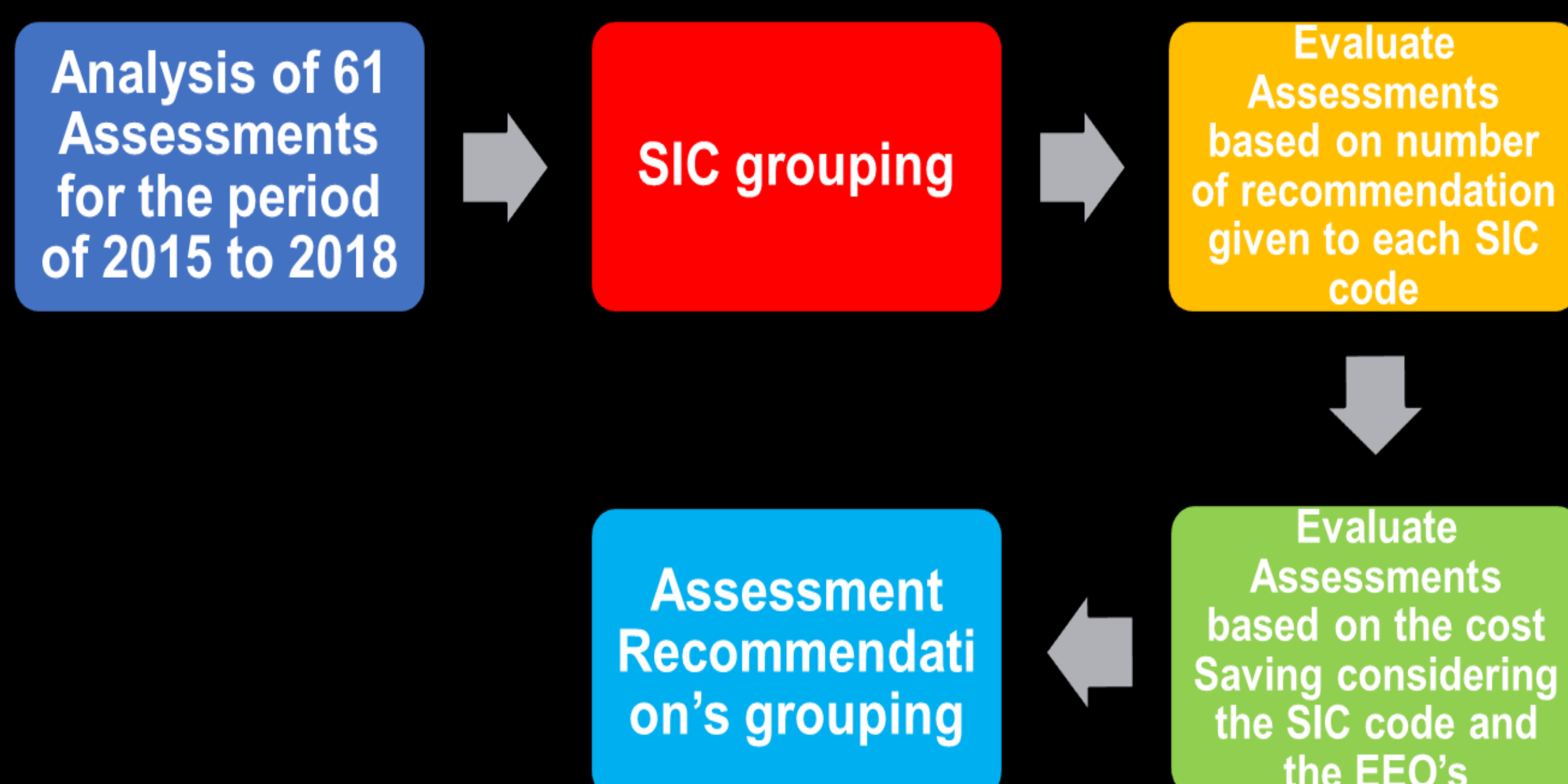


OBJECTIVES

The purpose of this study is to analyze the work of the Industrial Assessment Center (IAC) done on different standard industrial classification (SIC) to give a better understating to the energy savings opportunities for each sector and for this study to be considered as a guide for energy engineers. As this study also aims to reduce wastes and pollution along with improving the efficiency of industries.

