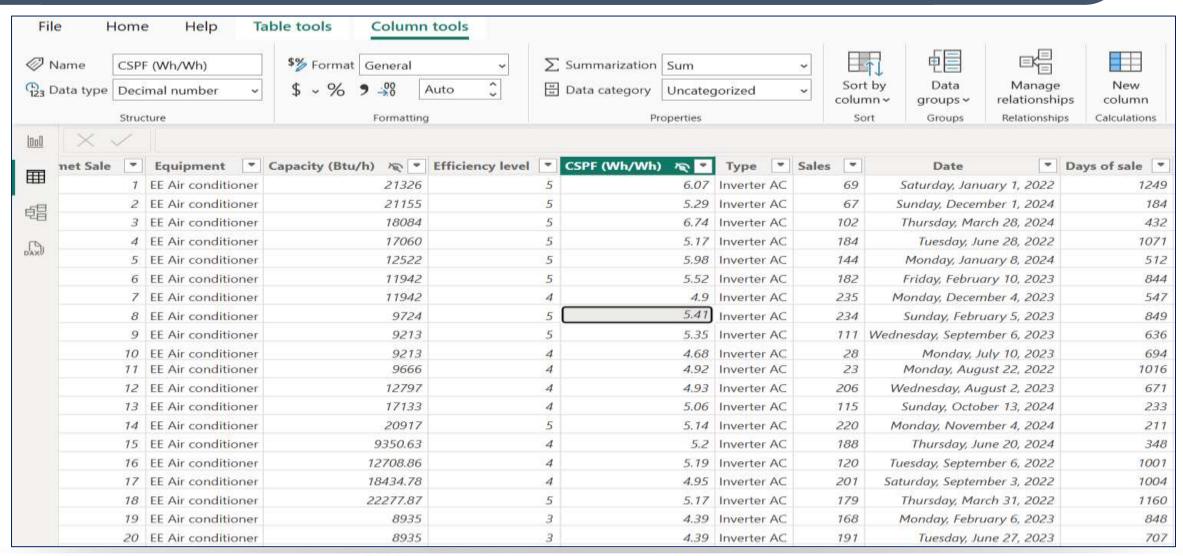


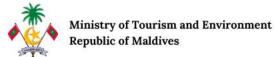




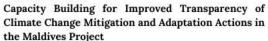


Changing the data format (Date to number)









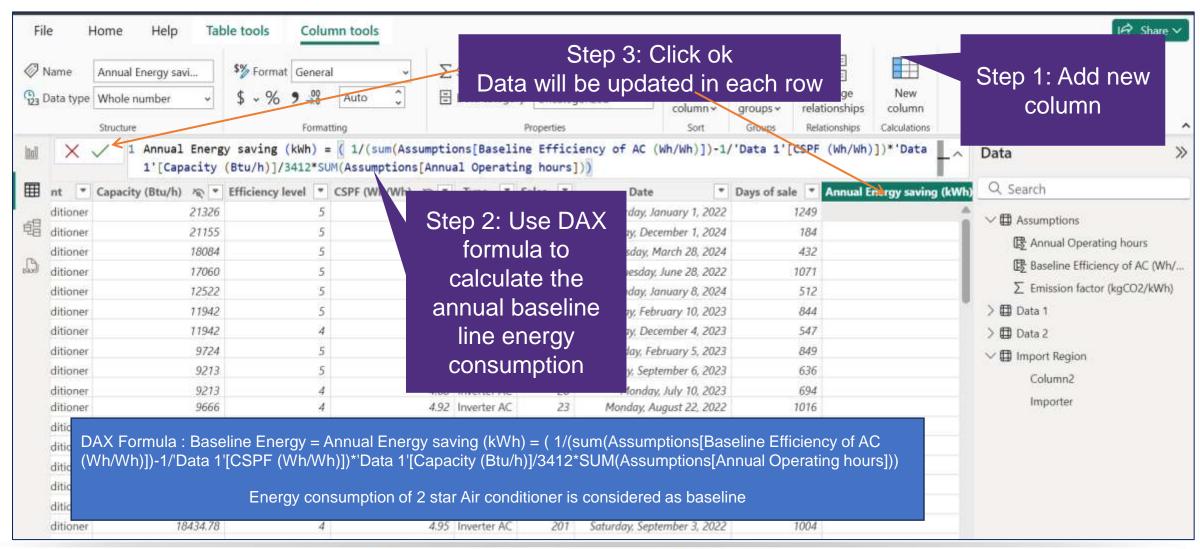


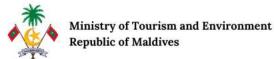






Using DAX formula to calculate Annual Energy saving (per unit)







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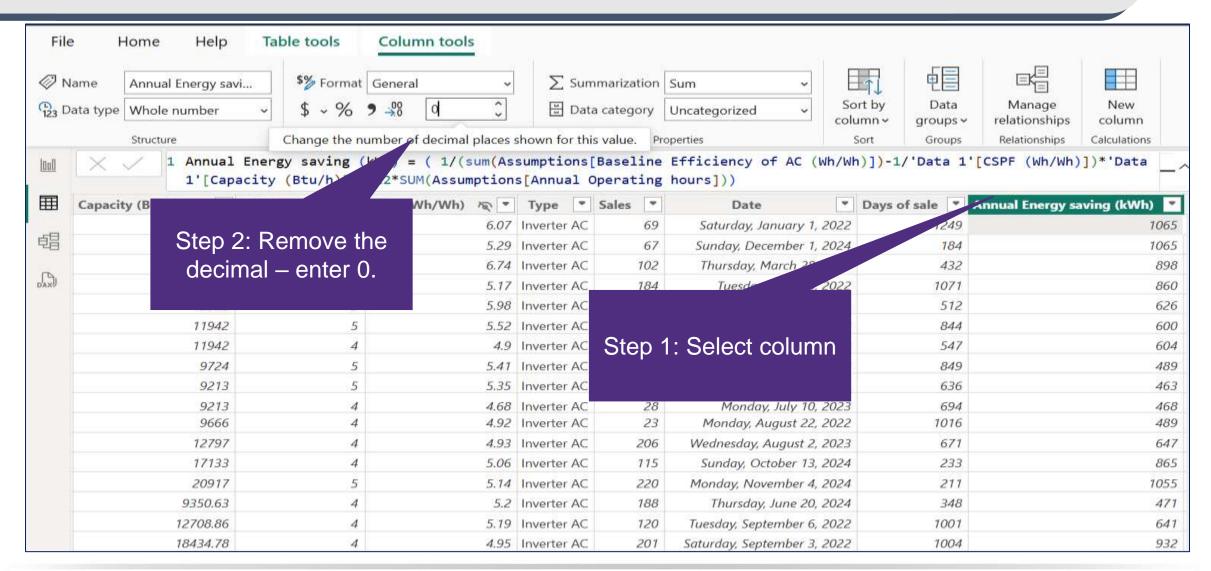
Climate Change Mitigation and Adaptation Actions in

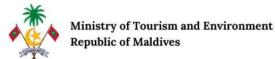


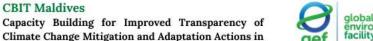




Removing the decimals







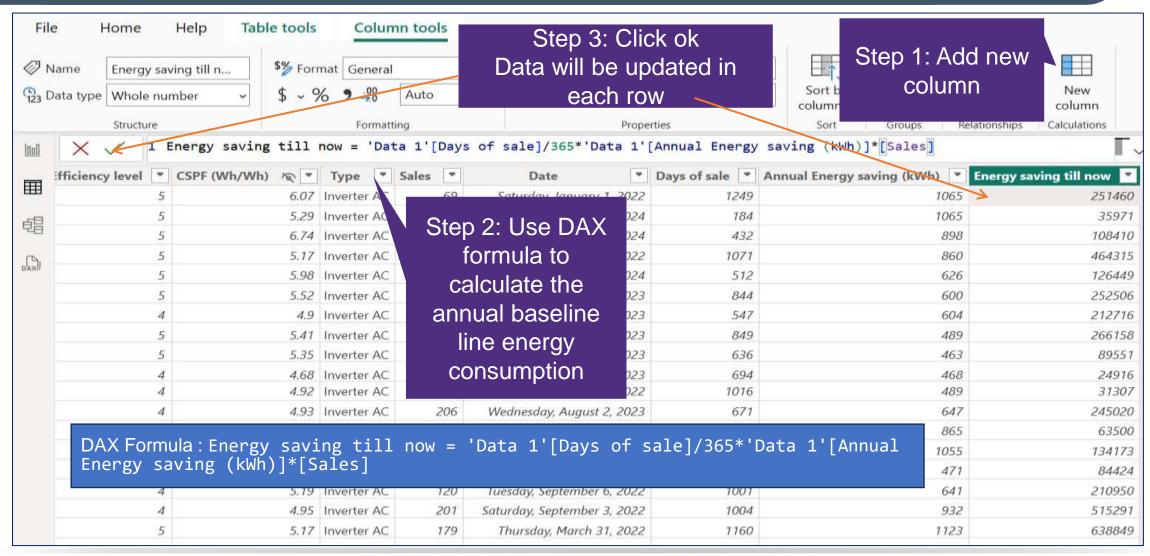
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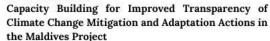


Adding measure to evaluate energy from EE Air conditioners









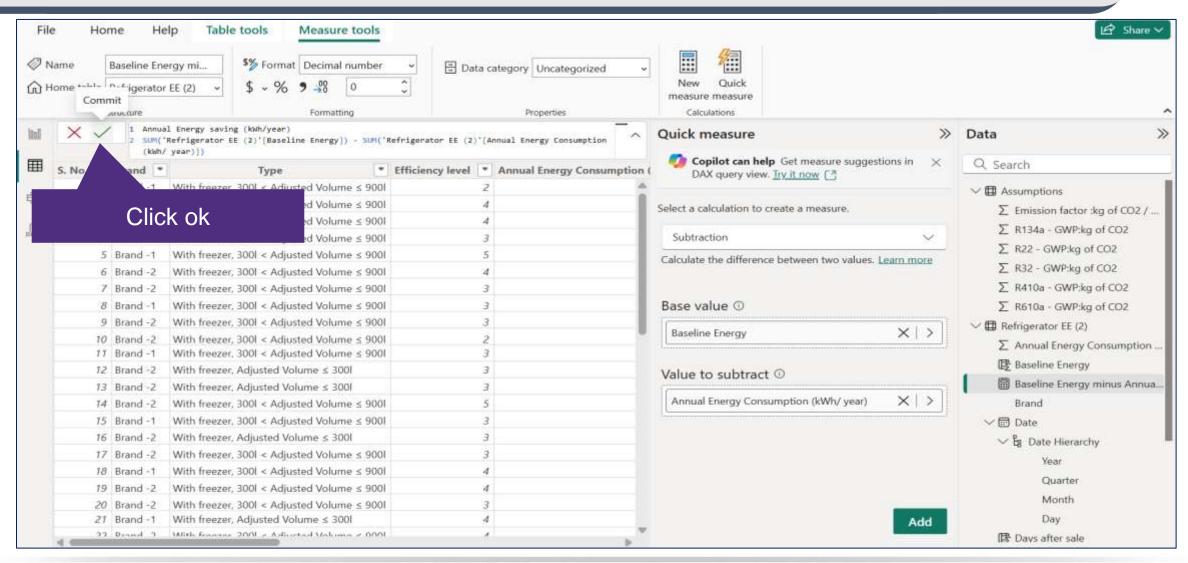








Renaming measure





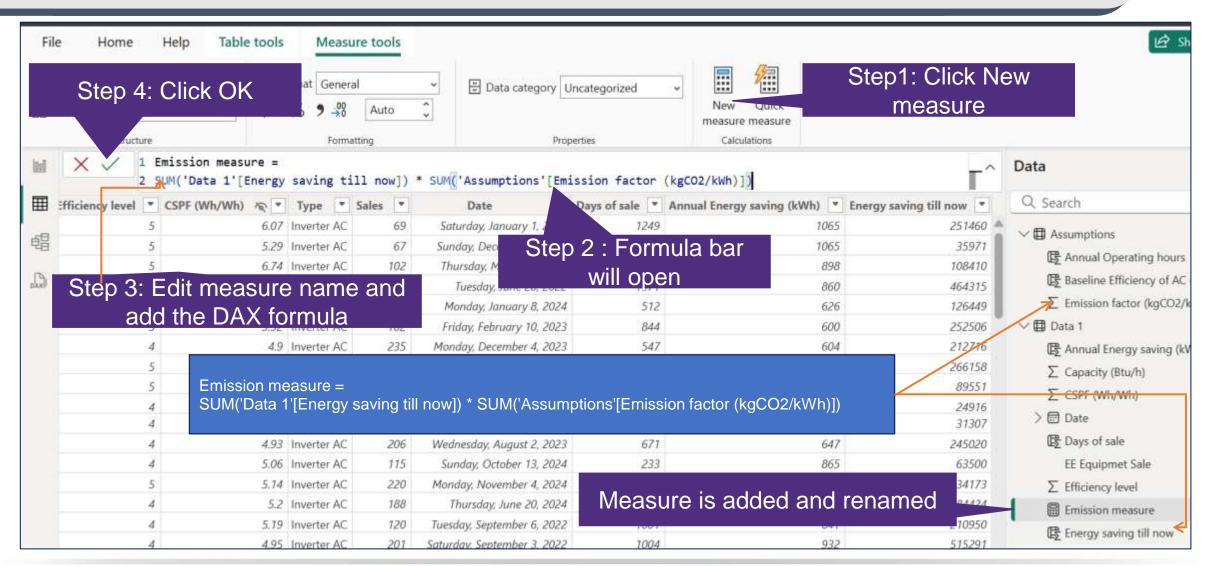






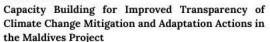


Adding Measure to calculate emission reduction







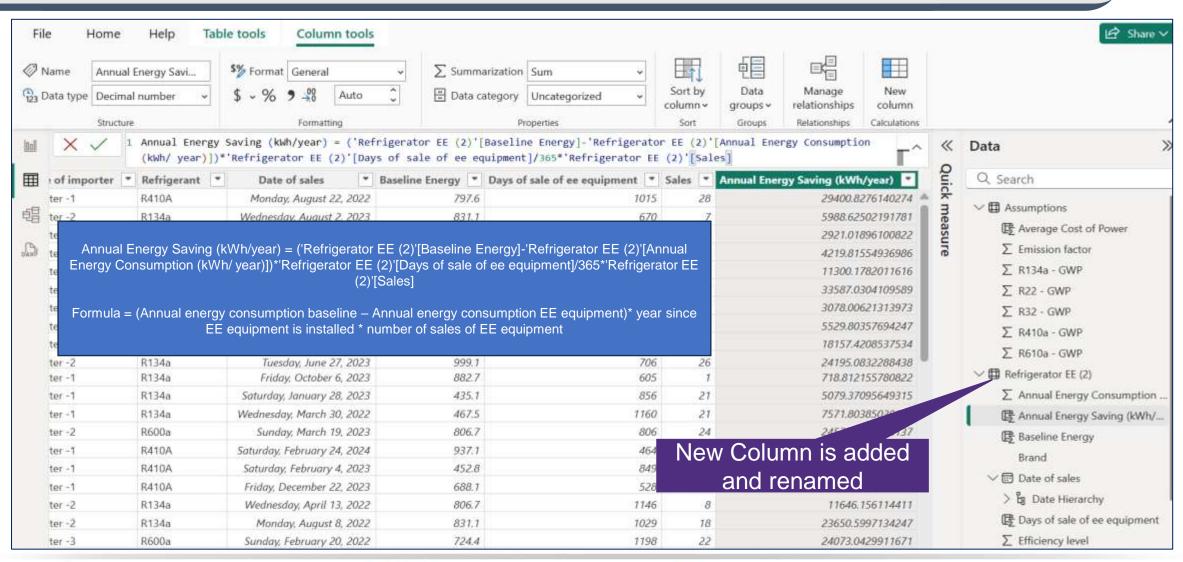








DAX functions for Energy Saving calculation





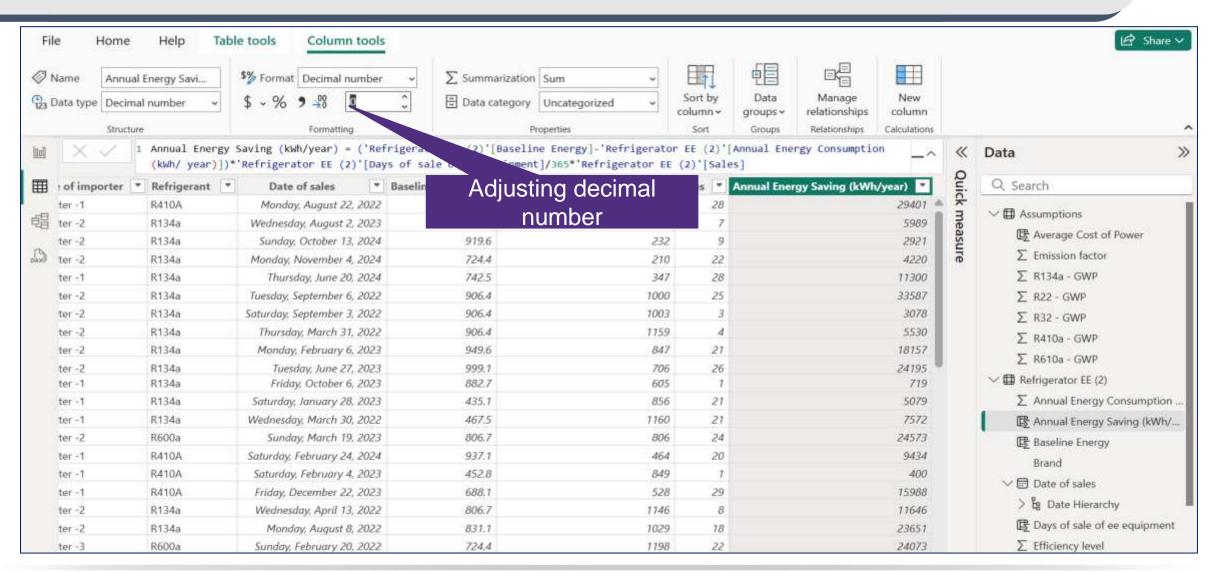






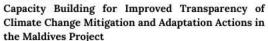


DAX functions for Energy Saving calculation





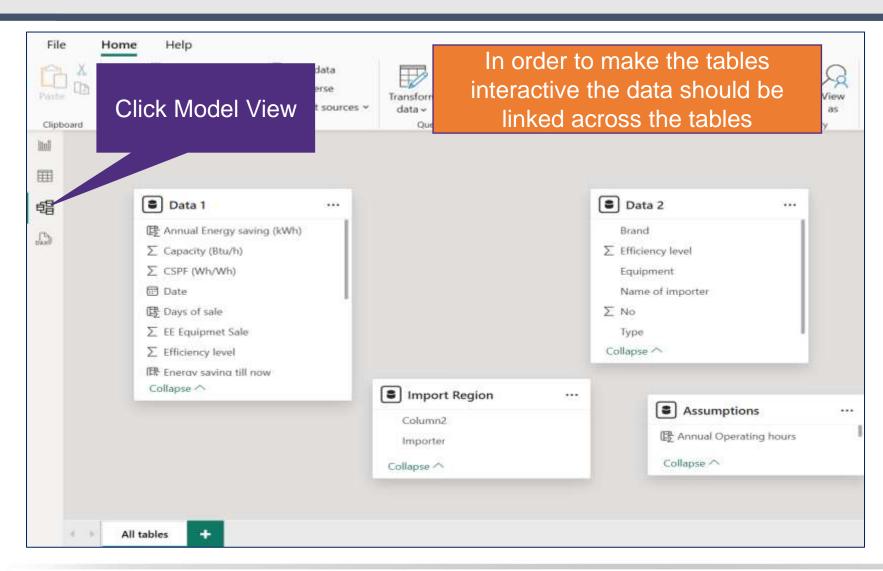












Data of the import region is there in – Import region

However, the Data 2 has only importer ID.

Data of the Brand is there in – Data 2

However, the Data 1 has only EE equipment Sales ID.

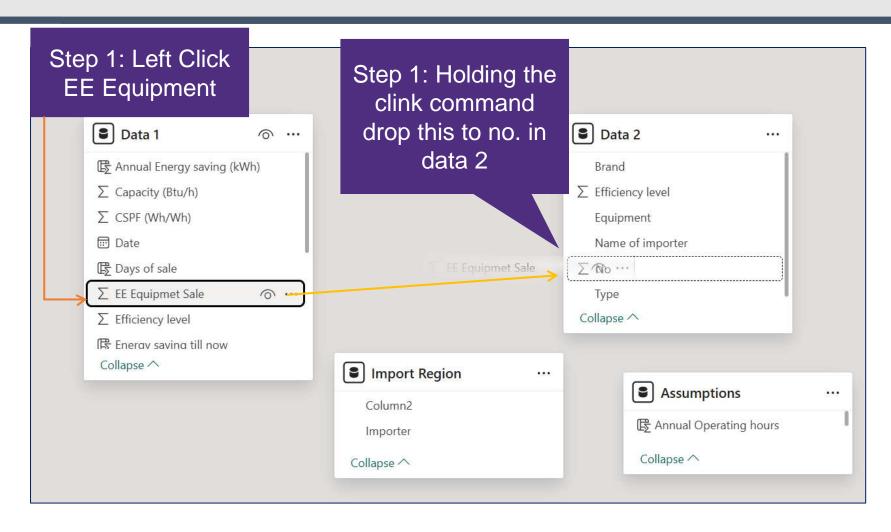




















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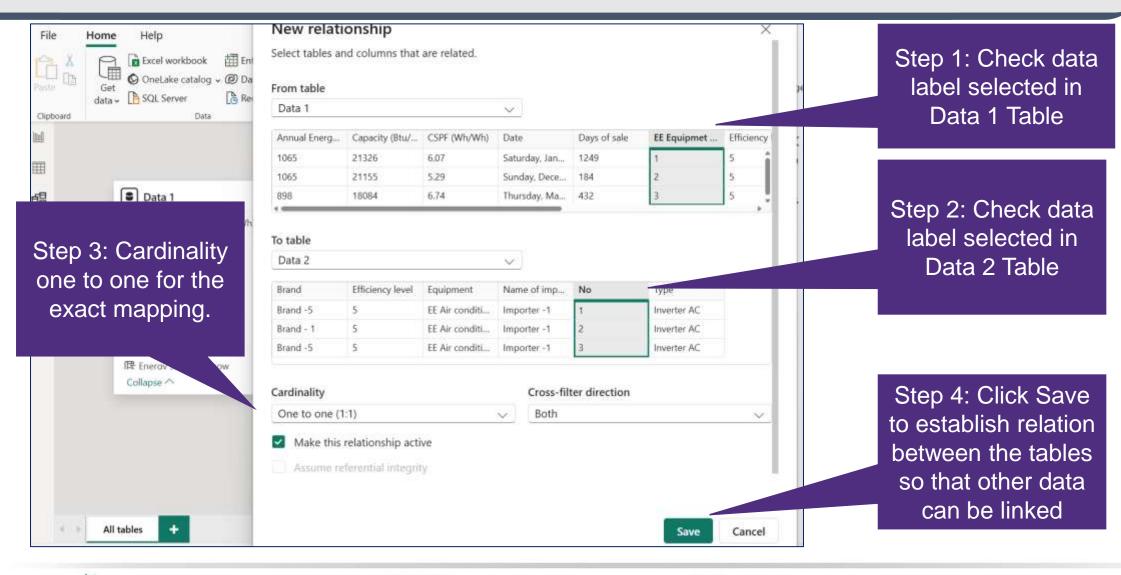
Climate Change Mitigation and Adaptation Actions in

CBIT Maldives

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Capacity Building for Improved Transparency of

Climate Change Mitigation and Adaptation Actions in



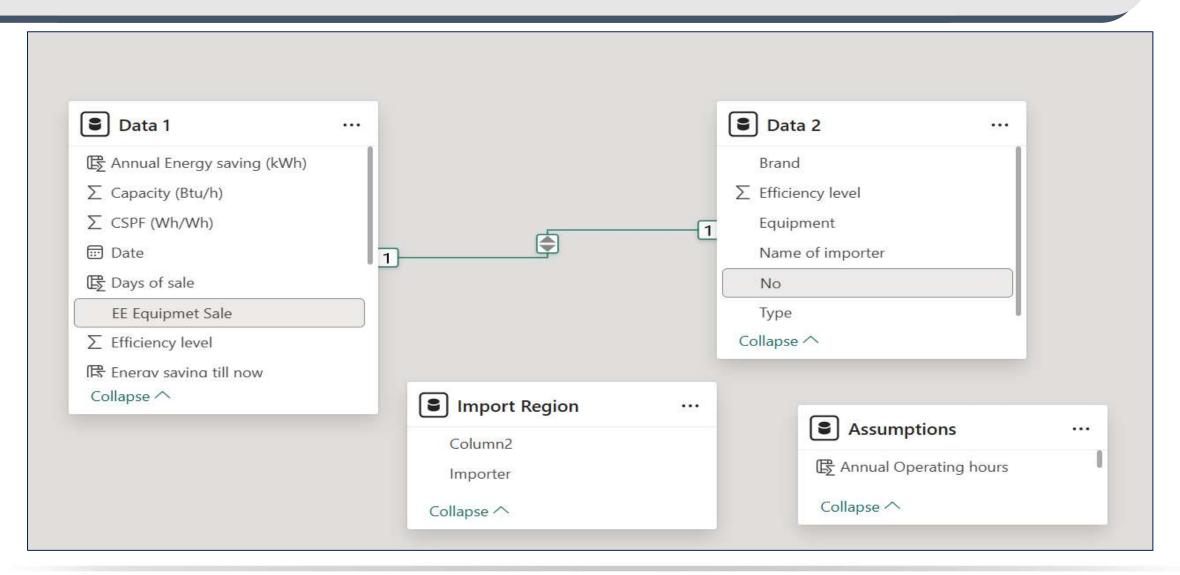






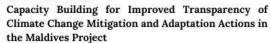










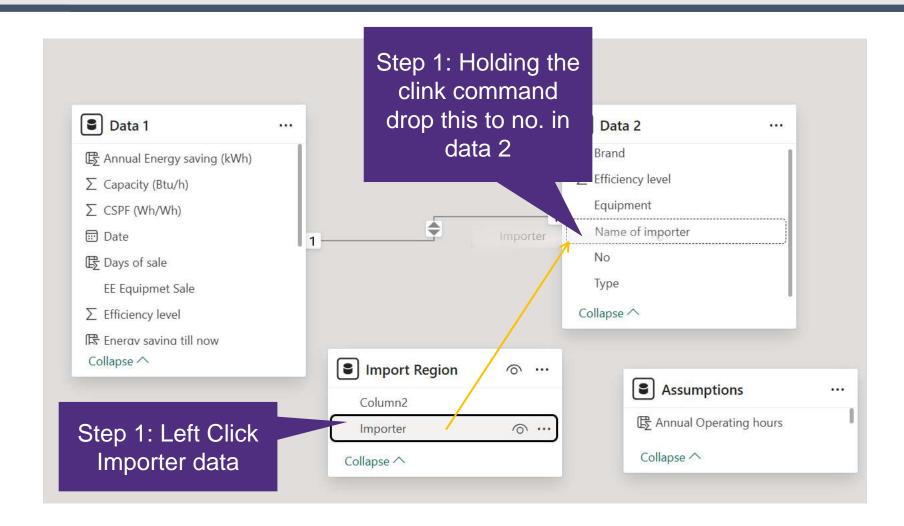






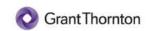










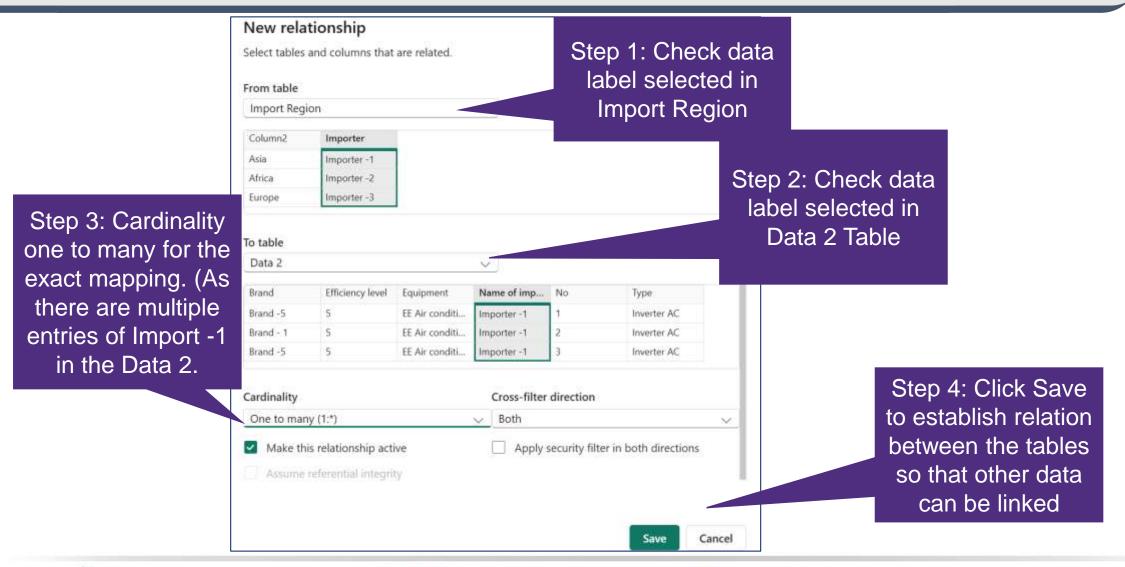


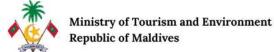


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Climate Change Mitigation and Adaptation Actions in

