

This folder contains numerous scripts. The file are as follows:

- Cost : Calculates cost values (Emission, and TCO)
- EOL : Calculates end-of-life, displays degradation curves, and displays the daily average for heating and cooling the ESS.
- LifeMdl_loadparams,
LifeMdl_StressStatistics,LifeMdlupdateOutput,LifeMdlUpdatestates: All these scripts are created to calculate End of life. These functions are created just for degradation processes.
- New_Emodel: This script is created to simulate the electrical model of the battery.
- NightlyCharging: This function is responsible for assigning charger to BEBs even in midnight.
- Scheduler: arranging the buses for charging based on the needs of the fleet.
- thermalmodel: simulates the thermal model of the battery in presence of a heating or cooling system.
- Vehicle_simulation: Simulates and calculates the average power needed to move the buses in the bus fleet based on driving cycle , vehicle weight, slope, and other circumstances.