GREEN HOUSE GAS

ANALYSIS

PROBLEM STATEMENT

Project will analyze energy usage and greenhouse gas (GHG) emissions of Ontario's Broader Public Sector (BPS) organizations, leveraging a comprehensive database of reported data. We aim to identify trends, assess conservation effectiveness, and pinpoint areas for improvement, informing data-driven strategies to achieve climate change mitigation goals within the BPS.

TOOLS USED

- **Python**
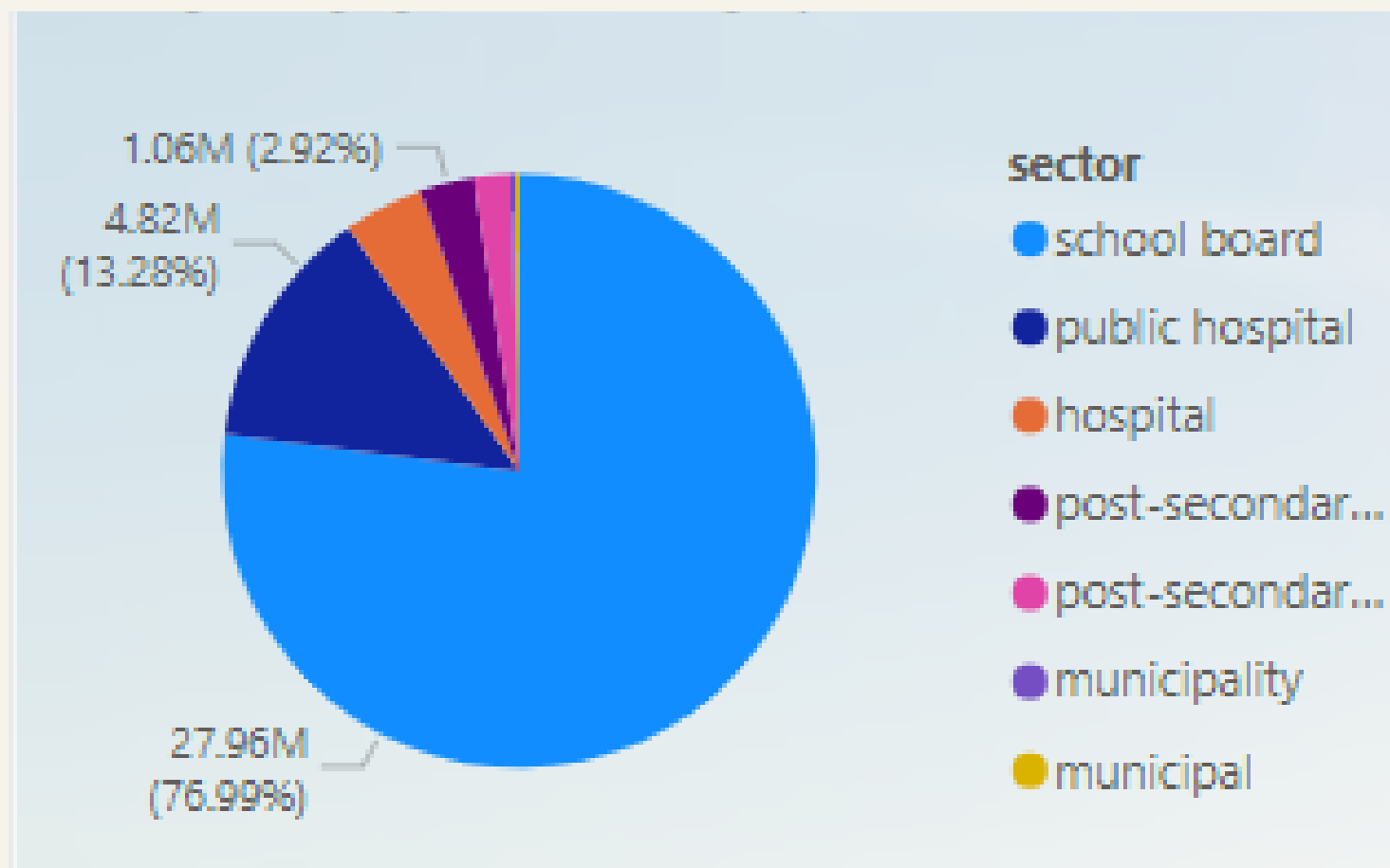- **Pandas**
- **Numpy**
- **seaborn**
- **Power BI**