APPROACH

All the data has been gathered and analyzed of the 61 assessments that were conducted by the (IAC-UWM) to track the energy savings opportunities amongst various industries. grouping each assessment into it's standard industrial classification (SIC) gives a better understating on energy efficiency opportunities for different sectors
The criteria used is the following:



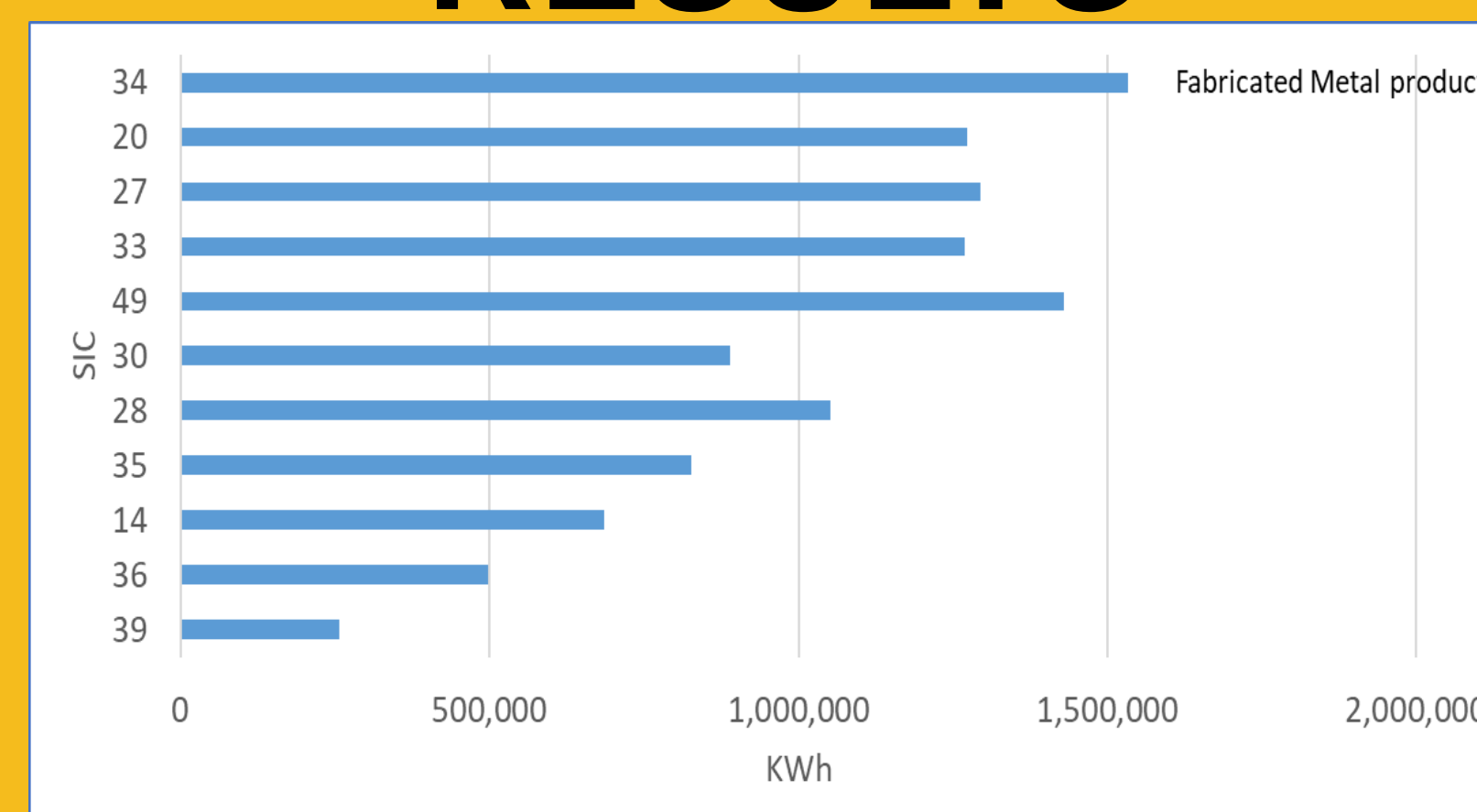
METHODOLOGY

These assessments were evaluated in terms of cost savings and percentage of the type of recommendation conducted taking in consideration the SIC code and Energy Efficiency Opportunities (EEO).