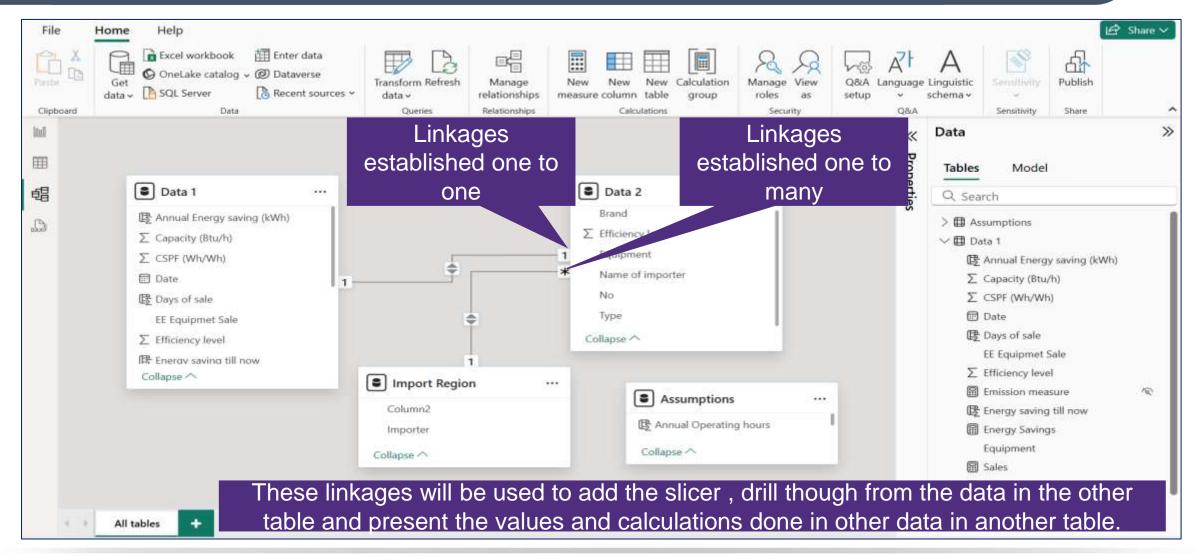






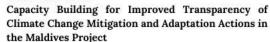










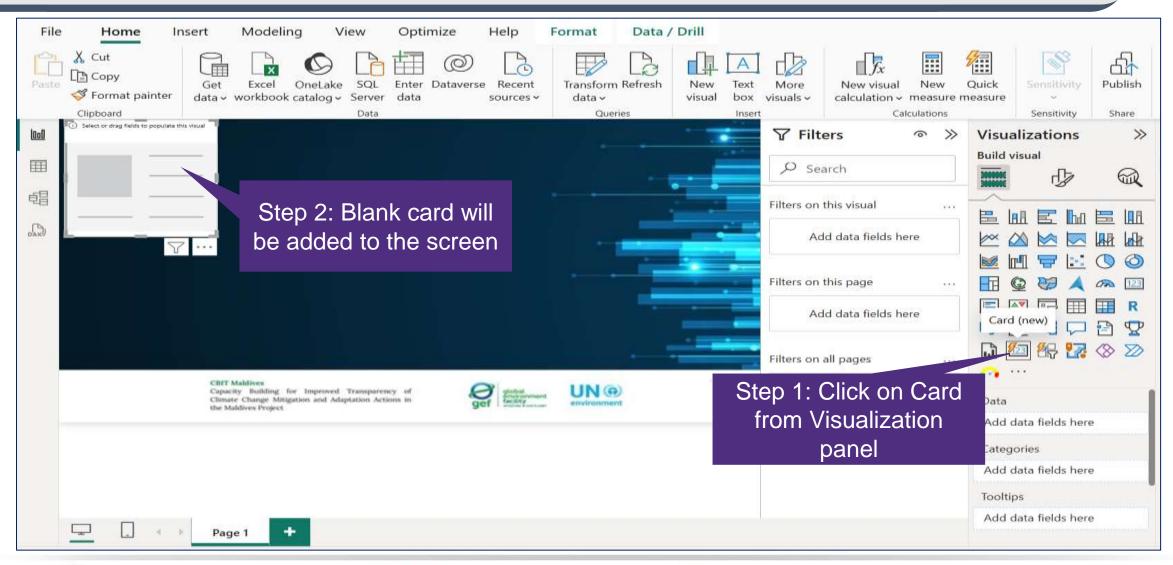


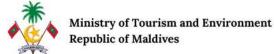




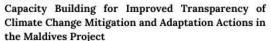
















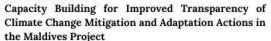










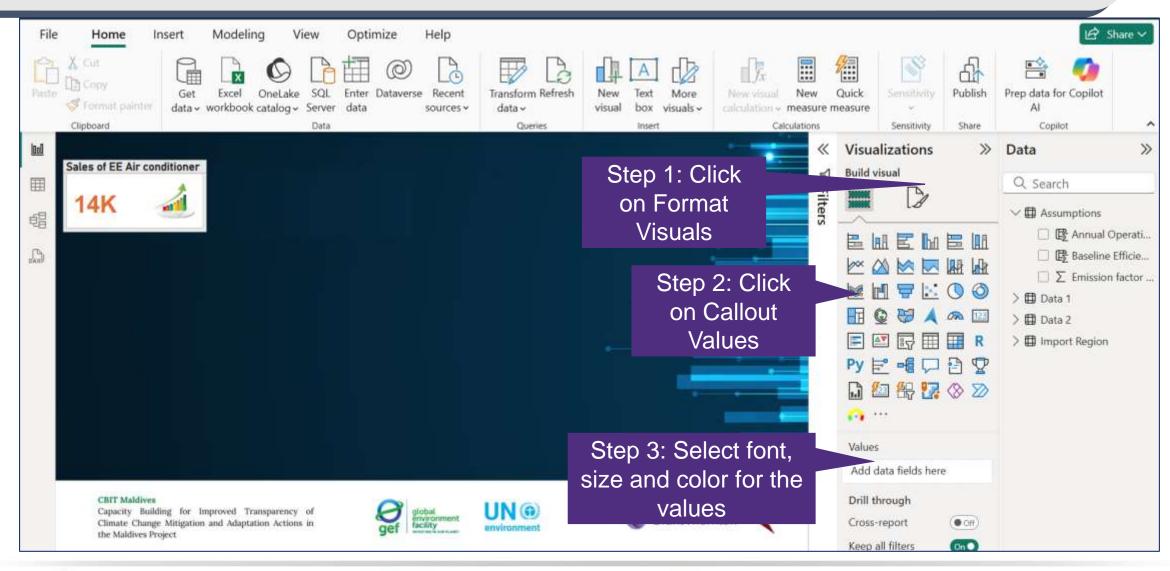




















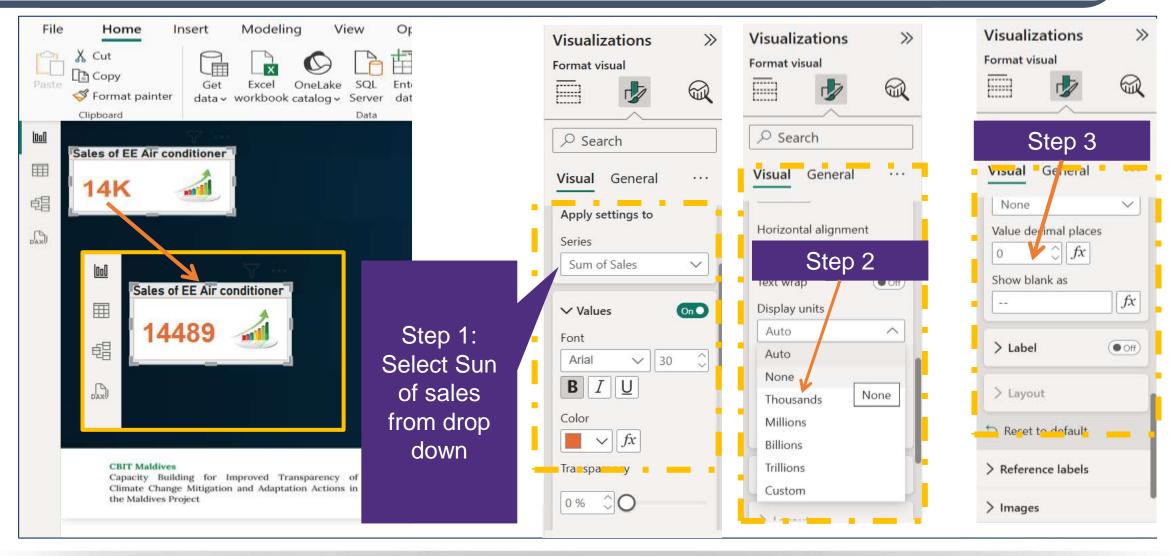




Updating Number format

Ministry of Tourism and Environment

Republic of Maldives





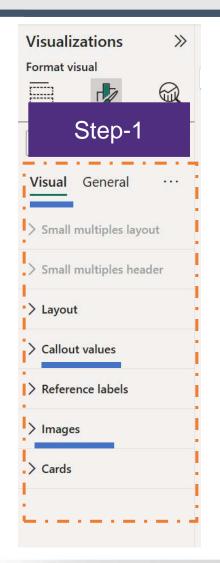


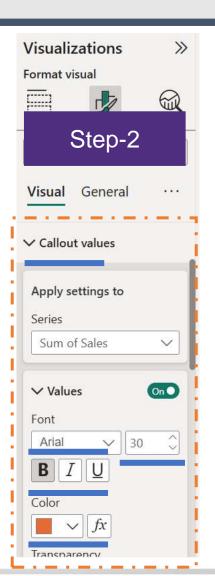


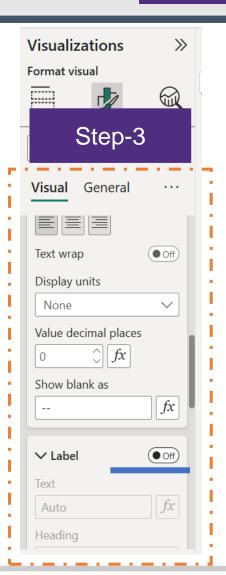


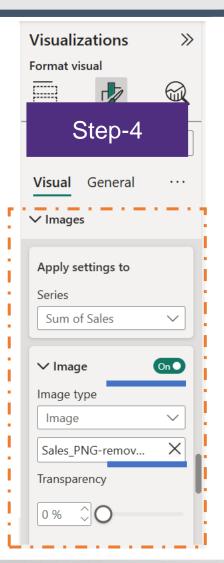


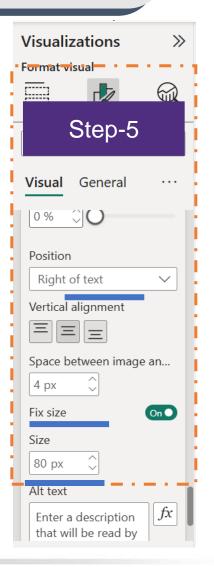
Formatting Visuals













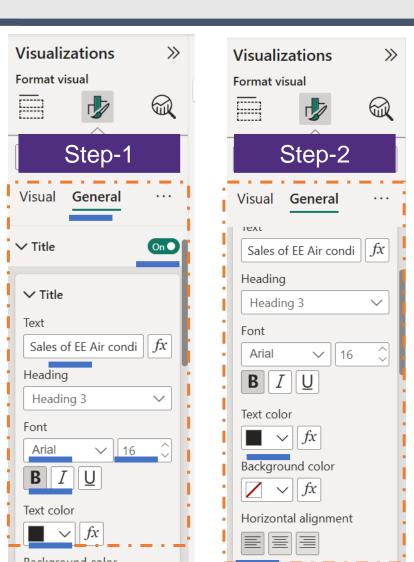




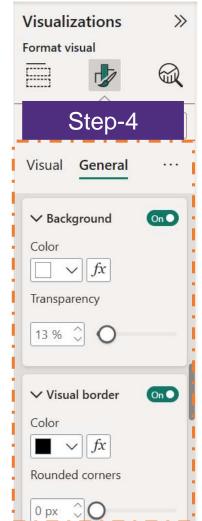


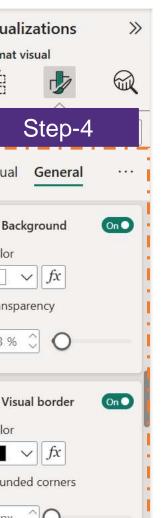


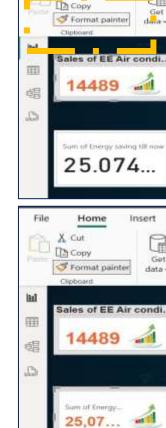
RIYAN PRIVATE LIMITED













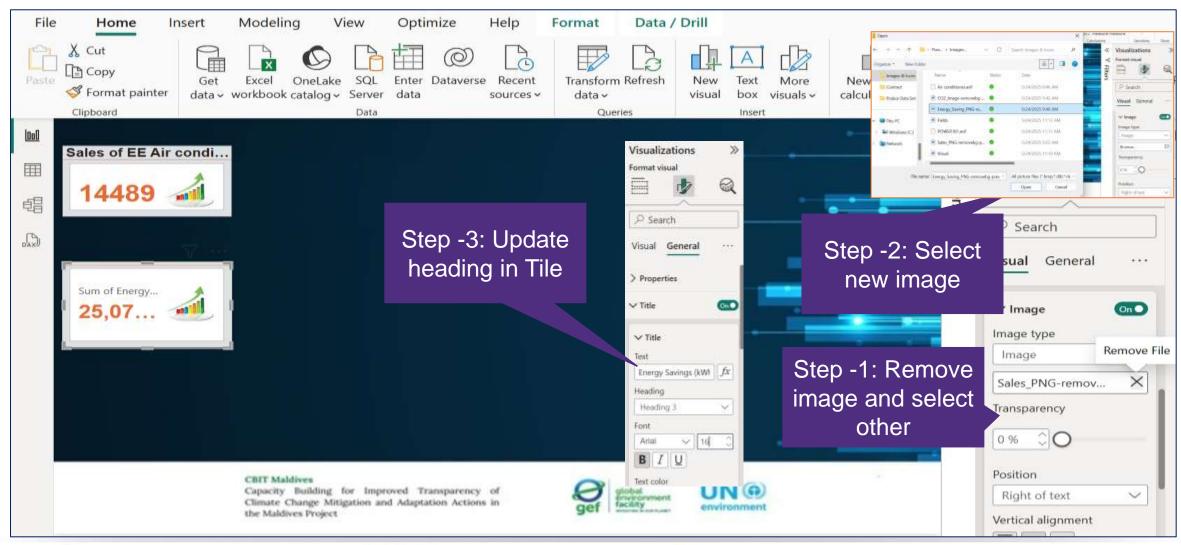
CBIT Maldives

Insert

Insert

Get

data - work





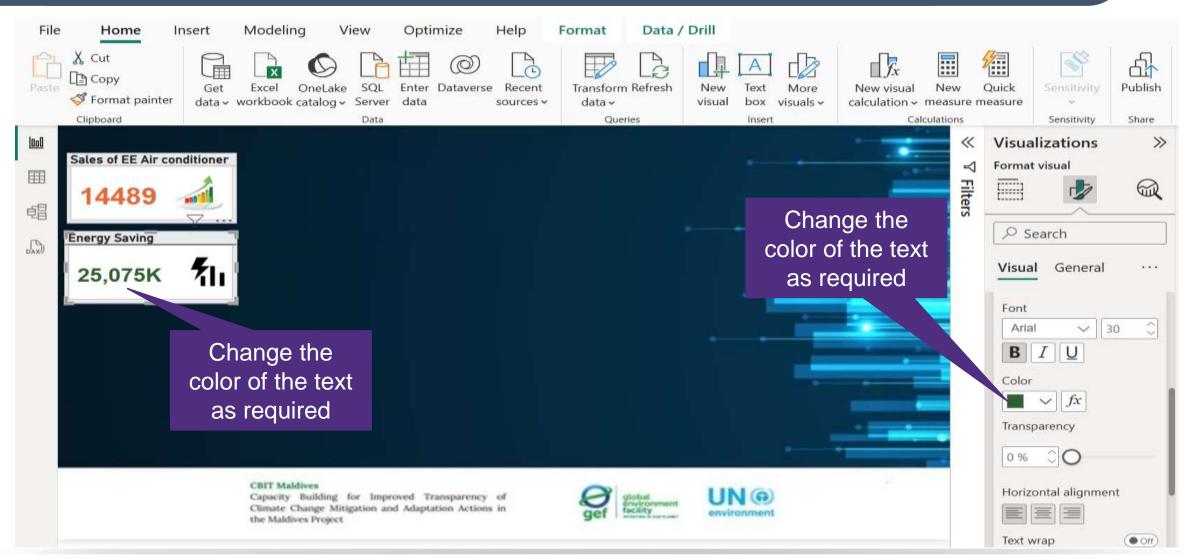
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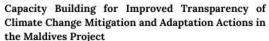










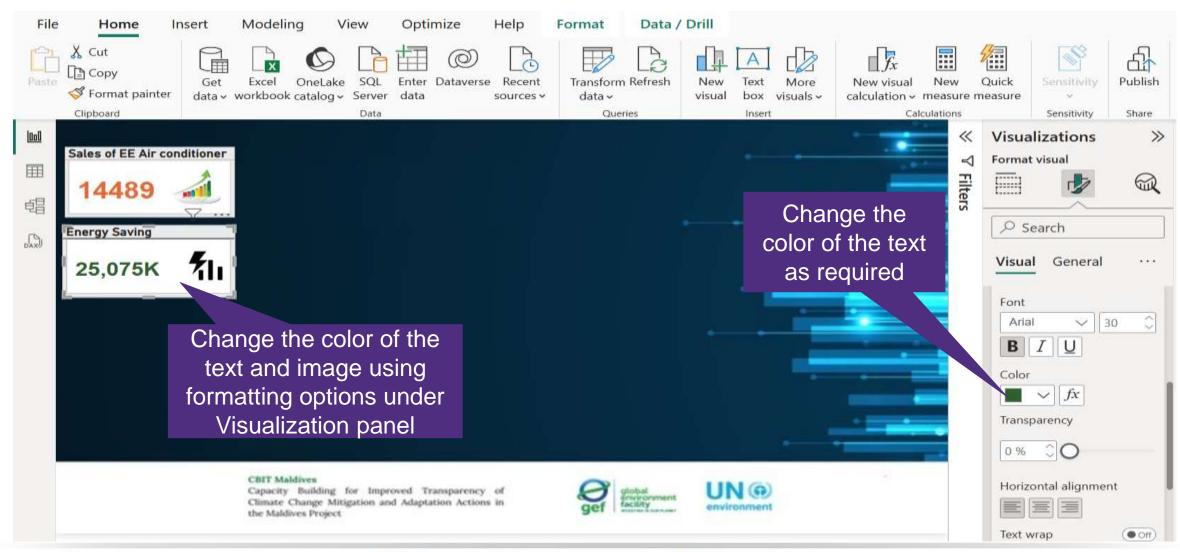






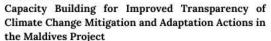










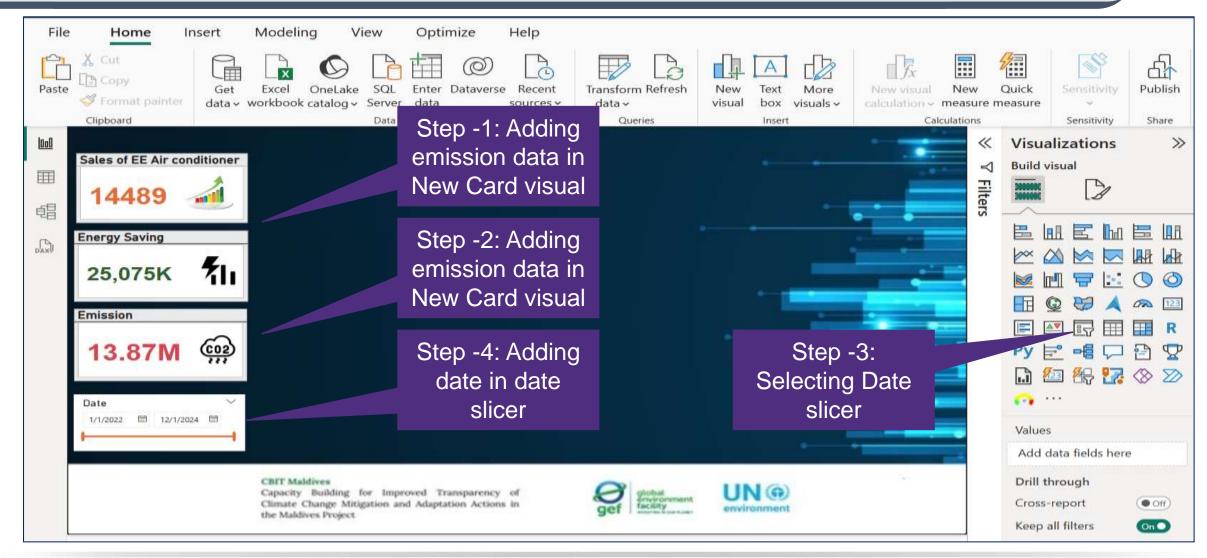


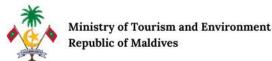








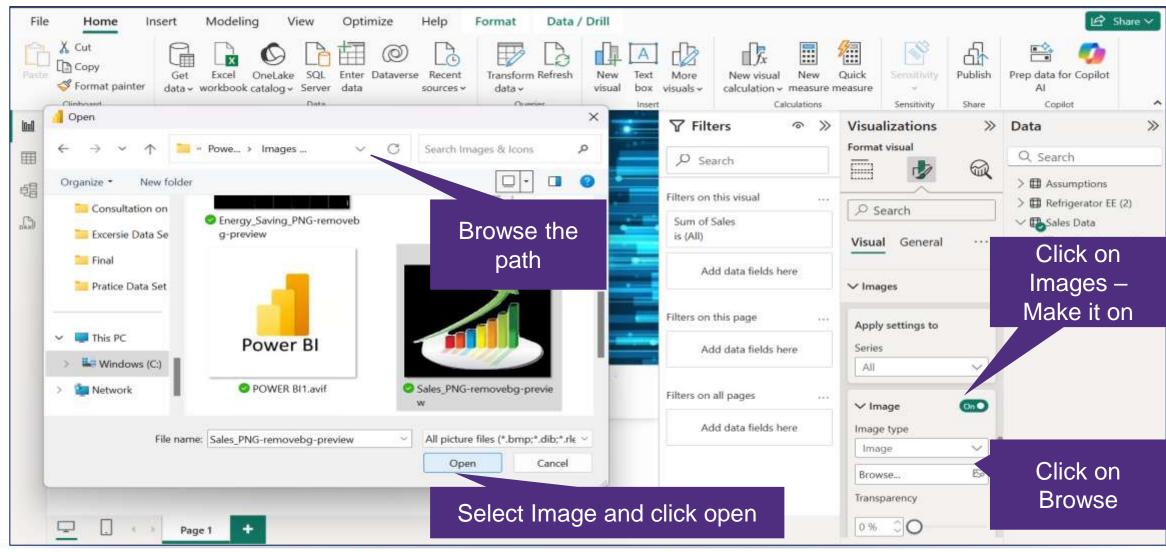














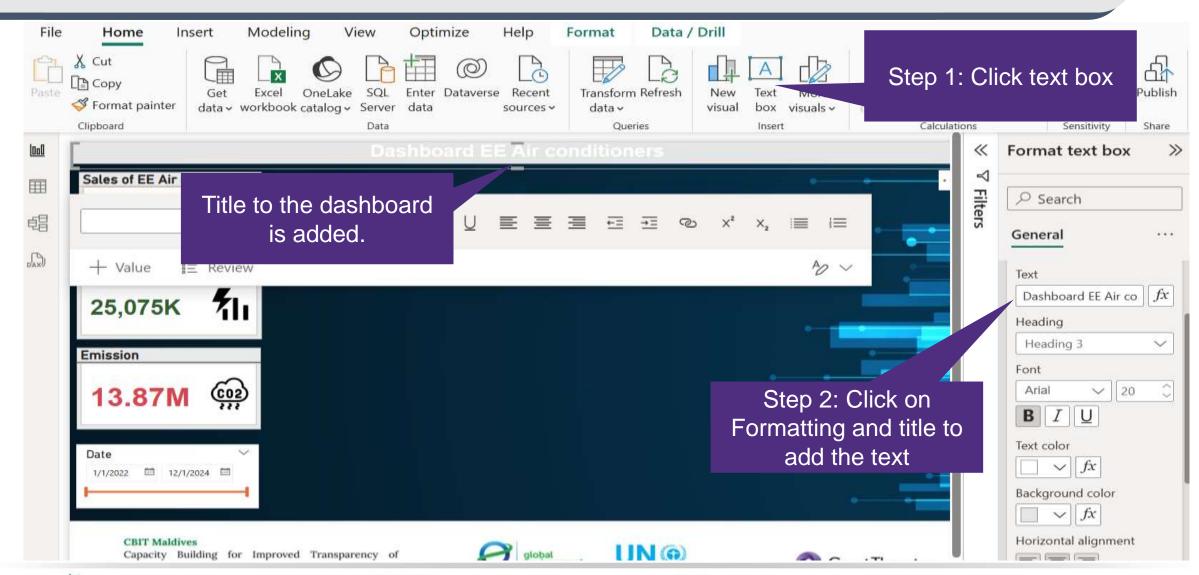
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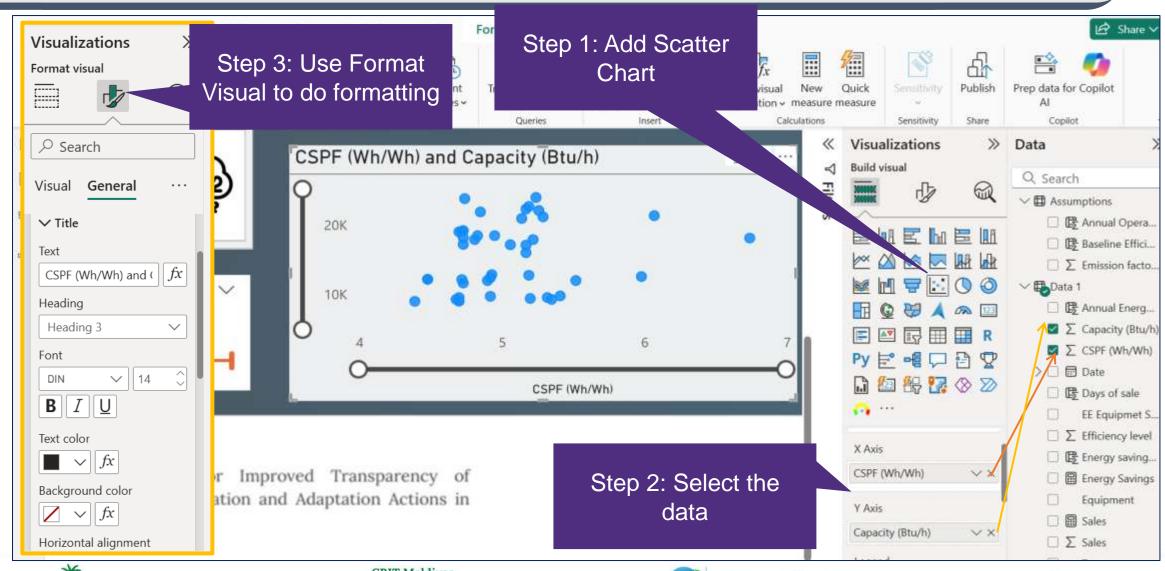








Adding Scatter Chart







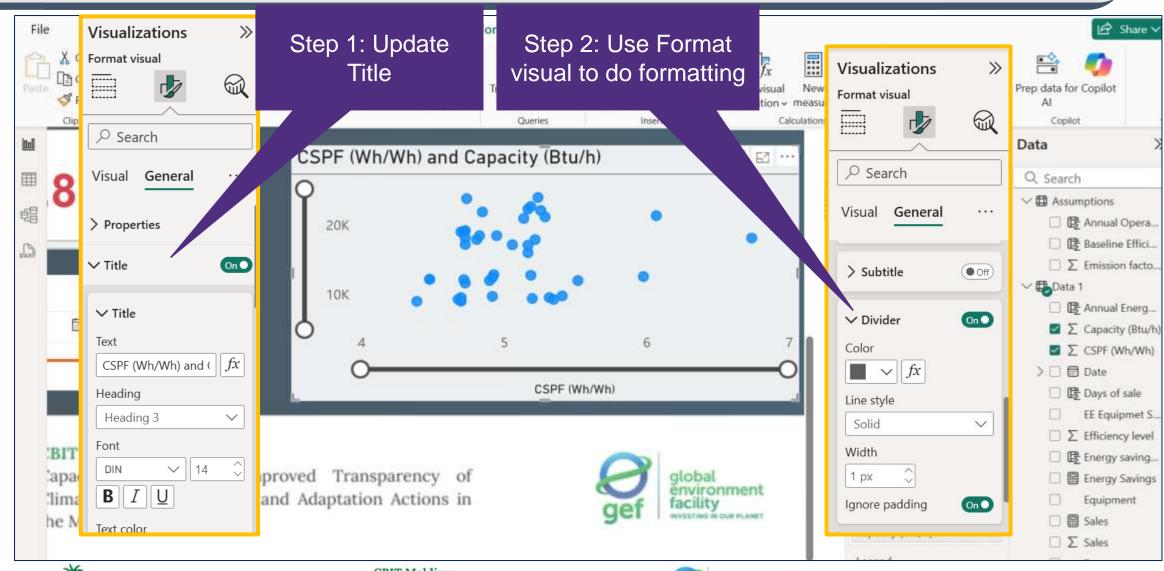








Adding Scatter Chart





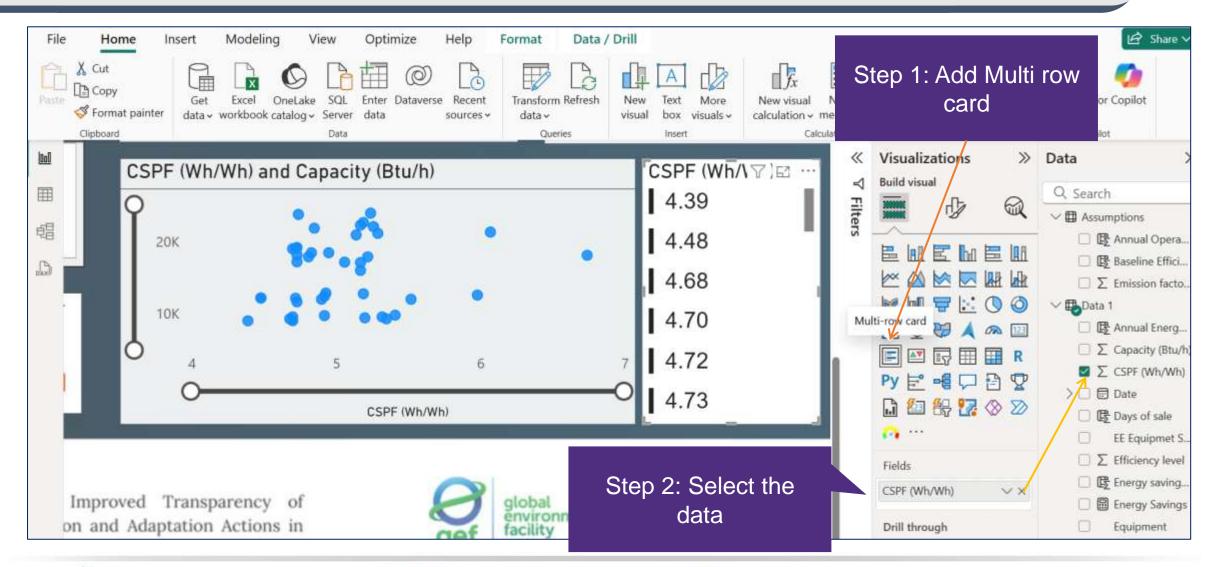












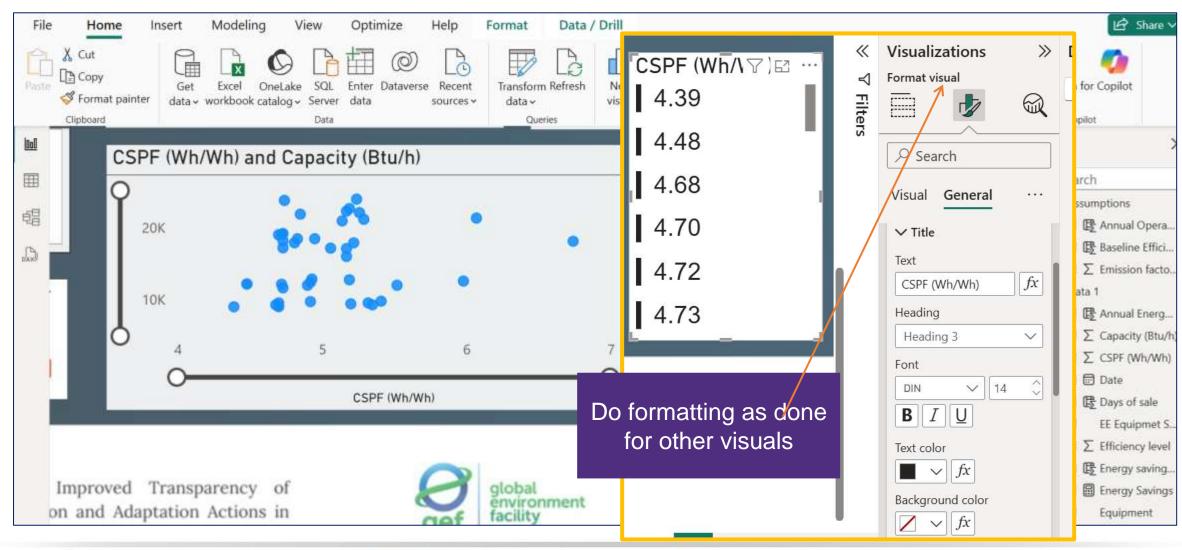












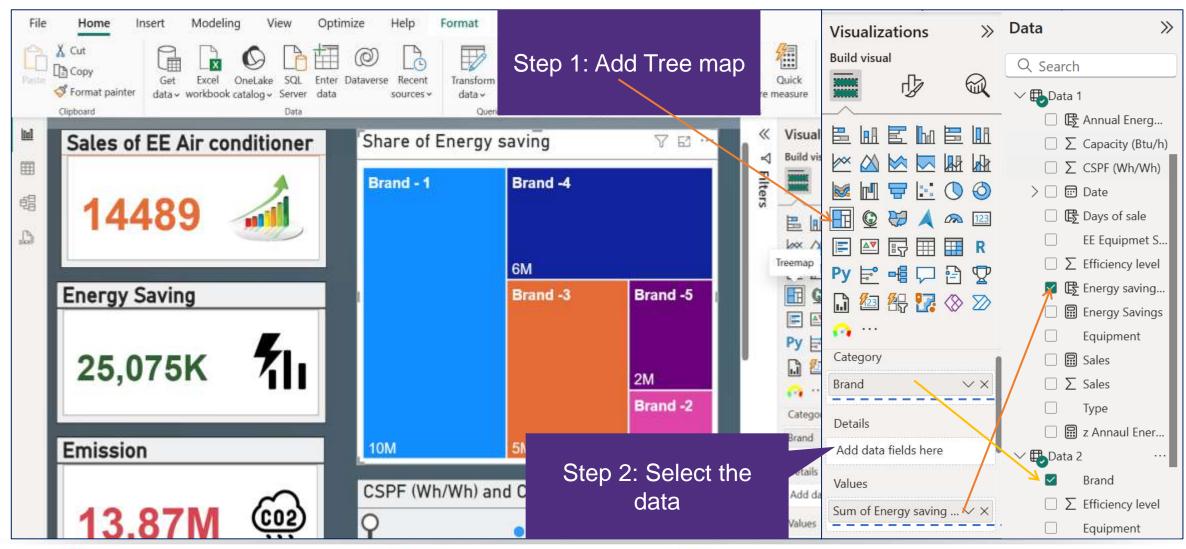














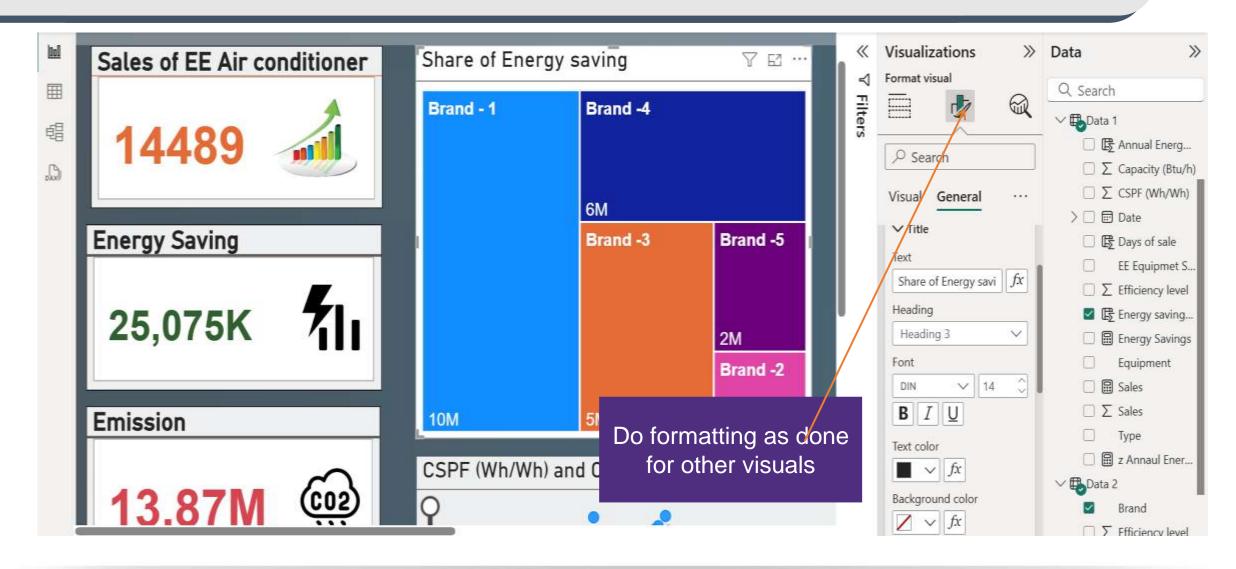
CBIT Maldives



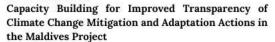










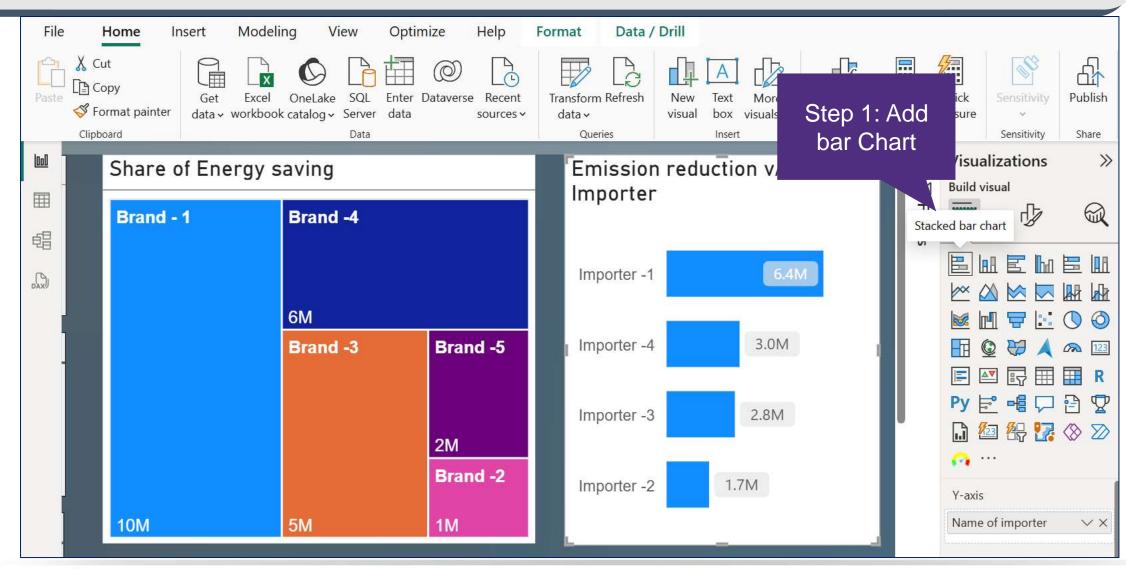






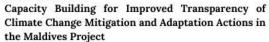


Adding Column chart









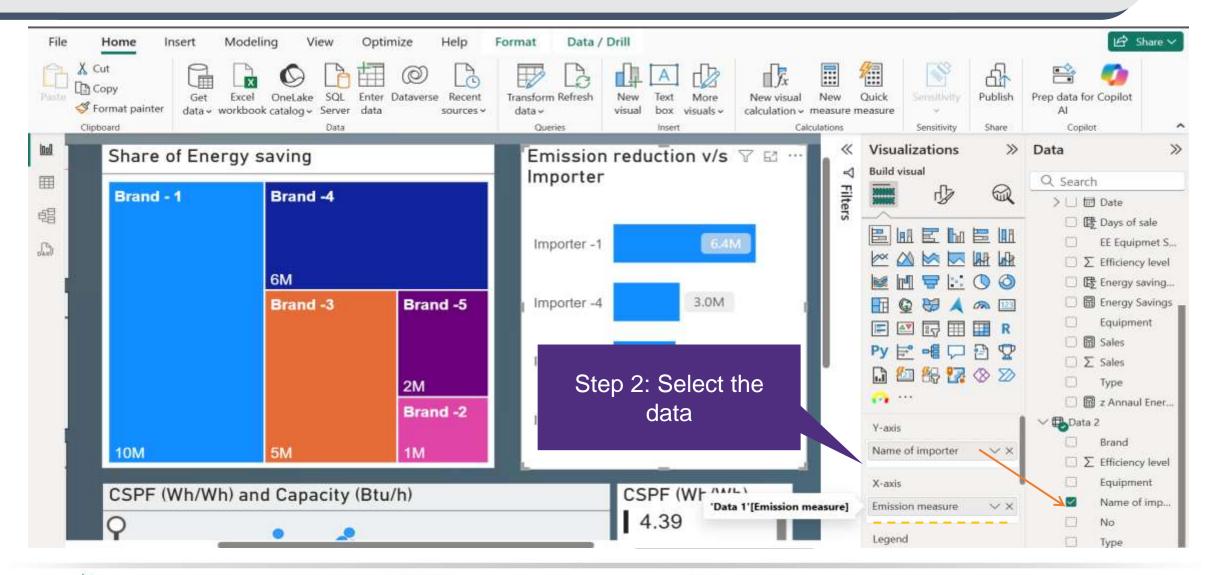






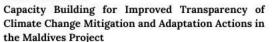


Adding Column chart







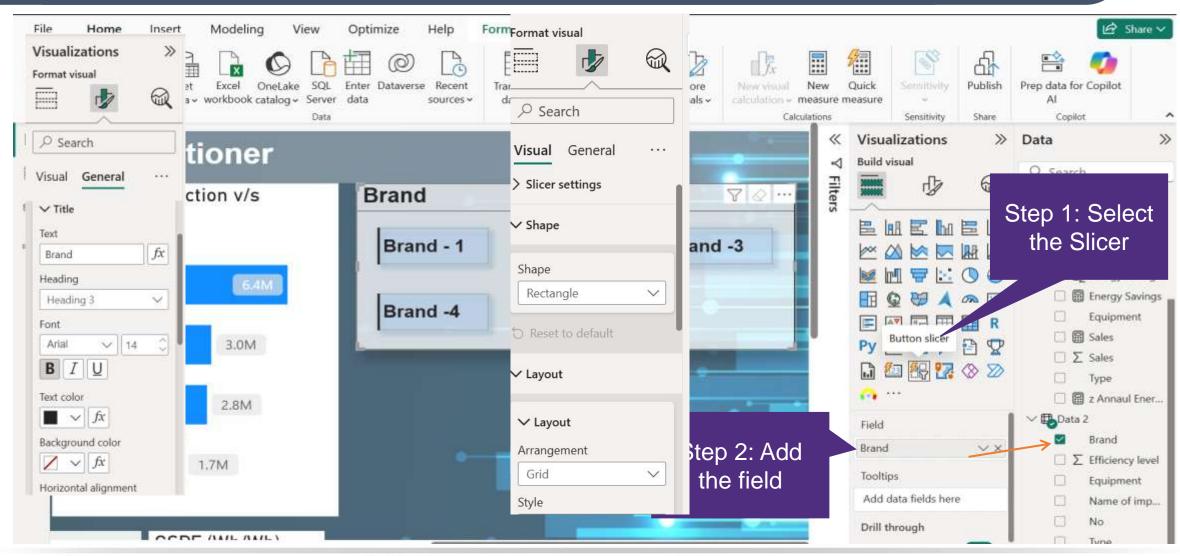








Adding Slicer







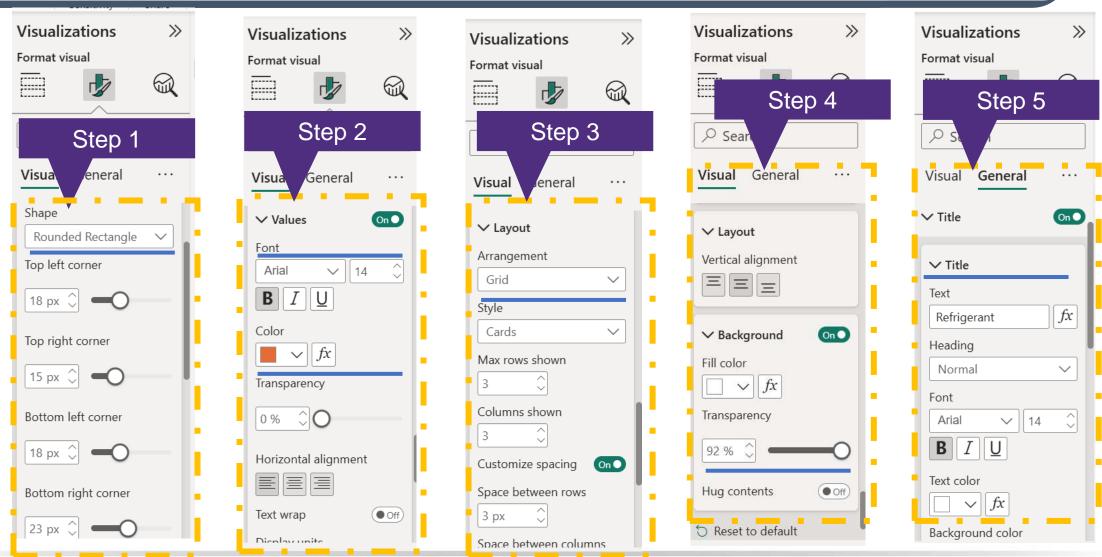




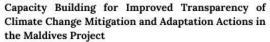




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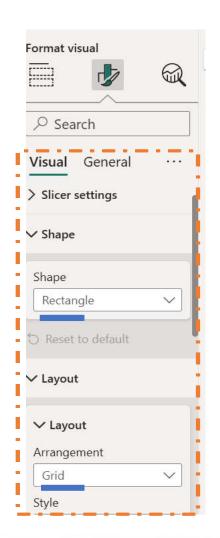






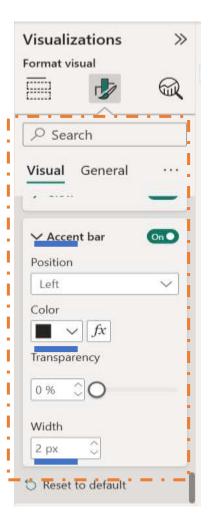


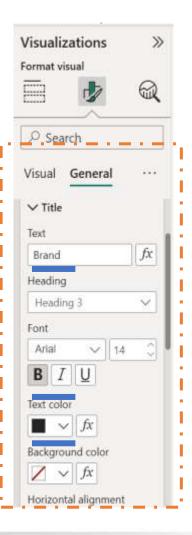
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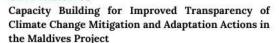