APPROACHES

● **Data Preparation and Cleansing**

- **Clean and transform the data into a format suitable for analysis by handling missing values, standardizing units, and deriving relevant features.**

- **Segment the data by relevant factors like sector, organization type, and facility size**
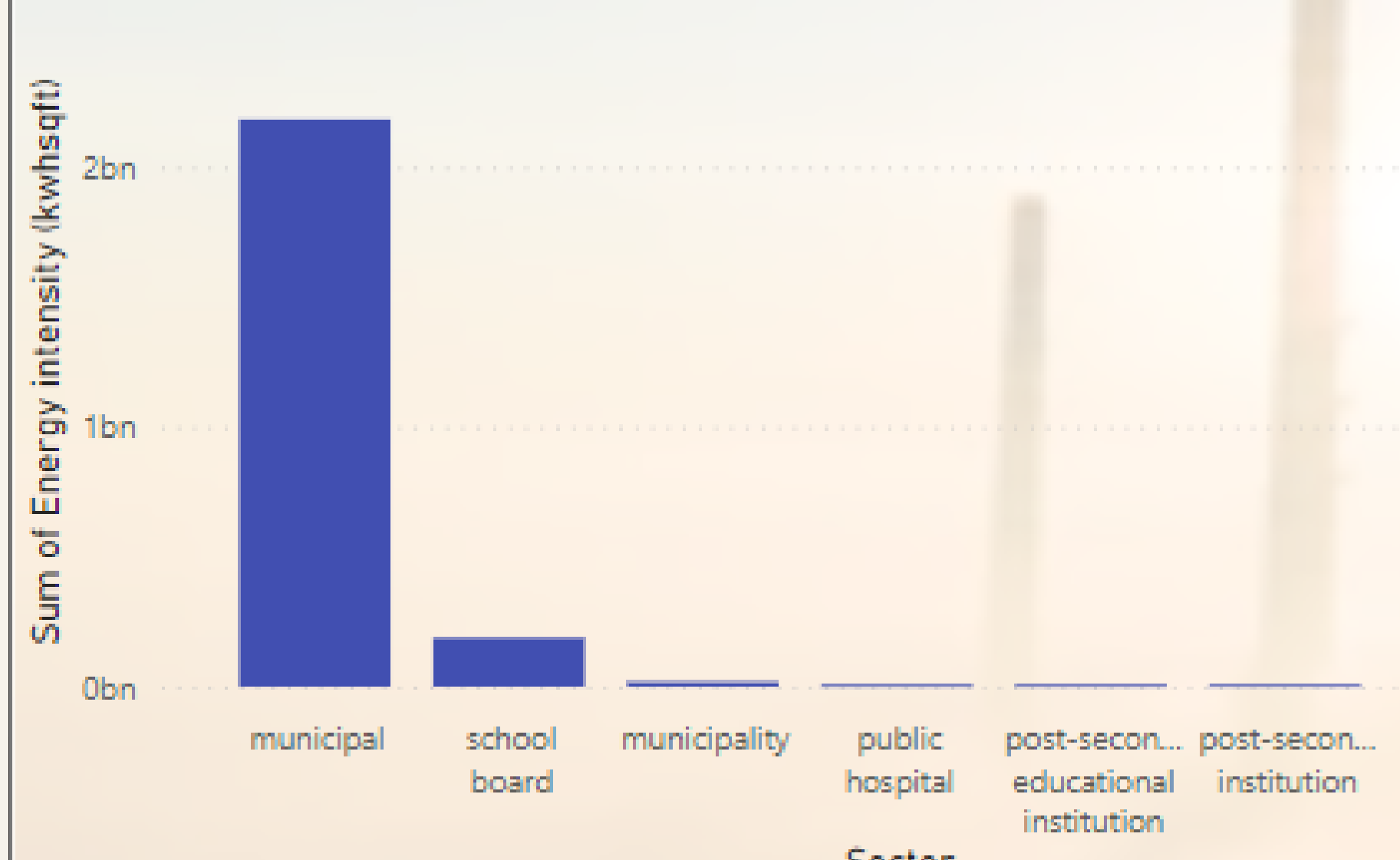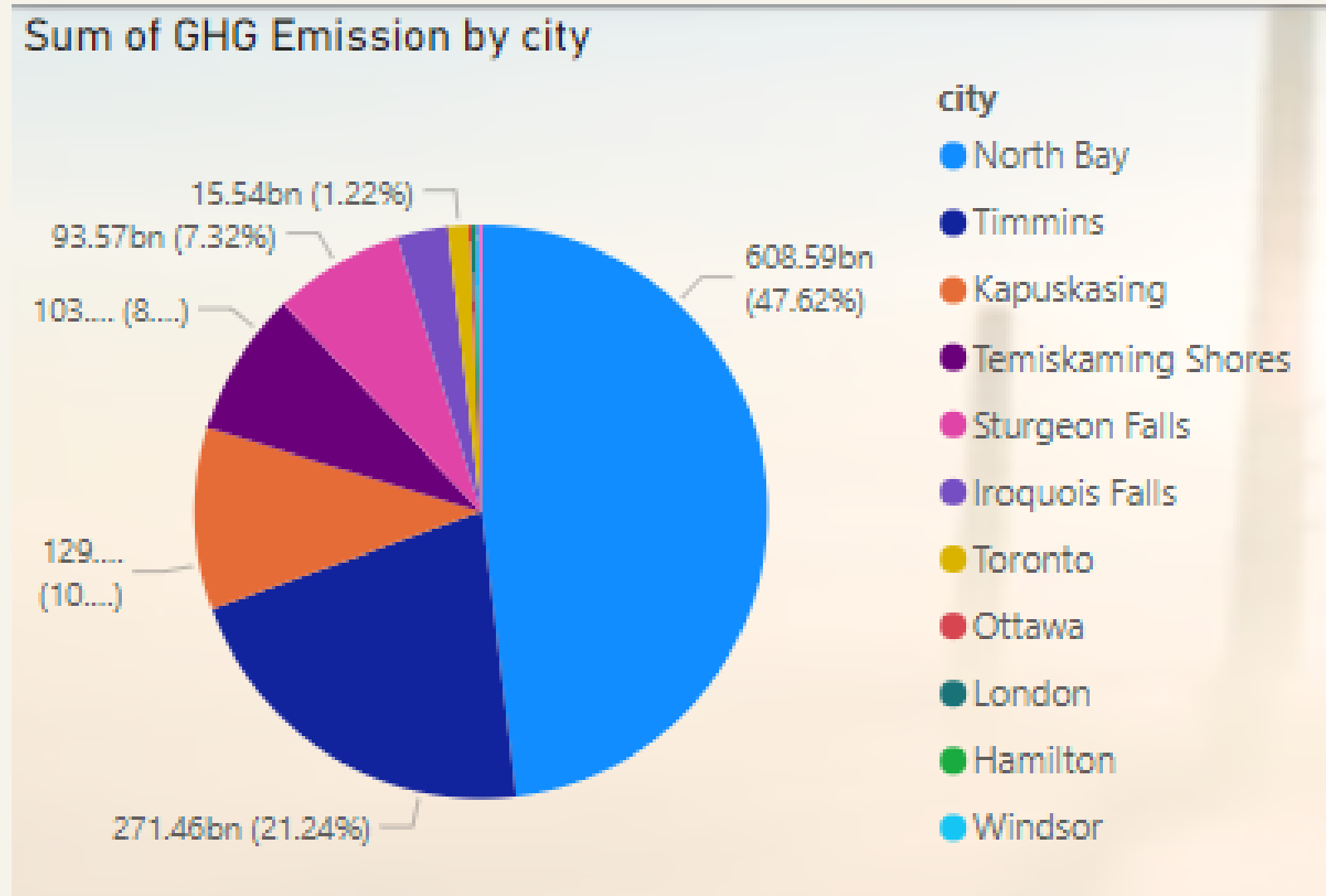
● **Dashboarding-Power BI**

EDA INSIGHTS

Sector school board has the highest average green house gas emission in kg (27.96M) just below 77% of overall emission

Sum of Energy intensity (kwhsqft) by Sector

Municipal sector has the highest energy intensity (kwhsqft) without emitting much of the green house gases

Sum of GHG Emission by city

North Bay city emits the 47.62% of the total GHG emitted in the country whereaes Newington city emits the least GHG

CONCLUSION

The school board sector emits the most green house gas. Guessing that to keep warm to the students. We can reduce the green house gas by replacing it with other renewable energy resources

THANK YOU

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