

CHAdeMO Overview 2015 Strategy 2016

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CHAdeMO Global Installation

Almost 10,000 and keep growing

Japan 5418

Europe 2364 N America 1309







Rest of the world 60

As of Sept 2015



Overview of 2015

1. Standardisation of CHAdeMO protocol

2. CHAdeMO V2H guideline

3. Improve the CHAdeMO specification

4. Charging infrastructure promotion



Standardisation of CHAdeMO protocol

Officially in Effect as EN

EN 61851-23:2014 Jan. 2015

EN 61851-24:2014 Jan. 2015

EN 62196-3:2014 May. 2015





Officially in Effect as JIS

JIS D61851-23 Oct. 2014

JIS D61851-24 Oct. 2014

JIS D62196-3 Oct. 2014







■ IEEE wait publication

P2030.1.1 Agreed in Sept. 2015





CHAdeMO V2H Guideline

V2H Guideline Revision

Guideline 2.0 published Apr. 2014
Guideline 2.1 published Nov. 2014
Certification Standard published
Mar. 2015

Homologation for V2H Grid Connection

Standard published Aug. 2015

Homologation started Sept. 2015



CHAdeMO Specification 1.1

- Working Draft completed Sept. 2015
 - ✓ Under deliberation process
- ■Functional improvement from of Ver. 1.1
 - ✓ Dynamic control of maximum power output (during Charging)
 - ✓ Low capacity cable use policy
 - ✓ Introduce Maker Option



Charging Infrastructure Promotion

- NCS (Nippon Charge System LLC)
 - Established by Toyota, Nissan, Honda, MMC, Tepco, Cepco, & DBJ (Development Bank of Japan)
 - ✓ Deploy Charging Infrastructure
 - ✓ Enrich the Charging Network (ex; Billing system)
- Government Affairs
 - ✓ CPT Directive
 - ✓ Incentive, Subsidies















Strategy for 2016

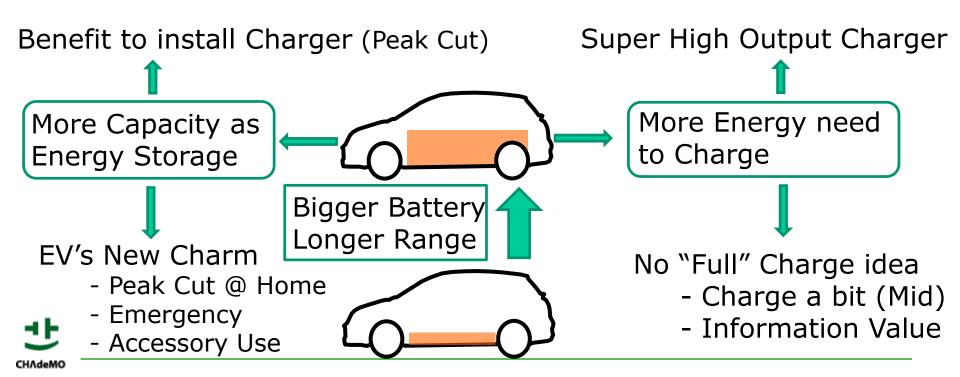
1. Future Vision of Charger

- 2. New Possibility of CHAdeMO
 - Multi Charger
 - High Power
 - V2H Expansion
 - Wireless Charging
 - Promotion
- 3. Certification and Homologation
- 4. Cooperation with other organization



Future Vision of Charger

- Tri-polarised as
 - ✓ Normal (3-7kW) @ Home, Office (maybe w/V2H)
 - ✓ Medium (10-25kW) @ Destination (Stores, Shop)
 - ✓ High/Super High @ Highway, Long Drive use



New Possibility of CHAdeMO

- Multi System Charger
 - √ Local Best Combination (w/CCS, Tesla, AC)
- High Output Power
 - √ Bigger Battery -> De-facto 30 60 min
 - ✓ Output (kw) TBD w/ technical task considered
- V2H Expansion
 - √ Compatibility to Global (Local) Electrical Grid
- Wireless Charging System
 - √ Standard on going (CHAdeMO to watch)
- Promotion
 - ✓ Diversify "Charger Mapping"
 - Location, Power, Vacancy, Gun type, Billing etc...





Certification and Homologation

- Guarantee the Connectivity, Capability, and Compatibility.
- Crucial for the Reliability and Credibility.
- CHAdeMO has Experience for Years
- System Establish for Japan, Europe discussion ongoing with China, India





Cooperate with CharlN

- Since Multi System Charger exists, Competition become Cooperation
- Respect Identity. Respect Responsibility.
- CHAdeMO welcome contacts with CharIN
- Exchange Technical Info. & Experience



Thank you for your Attention