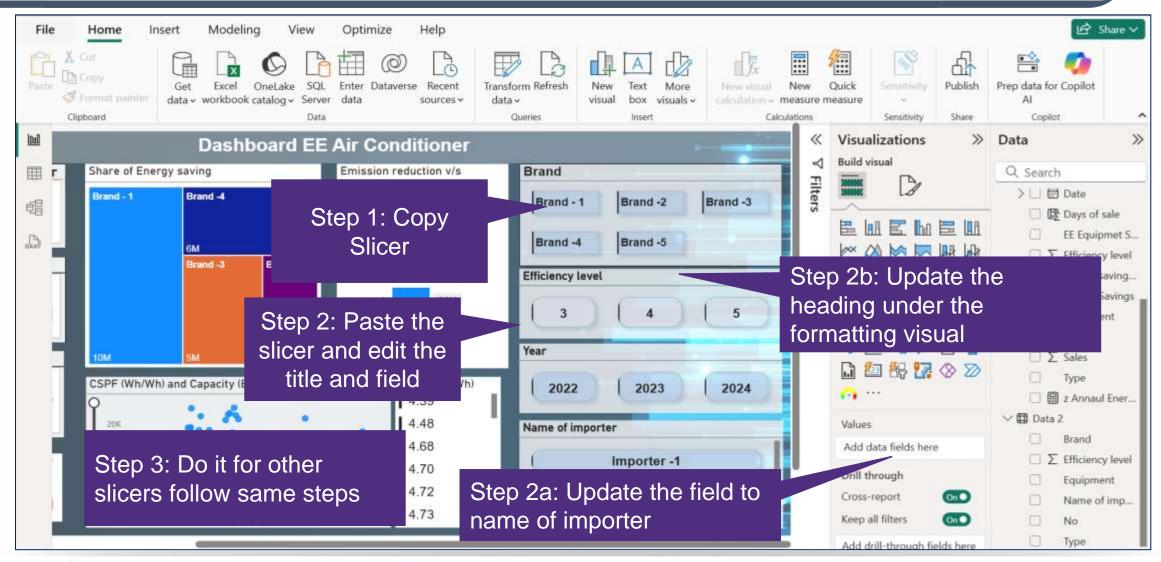






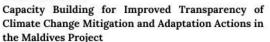


Adding new Slices









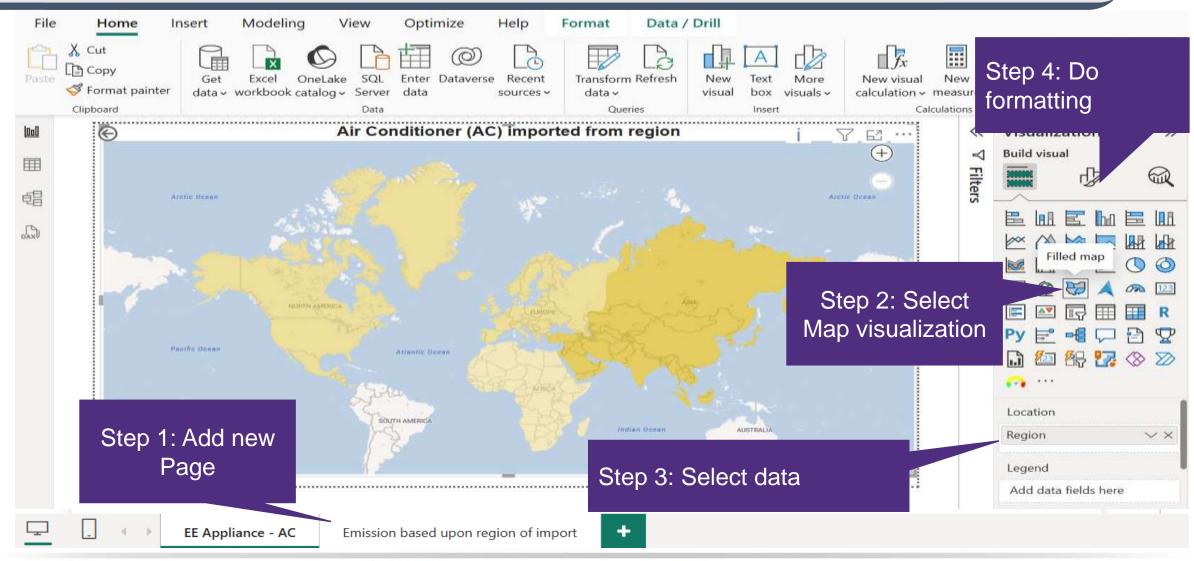






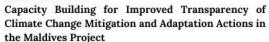


Adding Region in new sheet









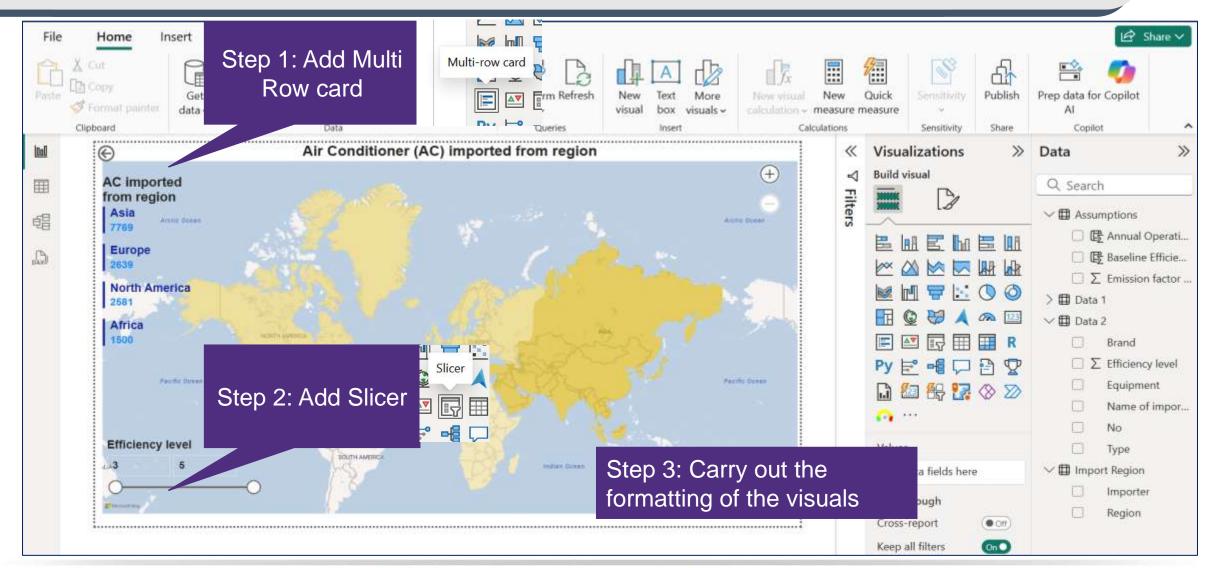








Adding Region in new sheet







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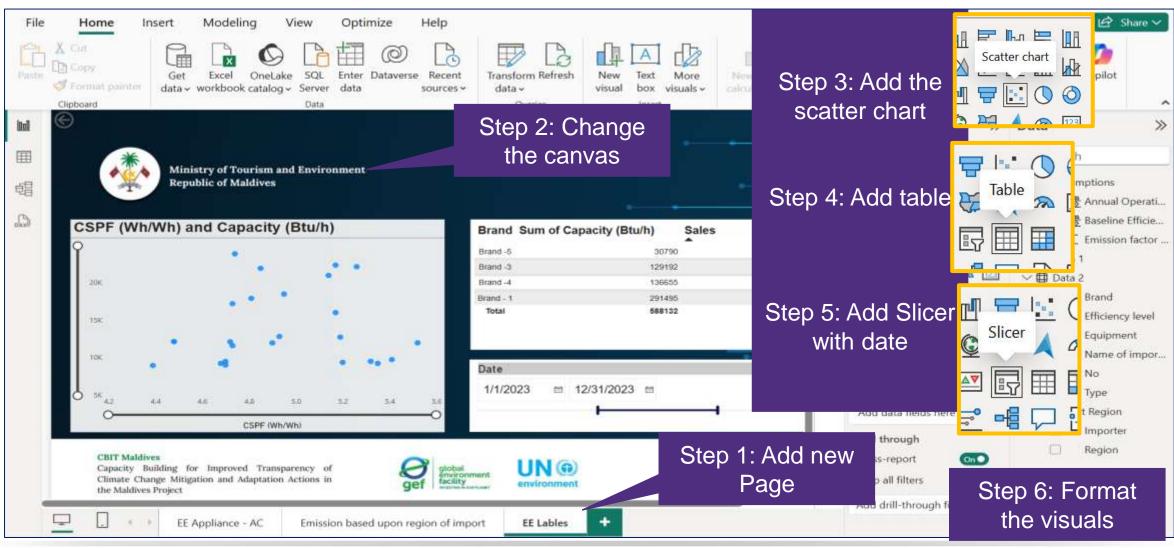








Adding new sheet





Ministry of Tourism and Environment

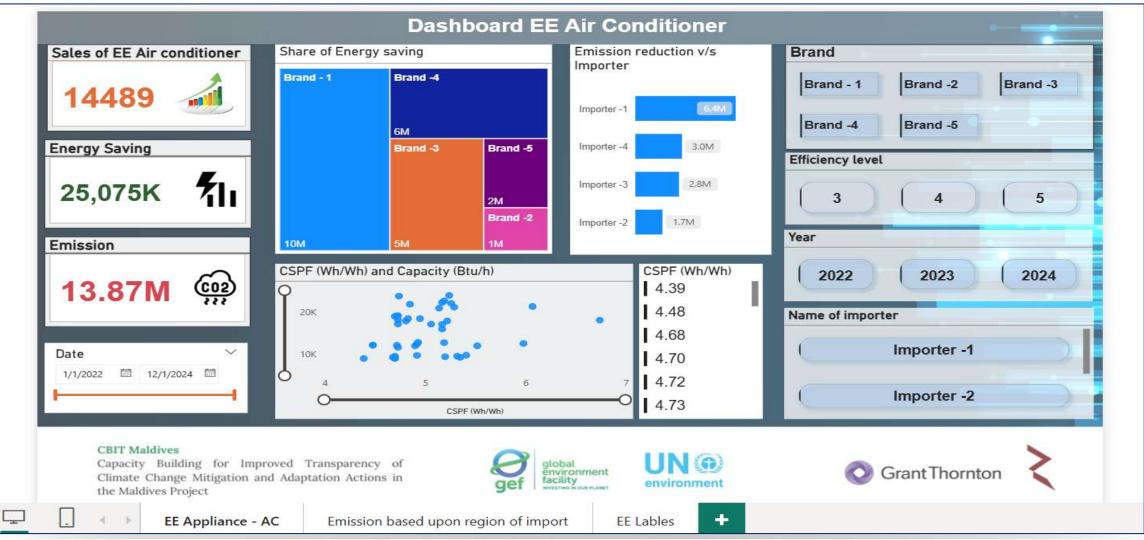
Republic of Maldives







Final Dashboard





Republic of Maldives



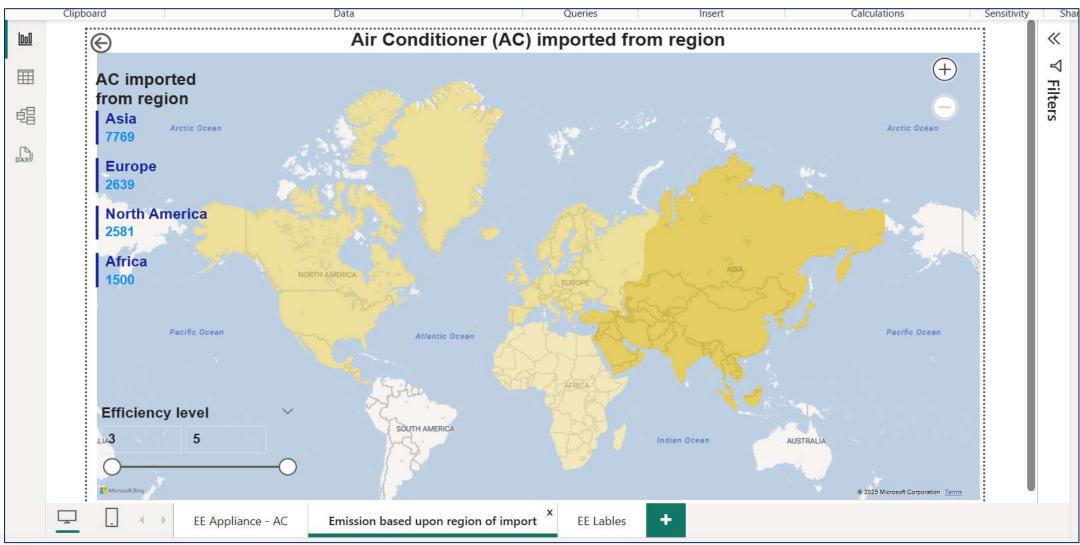








Final Dashboard



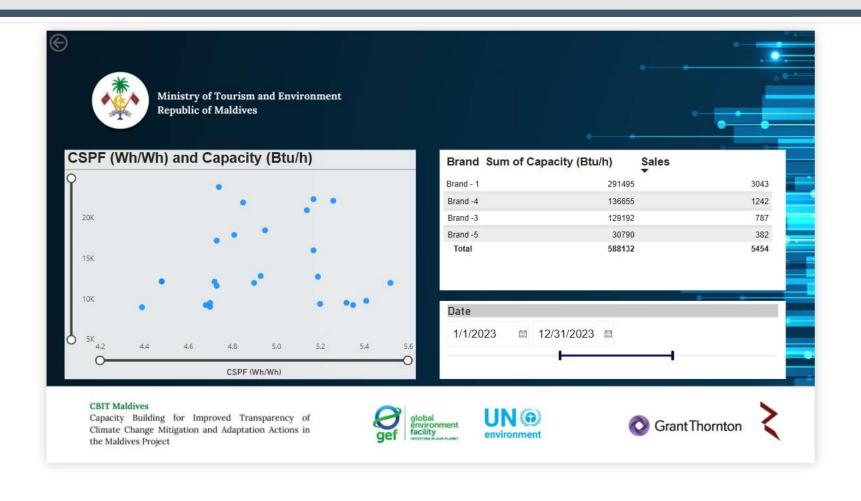








Final Dashboard







EE Appliance - AC

Emission based upon region of import









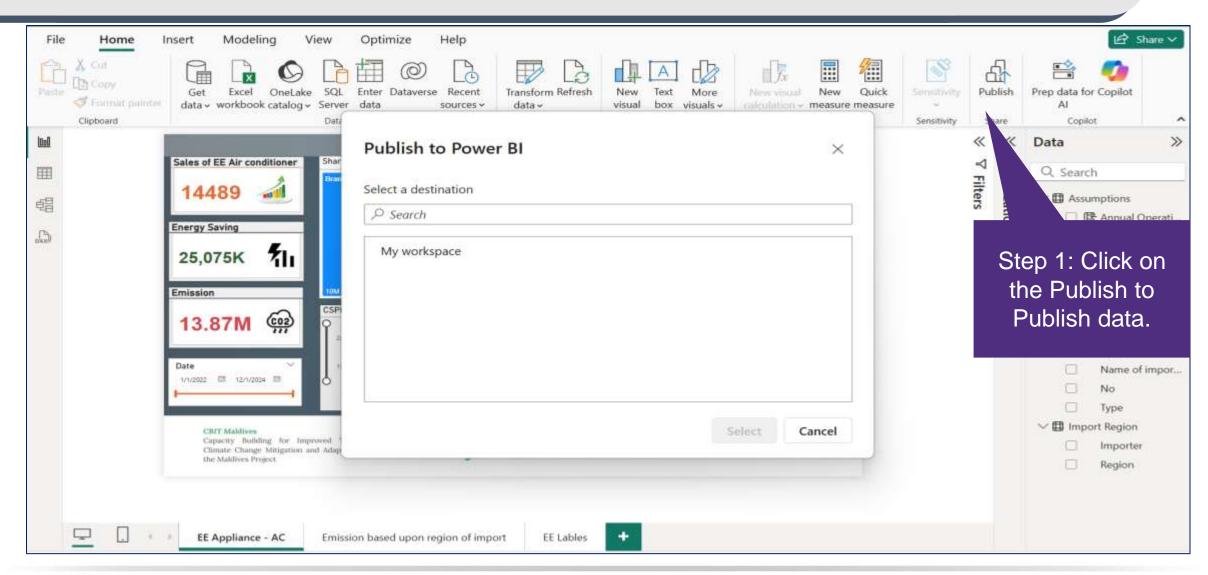








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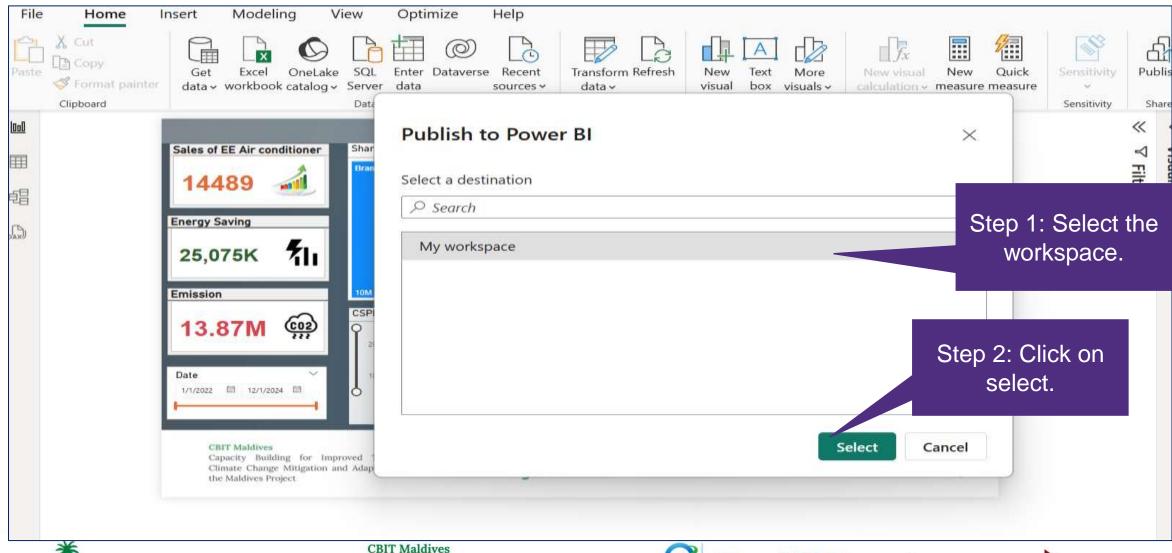








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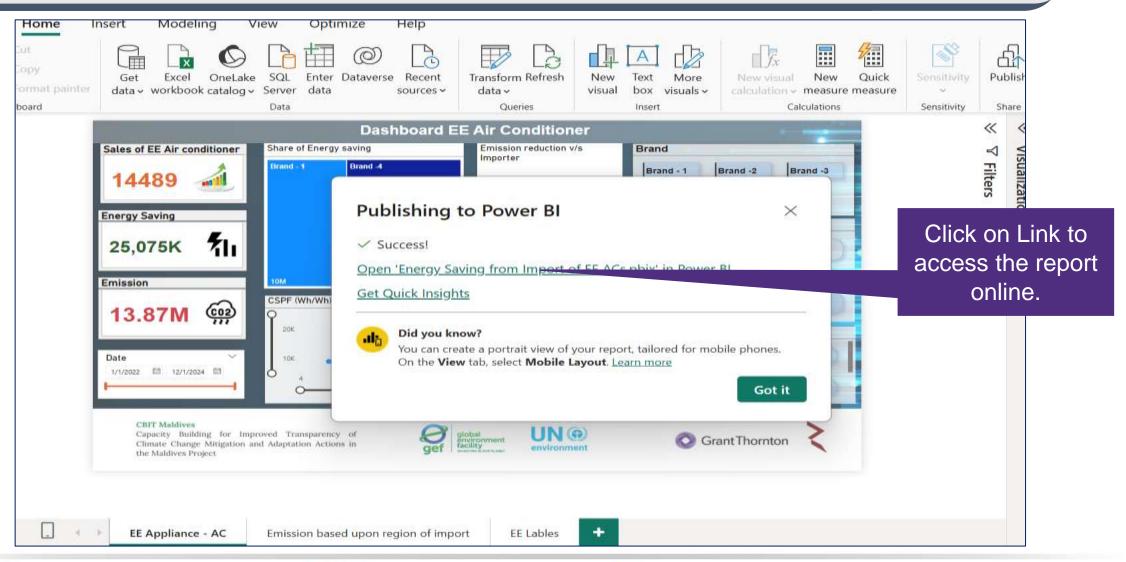






