



**ĐĂNG KIỂM VIỆT NAM**  
VIETNAM REGISTER



**CỤC ĐĂNG KIỂM VIỆT NAM**

**VIETNAM'S COUNTRY REPORT**

**The 14th PUBLIC AND PRIVATE JOINT FORUM IN ASIAN REGION  
The 28th ASIA GOVERNMENT/ INDUSTRY MEETING**

**Vietnam Register**

**29-11-2023**

Dedicated to Safety and Environment Protection



# OVERVIEW

**01**

## OVERVIEW

Overview of Vietnam, the automobile market

**02**

## CHALLENGES AND SOLUTIONS

Vietnam's challenges, goal and potential solutions

**03**

## CONCLUSION

A synopsis of Vietnam's report

# 01

## OVERVIEW

Overview of Vietnam, the automobile market and international cooperation activities

# OVERVIEW OF VIETNAM POPULATION AND IT'S MARKET



## Population: 99.979.940 (31/10/2023)

\_ The population density of Vietnam is 320 people/km<sup>2</sup>. With a total land area of 310,060 square kilometers.

Source: <https://danso.org/viet-nam>

## Number of vehicle (31/10/2023)

\_ Automobiles in circulation : 5.344.062;

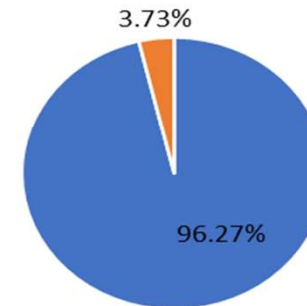
\_ Passenger Car: 3.735.248

\_ New assembled motorcycles: 2.369.441.

\_ Total registered motorcycles: 68.349.566 (Up to 31/12/2021)

Source: <http://www.vr.org.vn/thong-ke/Pages/tong-hop-so-lieu-phuong-tien-giao-thong-trong-ca-nuoc.aspx> and National Traffic Safety Committee Report

Ratio of number of passenger car to population



■ Not own a Passenger Car ■ Own a Passenger Car



## GOAL FOR IMPLEMENTING COP26

### Goal:

**2030**

Fulfilling the commitment level in the NDC:

By ourself: ↓ 9% GG  
With support: ↓ 27% GG

Improve energy use efficiency

Promote the conversion to use electricity and green energy

**2050**

Net greenhouse gas emissions will reach “zero” by 2050

Rational development of transport methods

All vehicles, equipment, and transportation infrastructure use electricity and green energy

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## GOAL FOR IMPLEMENTING COP26

Charging infrastructure:  
Development to meet the  
needs of people and  
businesses

Vehicles use 100% E5  
gasoline Gradually, limit  
production, production and  
import of vehicles using  
fossil fuels

Stop production and import  
of vehicles using fossil fuels

100% of vehicles use  
electric energy

2022

2030

2040

2050

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## OVERVIEW OF VIETNAM'S DOMESTIC ELECTRIC VEHICLE MARKET

	YEAR	2017	2018	2019	2020	2021	2022	1-7/2023
IMPORT	Hybrid	29	198	130	894	2782	3,227	2,467
	BEV (Automobile)	4	3	8	6	33	94	174
	E-Moped	0	0	40	502	4	0	0
	E-Motorcycle	1163	4285	984	192	178	148	148
MANUFACTURING	Hybrid	0	0	0	0	0	0	0
	BEV (Automobile)	0	0	0	0	134	3,005	19,228
	E-Moped	56428	46869	53029	46985	27066	6,806	8,791
	E-Motorcycle	317354	210477	237442	228481	178051	330,728	321,086

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## OVERVIEW OF VIETNAM INFRASTRUCTURE



**Vietnam is constructing 1,332 km of highways. It is expected that by the end of 2023, Vietnam will have 1,852 km of highways.**



