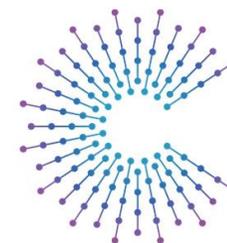


EV POWER OPTIMIZATION

Guidelines/Attributes to increase travel range for fixed battery

14 December 2022



COVESA

Accelerating the future of connected vehicles

NON-OPTIMIZED



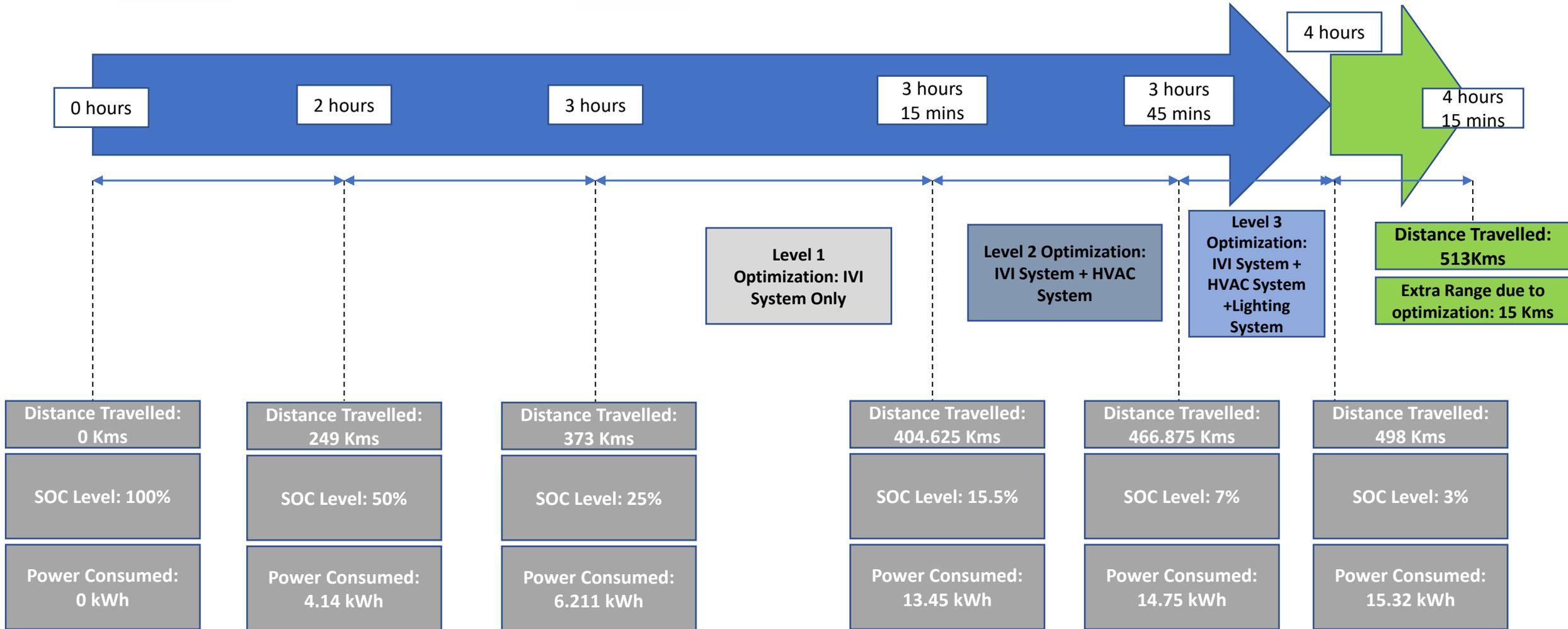
Distance to be travelled	513 Km
Vehicle Model Considered	Kia EV 6
Maximum Range	310 Miles/498 Km
Battery Size/Capacity	77.4 Kwh
Energy Consumed (Wh/mi)	288 Wh/mi

4 hours



Distance Travelled: 0 Kms	Distance Travelled: 249 Kms	Distance Travelled: 373 Kms	Distance Travelled: 404.623 Kms	Distance Travelled: 466.872 Kms	Distance Travelled: 497 Kms
SOC Level: 100%	SOC Level: 50%	SOC Level: 25%	SOC Level: 20%	SOC Level: 8%	SOC Level: 0%
Power Consumed: 0 kWh	Power Consumed: 4.14 kWh	Power Consumed: 6.211 kWh	Power Consumed: 6.72 kWh	Power Consumed: 7.76 kWh	Power Consumed: 16.52 kWh

PARTIALLY OPTIMIZED



VSS SIGNALS DEVELOPED

PowerOptimize

	Signal	Description	Data Type	Type (actuator/sensor/meta)	Feedback
Cabin	Active	To know Power Potimization status	Boolean	actuator	
	Level	Power Potimization level parameter signal makes OEMs to analyze the optimization algorithms	String	actuator	
Infotainment	DisplayBrightnessLevel	Display Brightness Level	Integer	actuator	
	Sound/SpekareGain	The Sound gain parameter signal makes OEMs to analyze the optimization algorithms and select the suitable sound	Integer	actuator	
	BluetoothStatus	Bluetooth Status parameter signal makes OEMs to analyze the optimization algorithms	Boolean	actuator	
	Wi-Fi Status	Wi-Fi Status parameter signal makes OEMs to analyze the optimization algorithms	Boolean	actuator	
	AA/CP Status	AA/CP Status parameter signal makes OEMs to analyze the optimization algorithms	String	actuator	
	VRStatus	VR Status parameter signal makes OEMs to analyze the optimization algorithms	Boolean	actuator	
HVAC	IsAirConditioningActive	Air Conditioning Active Status parameter signal makes OEMs to analyze the optimization algorithms	Boolean	actuator	