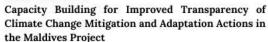


Publishing data









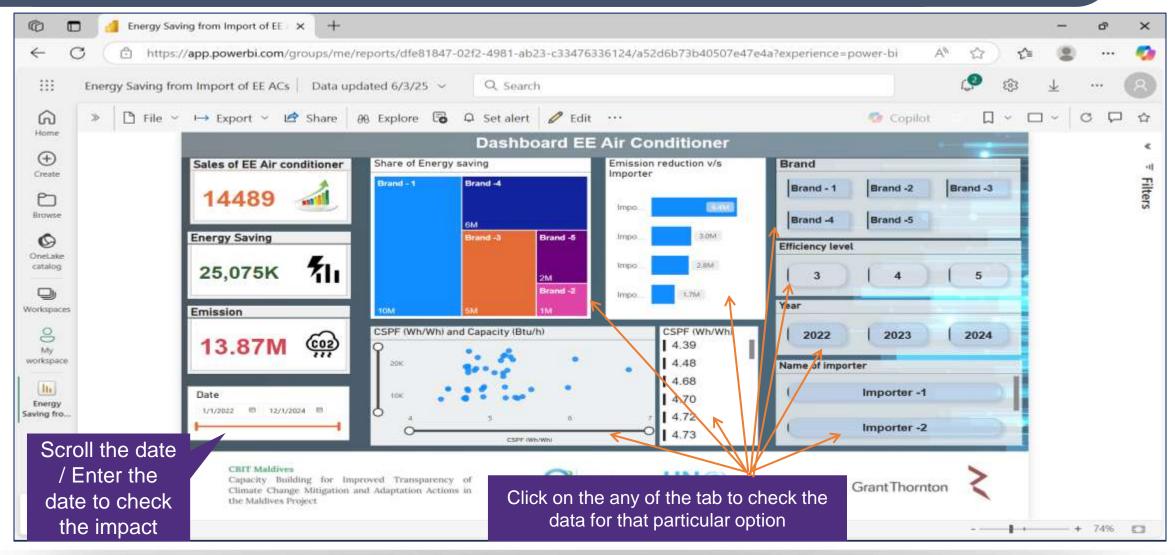








Opening Report online

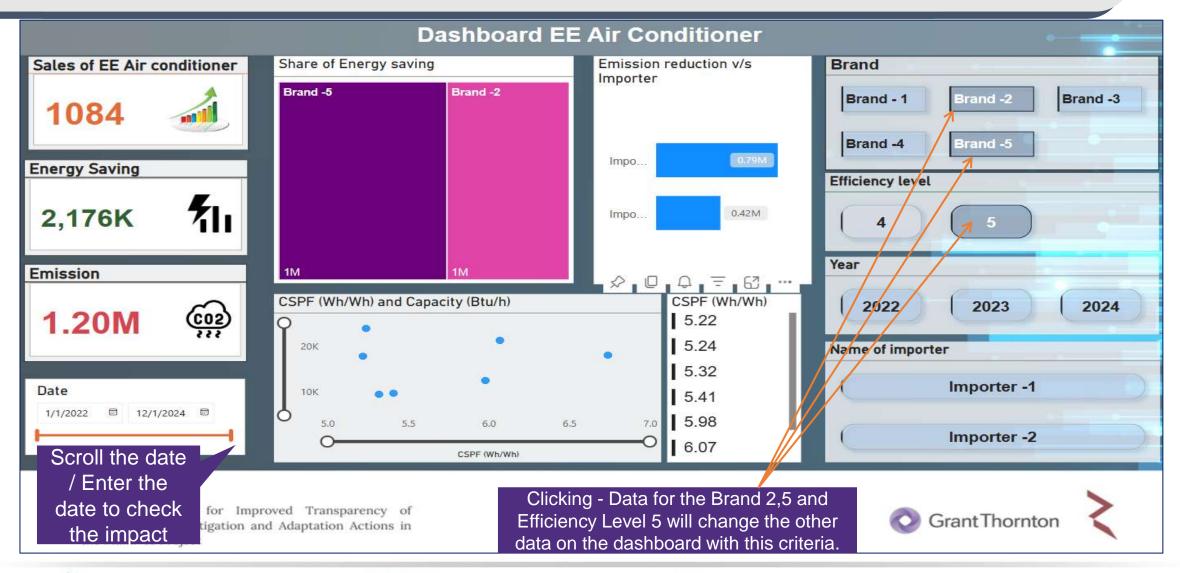








Checking the data from online dashboard





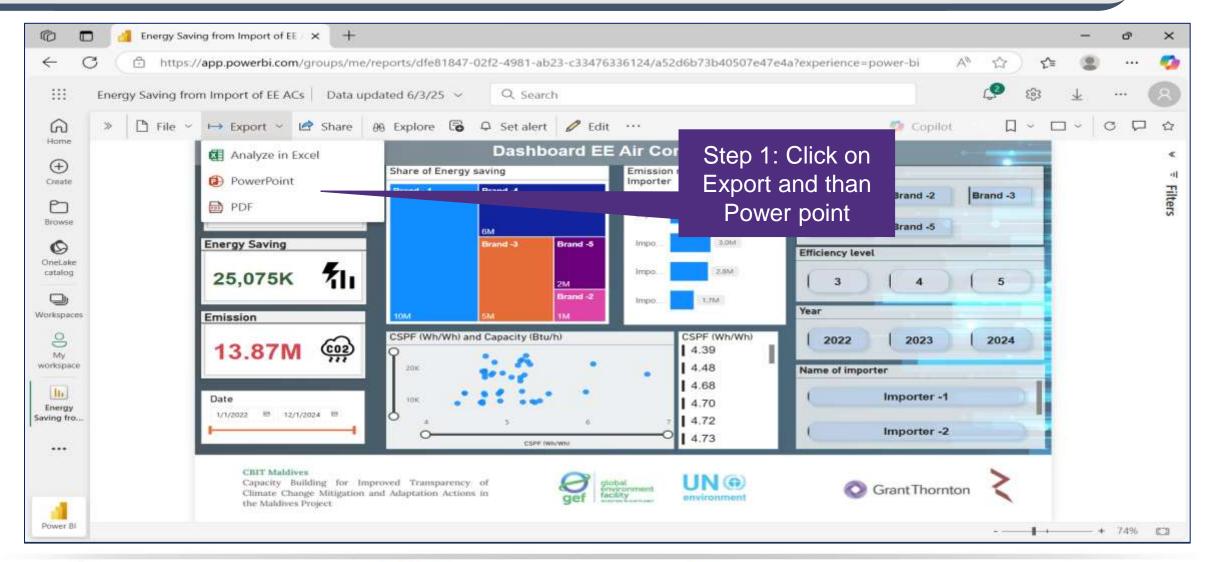








Exporting online dashboard







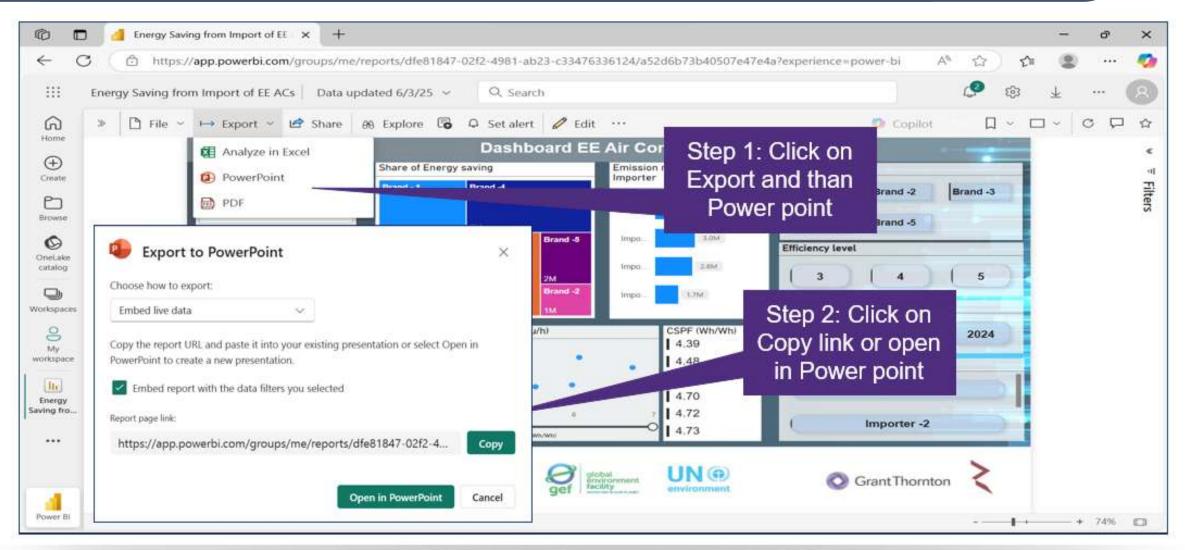








Exporting online dashboard

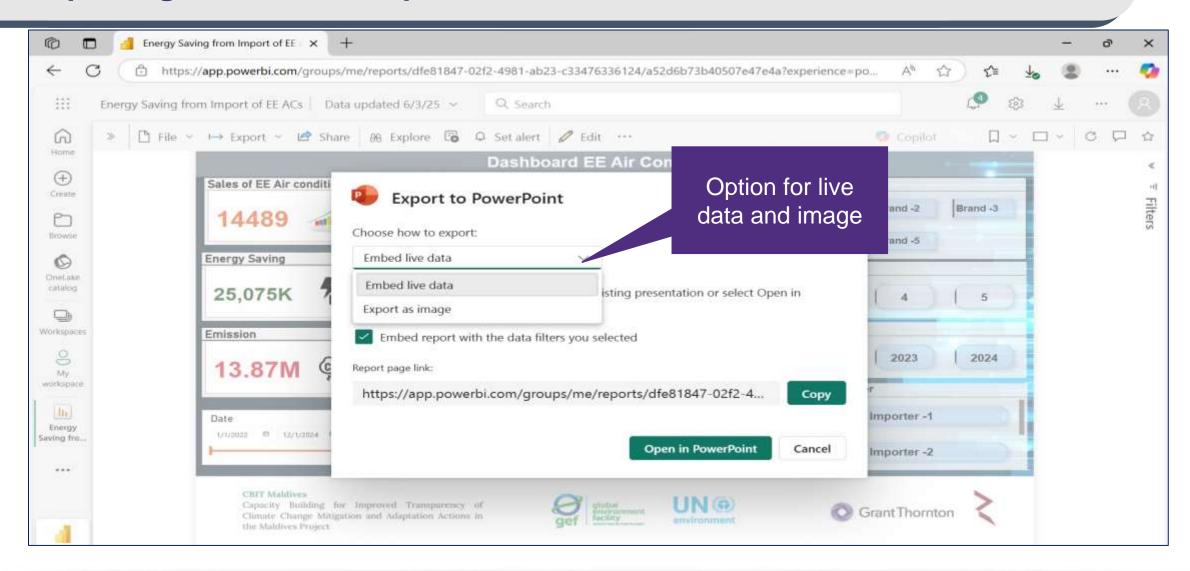






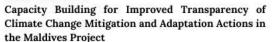












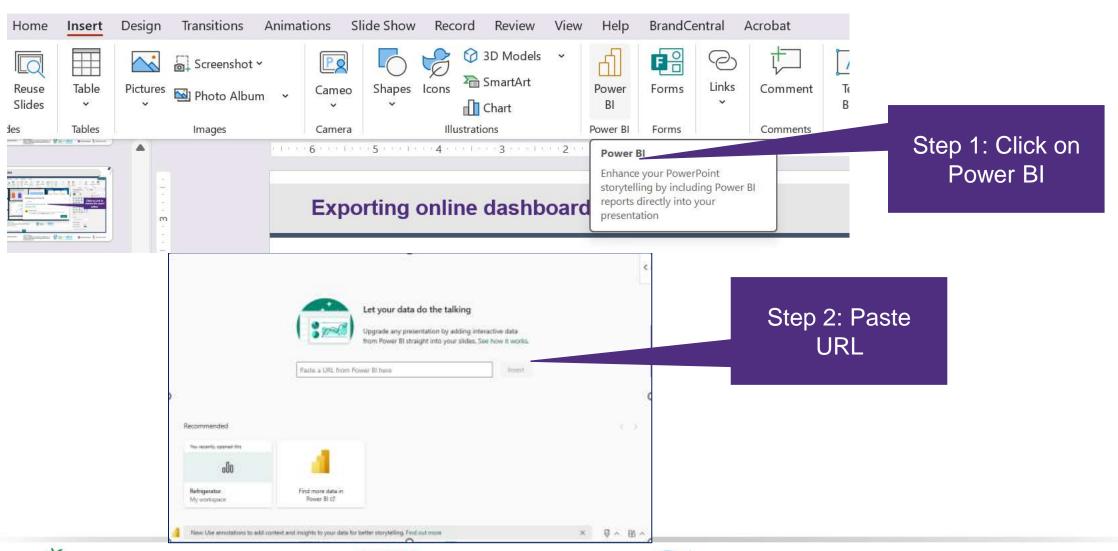








Exporting online dashboard to Power Point

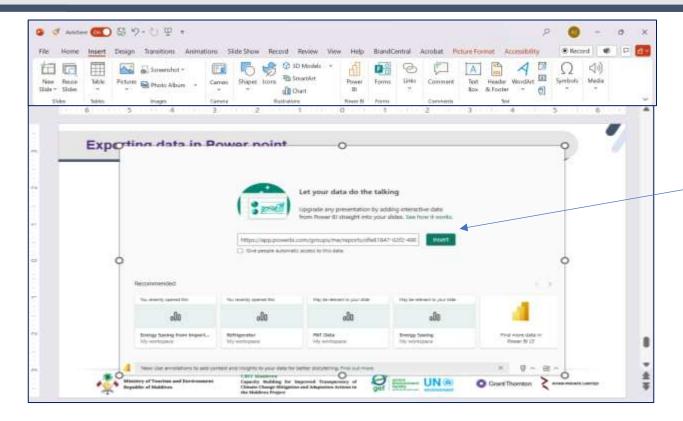




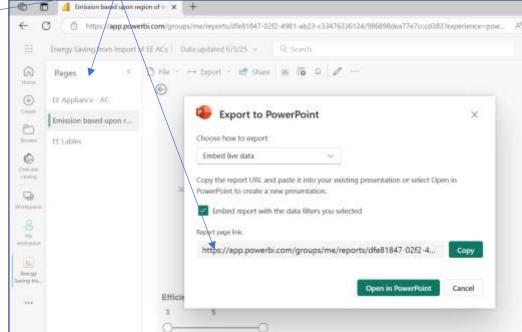








Select the URL for the all three pages and insert





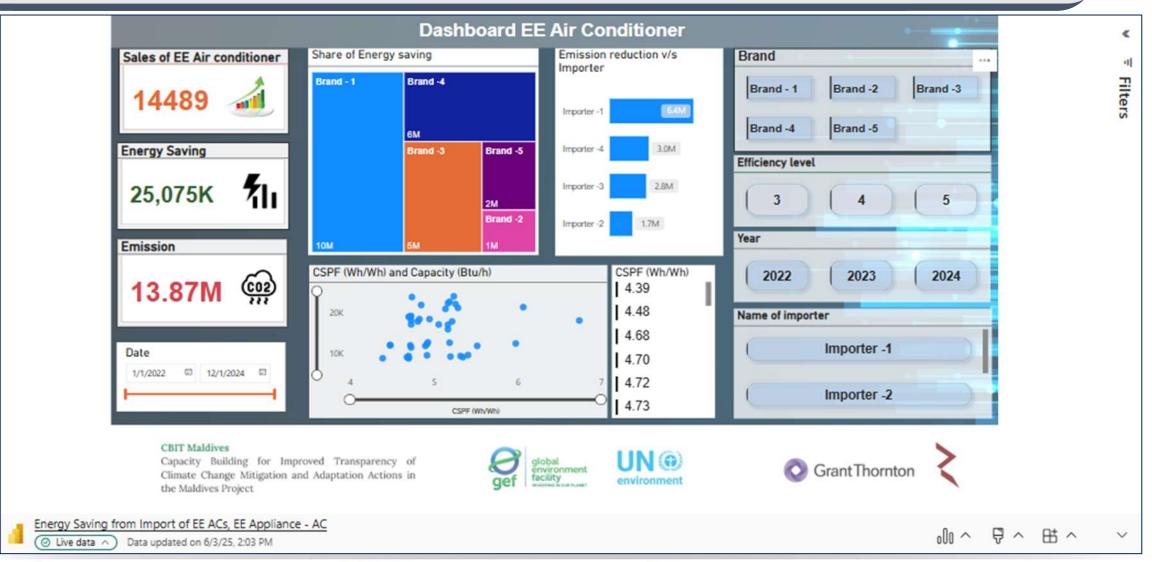






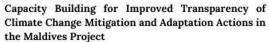










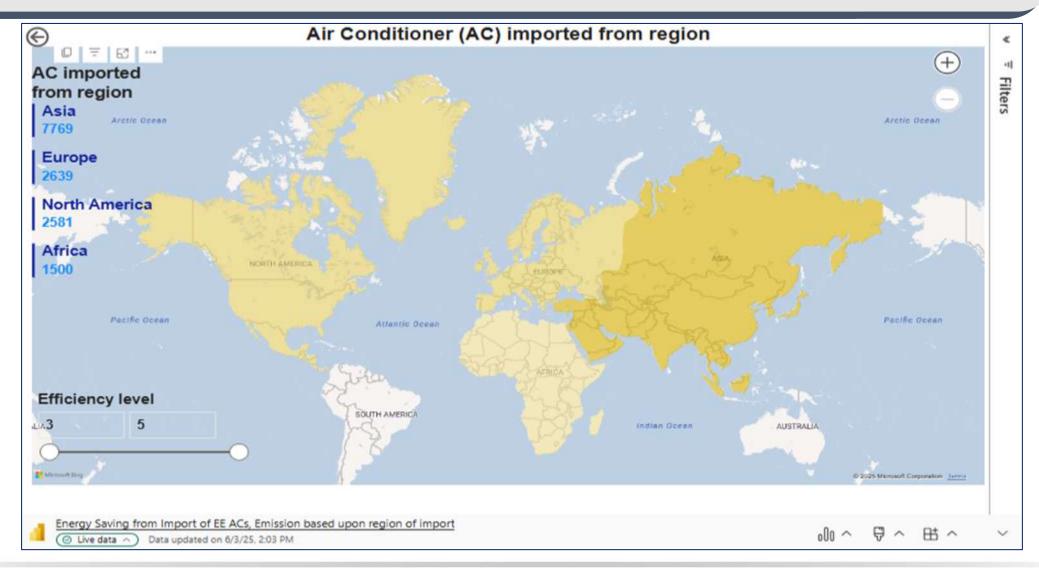














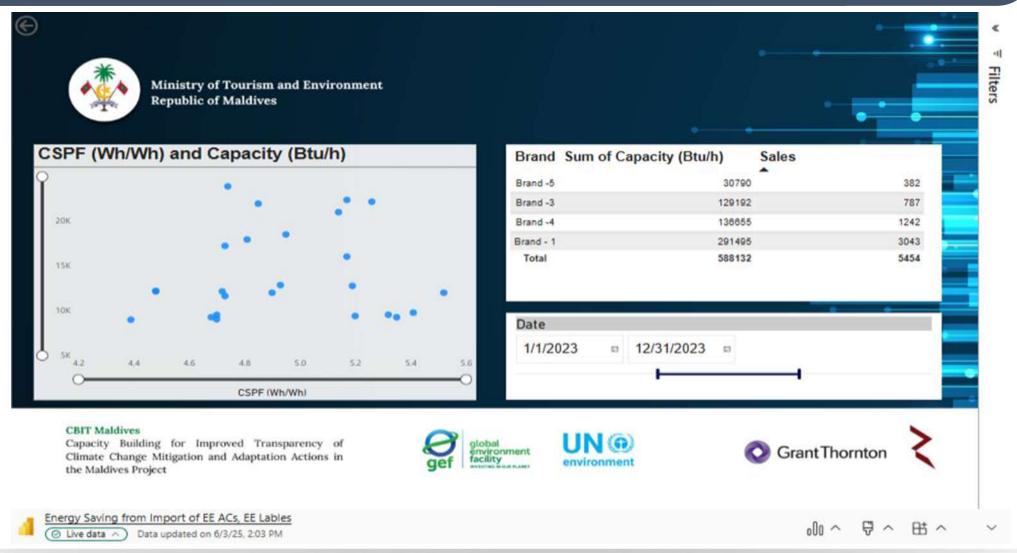














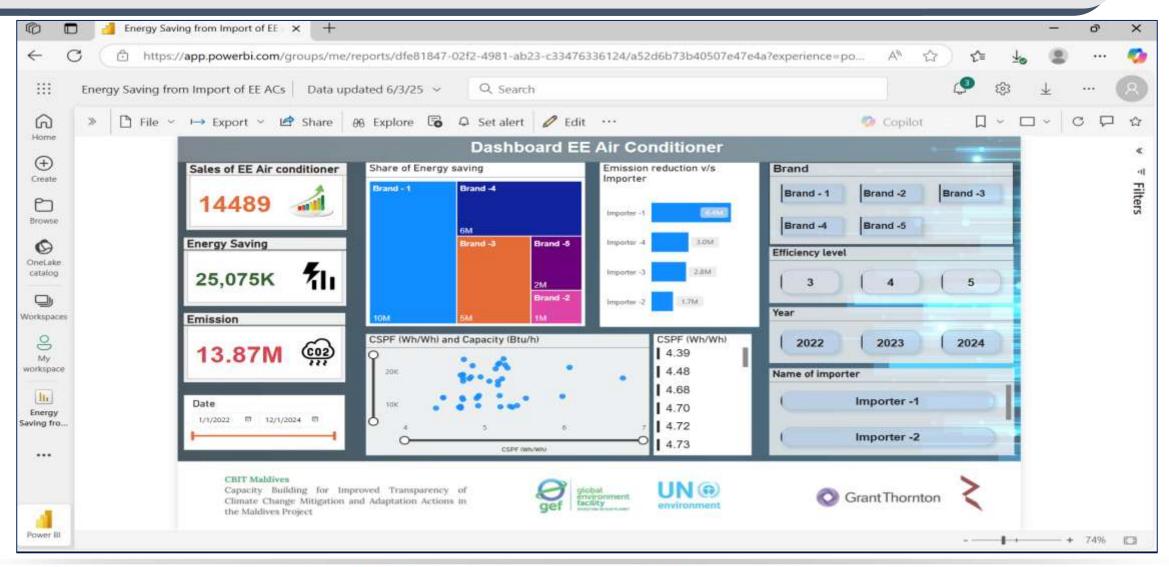






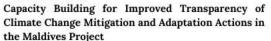








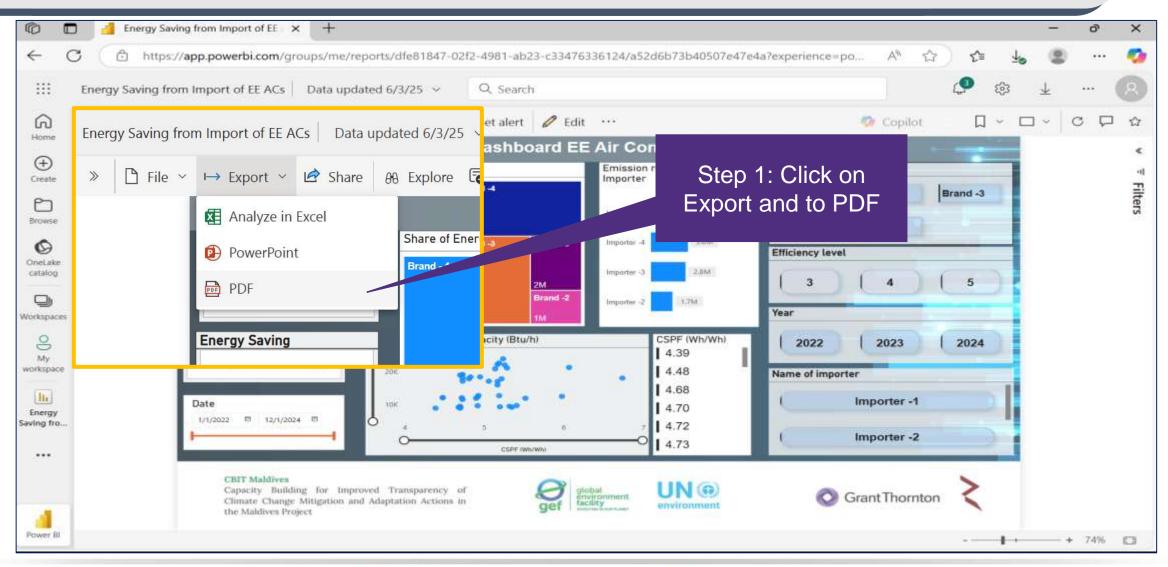






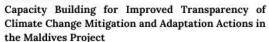








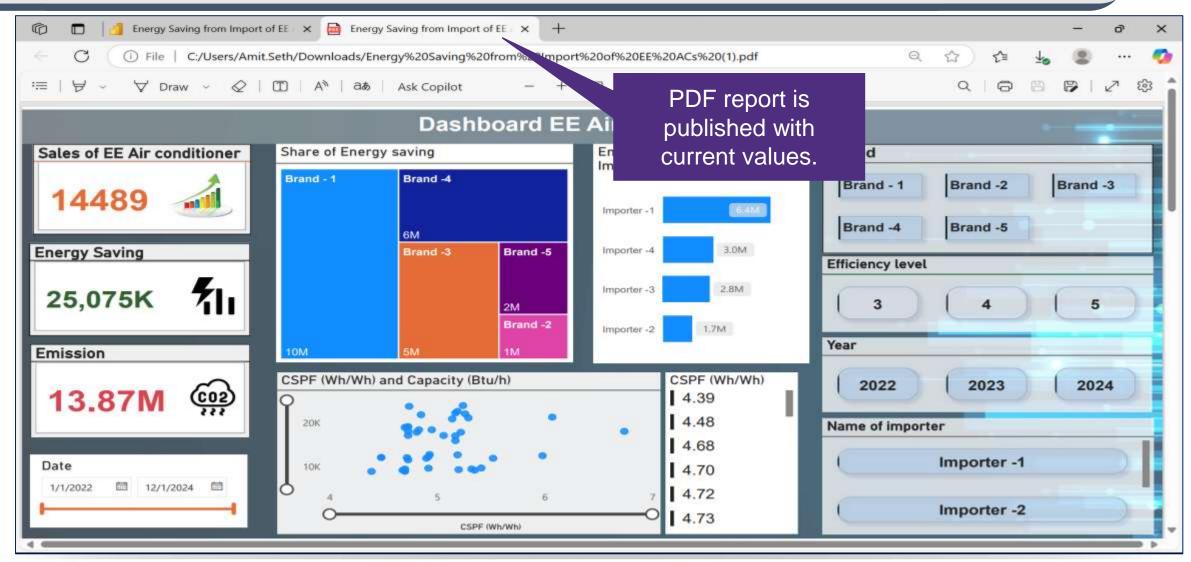






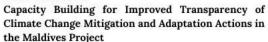








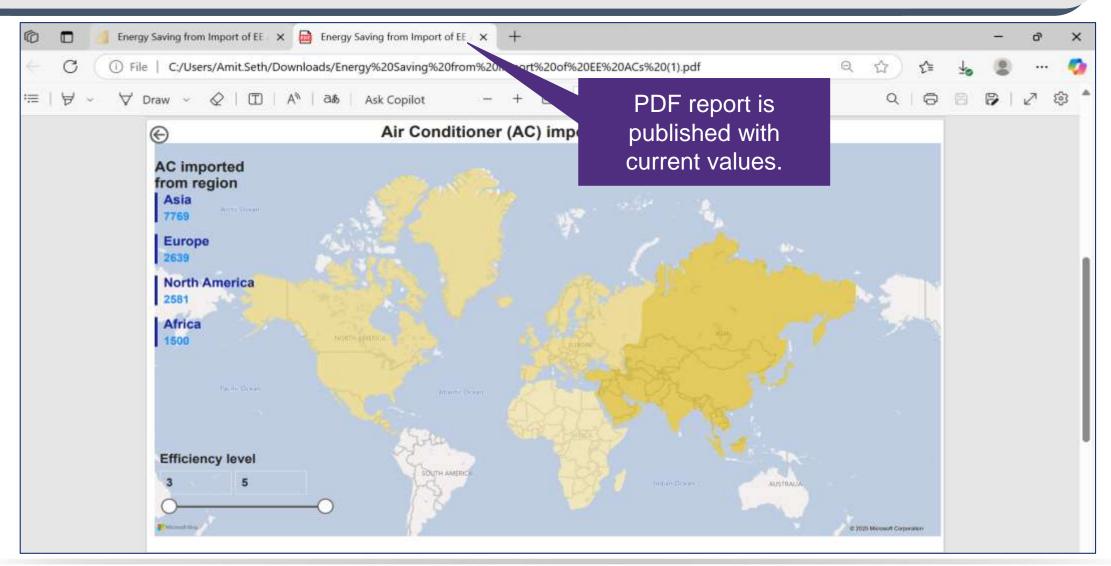


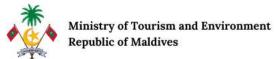










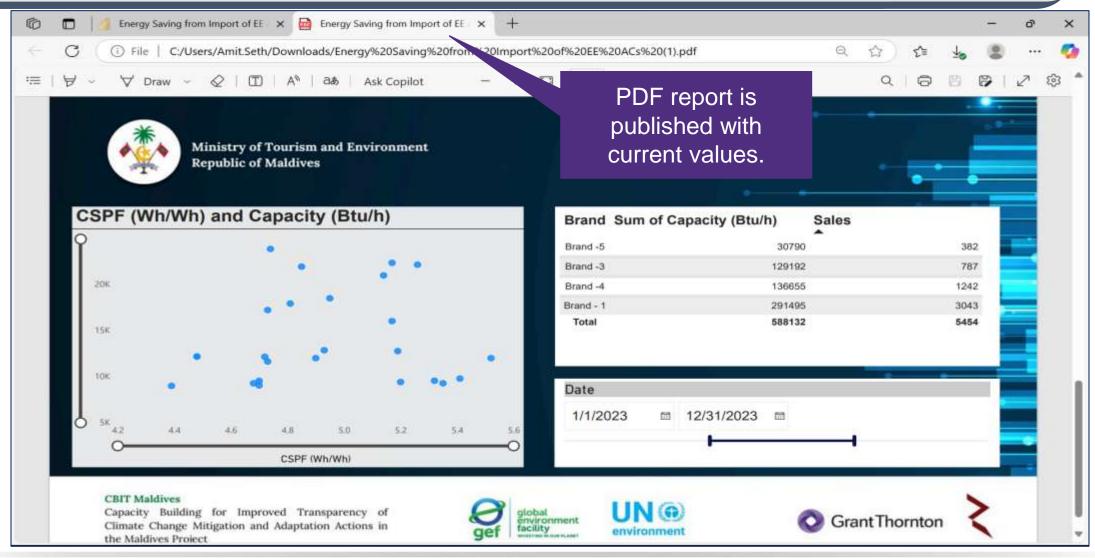
























Thanks















Annex 5: Hands-on Exercise Materials



Power BI step by step solutions for Exercise

















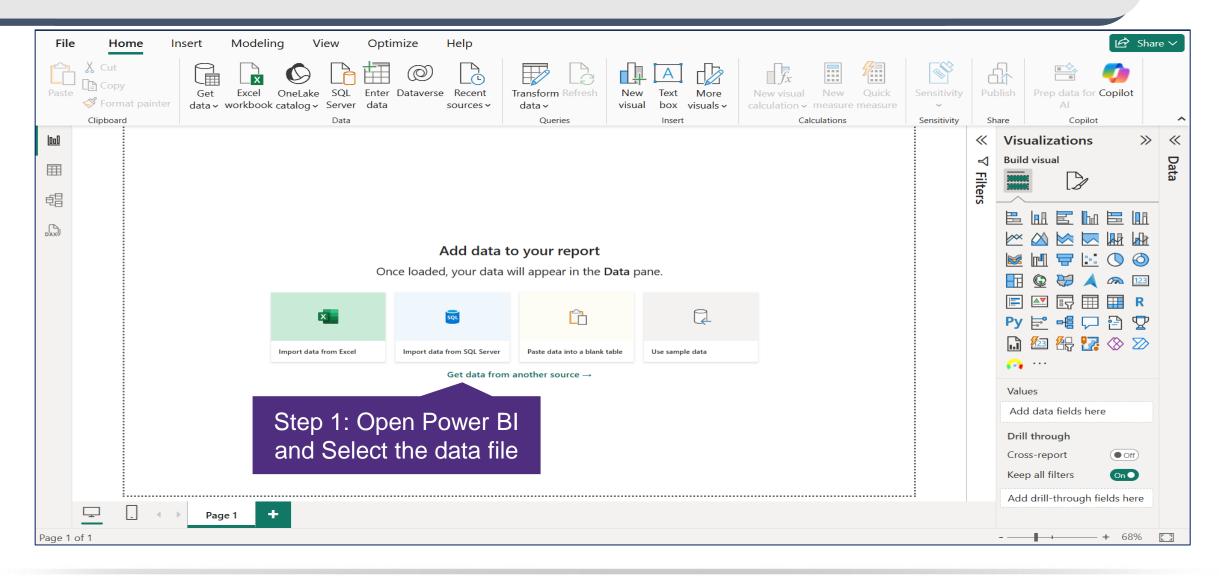








Starting Power BI







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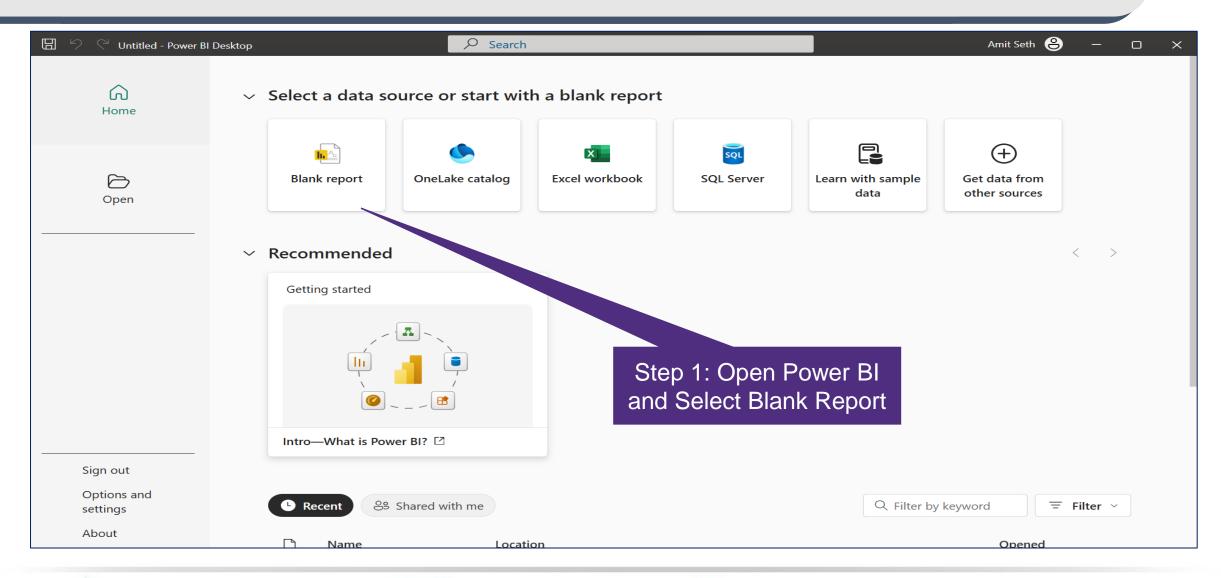






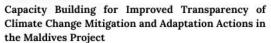


Opening Power BI window







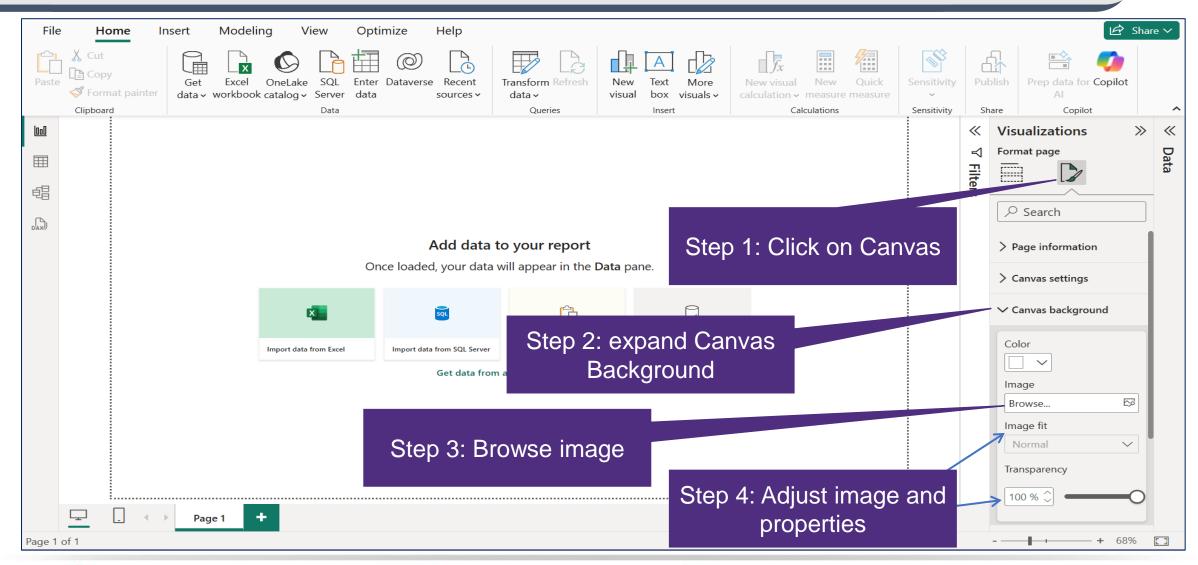








Adding Background Image to Canvas







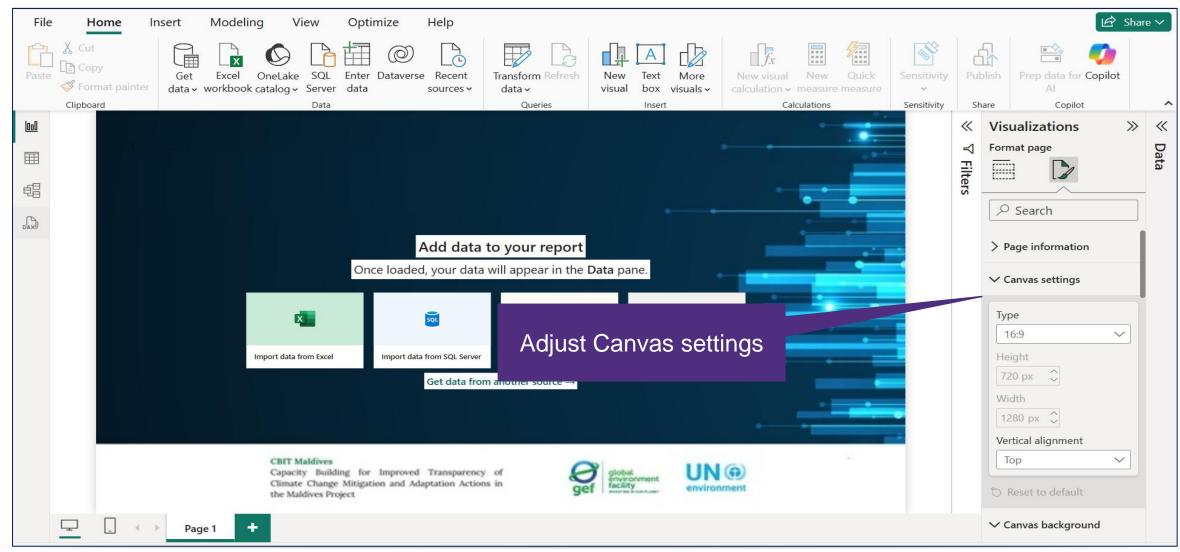








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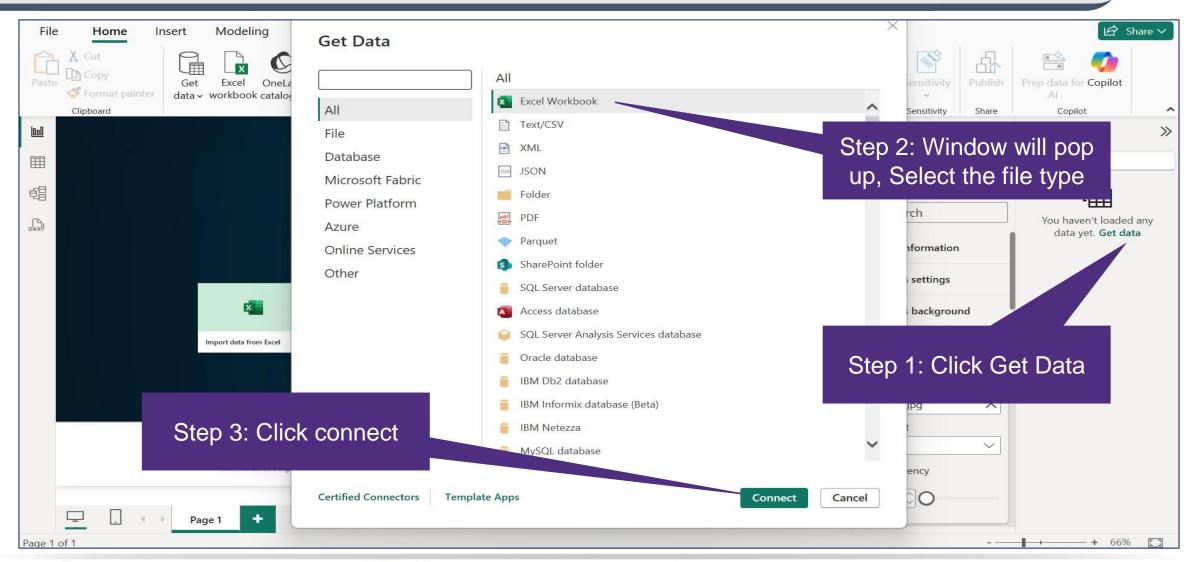








Importing Data to Power BI







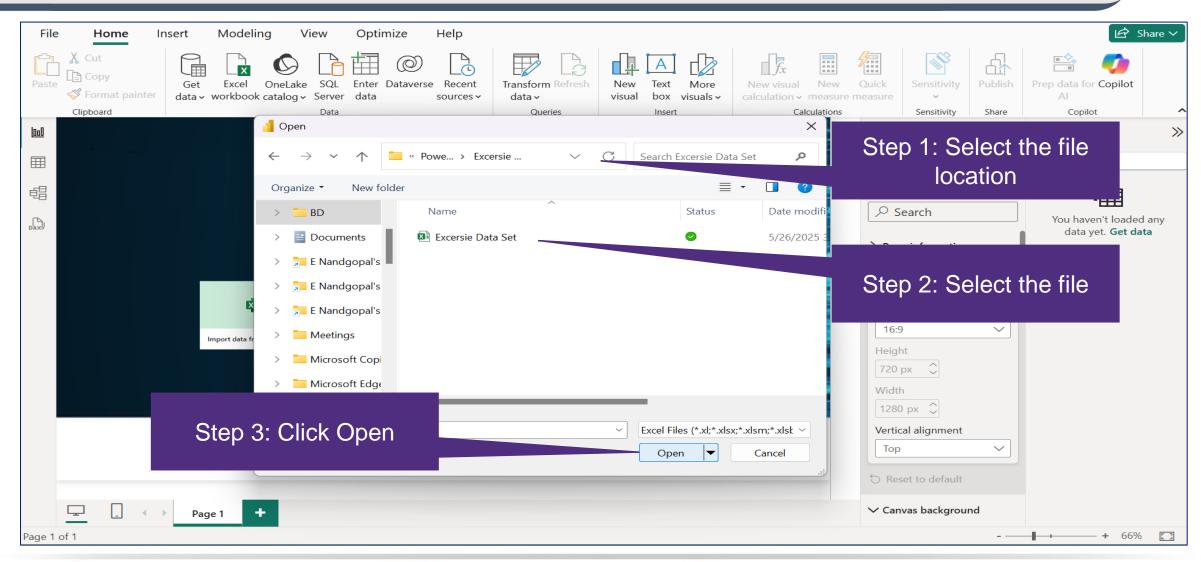








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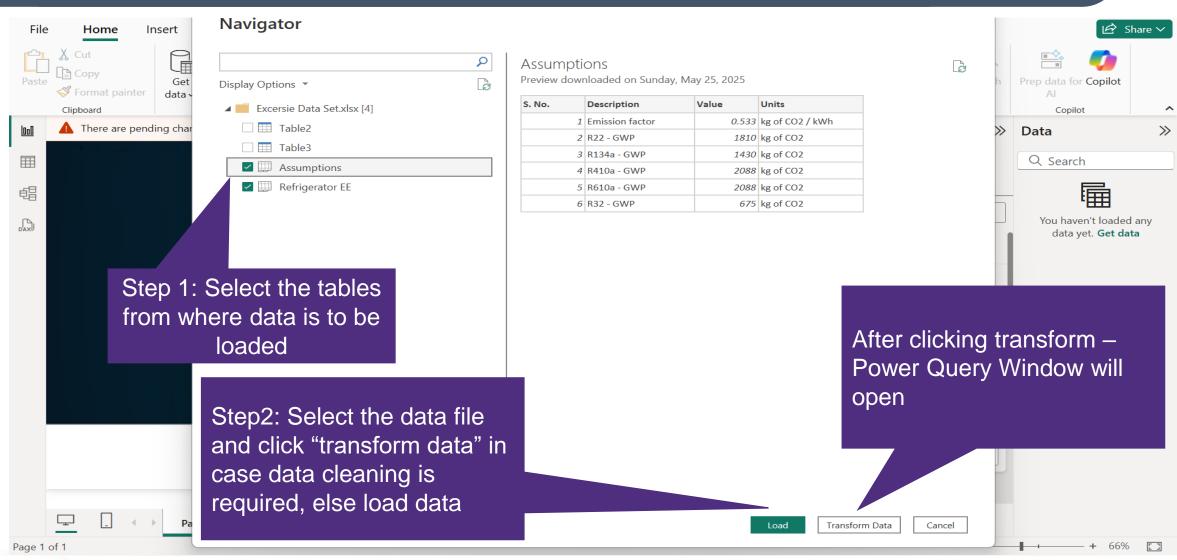








Importing Data to Power BI





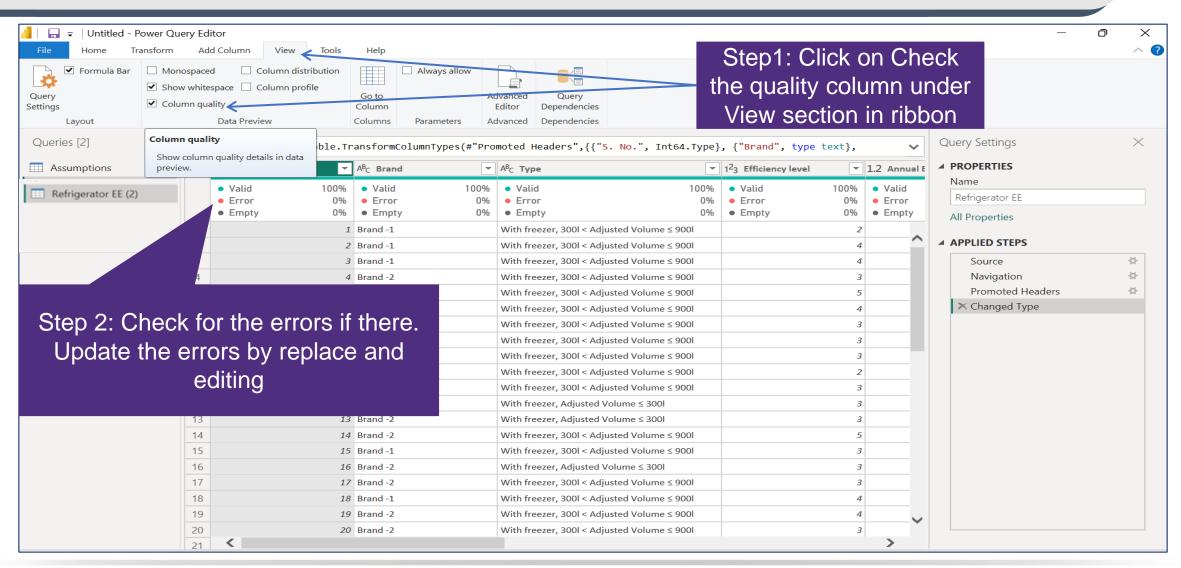






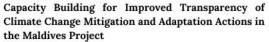










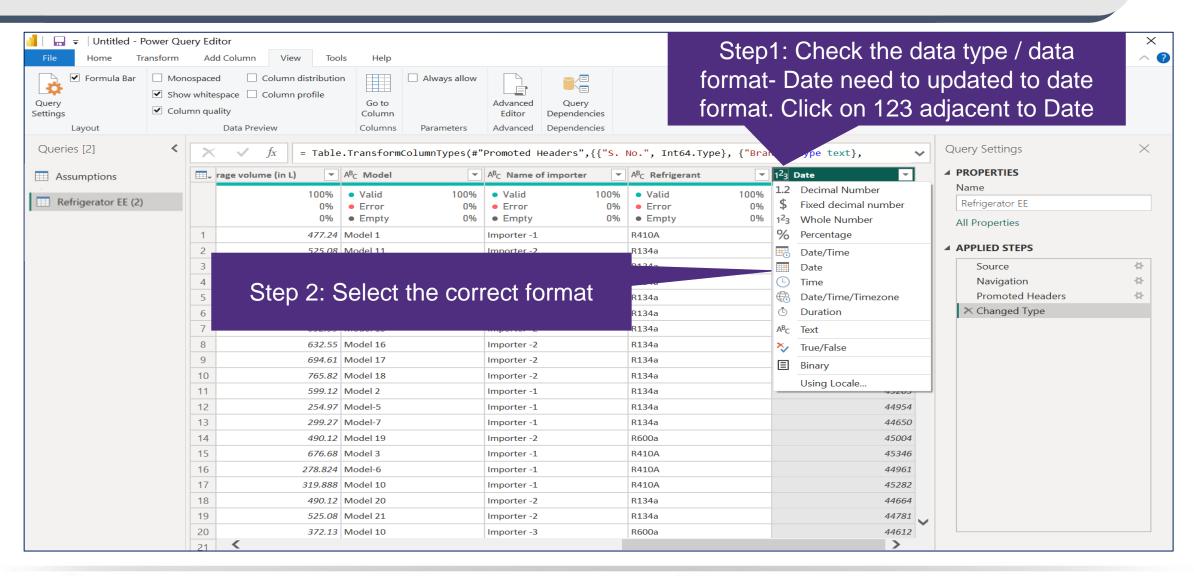


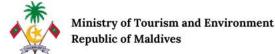
















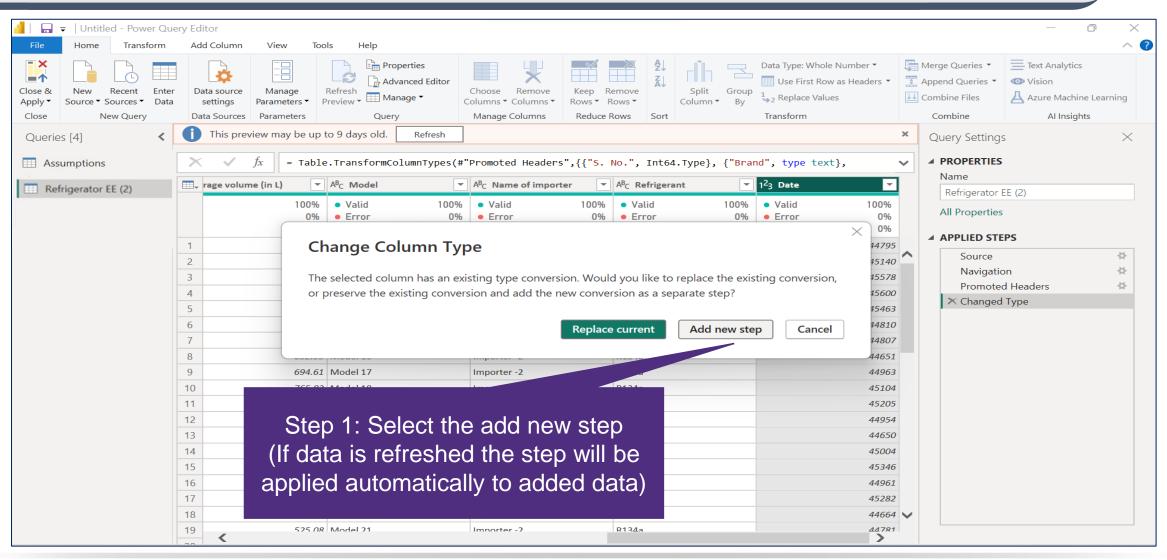




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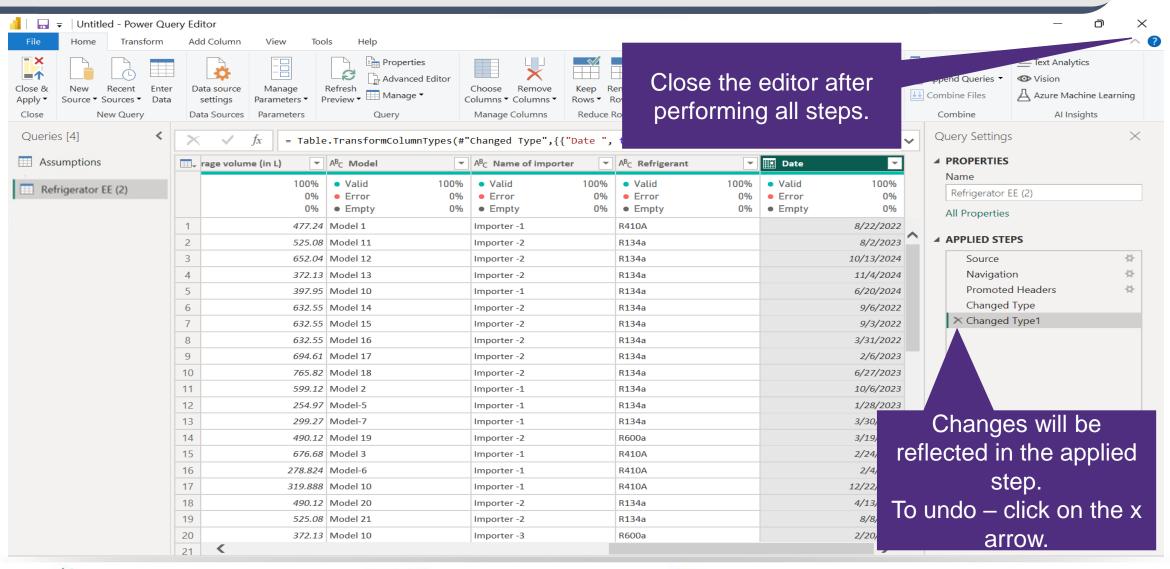














