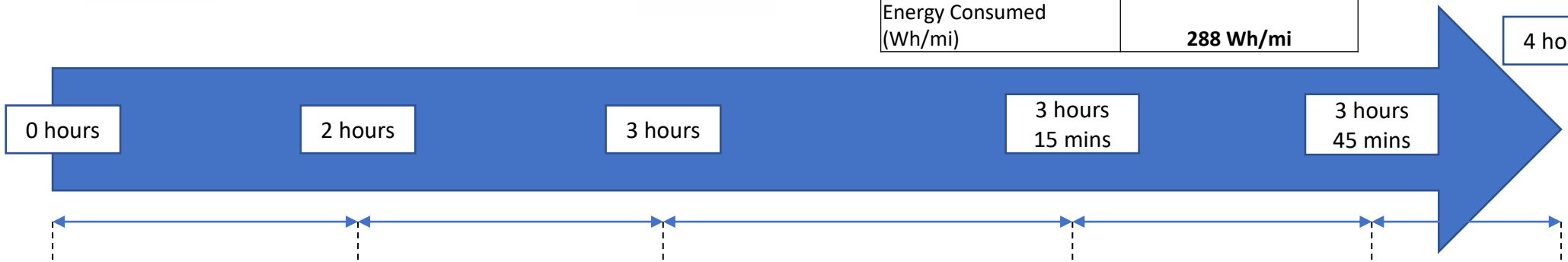
NON-OPTIMIZED

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**



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

0 hours

2 hours

3 hours

3 hours 15 mins

3 hours 45 mins

4 hours

4 hours 15 mins

Level 1 Optimization: IVI System Only

Level 2 Optimization: IVI System + HVAC System

Level 3 Optimization: IVI System + HVAC System +Lighting System

Distance Travelled: 513Kms

Extra Range due to optimization: 15 Kms

Distance Travelled: 0 Kms	Distance Travelled: 249 Kms	Distance Travelled: 373 Kms	Distance Travelled: 404.625 Kms	Distance Travelled: 466.875 Kms	Distance Travelled: 498 Kms
SOC Level: 100%	SOC Level: 50%	SOC Level: 25%	SOC Level: 15.5%	SOC Level: 7%	SOC Level: 3%
Power Consumed: 0 kWh	Power Consumed: 4.14 kWh	Power Consumed: 6.211 kWh	Power Consumed: 13.45 kWh	Power Consumed: 14.75 kWh	Power Consumed: 15.32 kWh

VSS SIGNALS DEVELOPED

PowerOptimze

	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	