

Development of Offline and Real Time Simulator for EV/HEV Systems (ARAI, CDAC, IITB & IISc)

Use of simulation tools and platform has gained prominence in design, development, calibration and validation of automotive systems. With electric and hybrid electric vehicles gaining momentum in India, engineering work to develop India specific technology solutions and products is on rise.

Present international simulation tools and platforms for EV/HEV systems are proprietary in nature and expensive. Citing the need to develop and offer cost effective indigenous simulation tool and platform to the Indian automotive industry, ARAI, in collaboration with CDAC Thiruvanthapuram, IITB Mumbai and IISc Bangalore, has developed offline and real time simulator for EV/HEV systems.

This is first of its kind indigenous simulation platform development for EV/HEV applications. The plant model in the simulation platform is modular and open in architecture enabling the user to modify or add different component models, architectures, etc.