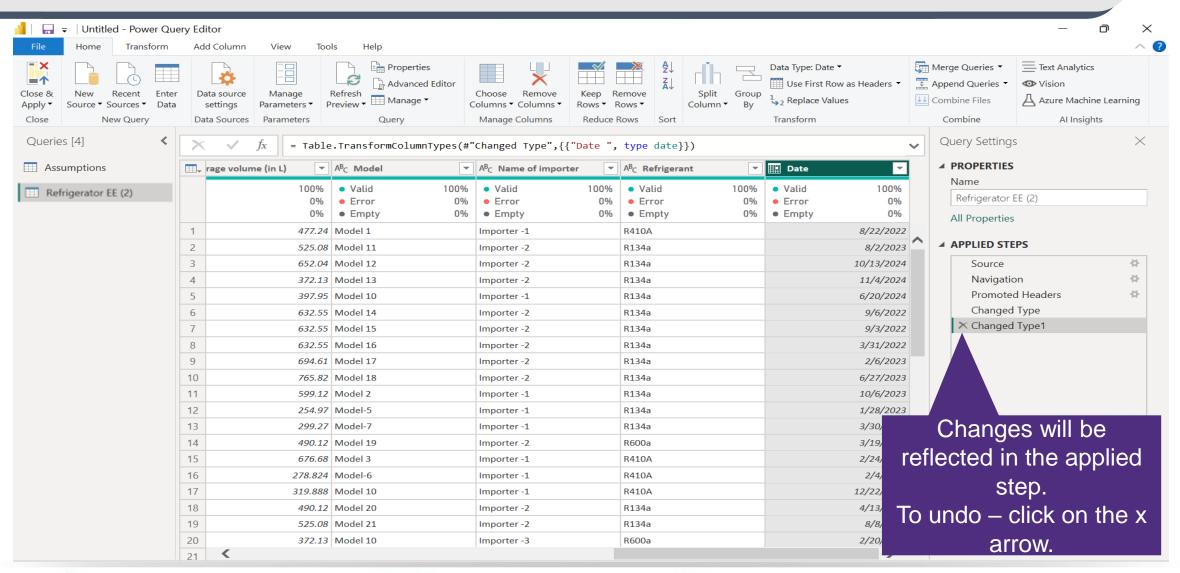














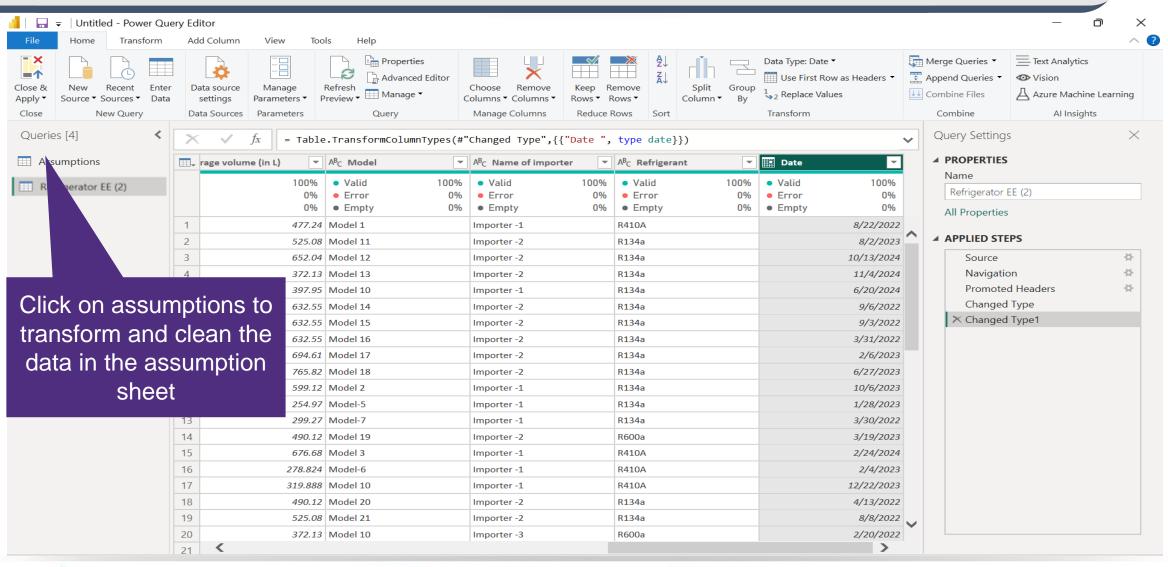














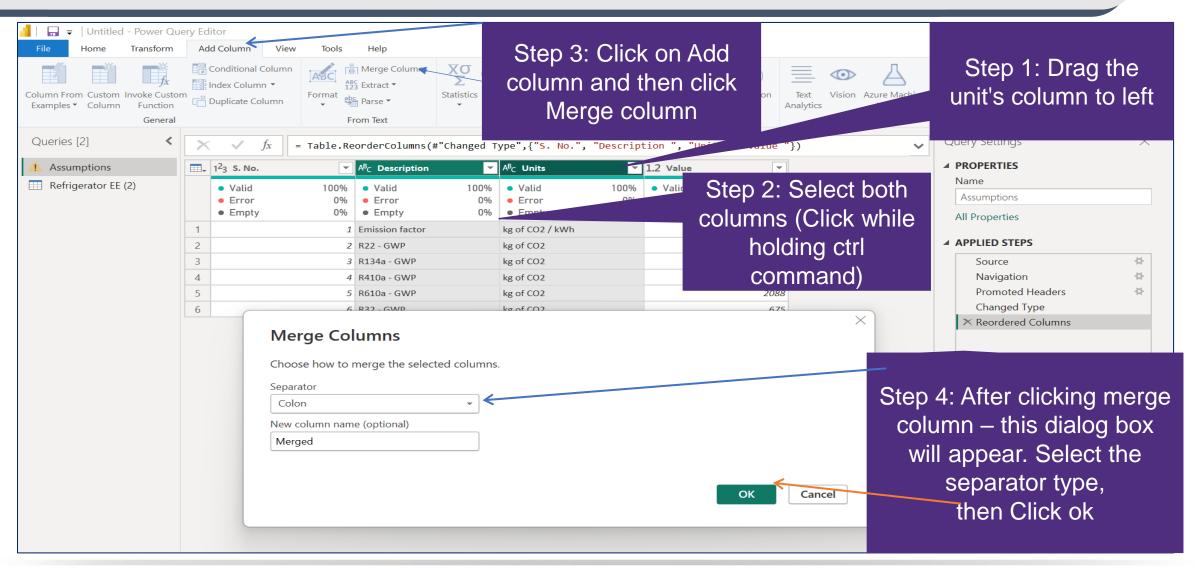












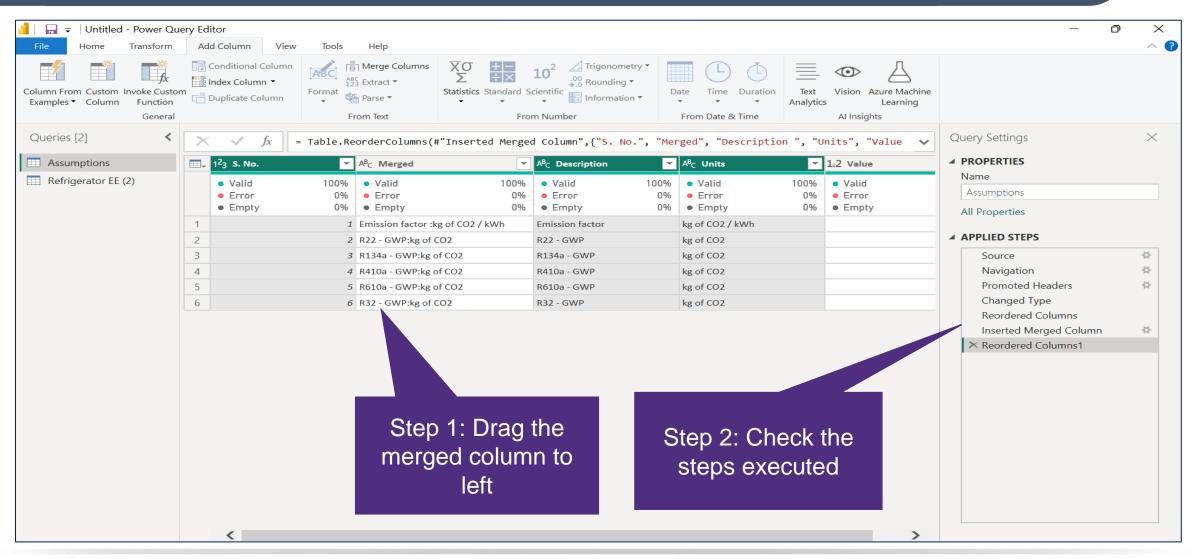


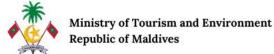










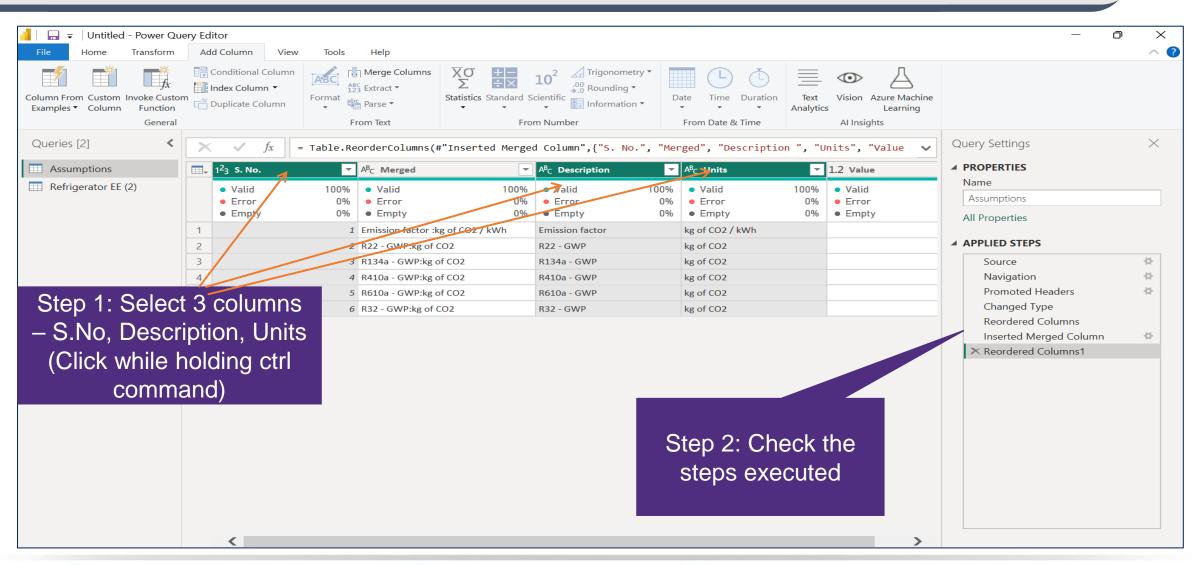


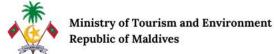












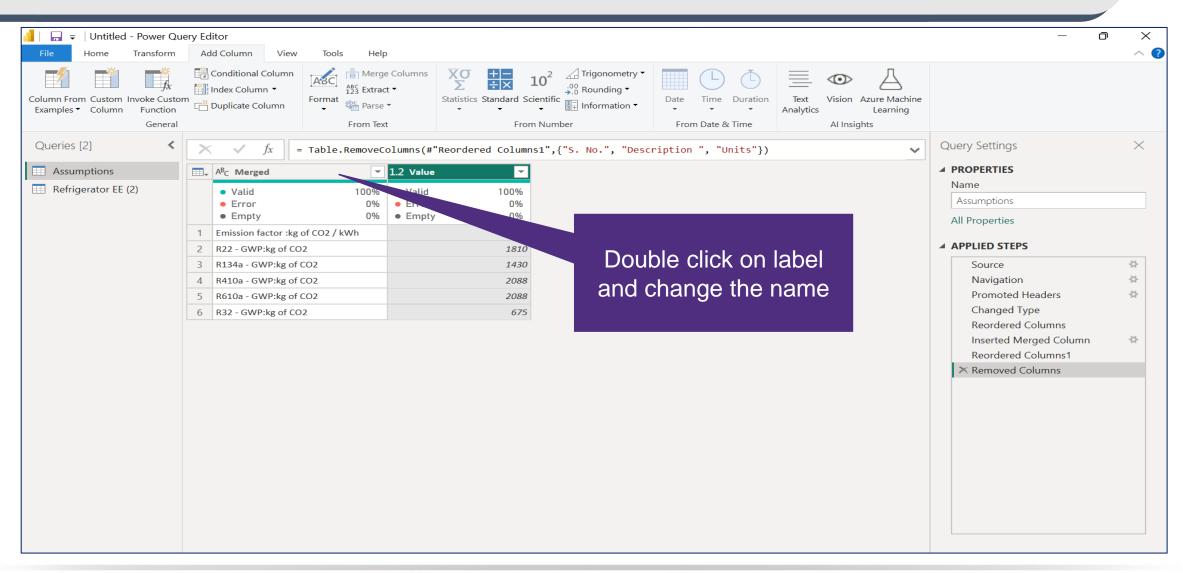














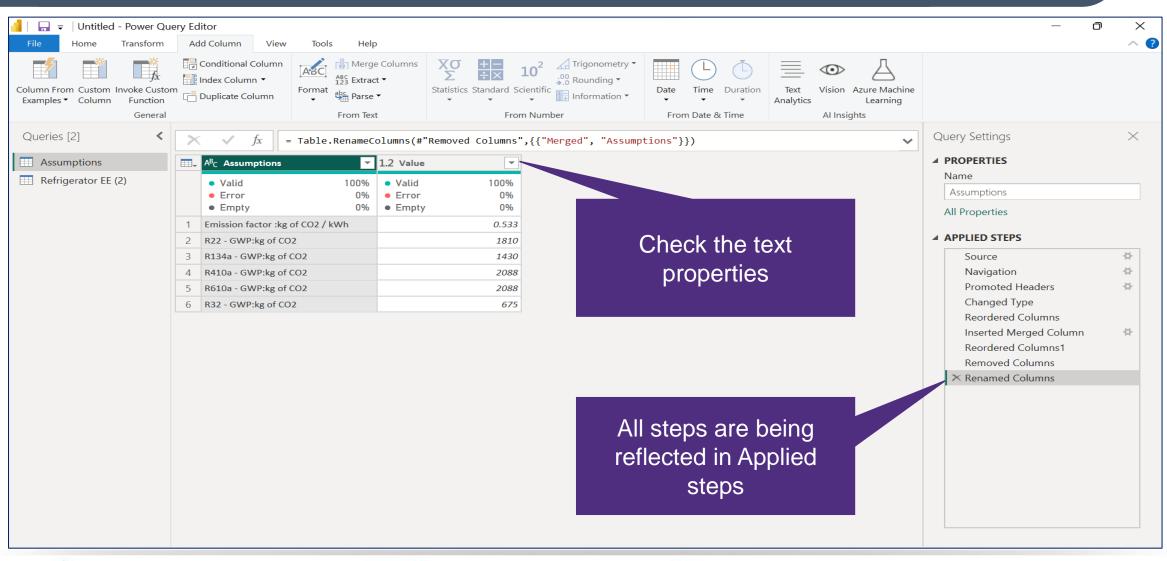














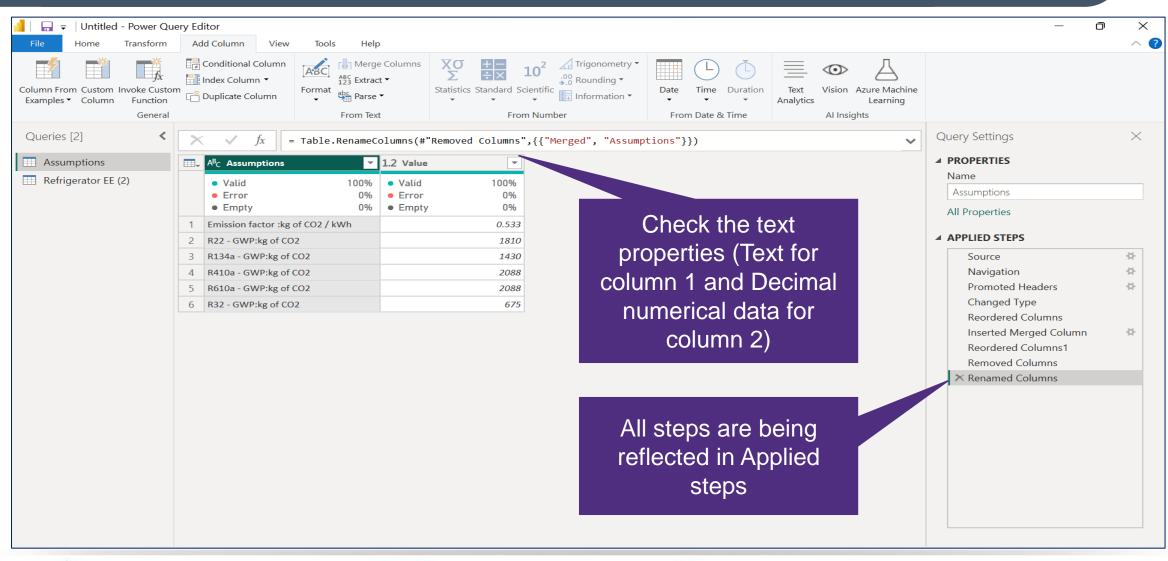
















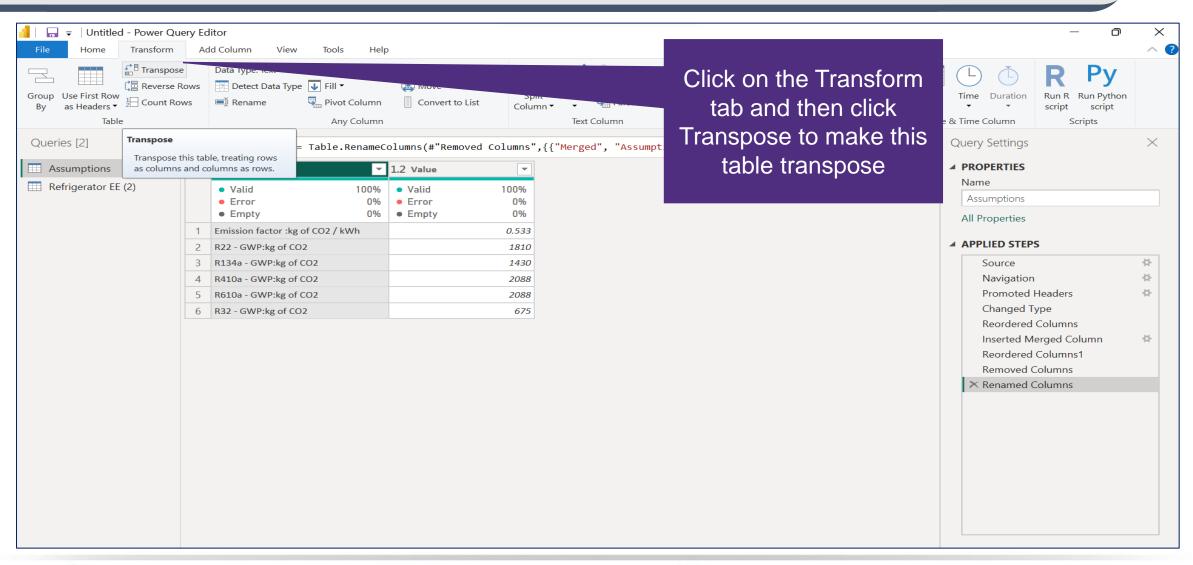






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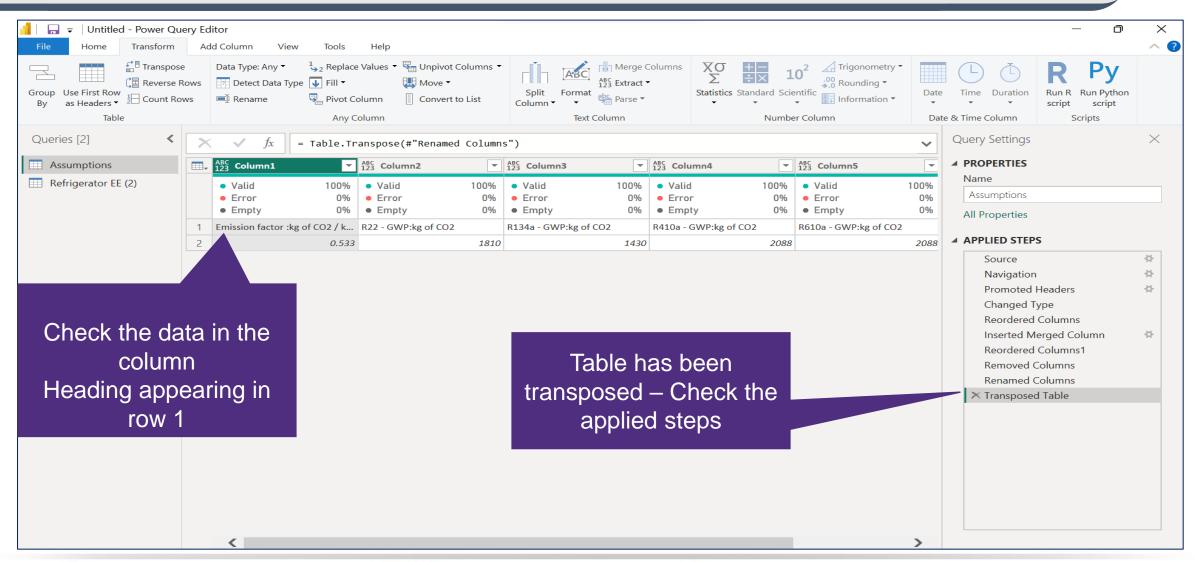




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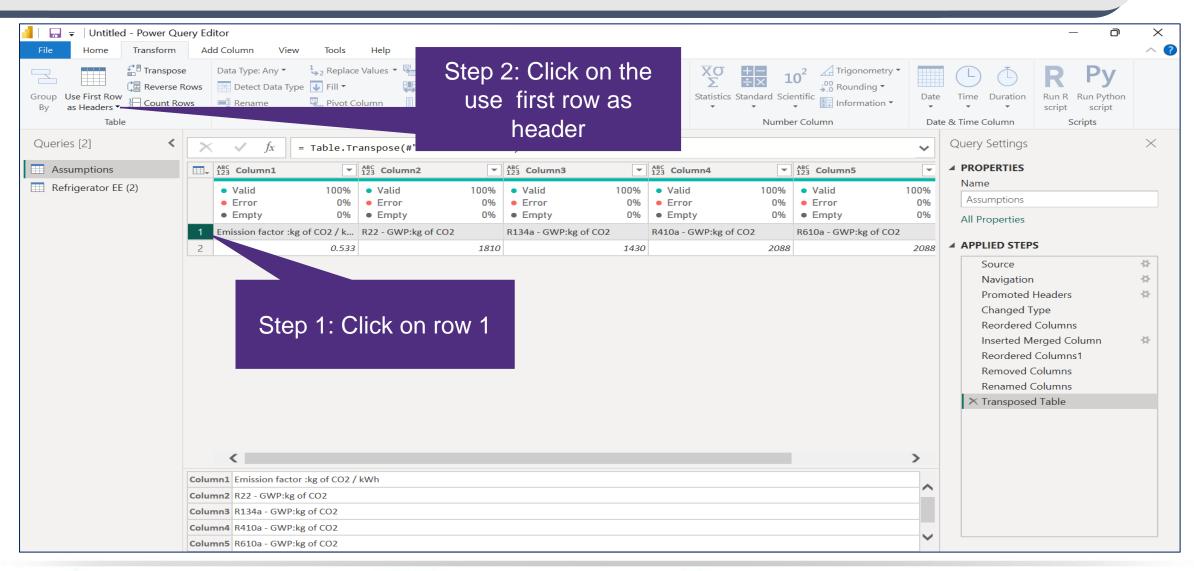










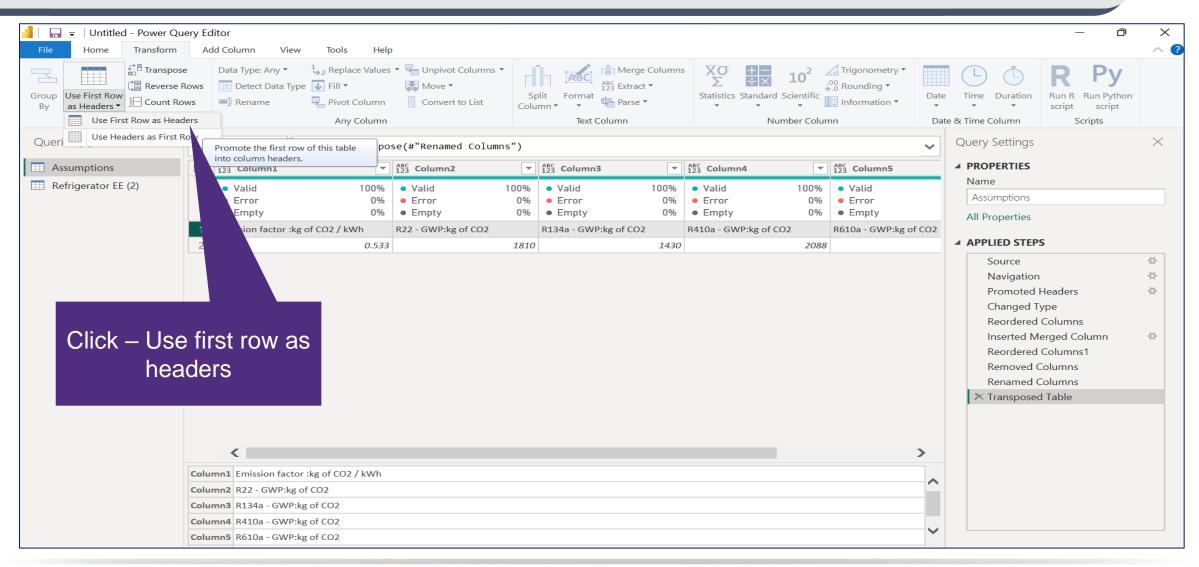














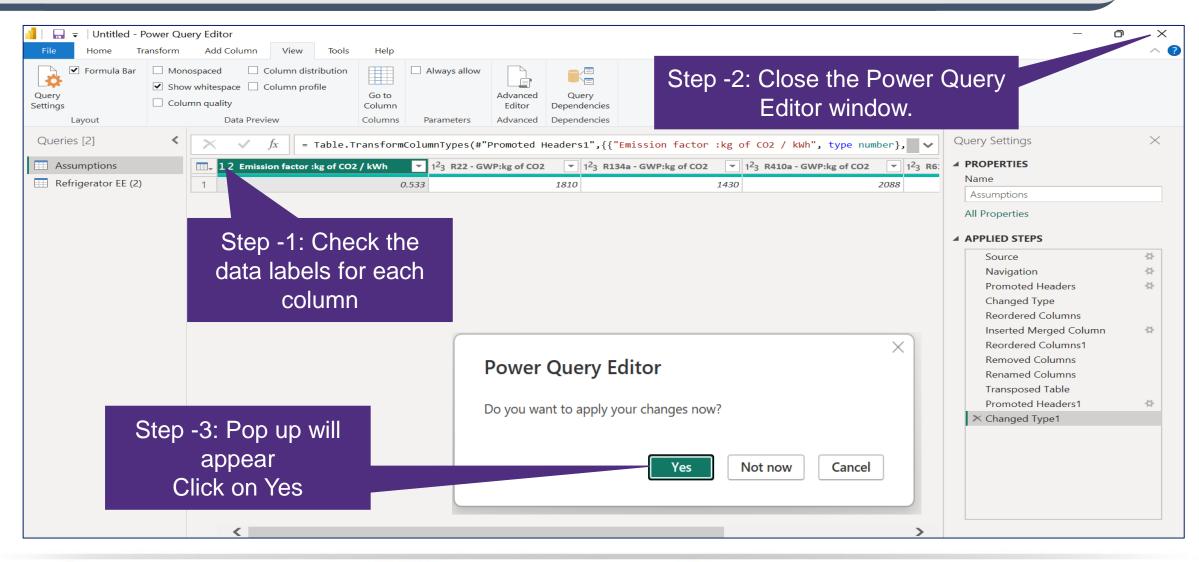






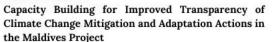










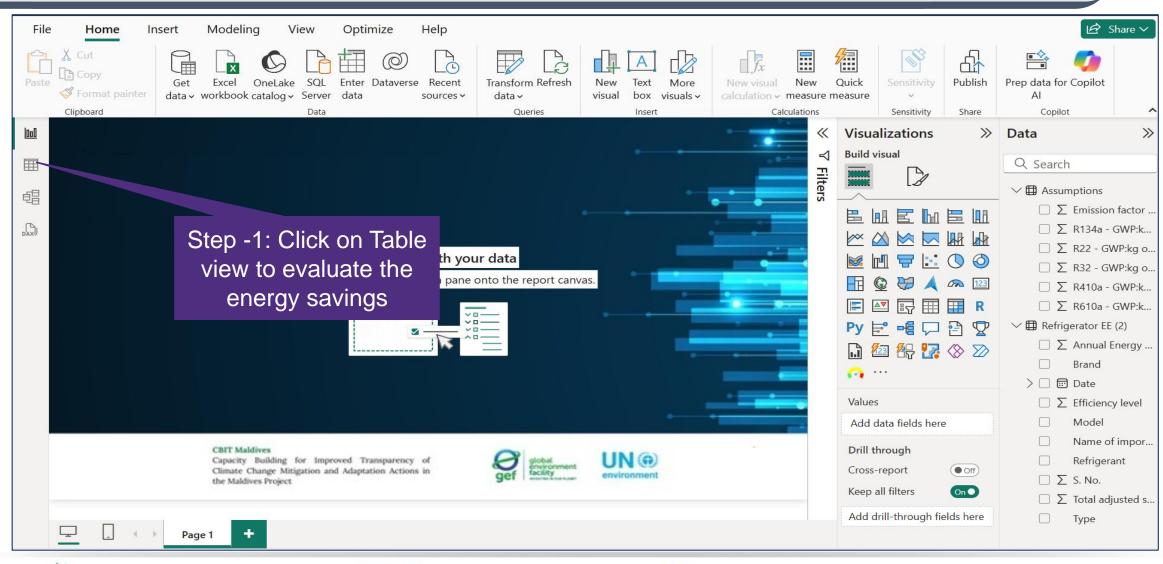






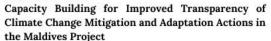












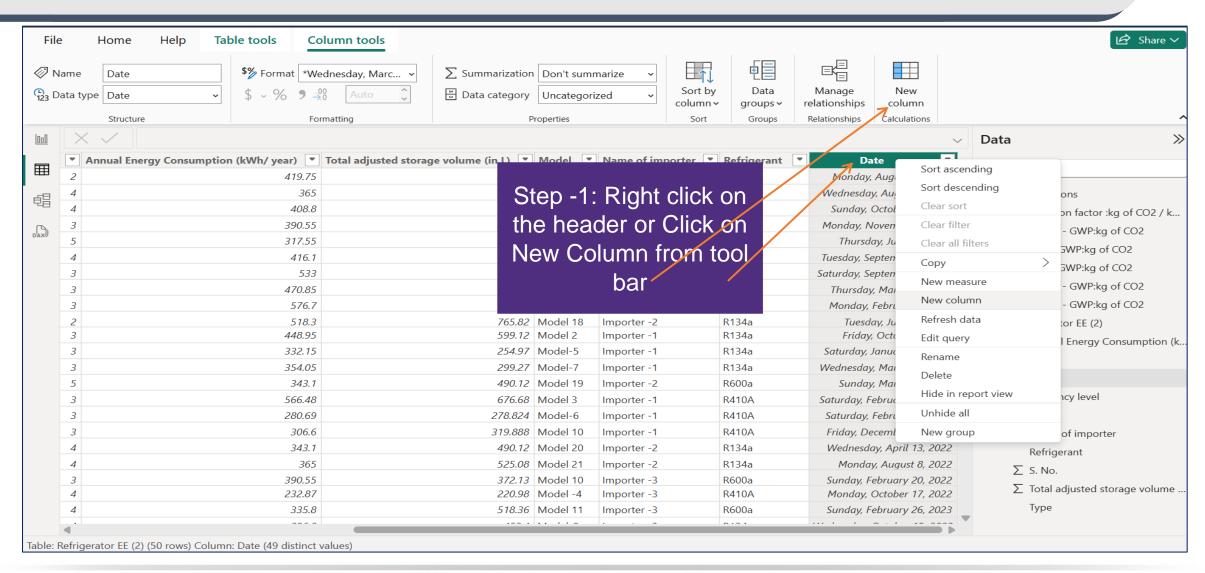




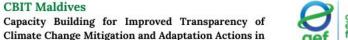




Using DAX formulas







the Maldives Project

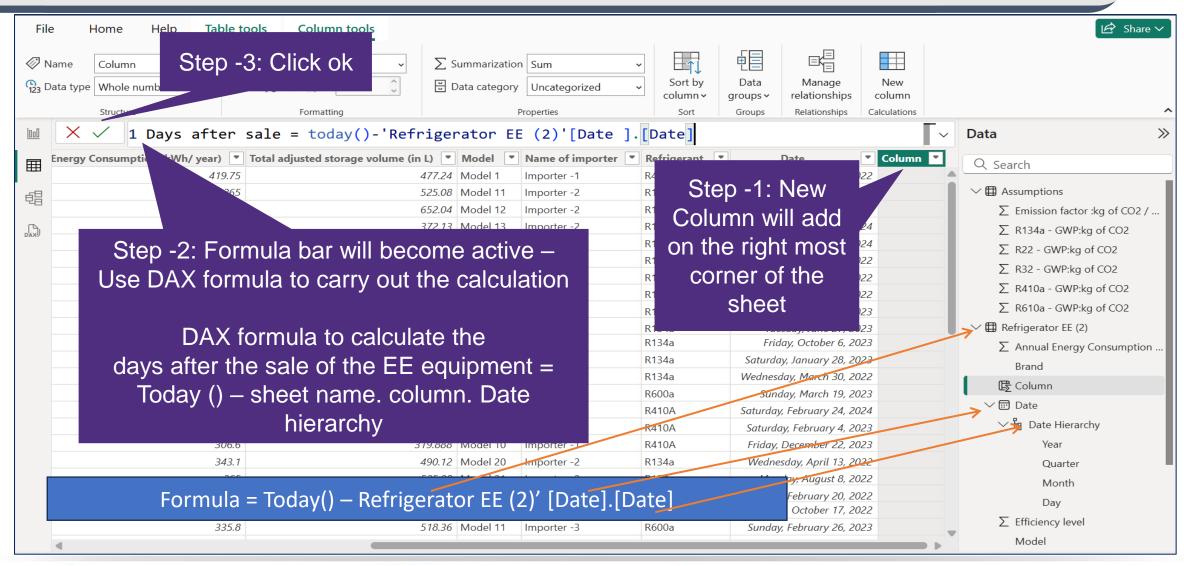








Using DAX formulas







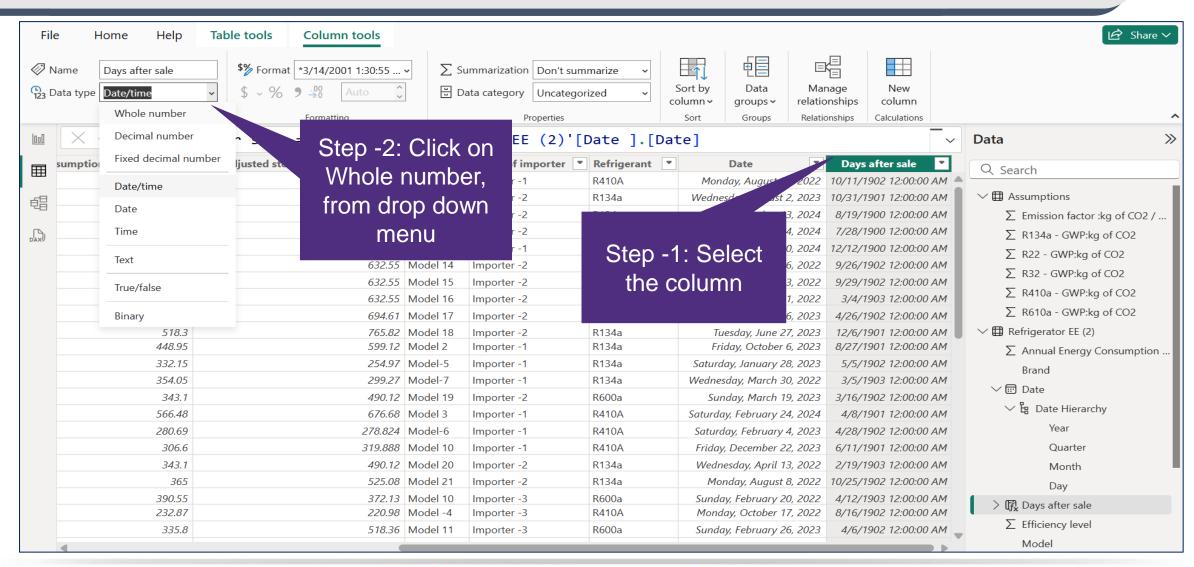








Changing the data format







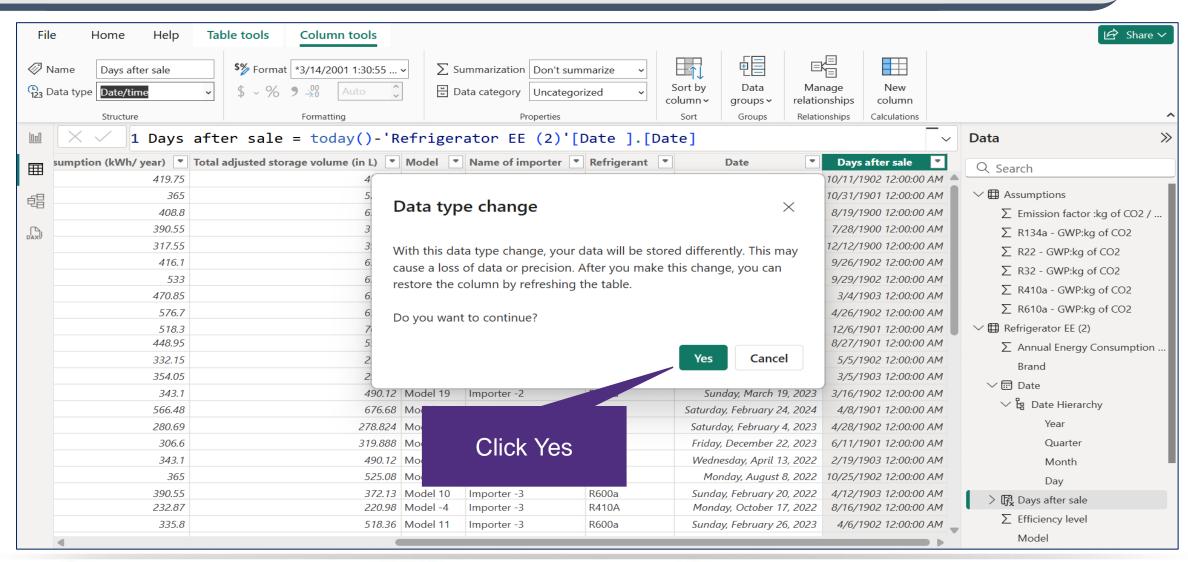








Changing the data format





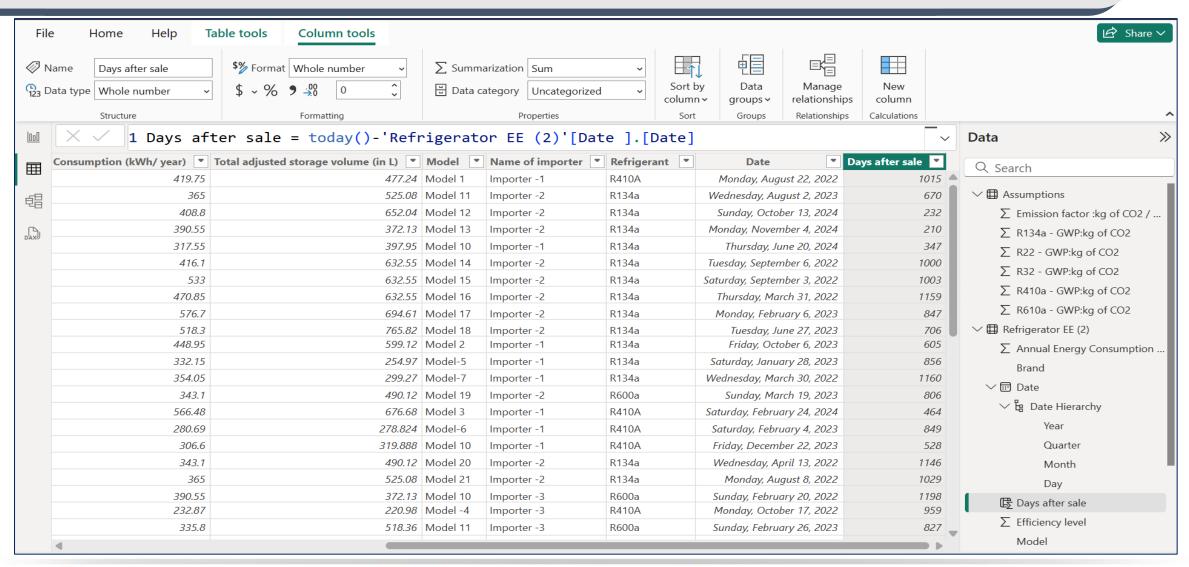
CBIT Maldives







Changing the data format (Date to number)









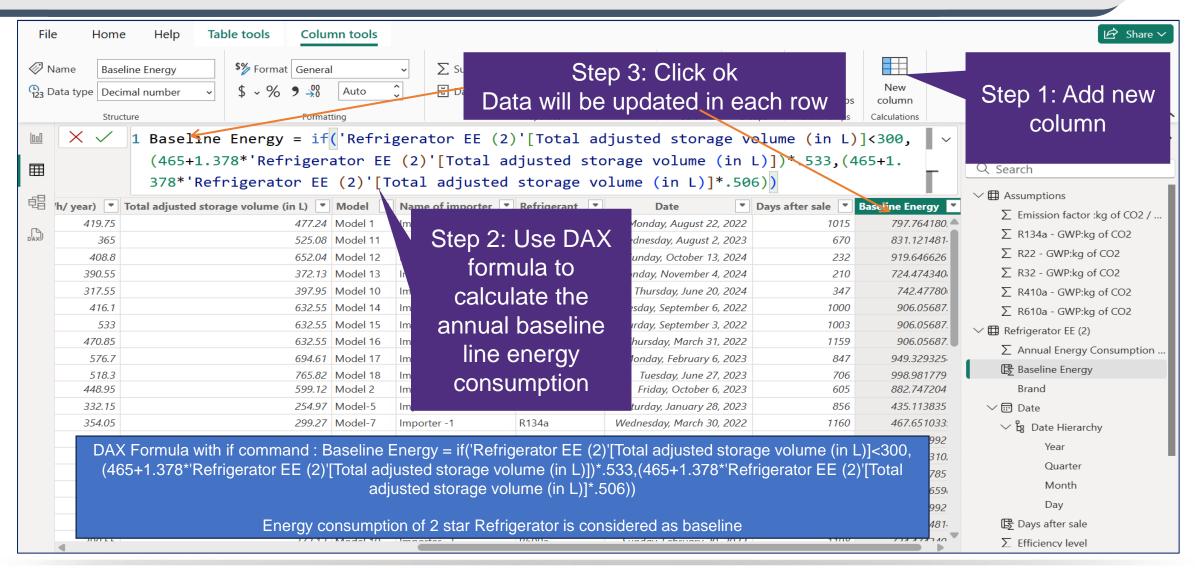




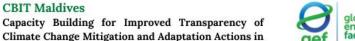


Using DAX formula to calculate the Baseline Scenario

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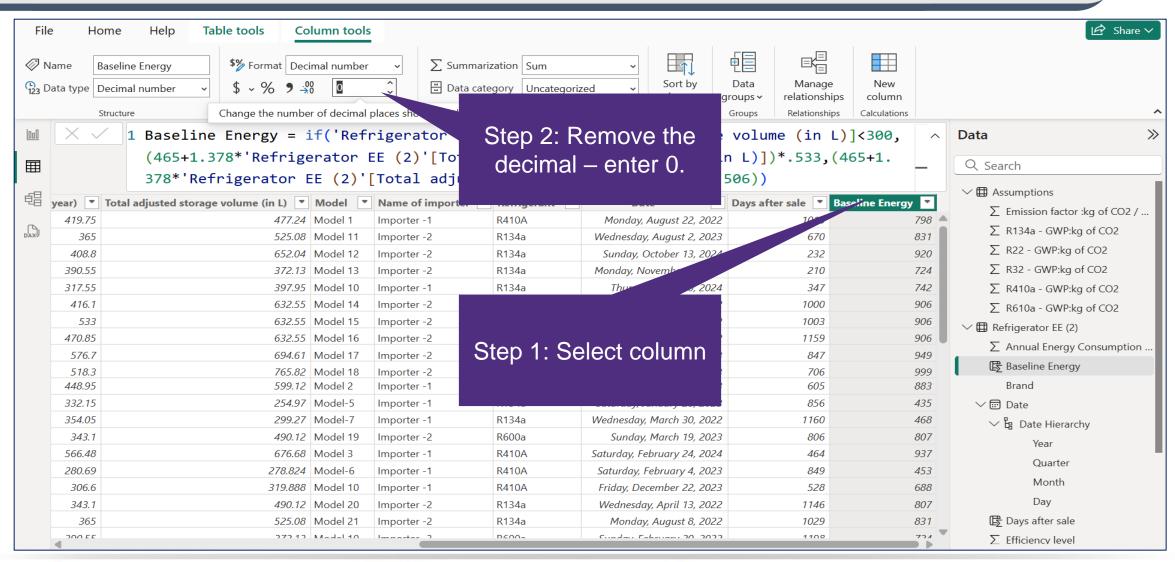








