




iRASUS

# Business Insights

*Battery warranty management*

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# Battery and Electric Vehicles

Although a new technology, electric vehicles are the wave of the future within the automotive industry. Used by everyone from taxi companies to delivery services, these vehicles are changing the way we look at travel and transportation. And as our technology advances with time, so do the batteries that power our cars. This means we're going to have to start paying a lot more attention to battery warranty management in electric vehicles. Battery warranties are the most important asset of your electric vehicle (EV), and their duration is critical to the success of your business. Lets see how we can manage battery warranty better and efficiently.

## Battery Warranty Management

As an OEM, the most important step is to evaluate in a scientific way the battery health at any given time and efficiently manage the warranty procedure when it's time. The Key considerations here should be, that you should be able to accurately:

- Detect and predict battery aging & degradation accurately - identify devices that are most at risk of being returned due to a defective battery.
- Detect and evaluate RUL - It's equally important to monitor, capture and process battery data over a period of time to arrive at true RUL (i.e. remaining useful lifetime) of each battery, so you can notify customers ahead of time if their warranty will soon expire.
- Detect Pack Misuse - Continuous overcharging or undercharging, Measuring DoD over a time lap, will enable to visualize the pack handling, thus would help you reject illegitimate battery claims. You can also offer routine maintenance & repair services on raw data that you capture.
- Control pack configurations e.g. threshold/release voltage over the air - With the increasing popularity of electric vehicles, battery repair and replacement services are expected to grow considerably over the near future. This monetizing opportunity can only be availed, if your batteries are remotely monitored & connected. You can offer extended warranties of 24+ months with these.
- Dedicated web-based system for managing battery warranties - From the system administrator's point of view, it also allows monitoring warranty expiries on a monthly basis and also provides some useful information about failures that may have occurred during warranty period.

There is a large industry of EV & stationery battery manufacturers that are providing cost effective batteries to the world. Furthermore, there are many EV Owners trying to navigate the EV battery warranty management process with little to no prior experience. iRasus provides a platform for the EV Service Center requiring real time access and monitoring to their customers batteries





# About Us

iRasus is an Energy Analytics startup working in the Clean Tech sector. Our AI based Analytics Platform Preksha, works on creating digital Twins of Infrastructure Assets such as Electric Vehicle Batteries, Stationery Battery Systems, Charging Infrastructure Platforms, for optimizing Operations, better monetize their energy assets and add new tangible business value.

Contact us for a smarter energy future:



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