**Readme**

Updated on Jun. 1, 2022 by Xiaoyu Duan

This *boundaryinfodata.mat* file consists of the generated boundaries of electric buses (EBs) and some basic information of EBs and electric bus stations (EBSs). A total of 547 EBs and 10 EBSs are included in the dataset. The dataset adopts 5-minute time interval, thus the total time interval number is 288.

**Contents and explanation:**

The dataset includes 6 matrices. The detail of each matrix is listed as follows:

1. Name: E\_UB

Matrix size: 547 \* 288

Information: upper energy boundary of EBs

Meaning: row – EB No.1-547, column – time interval 1-288

1. Name: E\_LB

Matrix size: 547 \* 288

Information: lower energy boundary of EBs

Meaning: row – EB No.1-547, column – time interval 1-288

1. Name: P\_UB

Matrix size: 547 \* 288

Information: upper power boundary of EBs

Meaning: row – EB No.1-547, column – time interval 1-288

1. Name: P\_LB

Matrix size: 547 \* 288

Information: lower power boundary of EBs

Meaning: row – EB No.1-547, column – time interval 1-288

1. Name: EBinfo

Matrix size: 547 \* 2

Information: information of which EBS each EB belongs to

Meaning: column 1 – EB No., column 2 – EBS the EB belongs to

1. Name: EBSinfo

Matrix size: 547 \* 2

Information: information of each EBS

Meaning: column 1 – EB No., column 2 – EBS the EB belongs to

1. Name: EU\_UB

Type: cell element number: 4 (representing each scenario)

Information: additional stochastic upper energy boundary of EBs under each scenario

Meaning of each element: row – EB No.1-547, column – time interval 1-288

1. Name: EU\_LB

Type: cell element number: 4 (representing each scenario)

Information: additional stochastic lower energy boundary of EBs under each scenario

Meaning of each element: row – EB No.1-547, column – time interval 1-288