Removing the decimals





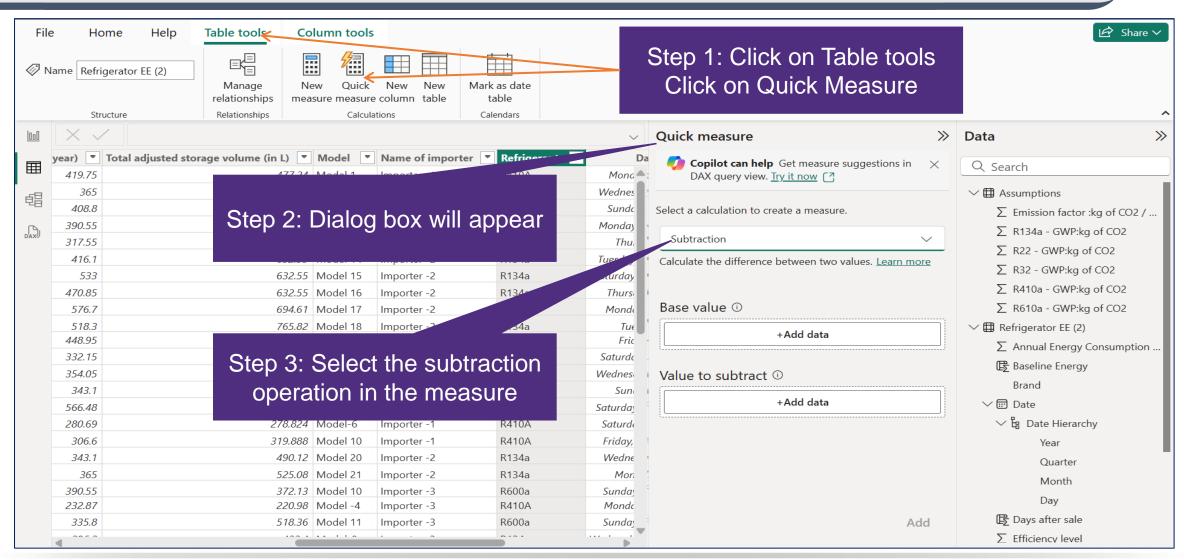








Adding measure to evaluate energy saving







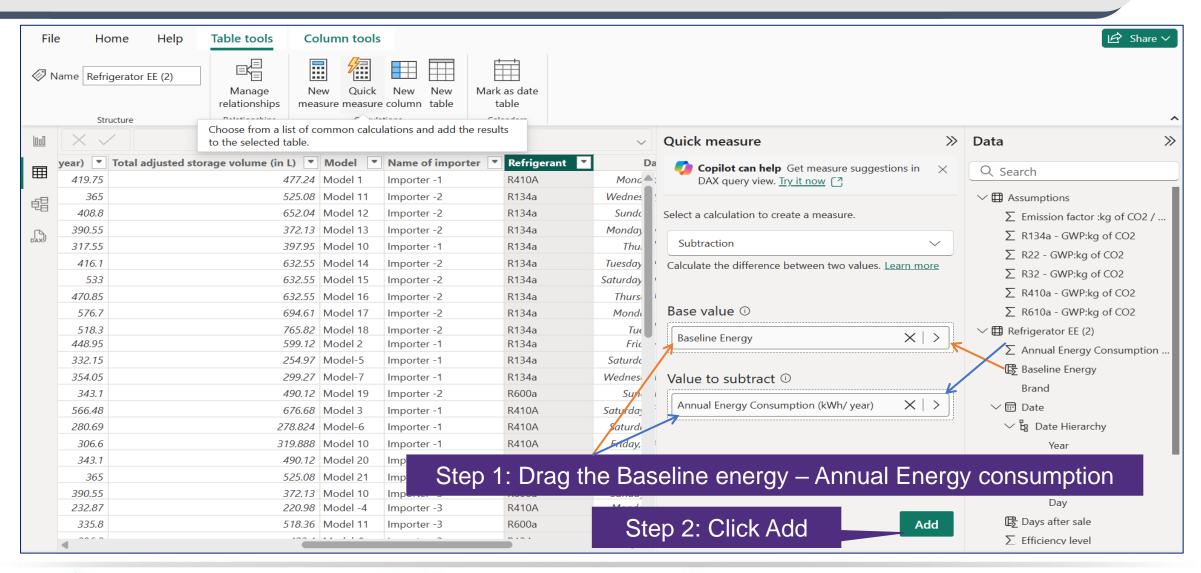








Adding measure to evaluate energy saving



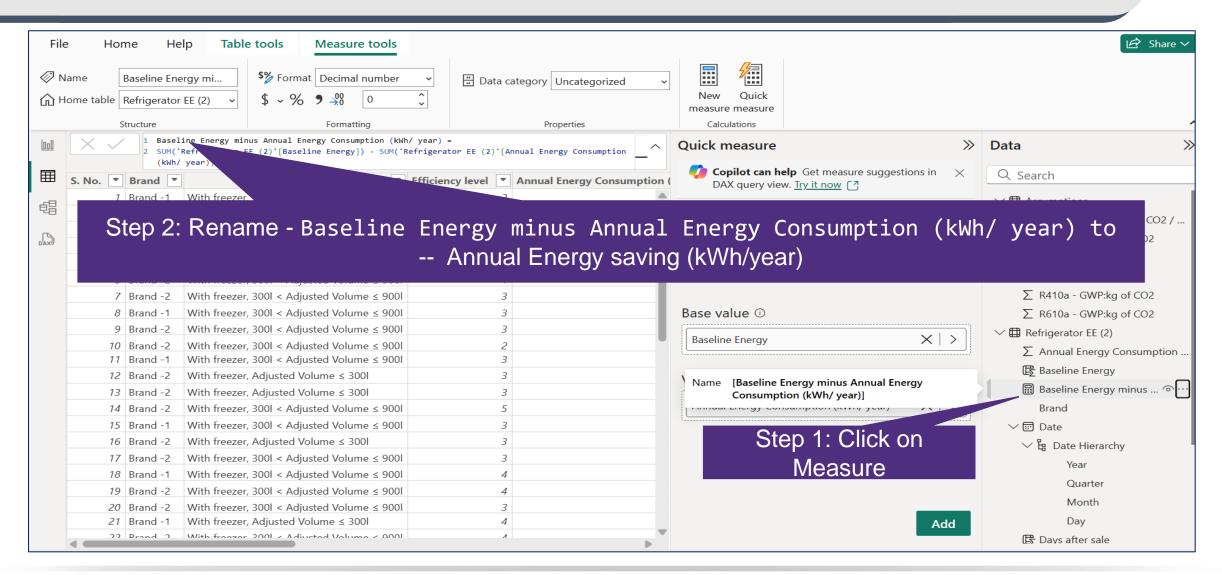














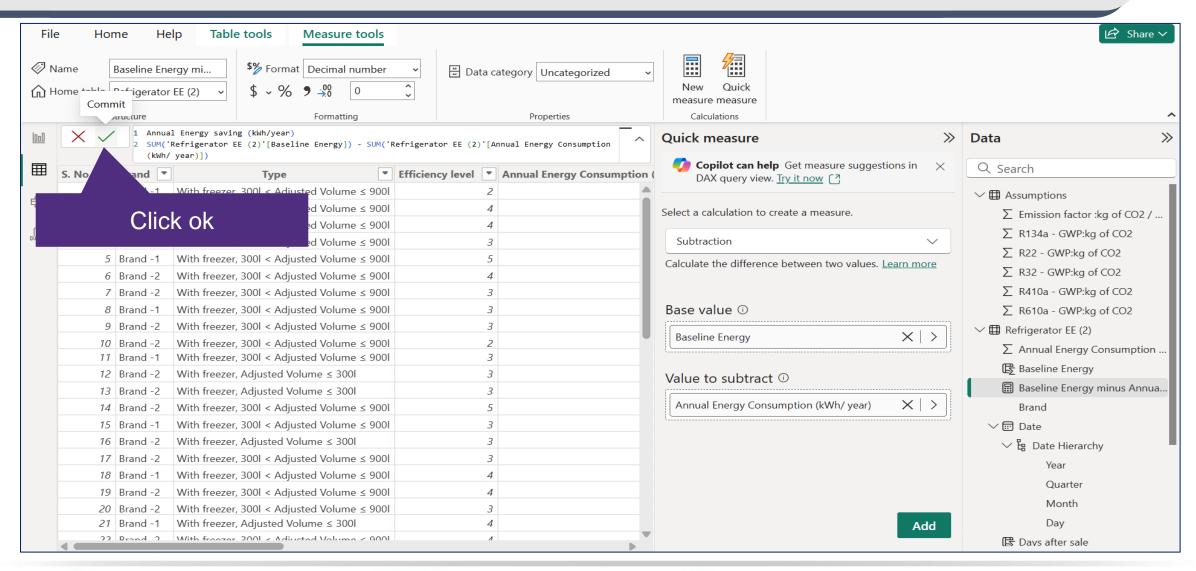














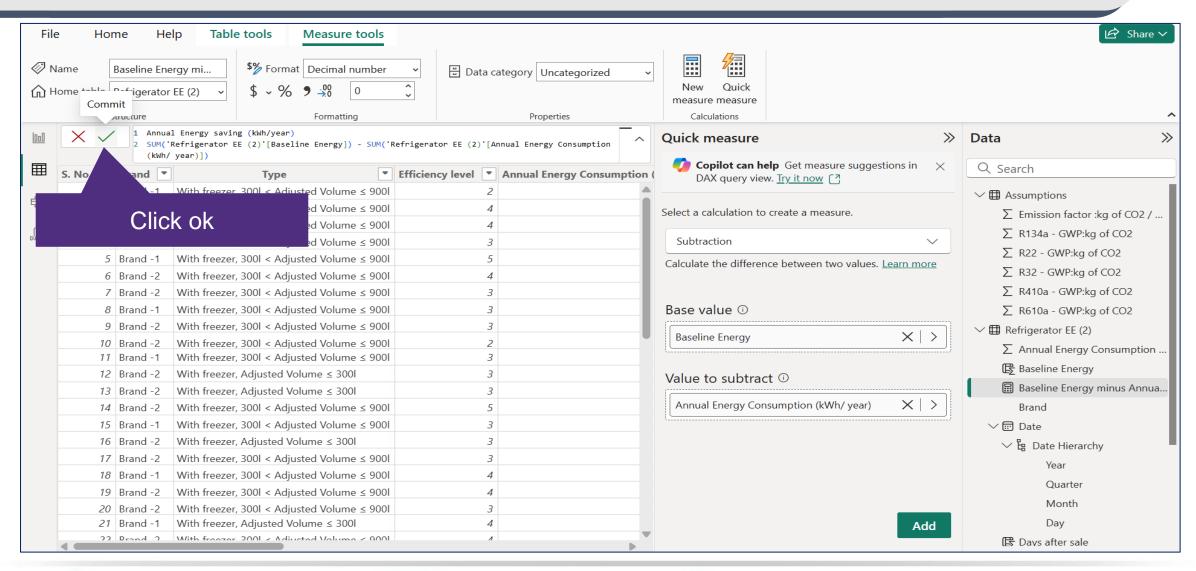














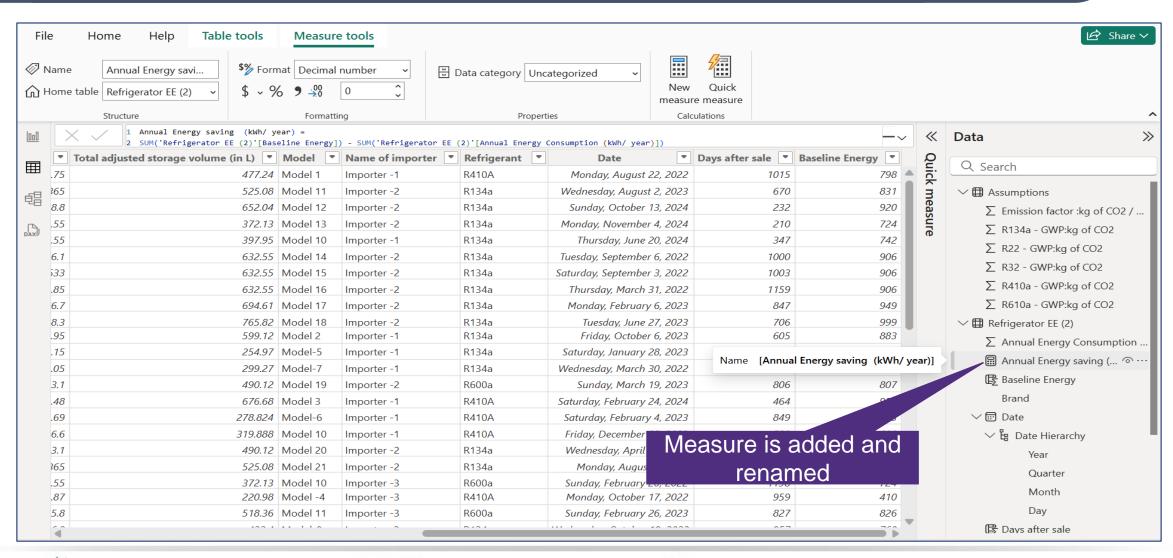






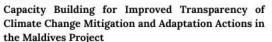












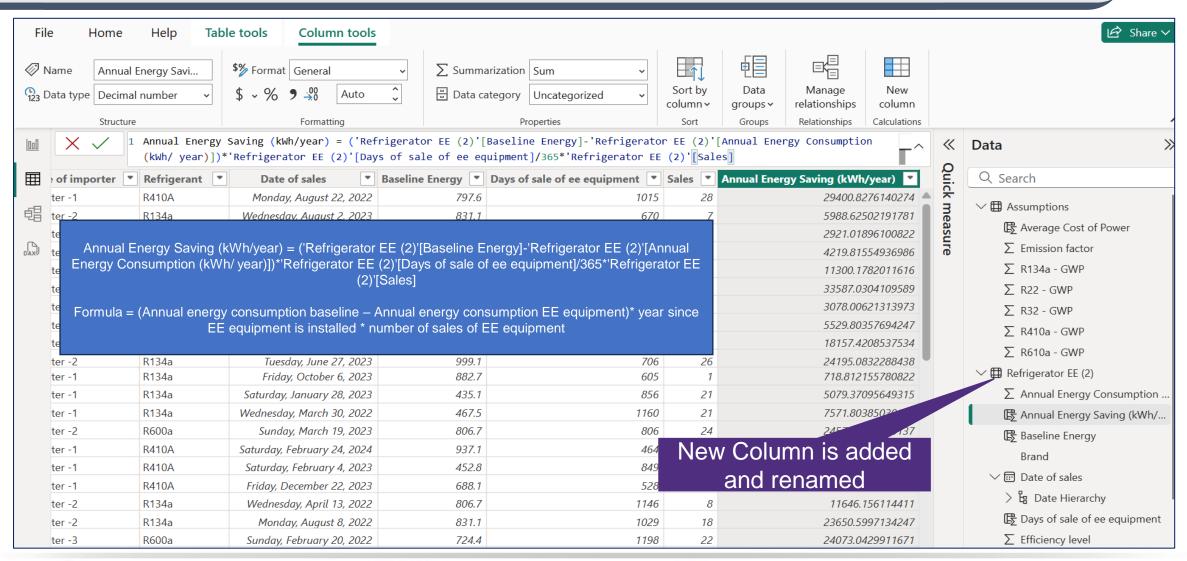








DAX functions for Energy Saving calculation





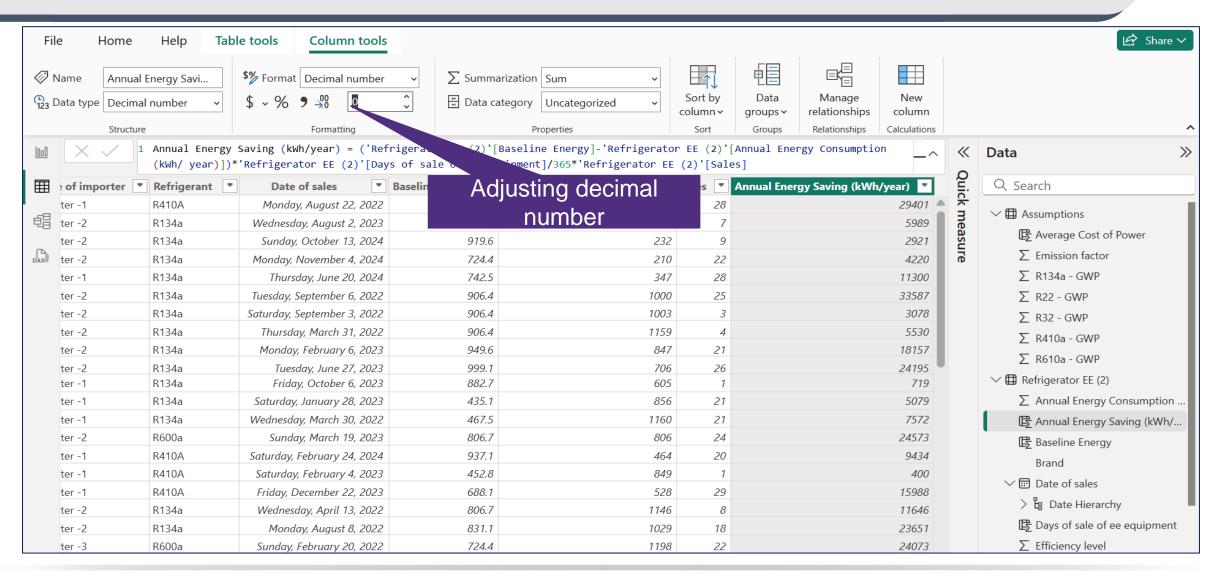




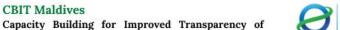




DAX functions for Energy Saving calculation







Climate Change Mitigation and Adaptation Actions in

the Maldives Project

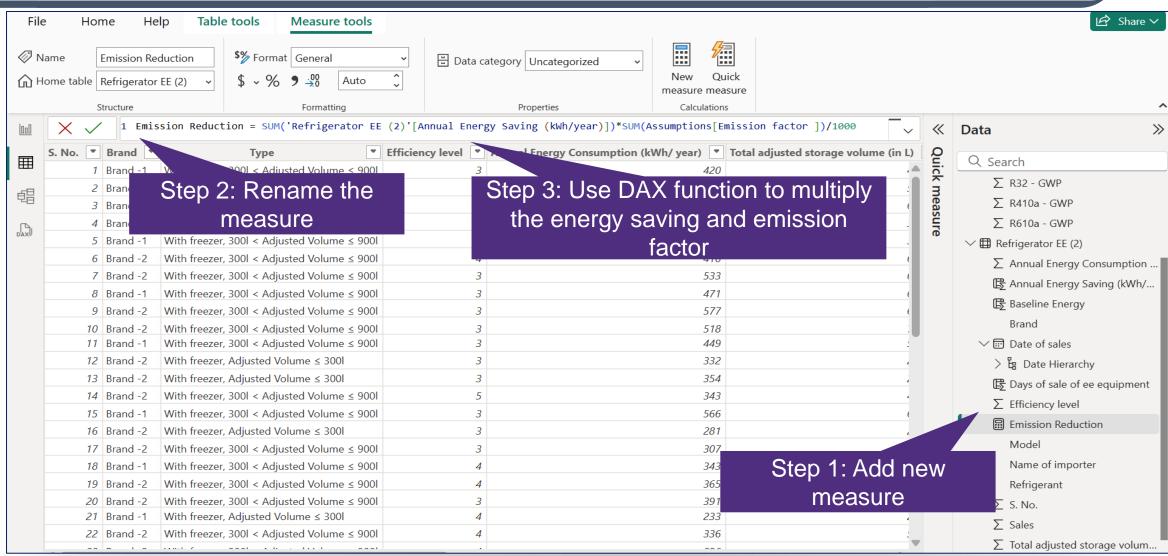








DAX functions for Emission Reduction





Ministry of Tourism and Environment

Republic of Maldives

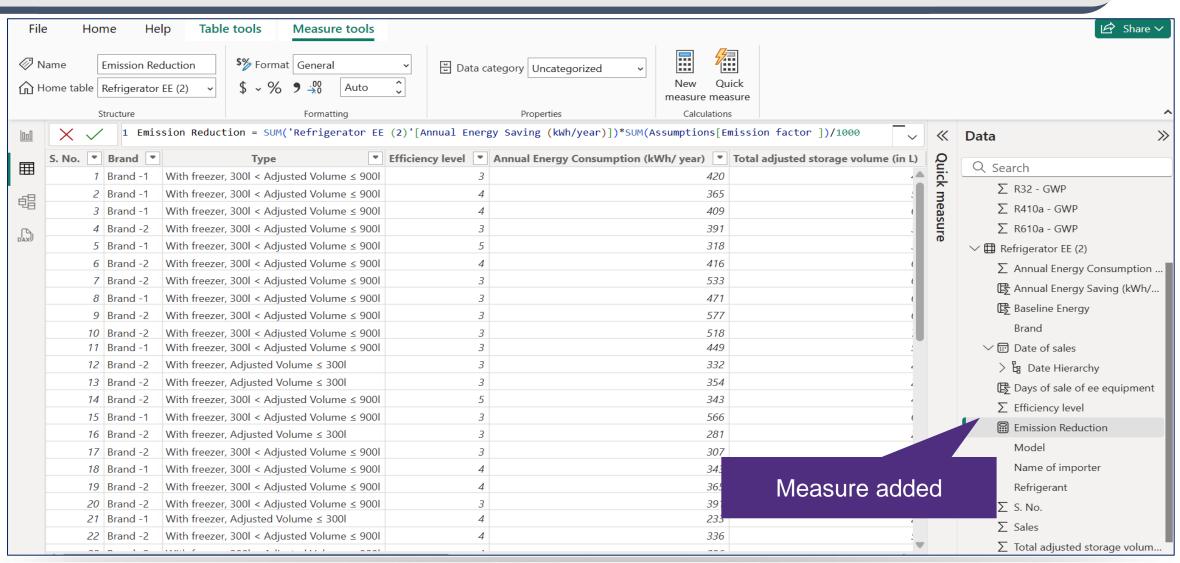








DAX functions for Emission Reduction





Ministry of Tourism and Environment

Republic of Maldives

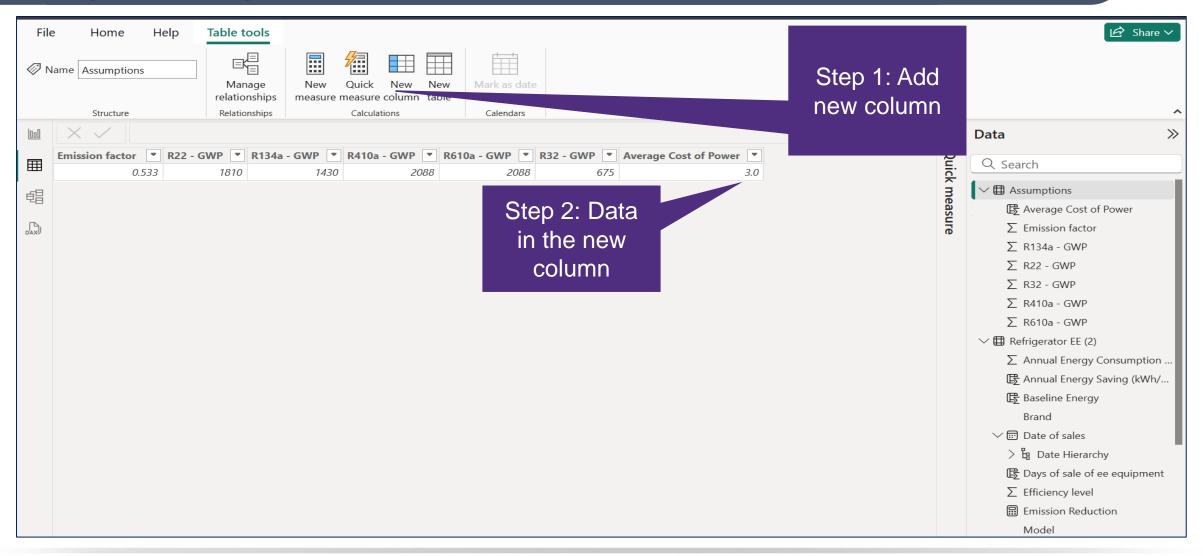








Adding data in Column for cost of the power saving (Maldivian Rufiyaa / kWh)









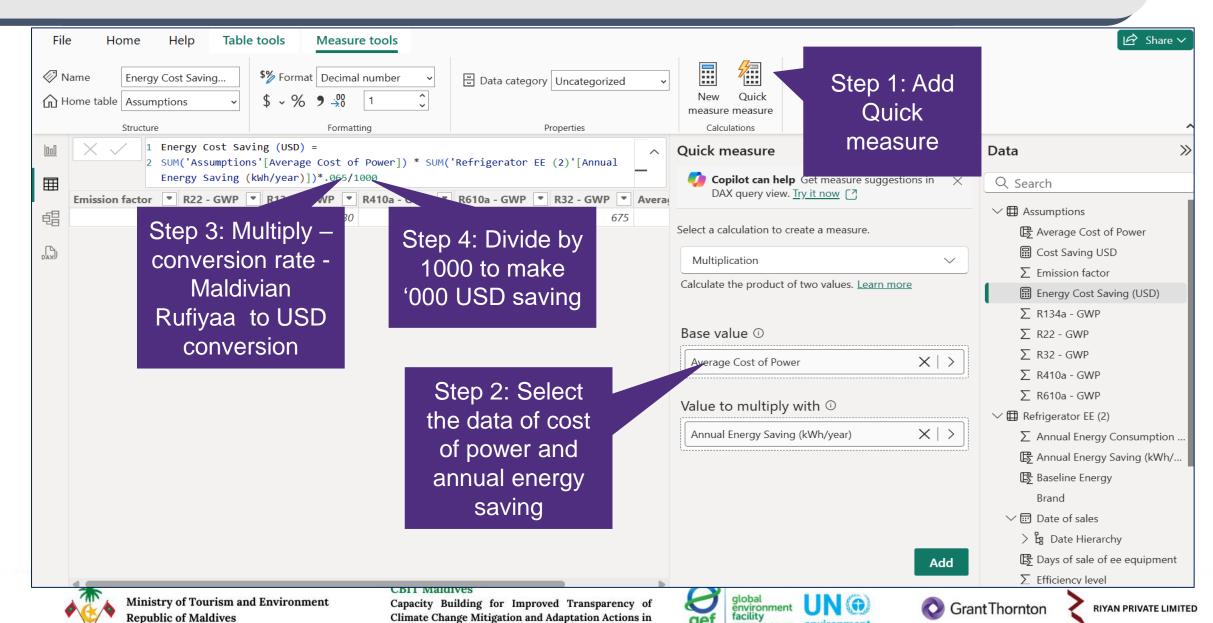


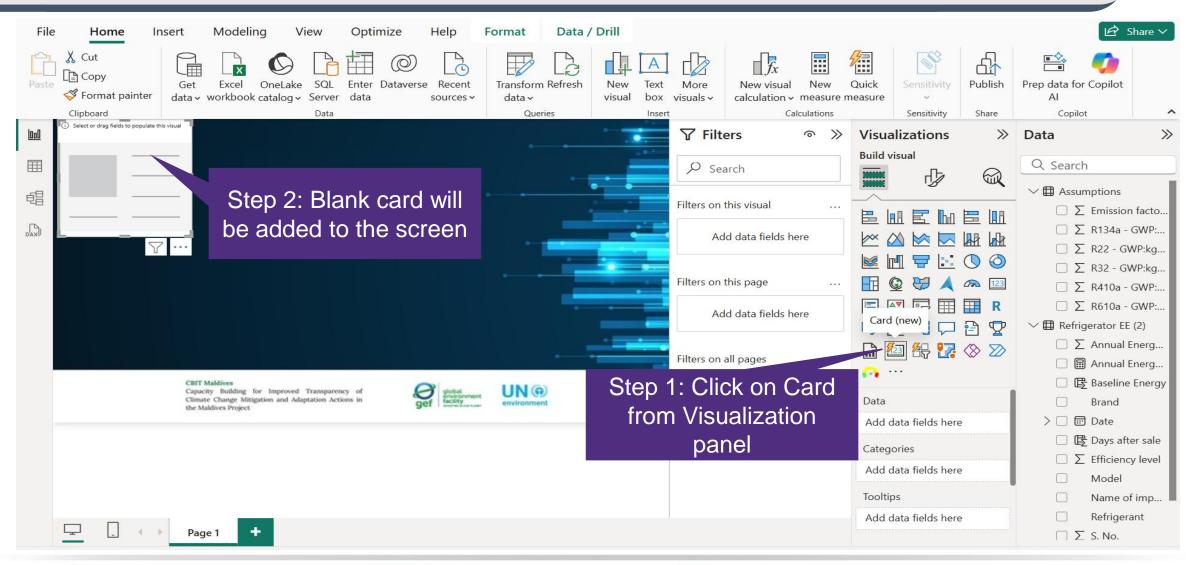




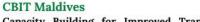
Adding new measure for evaluating cost savings

