

EV Power Optimization – Increase Travel Range for Fixed battery



What is EV Power Optimization Project?

- MOBIS has proposed the EV Power Optimization Project at COVESA with the goal of developing a Guideline that can help in increasing EV Range
- Through EV Power Optimization, scenarios have been identified for different Automotive Systems in an Electric Vehicle to achieve the below Objectives:
 1. Overall Runtime Optimization of Electric Vehicle to achieve maximum possible range extension through the Vehicle Drive Cycle
 2. Achieving Extra Mile during critical SOC stage to avoid last mile anxiety and ensure saving of backup data in crisis situations like running out of battery

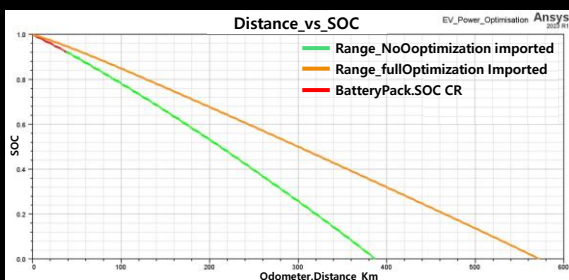
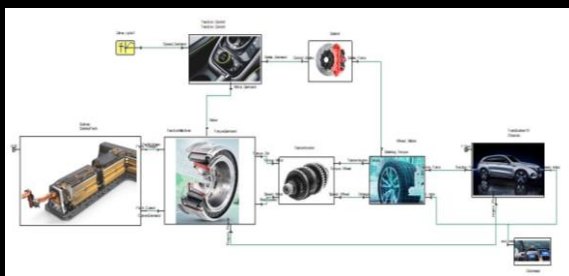
Benefits of EV Power Optimization

- The Power Optimization Guideline can be used as a reference guide by OEMs to gauge Electronic loads for different EV Models
- The Guideline can be utilized by different companies across the Automotive Industry as a Standard for Power Optimization
- The Power Optimization Guideline can help in the enhancement of Software Defined Vehicle (SDV) Technologies



Partnership Ecosystem

- MOBIS has formed valuable partnerships with renowned technology companies that have helped in the development of this project. Our Partner companies/organizations are:
 - ✓ Bosch
 - ✓ Ansys
 - ✓ playground.digital.auto
 - ✓ Ferdinand Steinbeis Institute



Opportunity for Collaboration

- So far, work done on EV Power Optimization Project has included work on Infotainment System Power Optimization Use Cases and conceptual work on HVAC Power Optimization Use Case
- Automotive Companies interested in collaborating in the EV Power Optimization project can contribute by working on new power optimization use cases in passenger vehicle systems including but not limited to:
 - ✓ ADAS
 - ✓ Powertrain
 - ✓ Lighting



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For more information on COVESA EV Power Optimization, please visit:

<https://wiki.covesa.global/display/WIK4/EV+Optimization+-+Increase+Travel+Range+for+Fixed+Battery>