Impacts of COVID-19 on urban rail transit energy consumption: A case study of Boston

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Abstract

Keywords: COVID-19, public transportation, energy

1 Introduction

Impacts of COVID-19 on transit

2 Background

2.1 Importance of transit

2.2 Energy modeling of rail transit

2.3 Environmental impacts of urban rail transit

3 Data and methods

3.1 Description of Boston network

3.2 Summary of data sources and variables

Energy, ridership, location

3.3 Data extraction and cleaning

Describe processing and trajectory computation; corrections

3.4 Energy consumption modeling

A backward model for electric train energy was developed by [1]

4 Results

5 Discussion

6 Conclusion

Acknowledgments

References

[1] J. Wang, H. A. Rakha, Electric train energy consumption modeling, Applied Energy 193 (2017) 346–355. doi:10.1016/j.apenergy.2017.02.058.