the Maldives Project







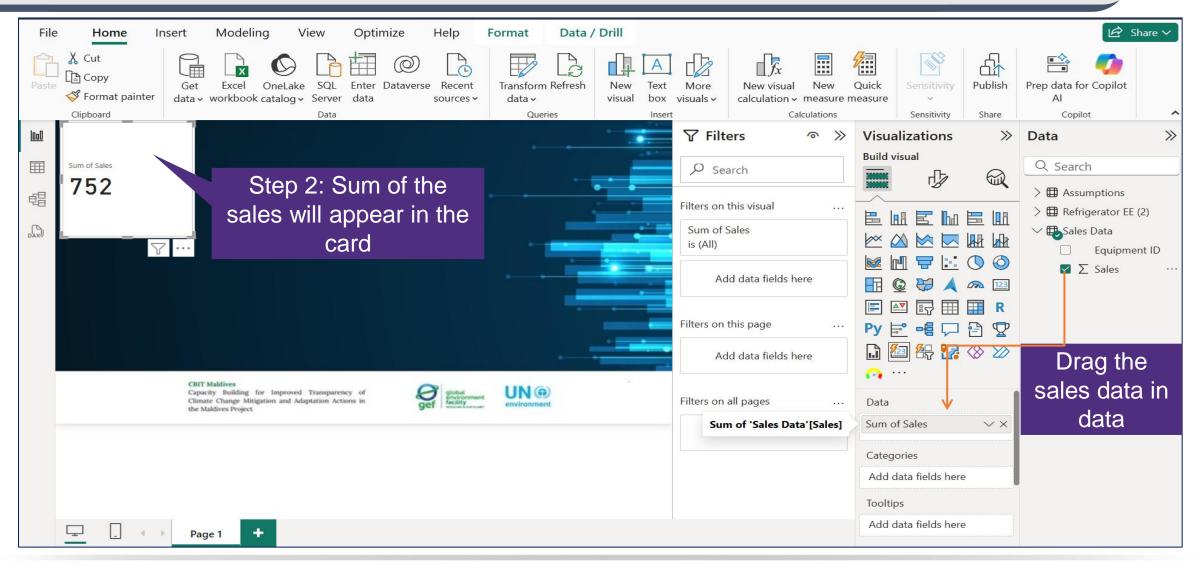






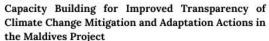










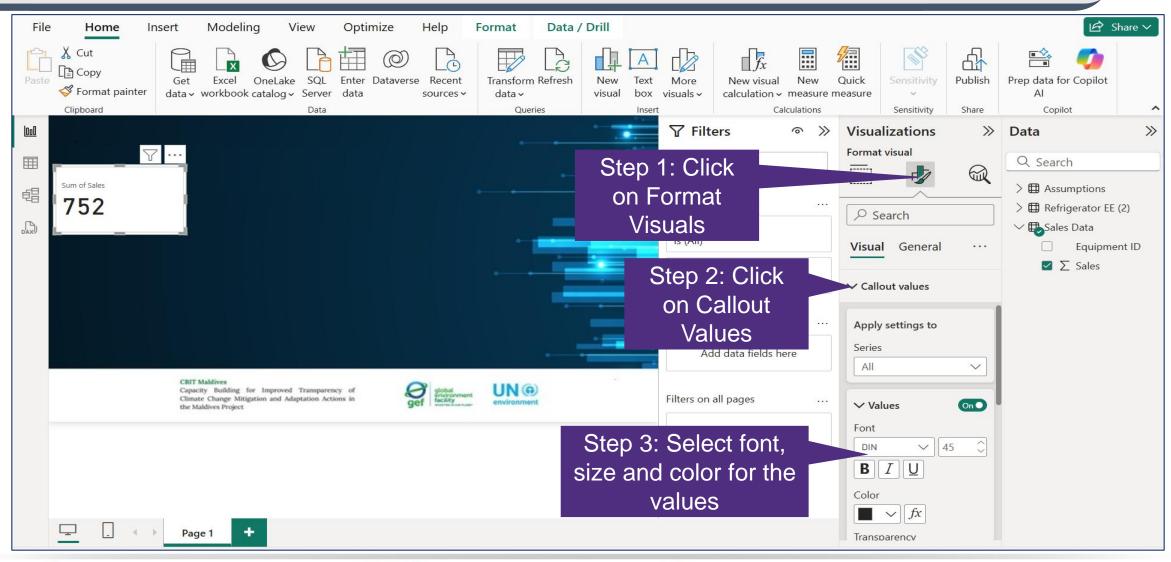












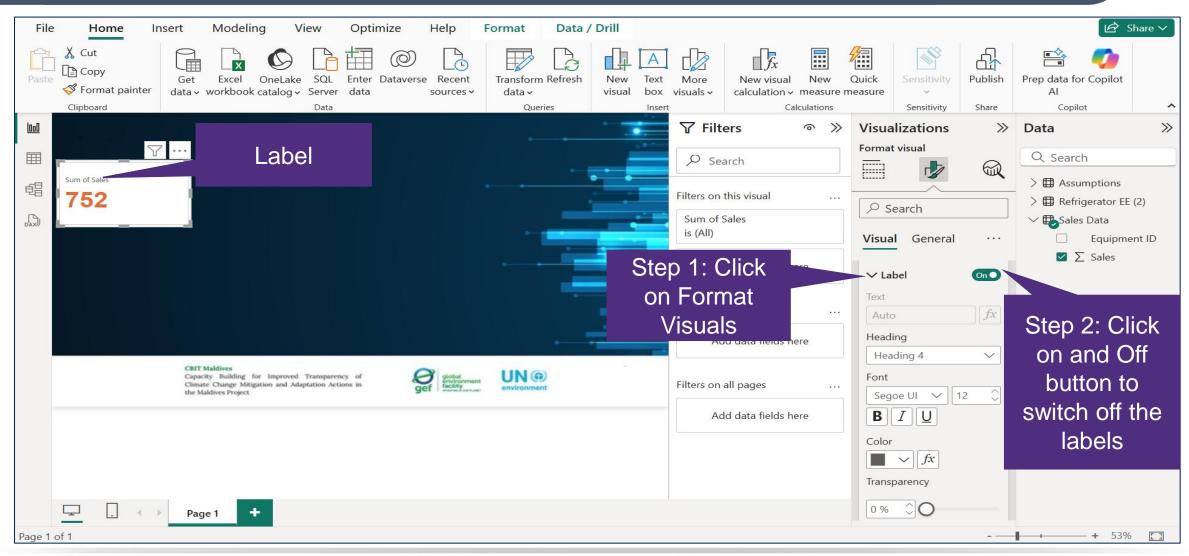














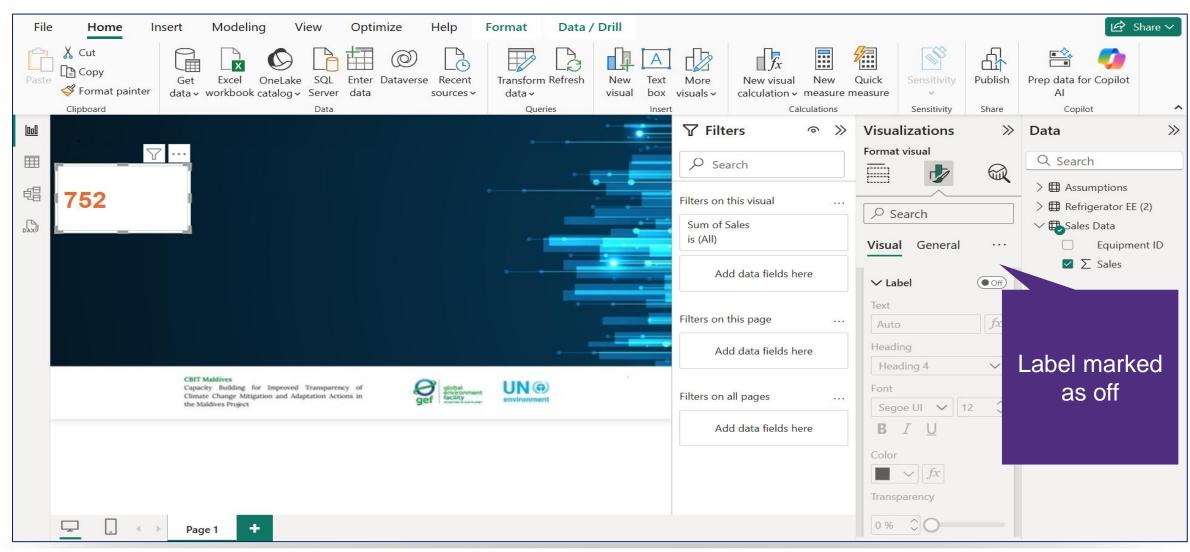
CBIT Maldives





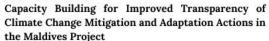










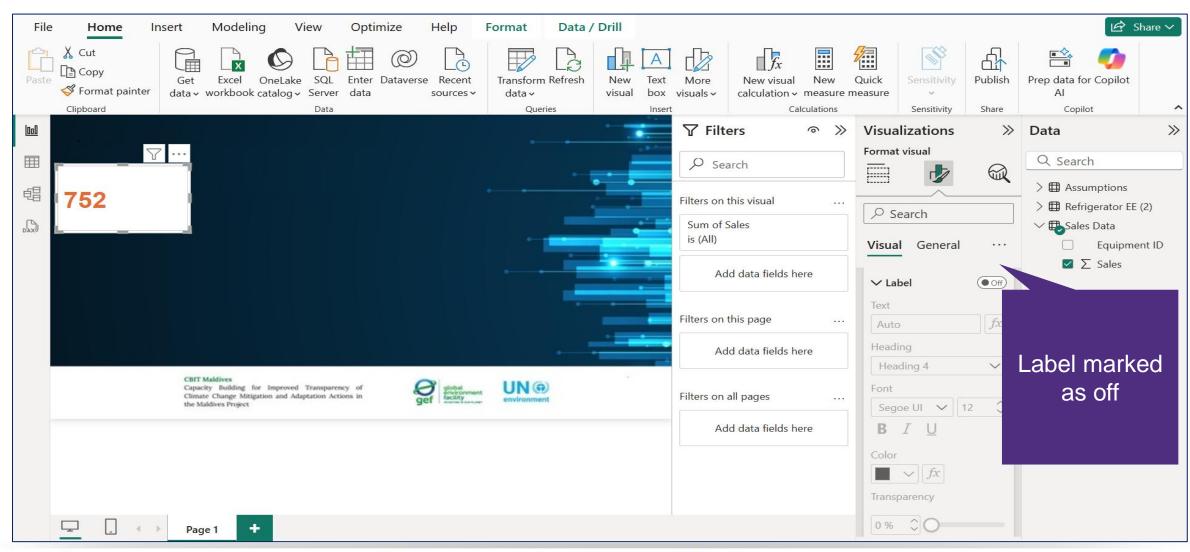






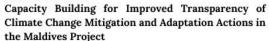










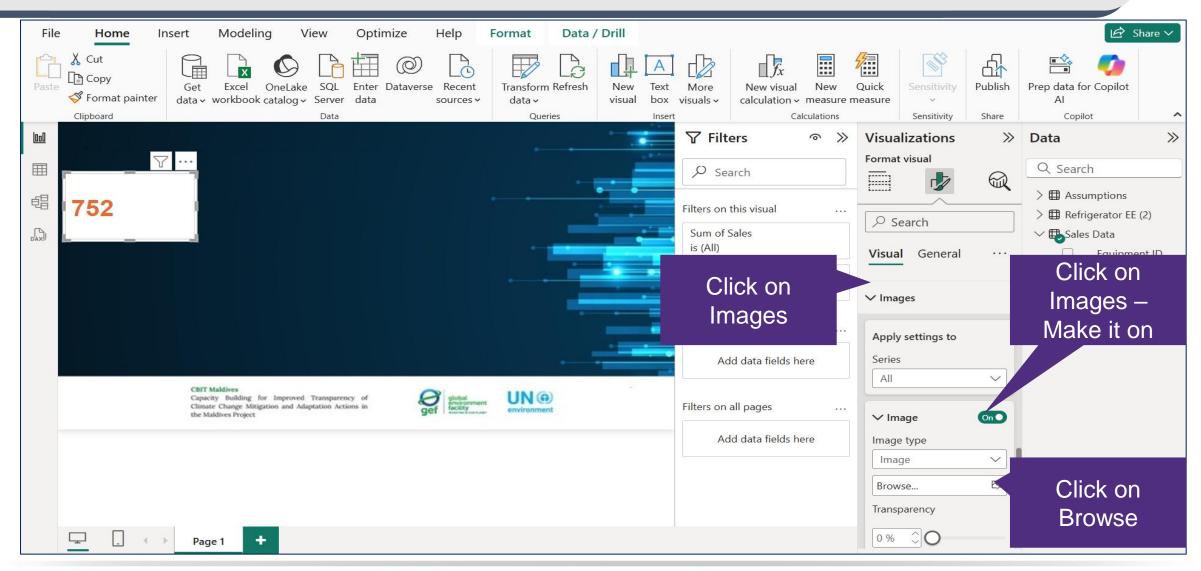












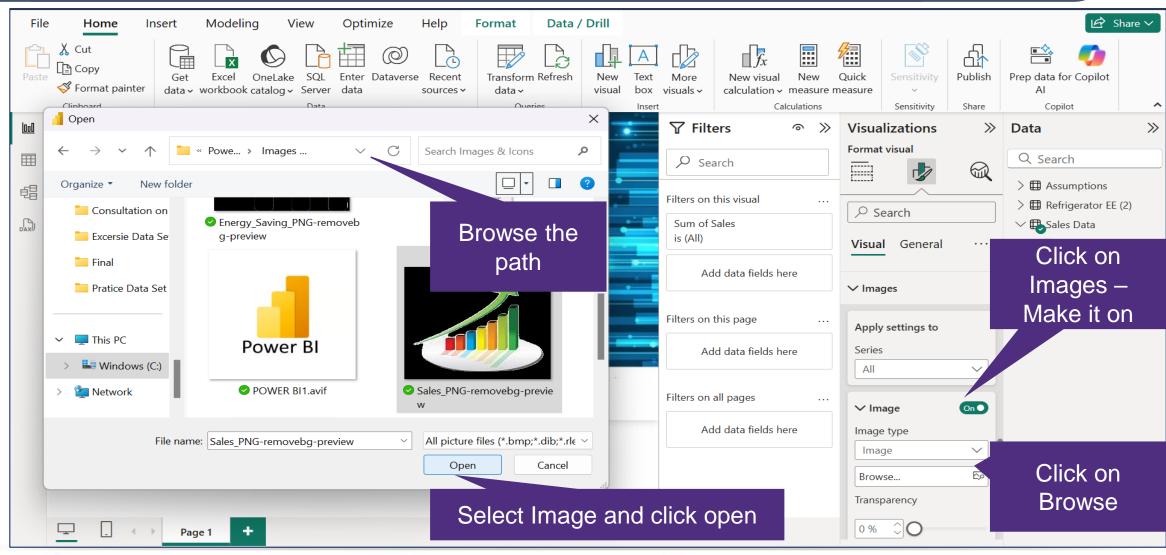












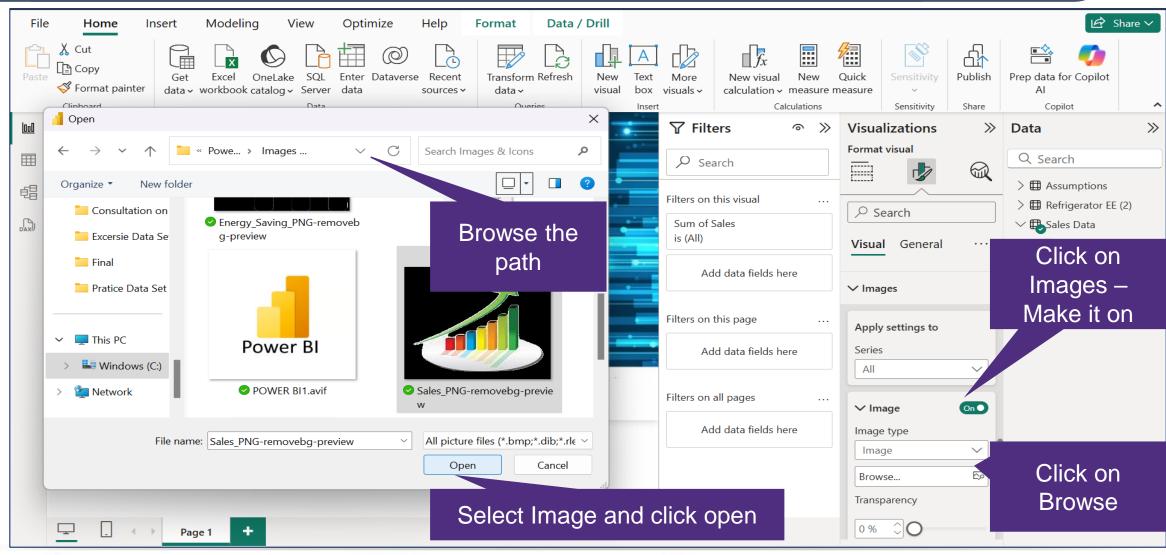


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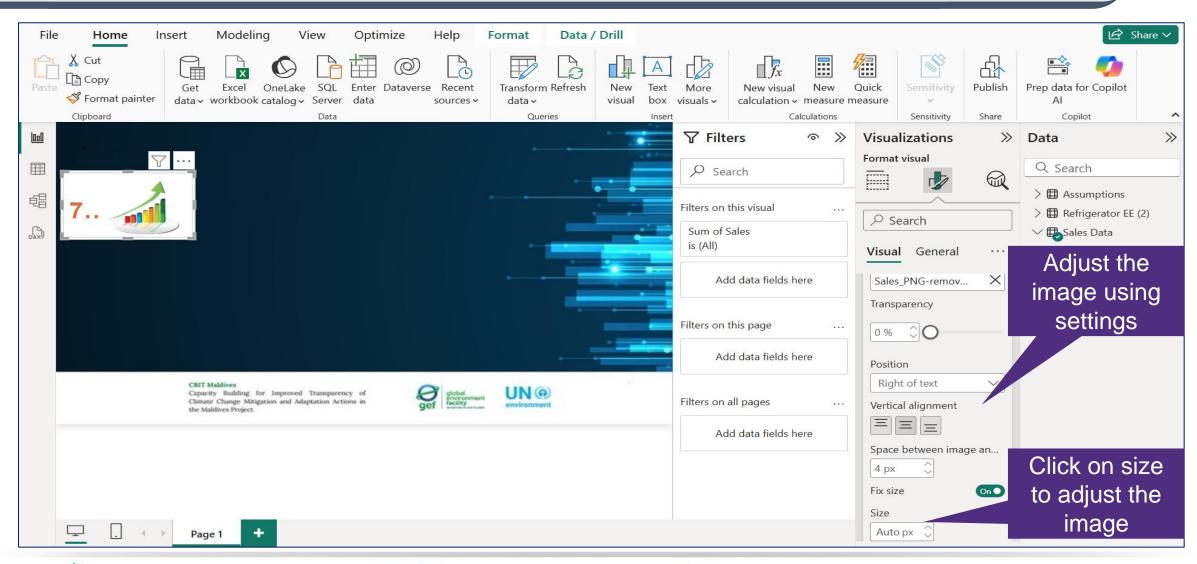


CBIT Maldives















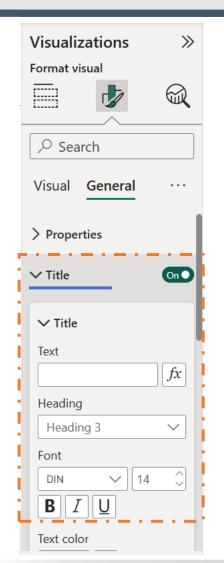


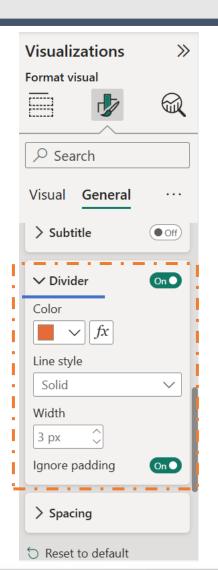


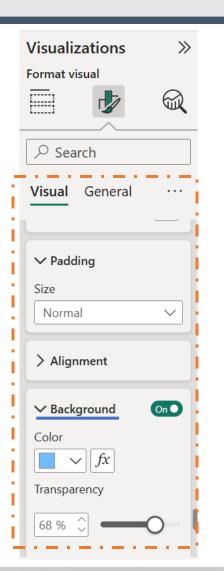


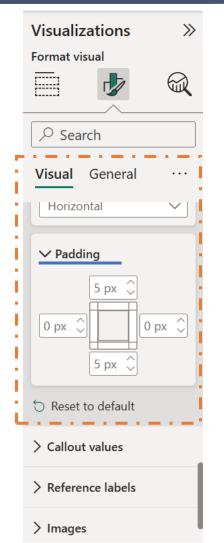
Formatting the Visual

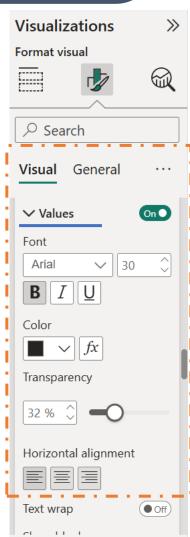










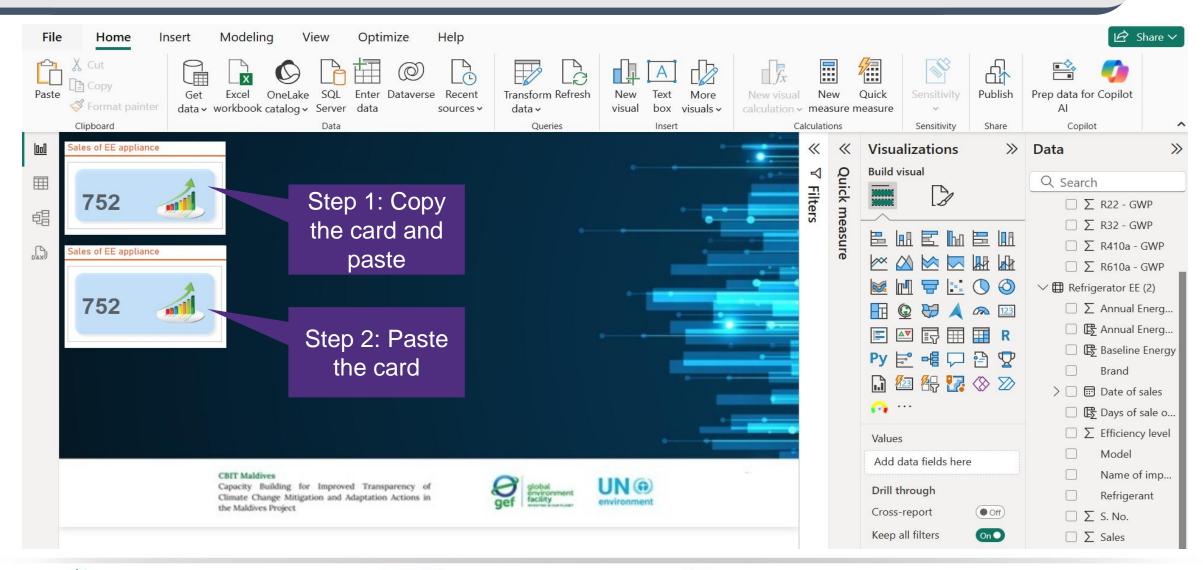




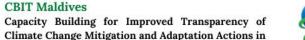












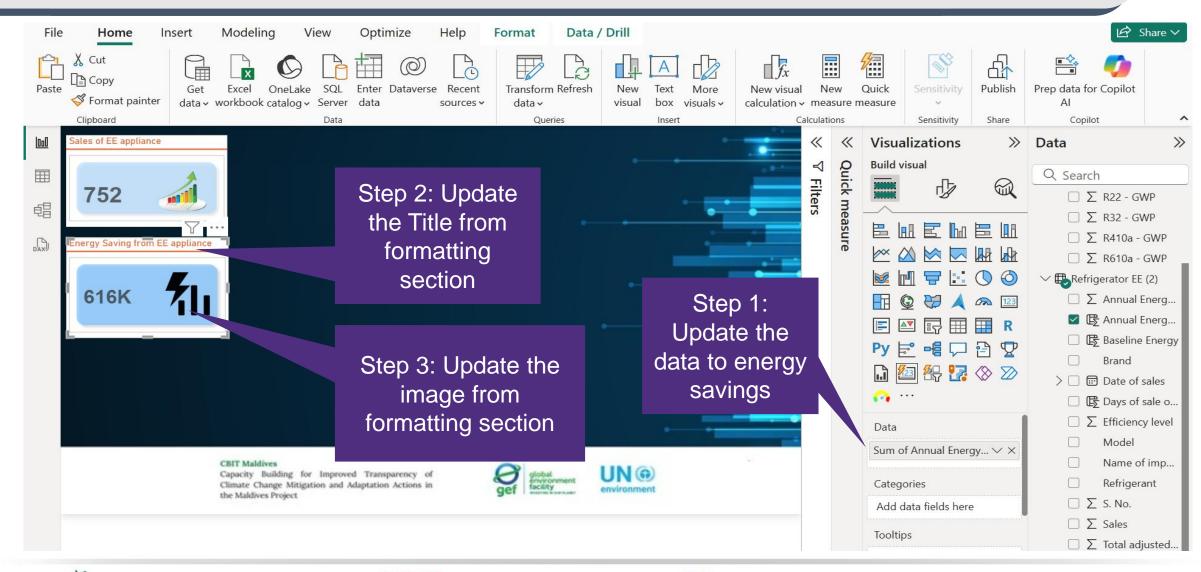
the Maldives Project

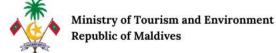














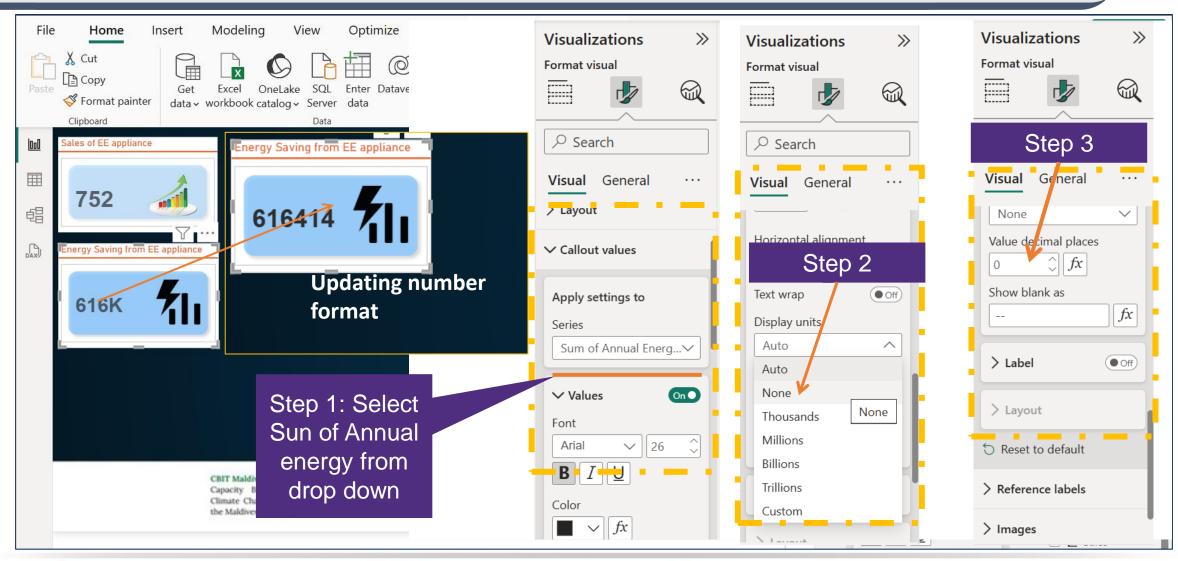


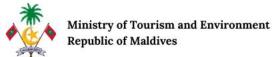




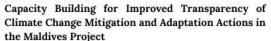


Updating Number format









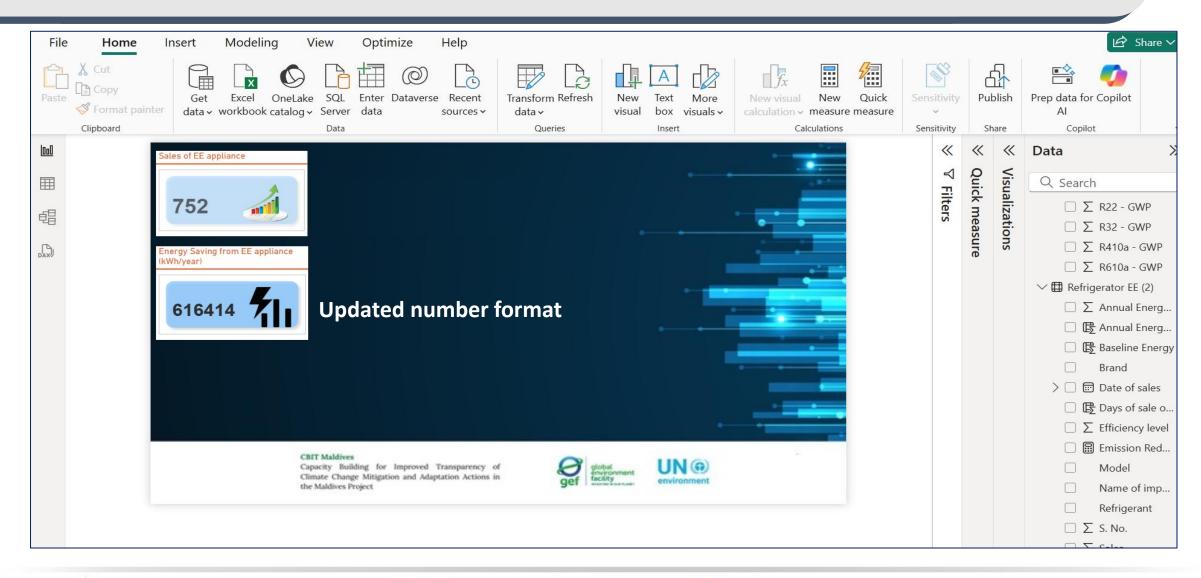






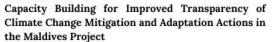


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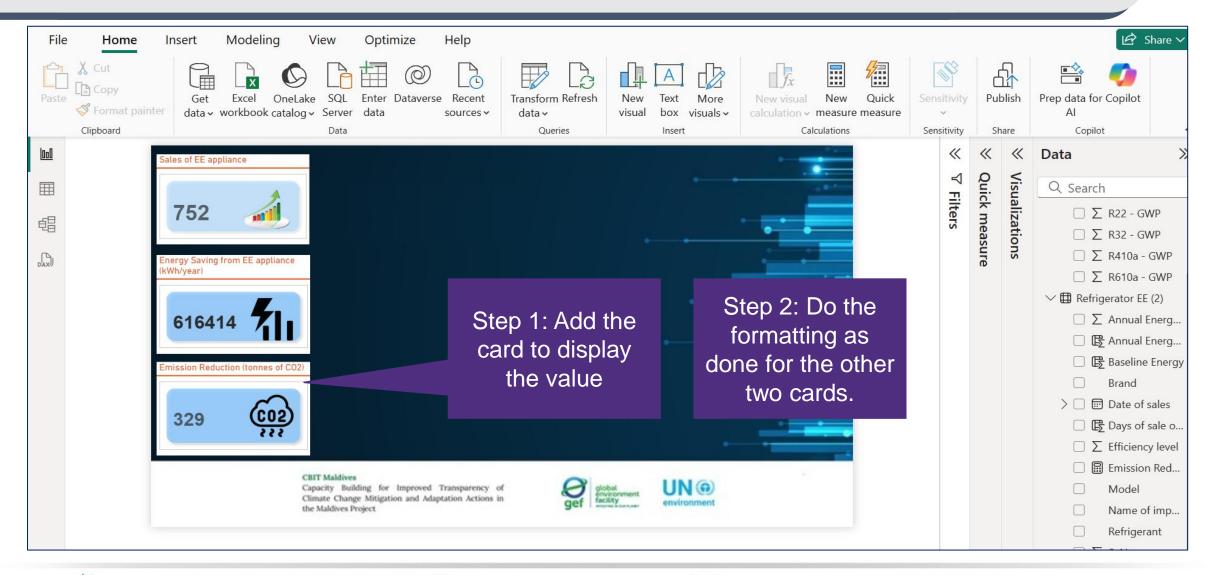
















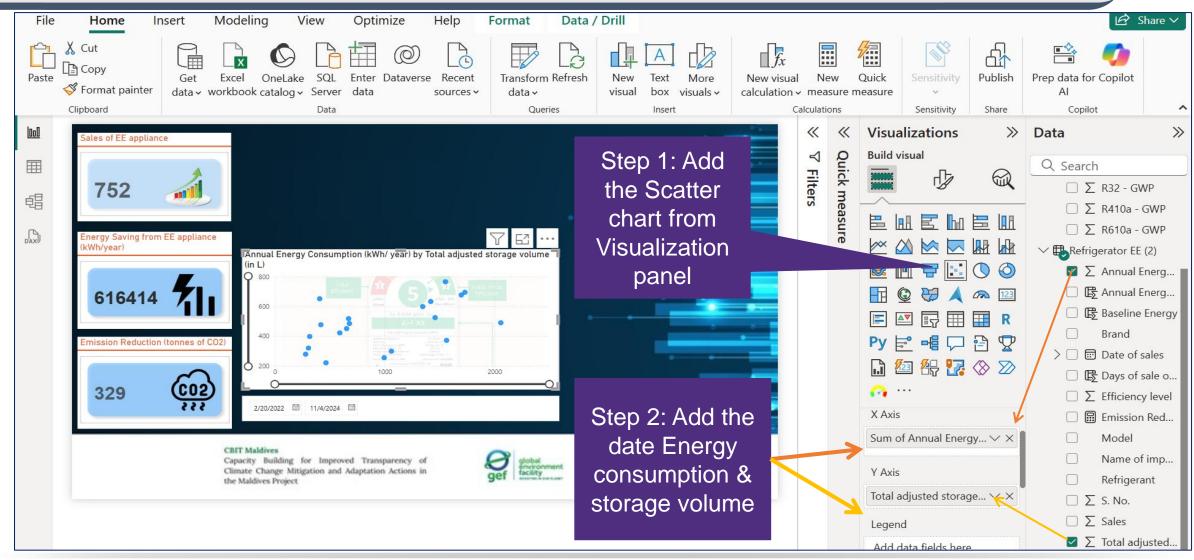






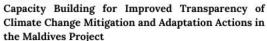


Adding Scatter Chart









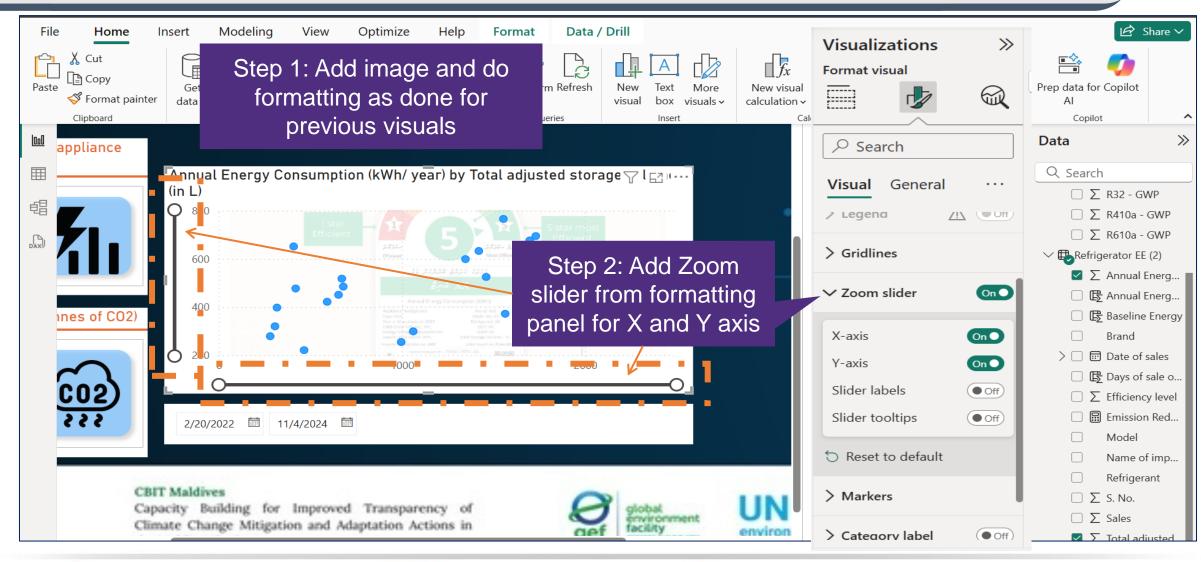








Adding Scatter Chart



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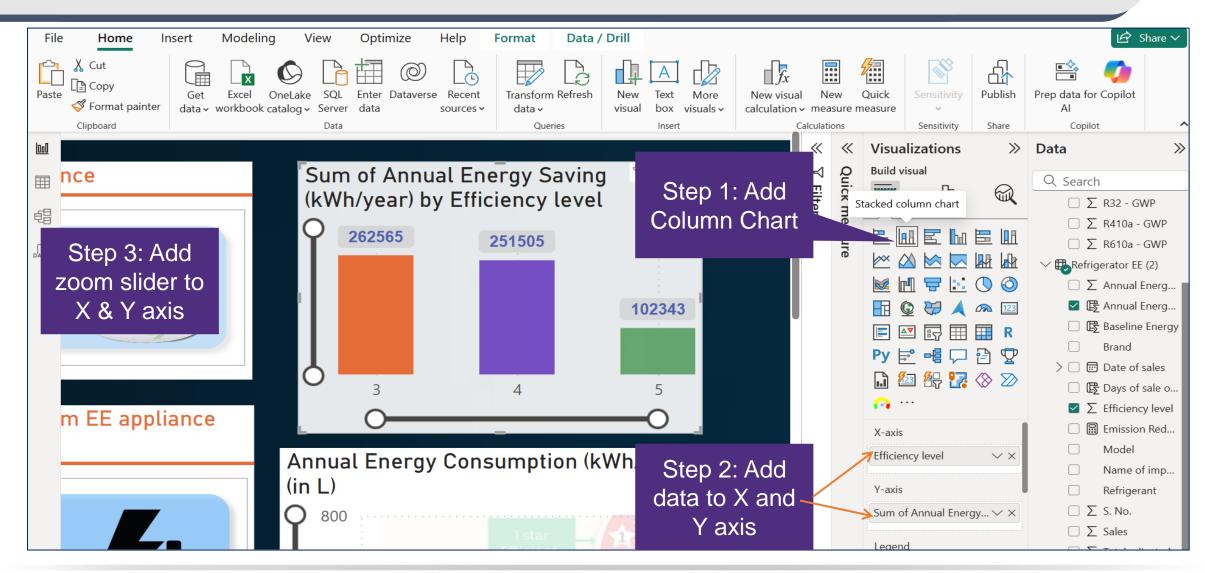














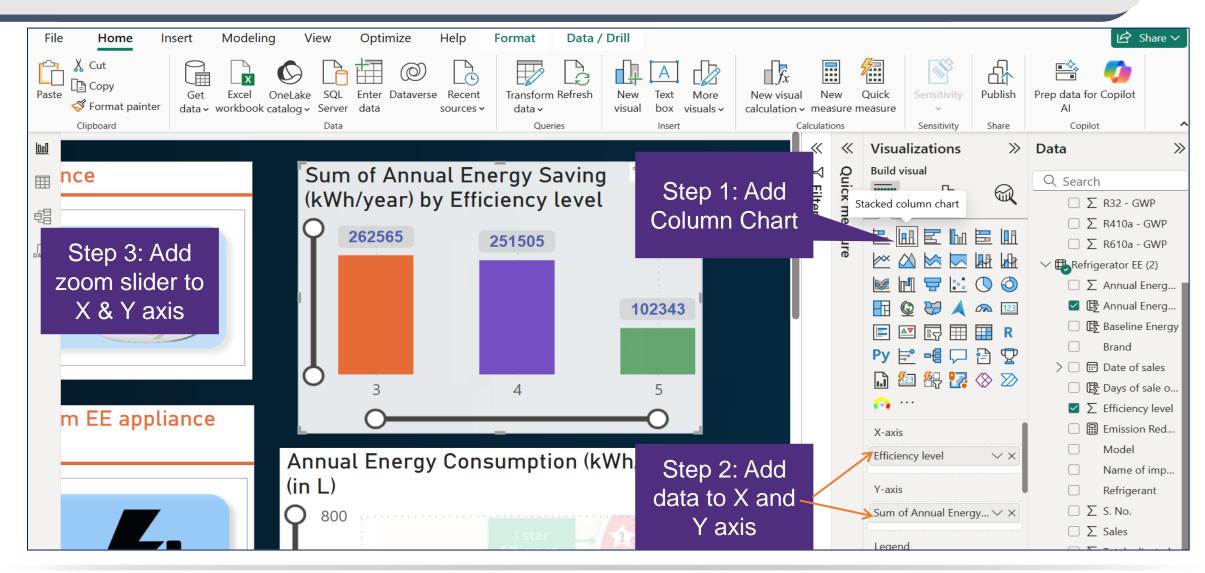














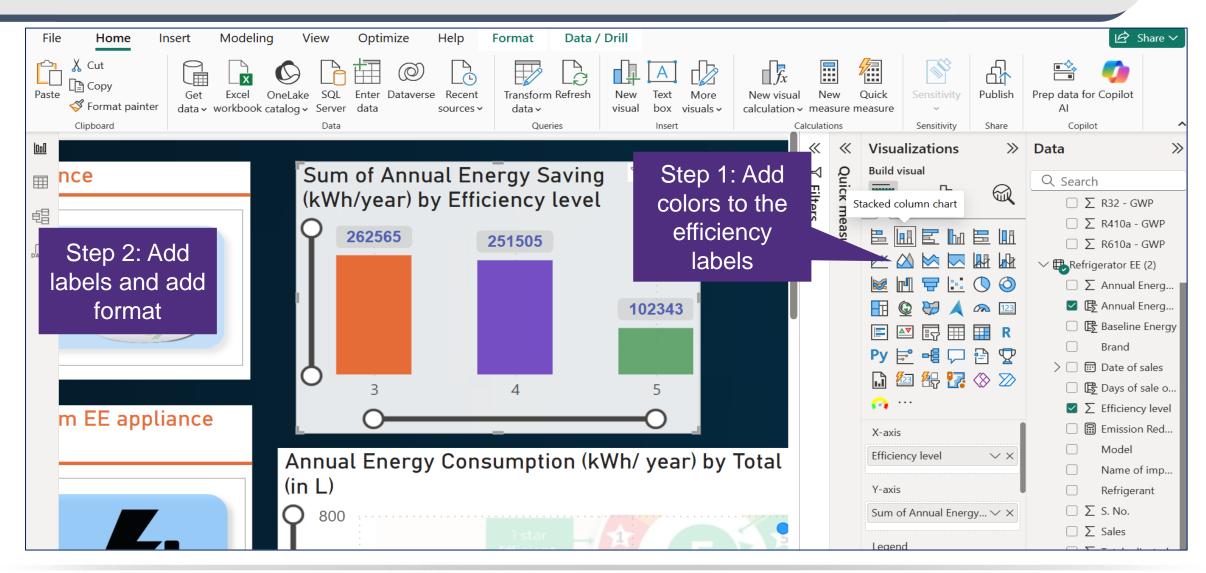
















Climate Change Mitigation and Adaptation Actions in

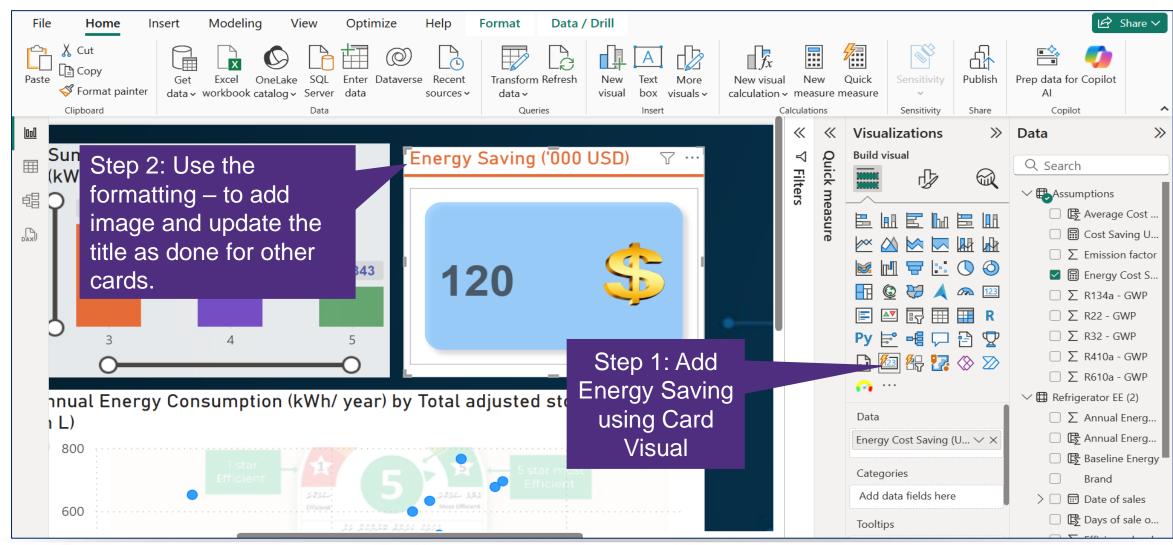
the Maldives Project















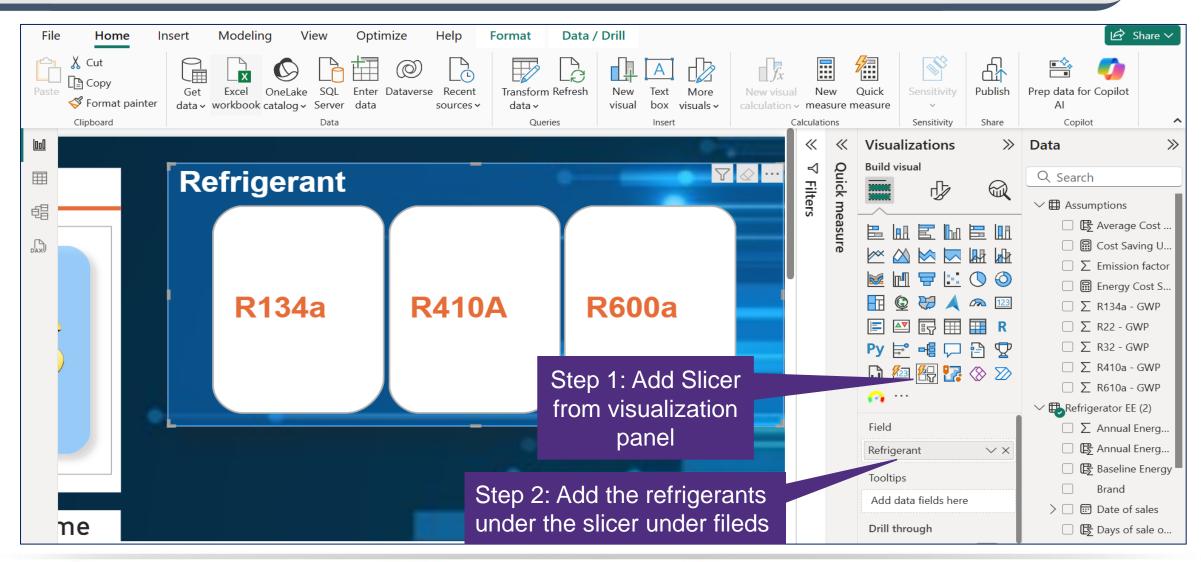






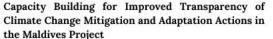


Adding Slices and Drill Down









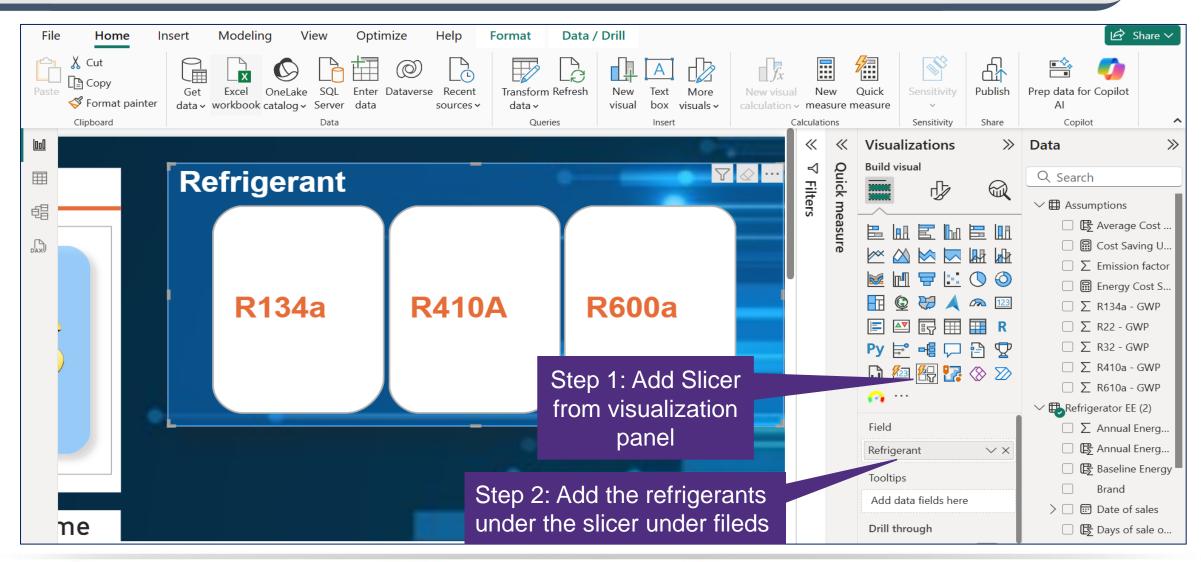






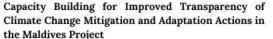


Adding Slices and Drill Down









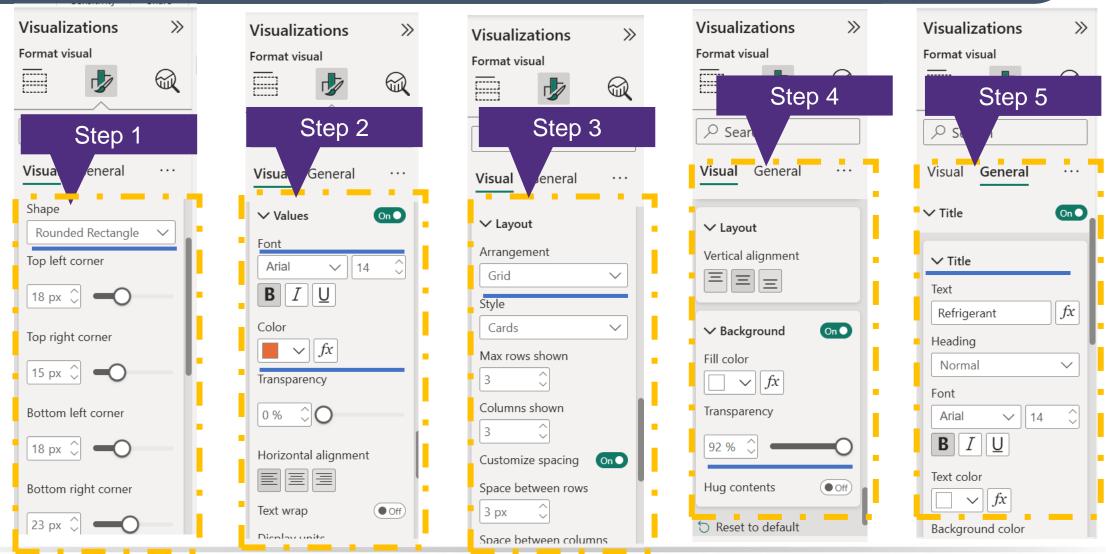






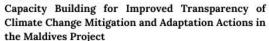


Formatting Slices









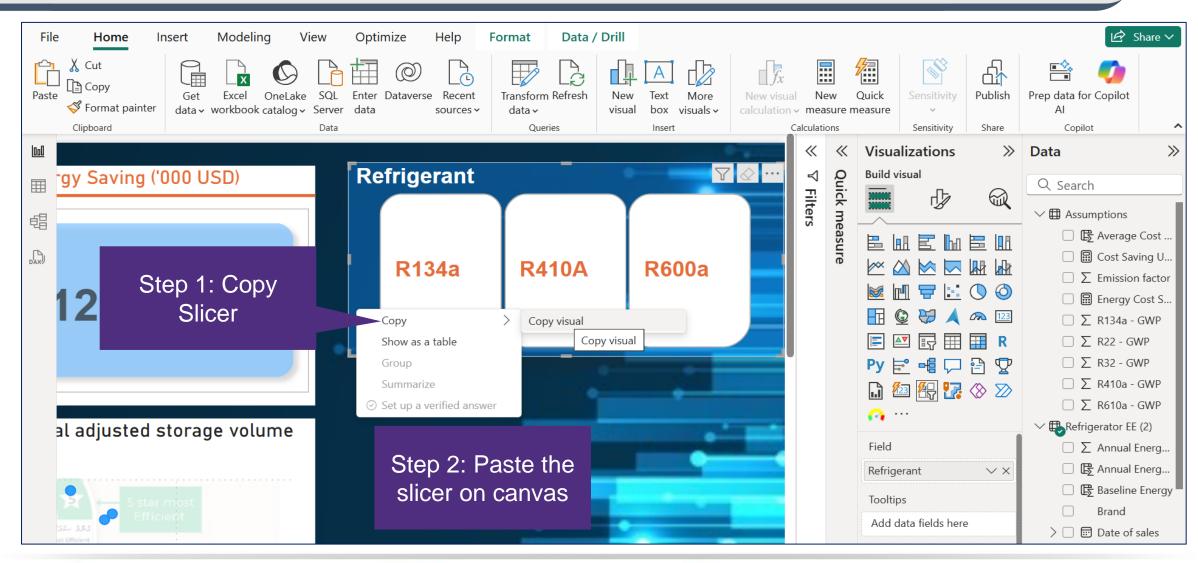






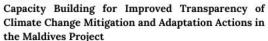


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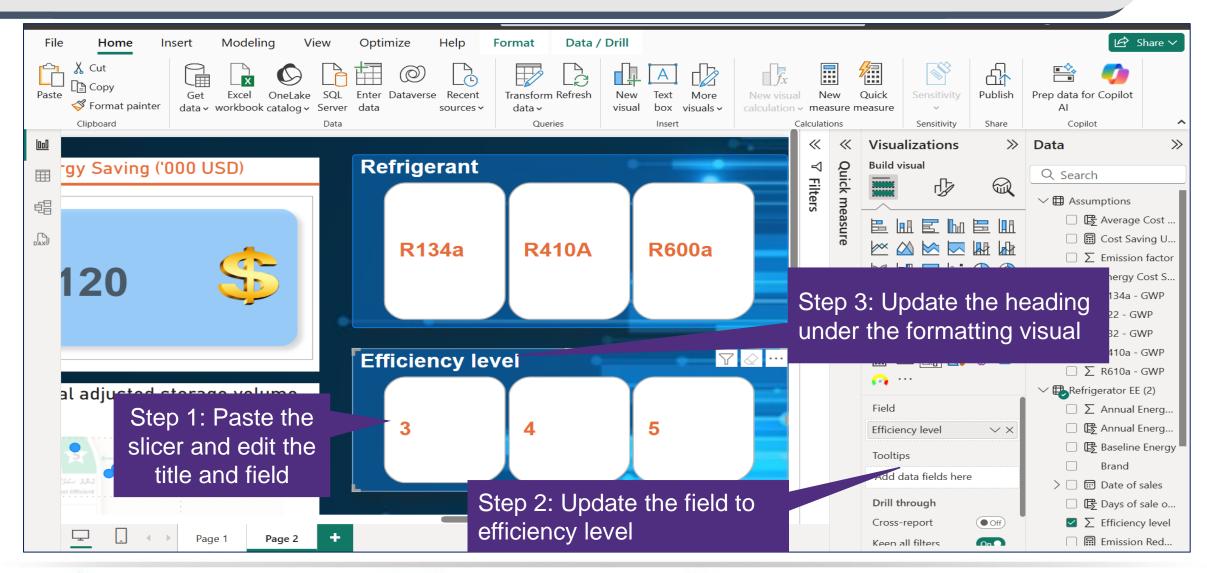








