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Enacting plan on In-vehicle Battery Durability Regulation of Korea

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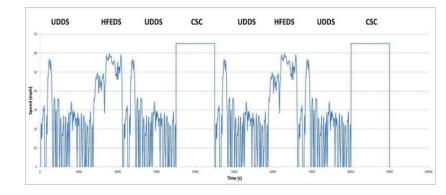
Enacting plan on In-vehicle Battery Durability Regulation of Korea

- Purpose
- Improve EV sustainability by reusing battery
- The SOH monitor will be used not only for GTR22 but also for battery reuse decisions
- Scope and application
- Vehicles subject to "certified range" with MCT mode by KMVSS
- Passenger vehicles, buses and trucks not heavier than 3.5 tons



- Mandatory installation of the SOH monitor that maintains its accuracy throughout the lifecycle of vehicle
- Selection of 3 to 16 sample vehicles
- SOH_{read}-SOH_{measured} < 5% Verification of accuracy

 $SOH_{measured} = \frac{Measured \ range(MCT)}{Certified \ range(MCT)} * 100$



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- Stage 2: MPR Part B
- Establishment of MPR as a warranty regulation in KMVSS

 $SOH_{measured} = \frac{Measured \ range(MCT)}{Certified \ range(MCT)} * 100$

MPR warranty	MPR
From the start of life to 5 years or 100,000 km, whichever comes first	80%
For vehicles more than 5 years or 100,000 km, up to 8 years or 160,000 km, whichever comes first	70%

- Future plan
- A study on the variation of monitor accuracy as vehicle gets old
- A study of sampling methods for selecting vehicles and number of samples depending on the lifetime of vehicles