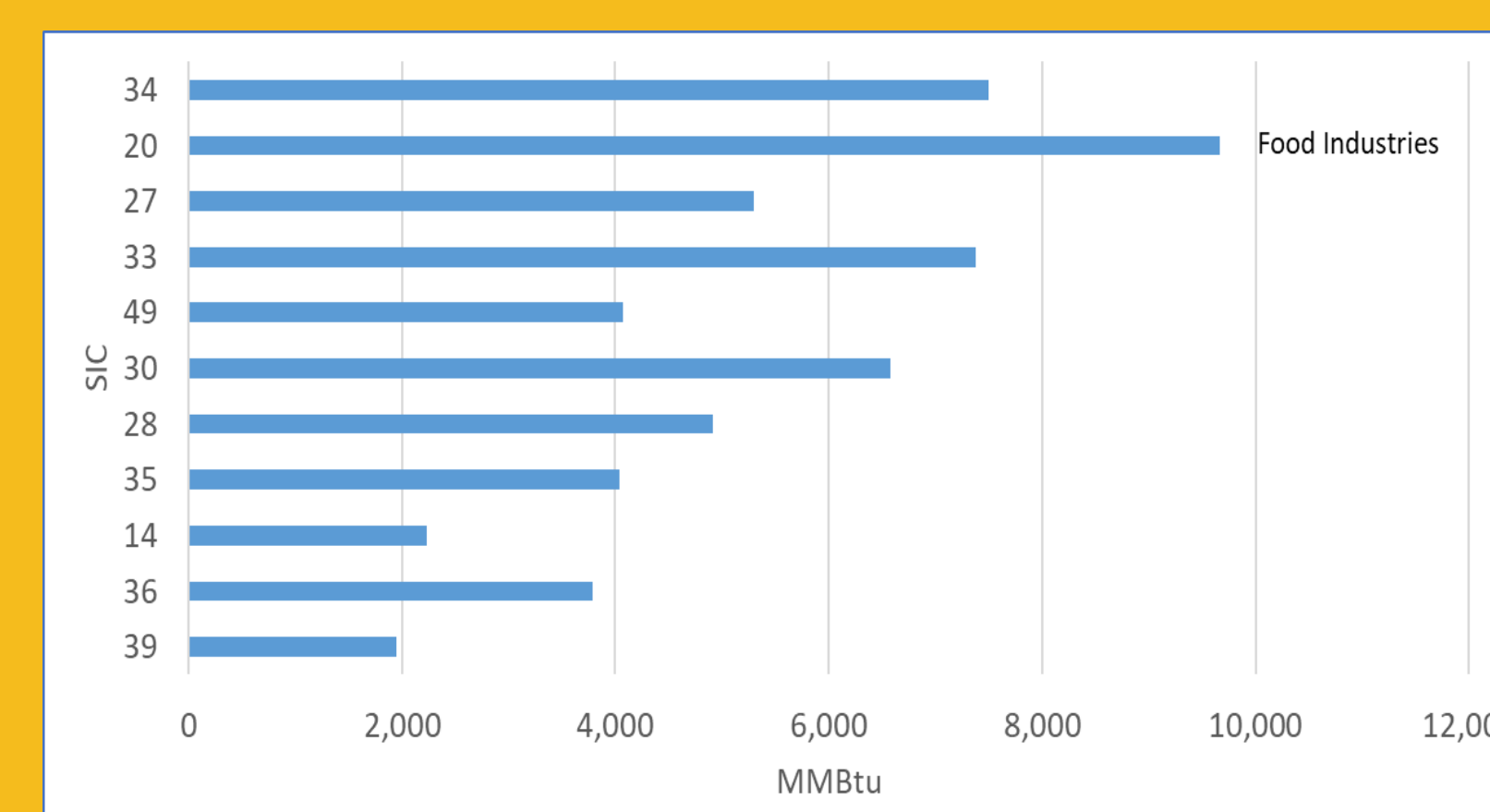
Since the Assessment Recommendations (AR) in these 61 assessments are diverse, thus making the process of data analysis inconvenient, they were categorized as follows:

- Heating, Ventilation, and Air Conditioning (HVAC)
- Motors.
- Compressed air systems.
- Lighting.
- Heat recovery systems.
- Building envelope.
- Electrical demand management and utility bills (EDMUB)
- Waste management and productivity enhancement (WMPE).