Adding new Slices





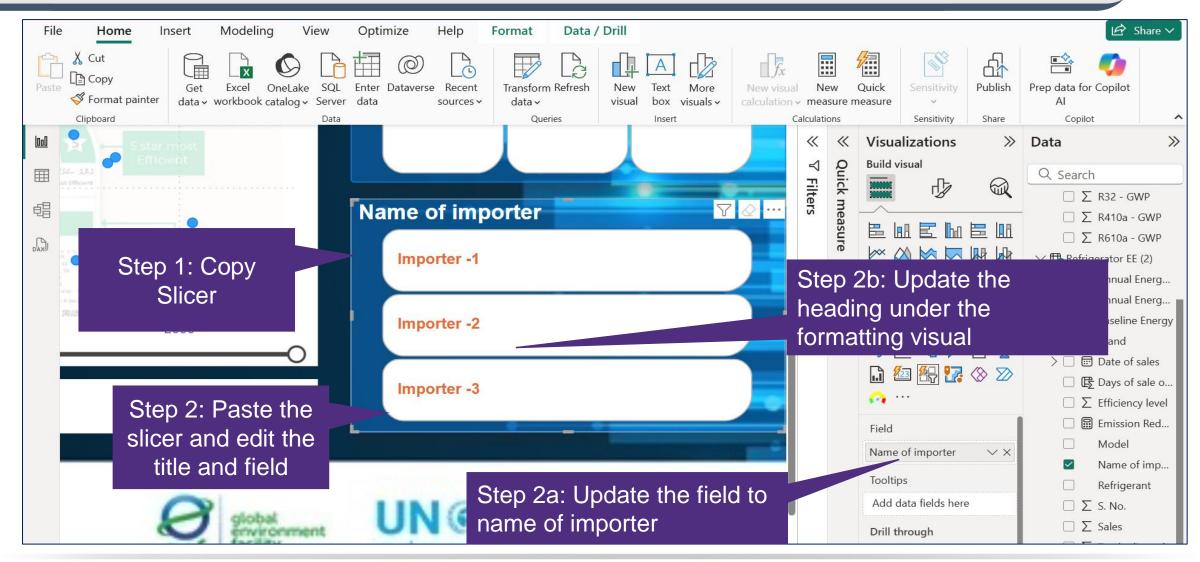








Adding new Slices







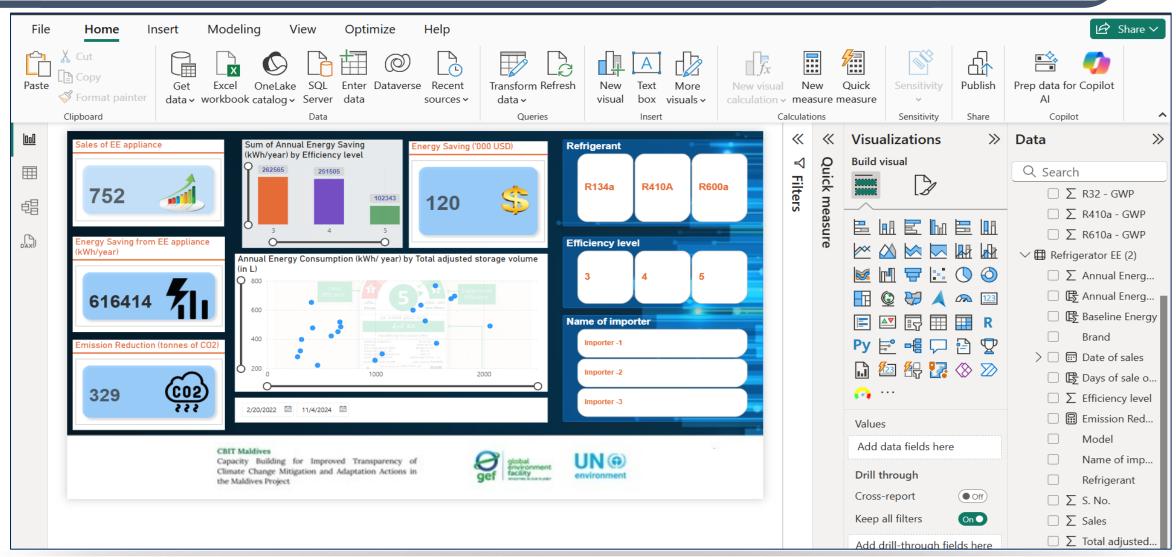








Final Dashboard



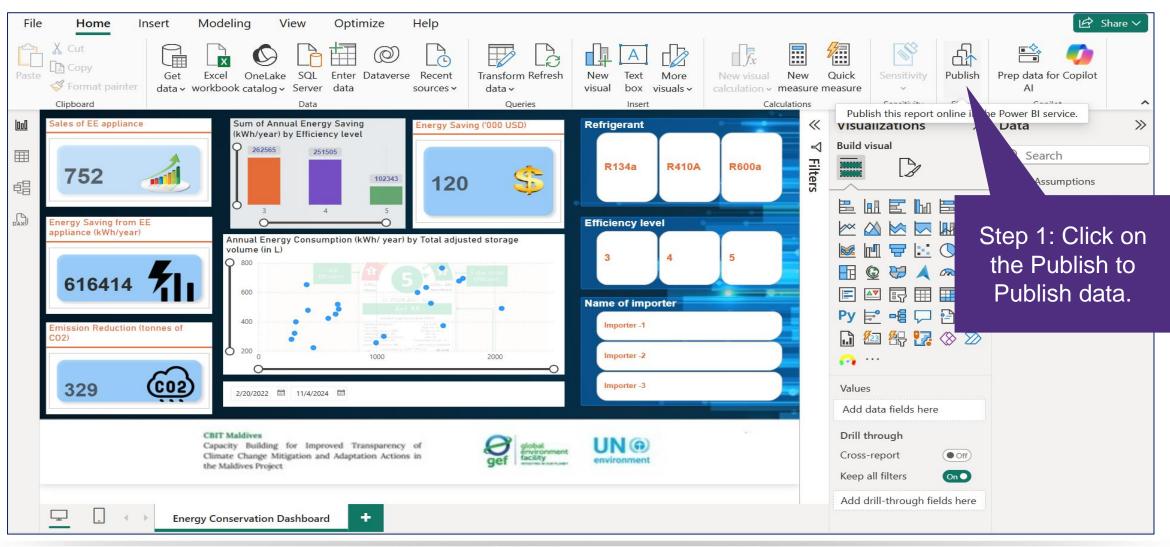






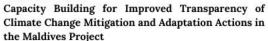


Publishing data









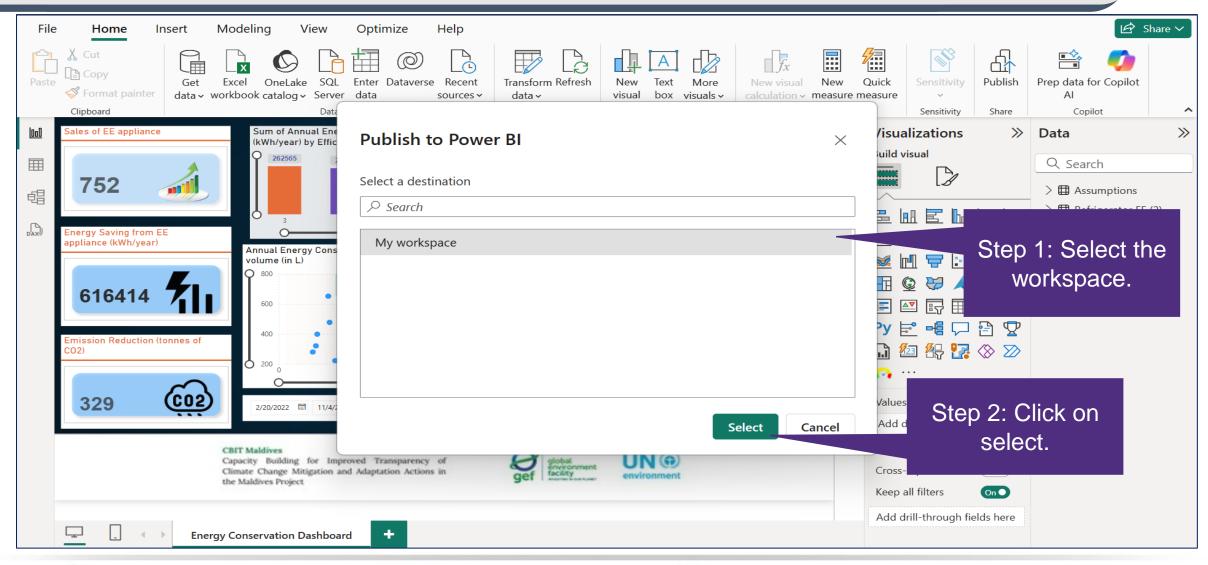








Publishing data





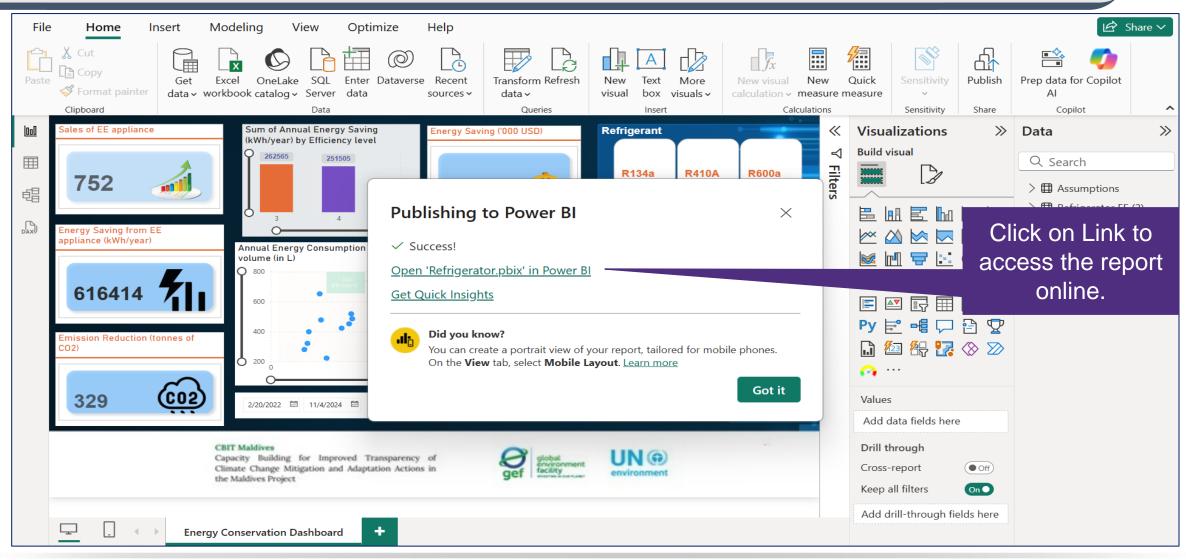


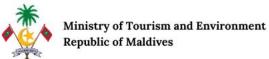






Publishing data





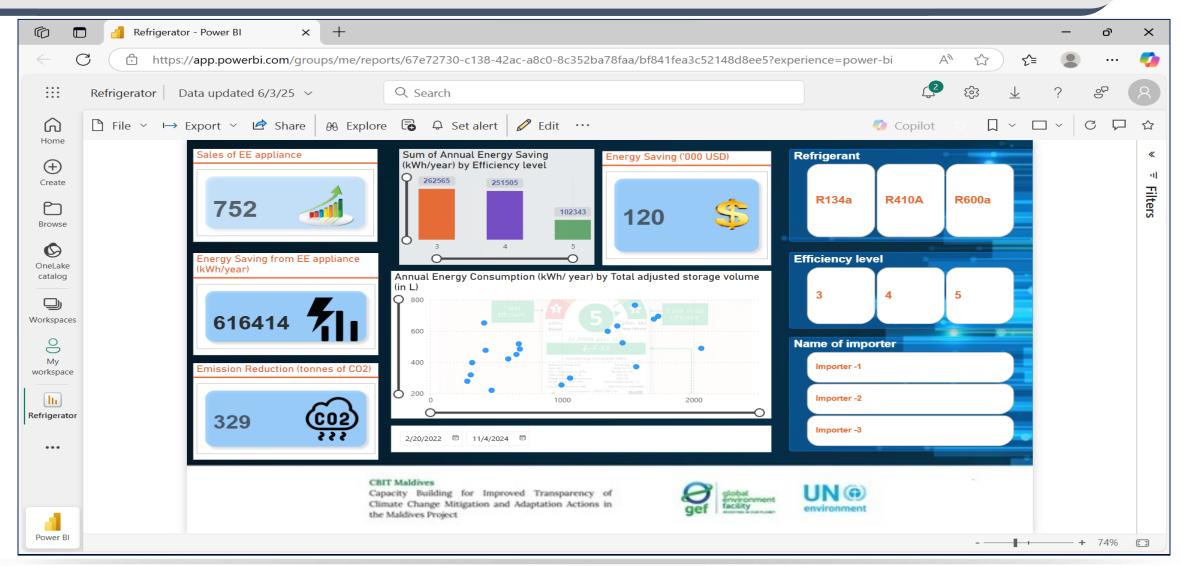


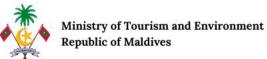






Opening Report online





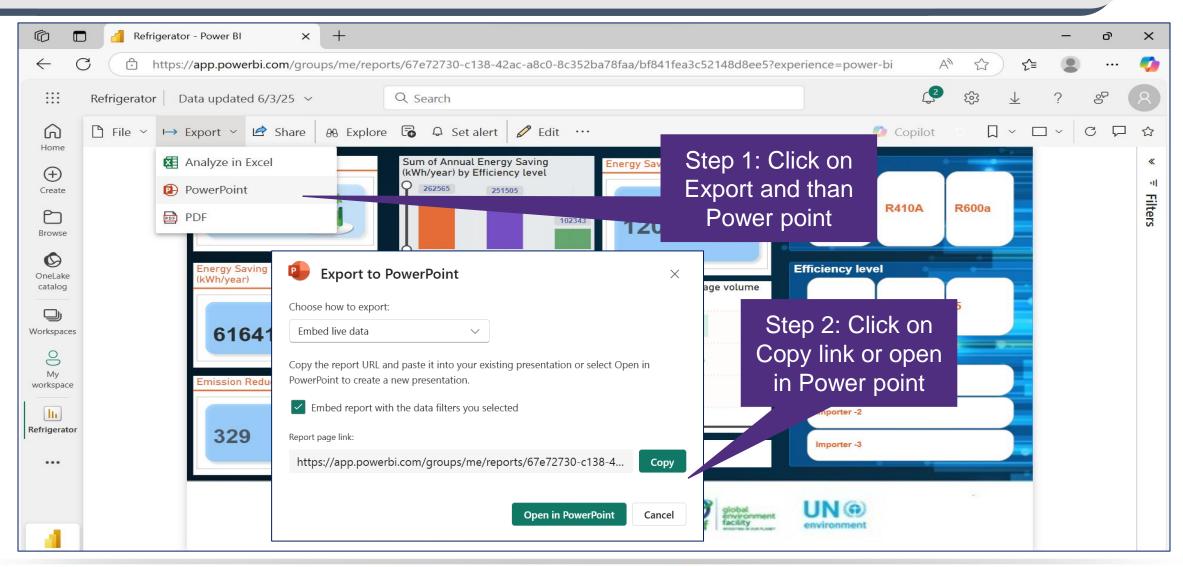








Exporting online dashboard







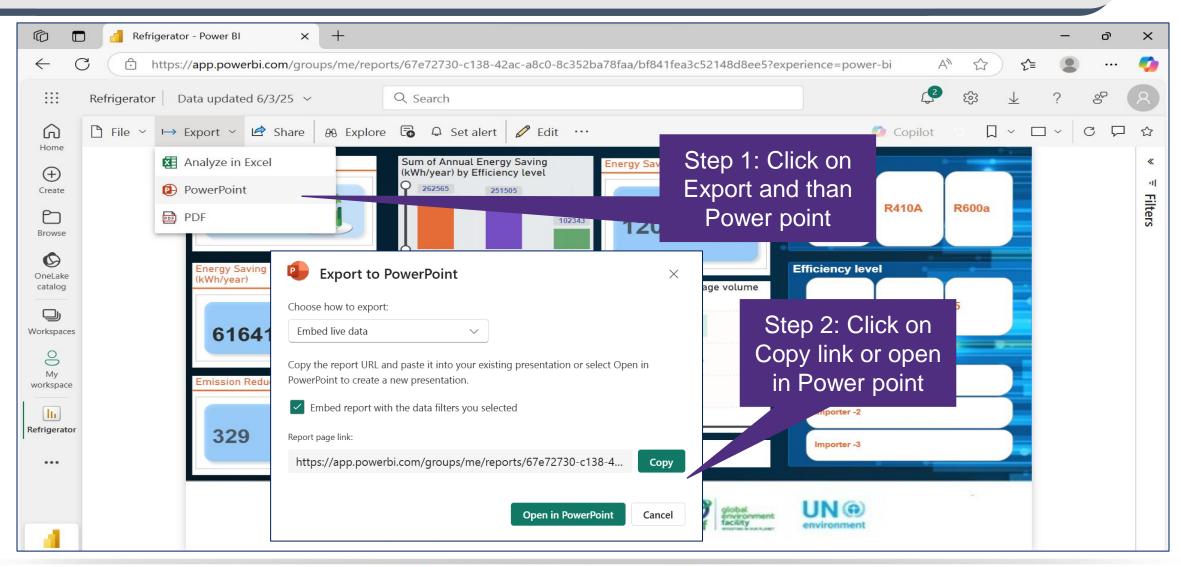






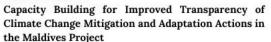


Exporting online dashboard







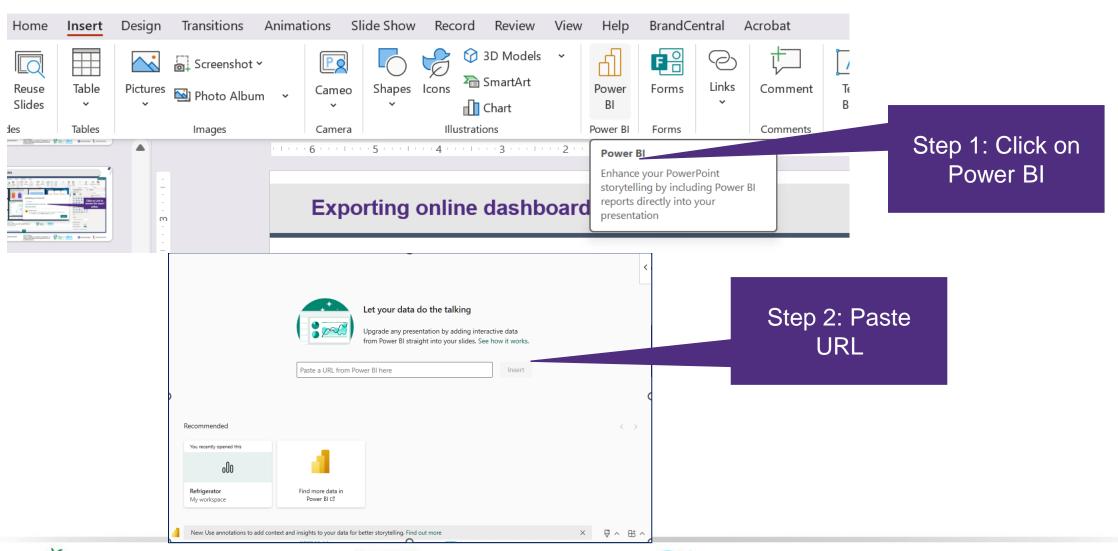








Exporting online dashboard to Power Point

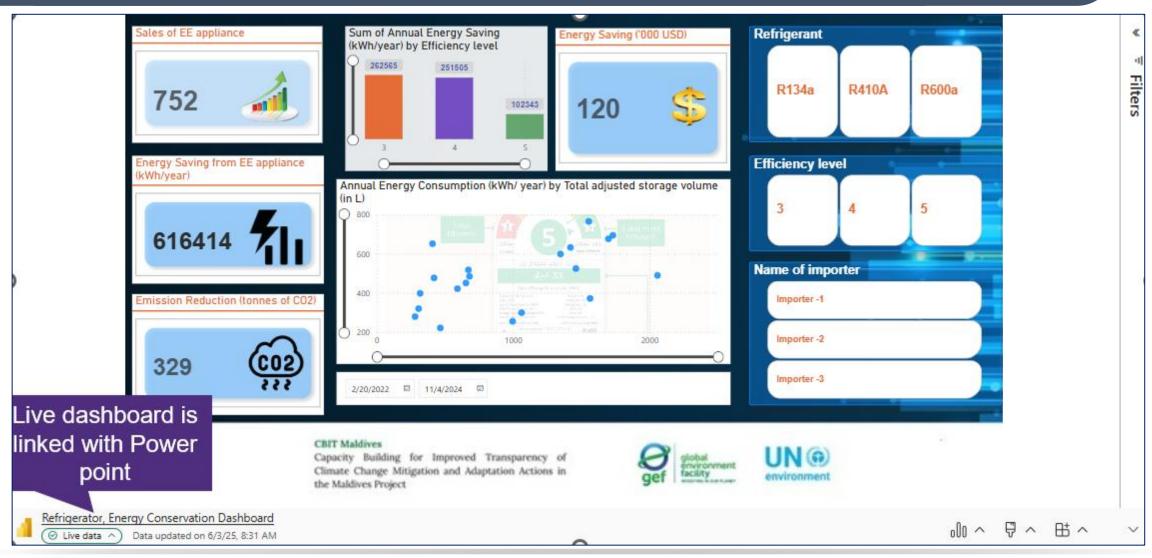






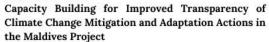


Live data dashboard on Power point











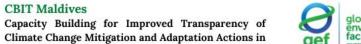






Thanks





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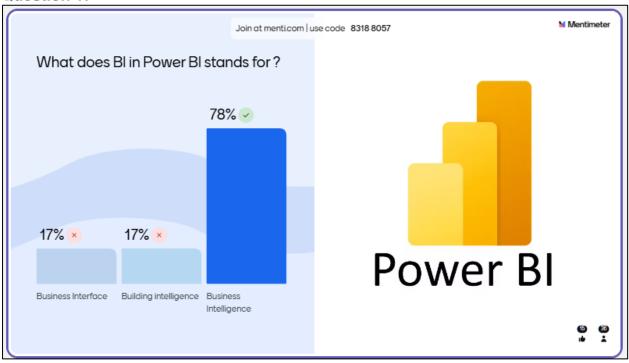


Annex 6: Pre and Post Training Assessments

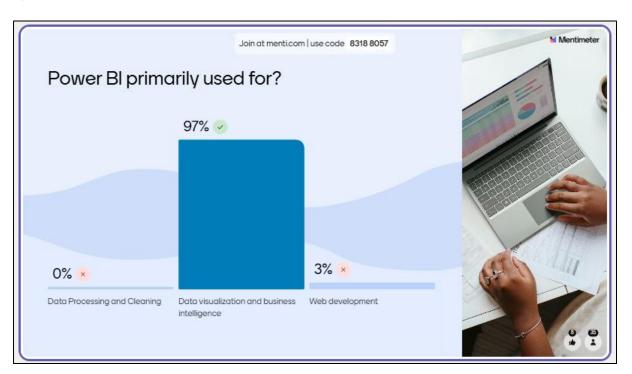
Pre training assessment: Quiz results

Prior to the commencement of the Power BI training session, a pre-assessment was conducted to evaluate the participants' existing knowledge levels. The details of the quiz are presented in the following section.

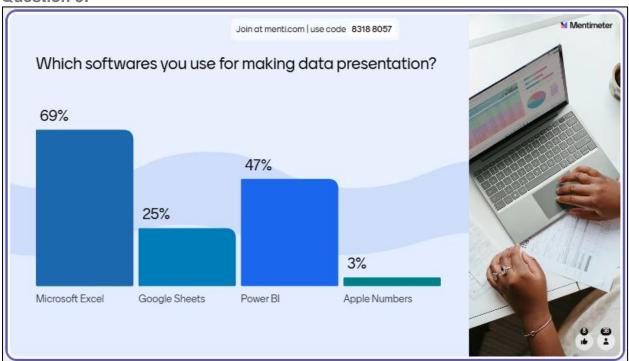
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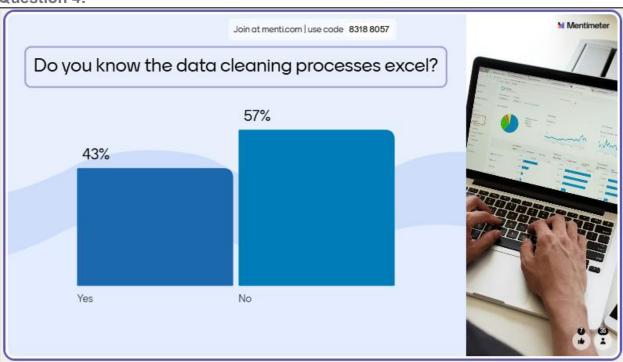
Question 2:



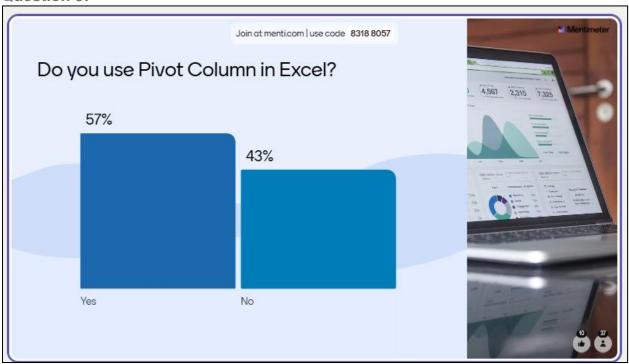
Question 3:



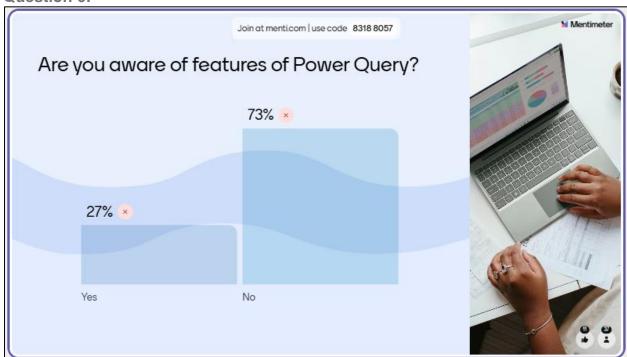
Question 4:



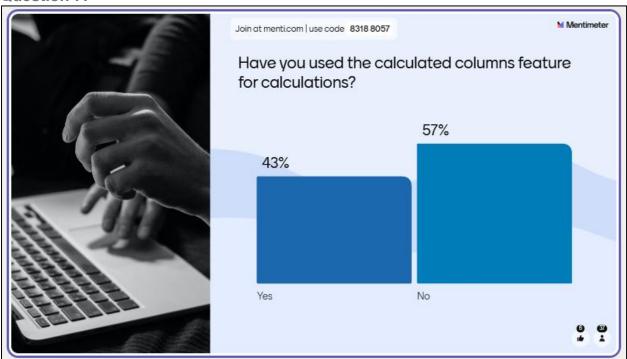
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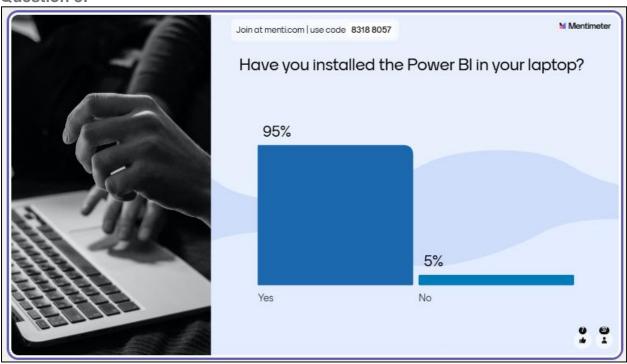
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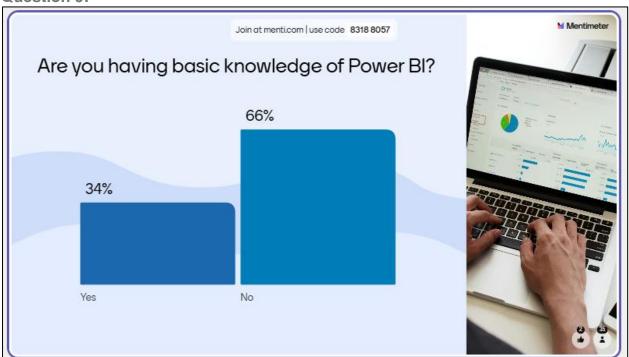
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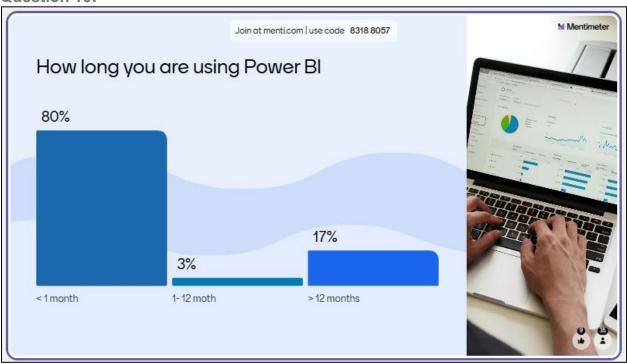
Question 8:



Question 9:



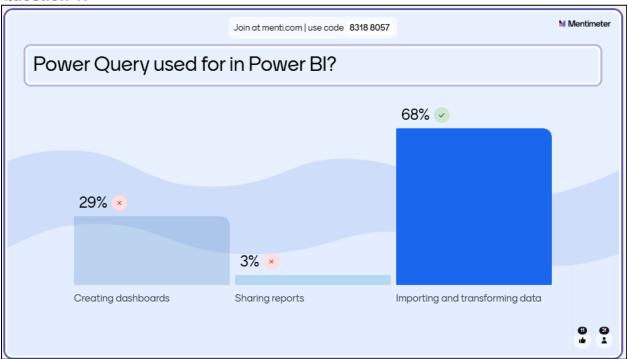
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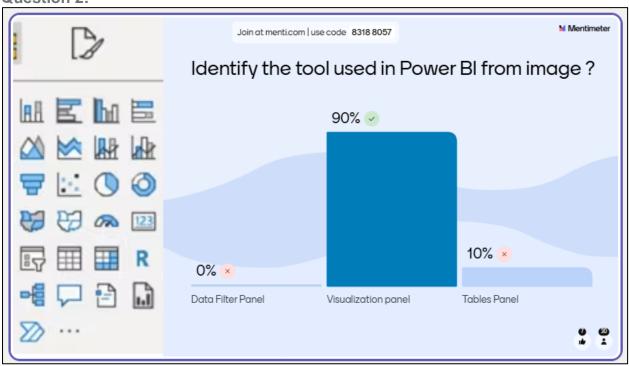
Post training assessment: Quiz results

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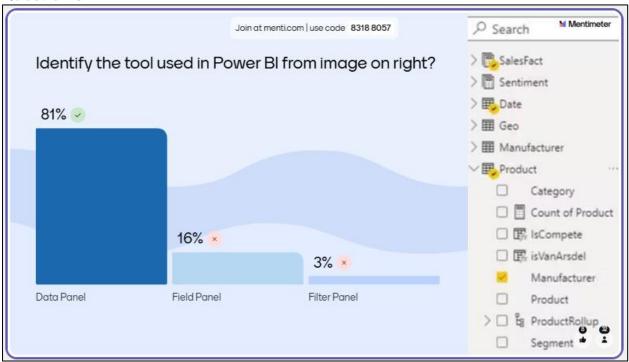
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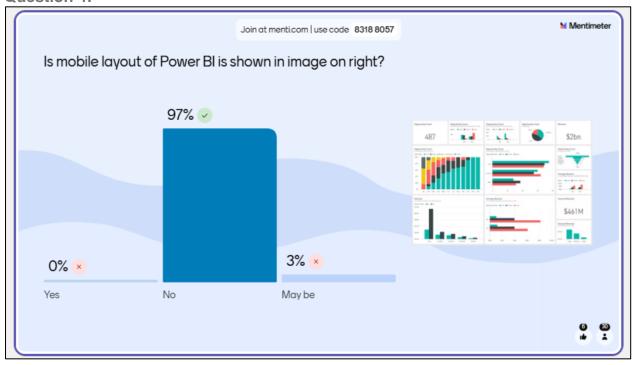
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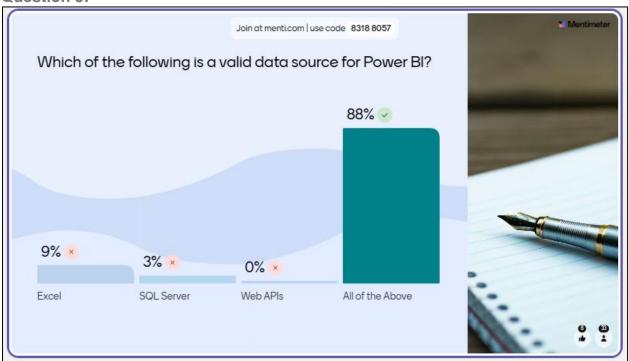
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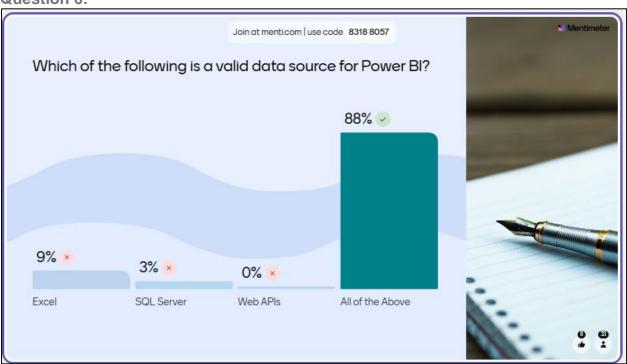
Question 4:



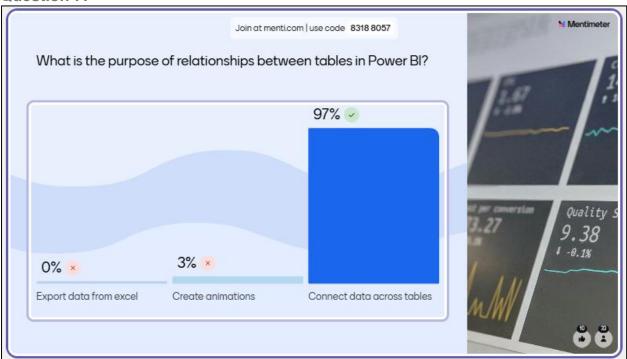
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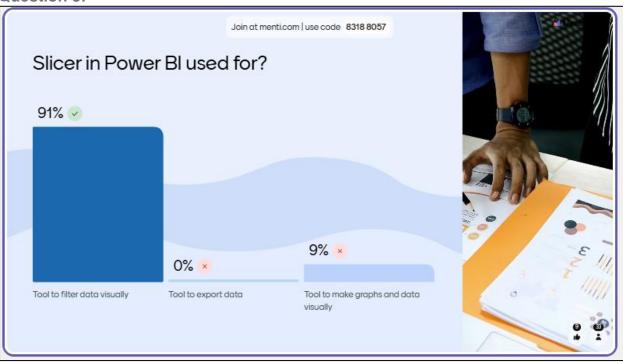
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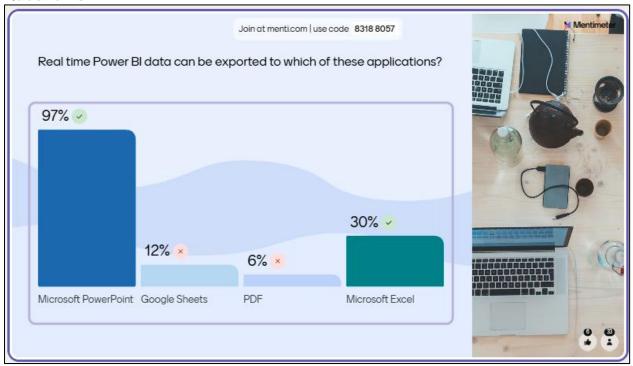
Question 7:



Question 8:



Question 9:



Question 10:

