





About

Our relationship with energy is changing—electrification, decarbonization, efficiency, availability and accessibility.

Irasus builds high-tech digital solutions to accelerate the adoption of low-carbon energy technologies by enhancing safety, reliability and affordability of EV and ESS products.

We bring specialized domain expertise in battery technology, digital transformation and high-tech product development.

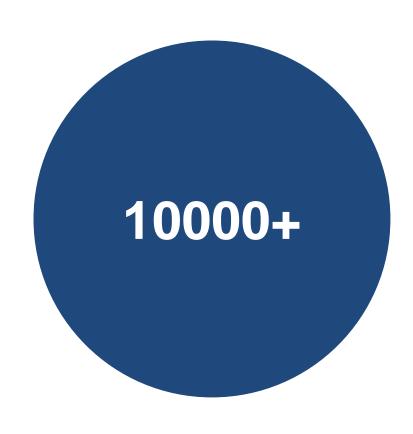




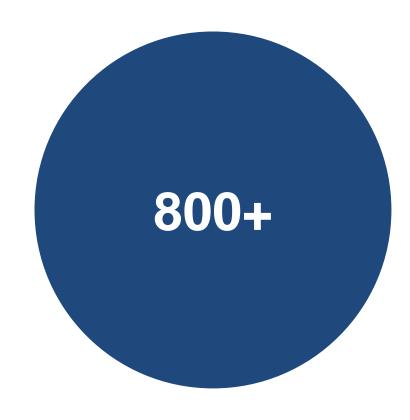
About



Working with leading companies in the EV & ESS industry for 5 years



5B+ data points across 10K+ assets



High velocity, high granularity, batteryagnostic IoT data collection delivers 800+ parameters every second



Public Transport & Shared Mobility Drive EV











Power & Public Transport are Essential Services













Delivering Safe, Reliable and Affordable service is a common theme for both transportation and power distribution utilities





250-300 kWh

Capacity per bus

300 kW

Max power DC fast charger

200-300 km

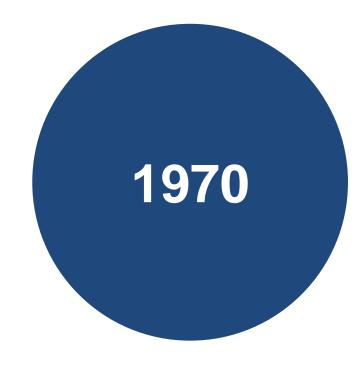
Range at full charge



Depot's peak load

150:30

Ratio of buses to chargers



E-Buses in Delhi on 31/07/24







Zero unscheduled grid connectivity for EVs & chargers Grid services provided by EVs i.e. V2G



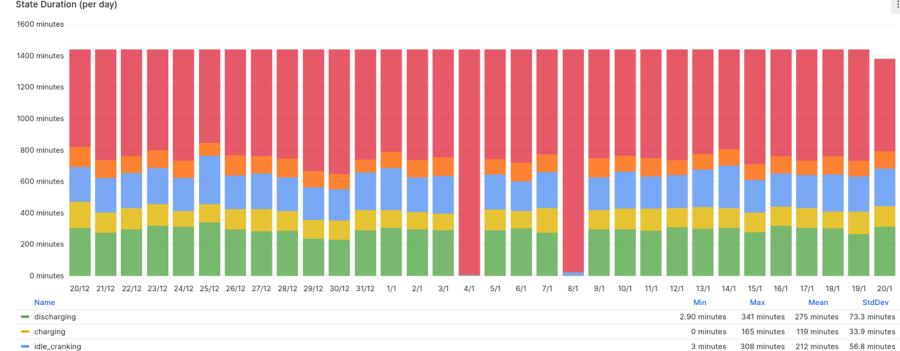


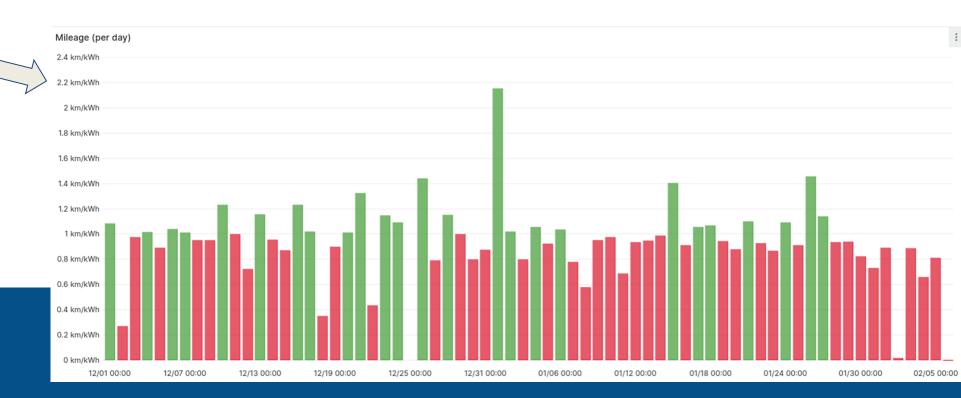
We solve for safety and reliability problems in batteries of EVs and ESS today to enable them to become energy resources for tomorrow's grid providing valuable demand-side management



Determining EV/ESS Operations KPIs

- State Duration i.e. duration of discharge,
 charge, idle
- Uptime
- Charging (or) Round-Trip Energy Efficiency
 in %
- Mileage in km/kWh or kWh/km
- Quantum of regenerative braking

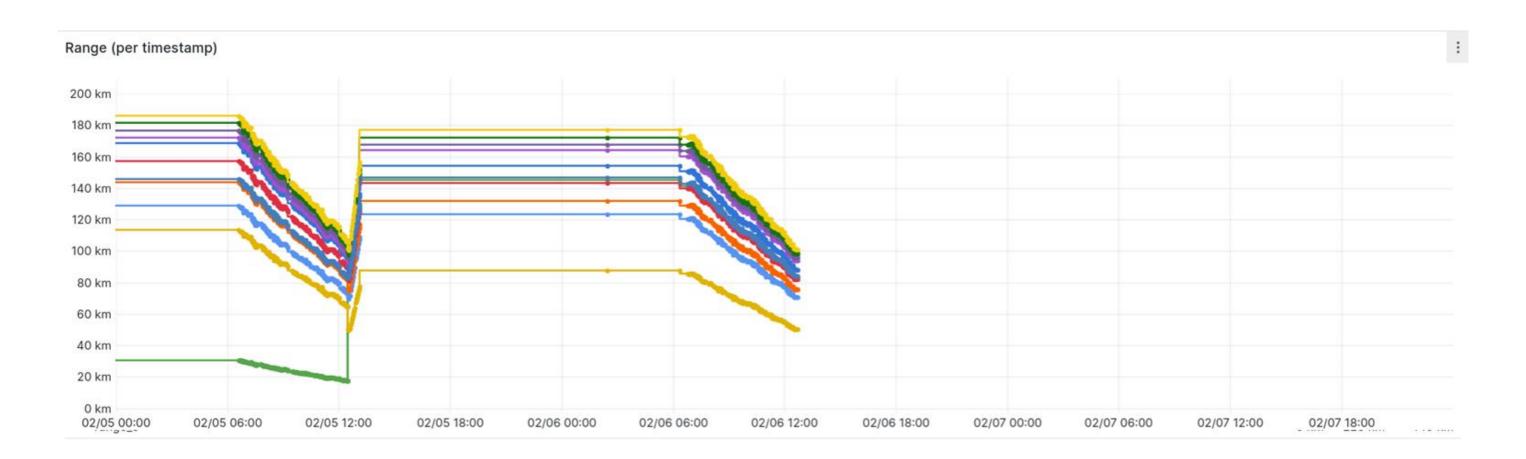






Predicting EV/ESS Operations KPIs

- Remaining Useful Life
- Remaining Range in the Cycle





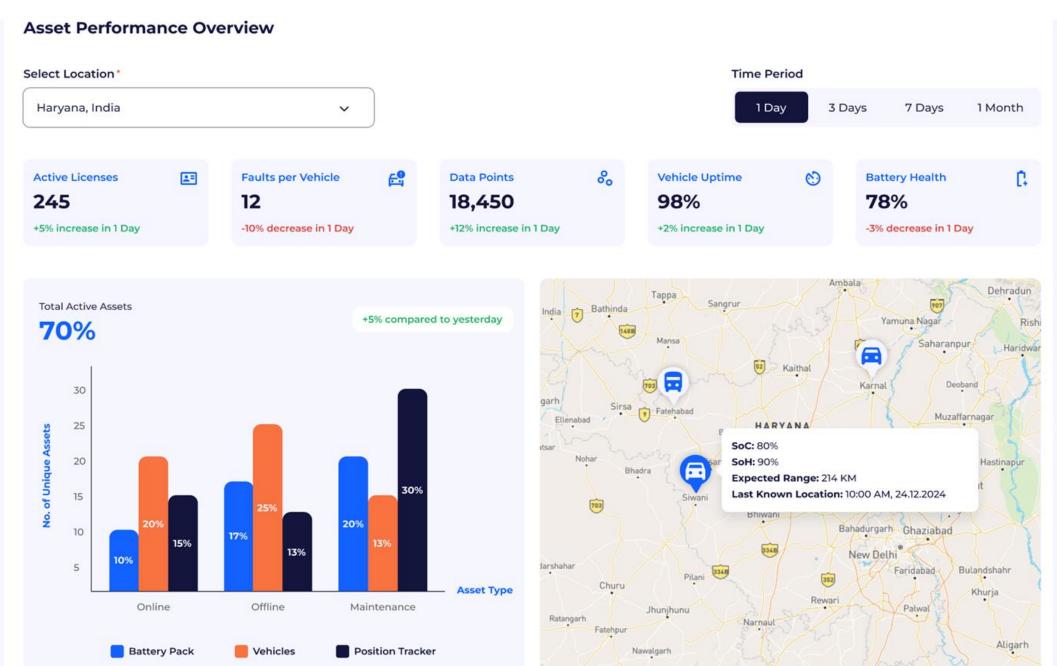
Key Features - I

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Battery Health Metrics

Remote Diagnostics & Alerts

Location and Geofencing



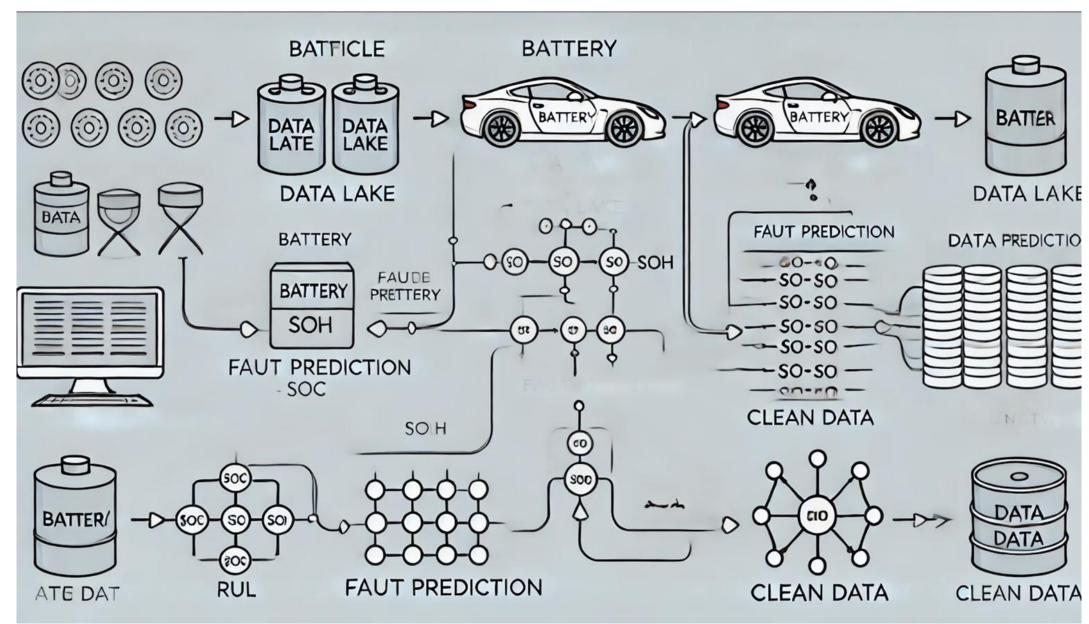


Key Features - II

AI Models

API Integration

Reporting & Analytics





Case Study - Ecobolt electric buses

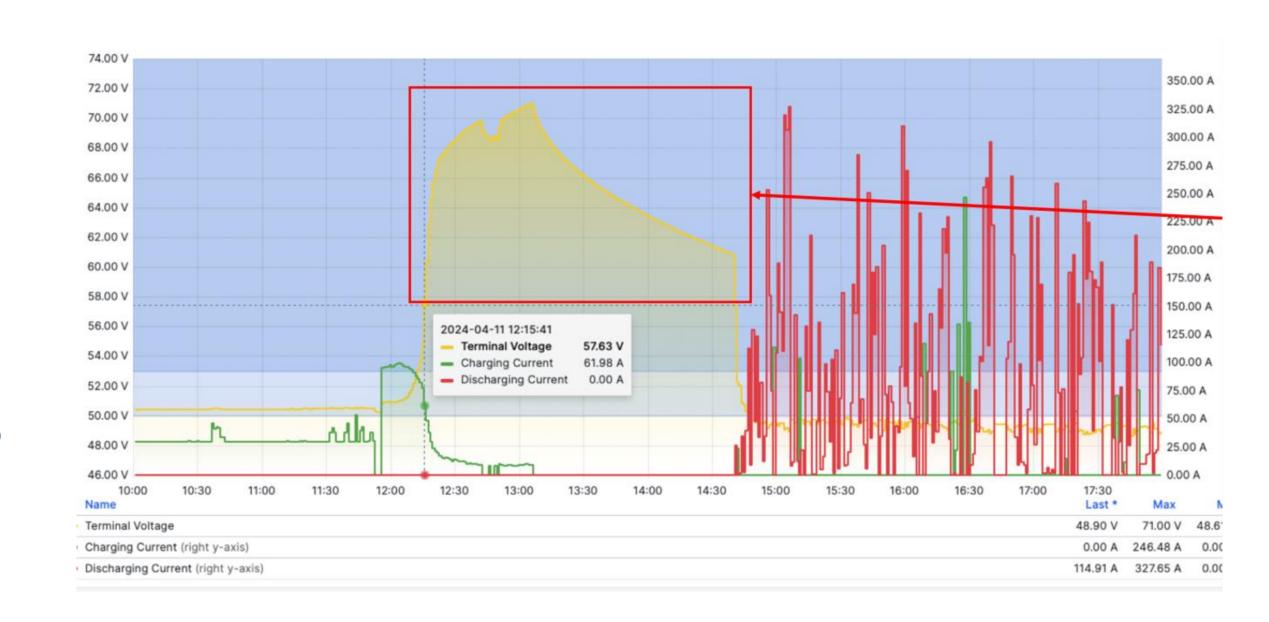
- Provides visibility of battery & EV faults
- Reduced Turnaround Time (TAT)
 for fault resolution by 30%
- Real-time alerts and assistance on narrowing down the root cause reduced fault occurrence by 20%

imei	bus_type	us_numbe	timestamp	depot	city	assis_numb fault_code	fault level	fault_description	fault_duration
3.53E+14	Type 1, 09M		2024-11-12 09:57:44	<u> </u>		M2701B33 35	_	thermal-management-system-	
	Type 1, 12M		2024-11-12 14:59:40		Delhi	M2701B35 25		middle-CAN-abnormal-commi	
3.53E+14	Type 1, 12M	DL51GD32	2024-11-12 00:27:09	RAJGHAT	Delhi	M2701B35 15	1	battery-temperature-differenc	23 hour(s) ago
3.53E+14	Type 1, 12M	TS07UL926	2024-11-12 20:04:10	INDIGO AIR	Hyderabad	M2706B17 35	2	thermal-management-system-	3 hour(s) ago
3.53E+14	Type 2, 12M	DL51EV450	2024-11-12 23:01:12	Burari Dep	Delhi	M2701B36 35	2	thermal-management-system-	59 minutes ago
3.53E+14	Type 1, 12M	TS07UL926	2024-11-12 05:30:35	INDIGO AIR	Hyderabad	M2706B17 22	1	SOC-jump	18 hour(s) ago
3.53E+14	Type 2, 12M		2024-11-12 01:06:29		Delhi	M2701B36 35	2	thermal-management-system-	22 hour(s) ago
3.53E+14	Type 2, 12M	DL51EV413	2024-11-12 22:28:04	Burari Dep	Delhi	M2701B36 35	2	thermal-management-system-	1 hour(s) ago
	Type 1, 12M	KA50B3734	2024-11-12 00:00:00	INDIGO AIR	Bangalore	M2706B17 22	1	SOC-jump	43 seconds ago
3.53E+14	Type 1, 12M	KA50B3734	2024-11-12 06:23:48	INDIGO AIR	Bangalore	M2706B1734	1	thermal-management-system-	17 hour(s) ago
3.53E+14	Type 1, 12M	KA50B3734	2024-11-12 11:35:55	INDIGO AIR	Bangalore	M2706B17 35	2	thermal-management-system-	12 hour(s) ago
3.53E+14	Type 1, 12M	KA50B3734	2024-11-12 12:27:44	INDIGO AIR	Bangalore	M2706B17 25	3	middle-CAN-abnormal-commi	11 hour(s) ago
3.53E+14	Type 2, 12M	DL51EV288	2024-11-12 00:55:00	Rohini 2	Delhi	M2701B36 35	2	thermal-management-system-	23 hour(s) ago
3.53E+14	Type 2, 12M	DL51EV321	2024-11-12 01:27:10	Rohini 2	Delhi	M2701B36 ⁷ 7	1	cell-voltage-difference	22 hour(s) ago
3.53E+14	Type 2, 12M	DL51EV419	2024-11-12 15:29:32	Burari Dep	Delhi	M2701B36 35	2	thermal-management-system-	8 hour(s) ago
3.53E+14	Type 2, 12M	DL51EV432	2024-11-12 00:38:09	Burari Dep	Delhi	M2701B36 35	2	thermal-management-system-	23 hour(s) ago
3.53E+14	Type 2, 12M	DL51EV324	2024-11-12 23:02:41	Rohini 2	Delhi	M2701B36 35	2	thermal-management-system-	58 minutes ago
3.53E+14	Type 2, 12M	DL51EV412	2024-11-12 18:42:43	Burari Dep	Delhi	M2701B36 35	2	thermal-management-system-	5 hour(s) ago
3.53E+14	Type 2, 12M	DL51EV327	2024-11-12 05:19:15	Rohini 2	Delhi	M2701B36 35	2	thermal-management-system-	18 hour(s) ago
	Type 2, 12M	DL51EV432	2024-11-12 04:55:04	Burari Dep	Delhi	M2701B36 35	2	thermal-management-system-	19 hour(s) ago
3.53E+14	Type 2, 12M	DL51EV455	2024-11-12 15:20:33	Burari Dep	Delhi	M2701B36 35	2	thermal-management-system-	8 hour(s) ago
3.53E+14	Type 2, 12M	GJ05CW48	2024-11-12 08:31:05	Bhestan De	Surat	M2701B33 35	2	thermal-management-system-	15 hour(s) ago
	Type 1, 09M	KA41D274	2024-11-12 00:48:00	KR Puram [Bangalore	M2701B33 35		thermal-management-system-	
3.53E+14	Type 2, 12M	DL51EV413	2024-11-12 19:27:15	Burari Dep	Delhi	M2701B36 35	2	thermal-management-system-	4 hour(s) ago
	Type 1, 09M	MH43CE95	2024-11-12 05:46:08	Marol	Mumbai	M2701B33 15	1	battery-temperature-differenc	
	Type 2, 12M	GJ05CW66	2024-11-12 18:21:08	Pal Depot	Surat	M2701B34 25	3	middle-CAN-abnormal-commi	5 hour(s) ago



Case Study - leading 3-wheeler EV battery OEM

- Provides visibility of 360° battery behaviour
- Reduced illegitimate warranty
 claims by 70% within 5 months
- Eliminated need to roster
 service/maintenance personnel to
 remote client sites





Get in touch

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