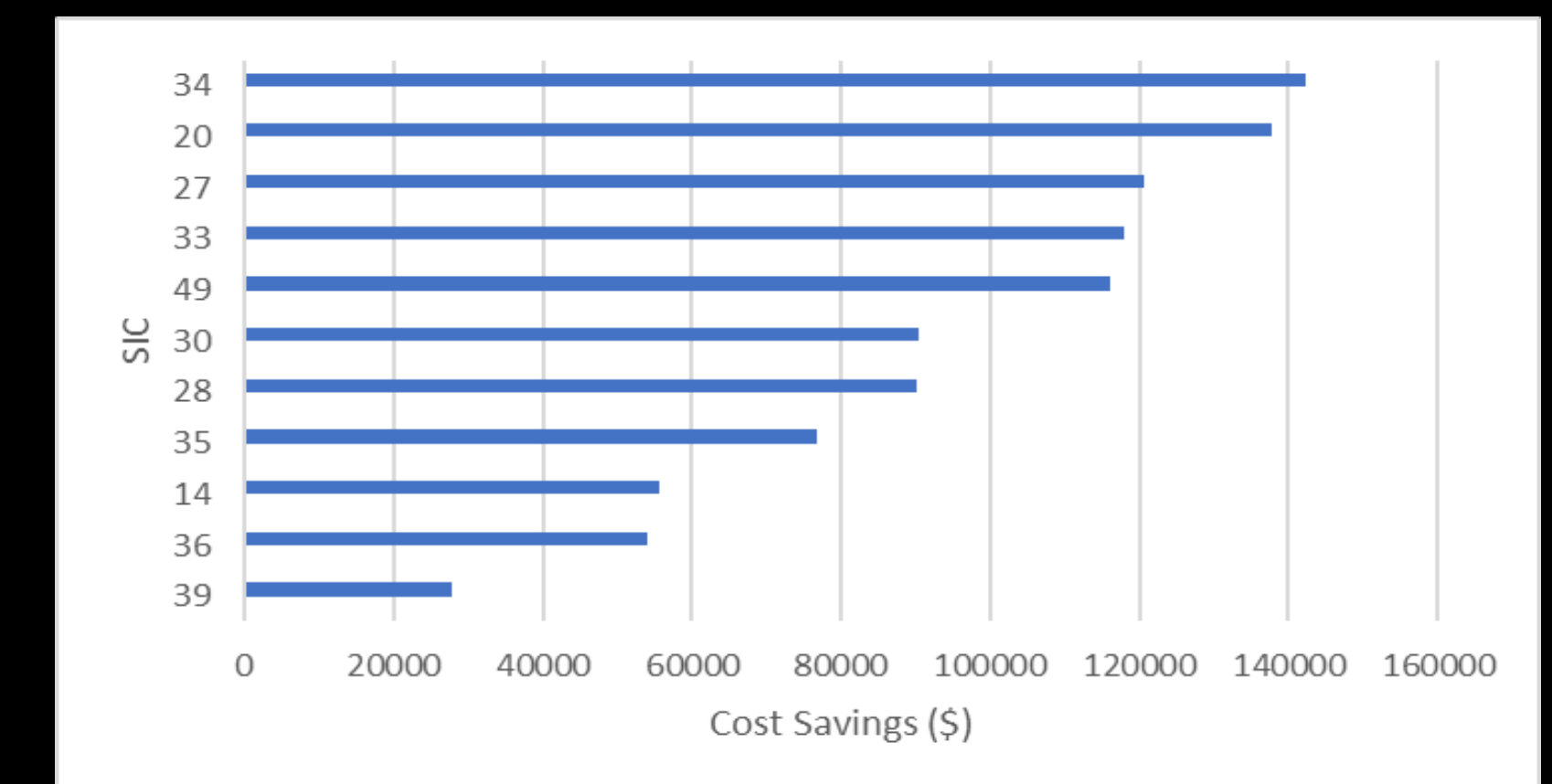
RESULTS



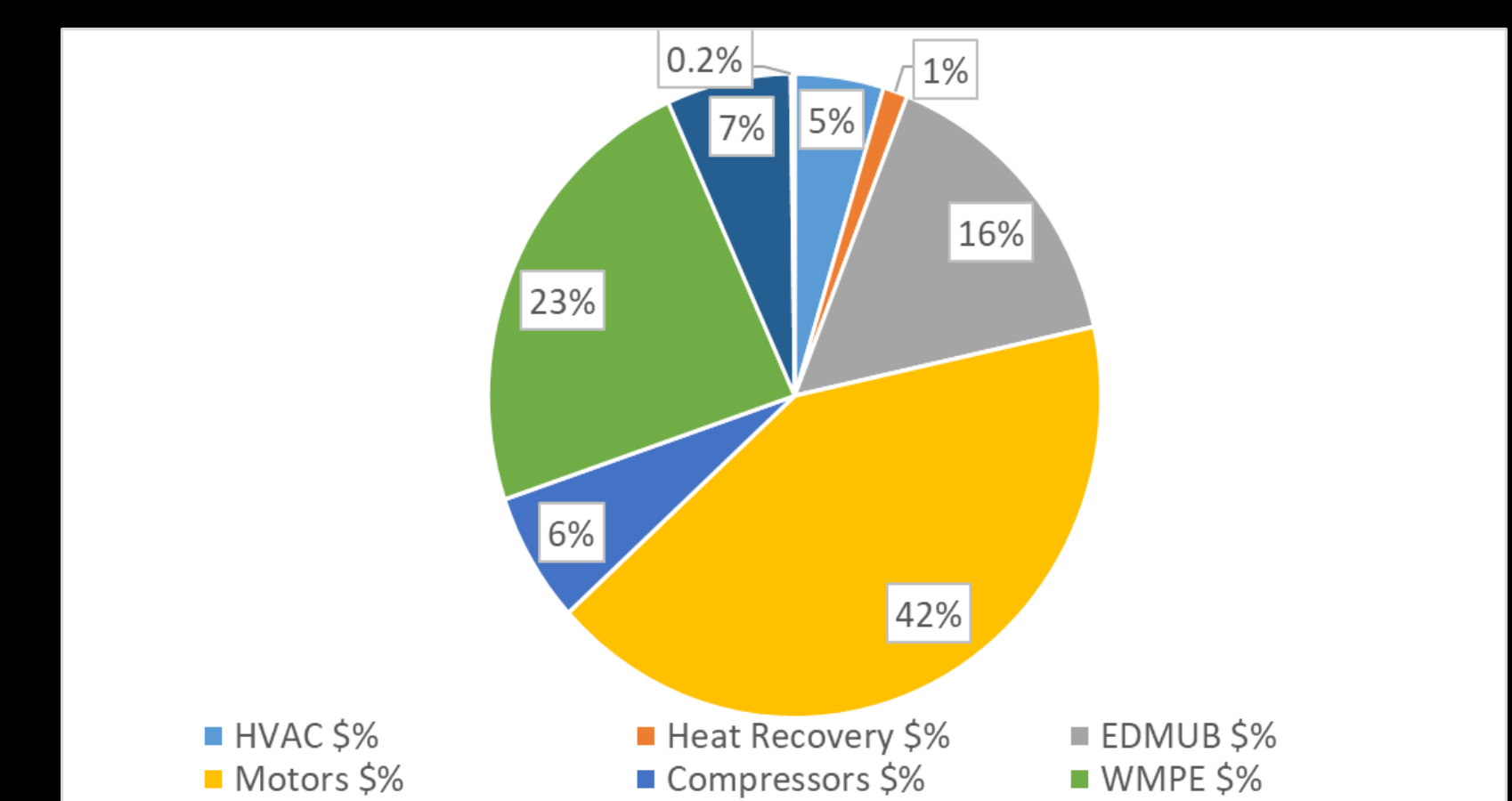
Savings achieved in kWh for all Industrial sectors.



Savings Achieved in MMBtu for all Industrial sectors.



Cost Savings Achieved by different industries



Percentage of cost savings based on EEO for 49 SIC industry

CONCLUSION

- In terms of kWh energy savings, Fabricated Metal (34) achieved the highest savings of 1,534,000 kWh, followed by Electric, Gas, and Sanitary services (49) with 1,430,000 kWh.
- In terms of MMBtu energy, Food and Kindred Products (20), Fabricated Metal Products (34) achieved savings of 9,700 MMBtu and 7,500 MMBtu respectively.
- Fabricated Metal Products (34) and Food and Kindred Products (20) achieved the highest average cost savings of \$142,500 and \$137,800.
- Lighting, motors, compressors, and HVAC EEOs were the most contributing groups in the total of all the recommendations.

ACKNOWLEDGEMENT

DOE currently funds this research under DE-EE0007716.