**Vietnam currently has over 150,000 charging ports in operation.**



**36 electric bus routes have been operated in Hanoi city, Ho Chi Minh City and Phu Quoc**

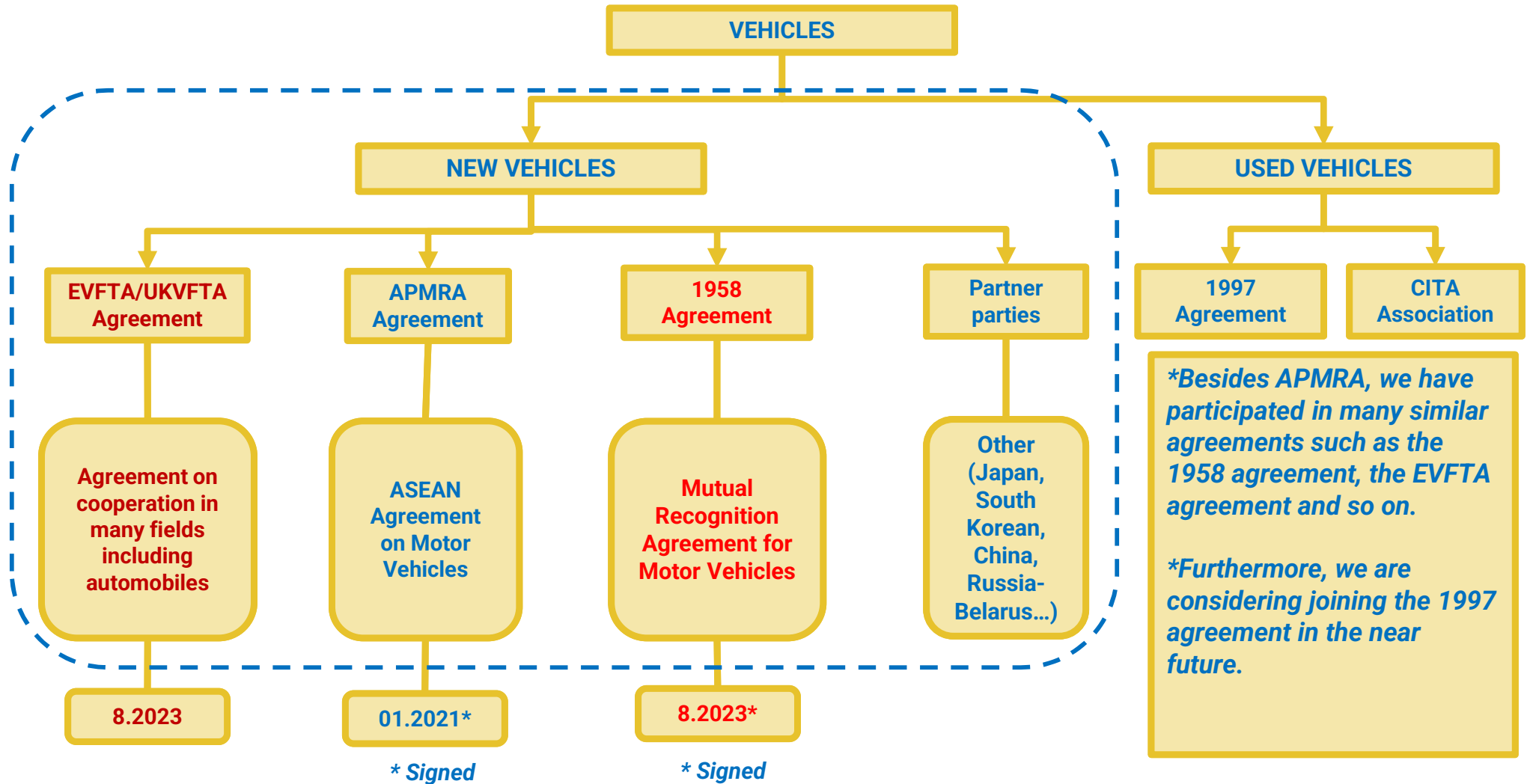


**Cat Linh - Ha Dong (HaNoi city) urban electric train has been operated since November 6, 2021**





# INTERNATIONAL COOPERATION ACTIVITIES



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# 02

## CHALLENGES, GOAL AND ACTION

Vietnam's challenges, goal and potential solutions



## PRESSURE ON THE POWER SYSTEM

Assuming all Vietnamese cars today are electric cars, taking Vinfast's charging station as the standard. The medium charging station has a capacity of 30kW. If these electric vehicles are charged at the same time, the total required power capacity: ~160321 MW is much larger than the installed capacity. This number may be higher due to grid losses and the use of different charging stations.

### National power grid

#### Installed capacity (2022)

- End of 2022: 77.800 MW

#### Grid (2019)

- Power Line 500 kV
- Length: 8.496 km
- Electricity loss: 6,5 %

#### Demand (forecast)

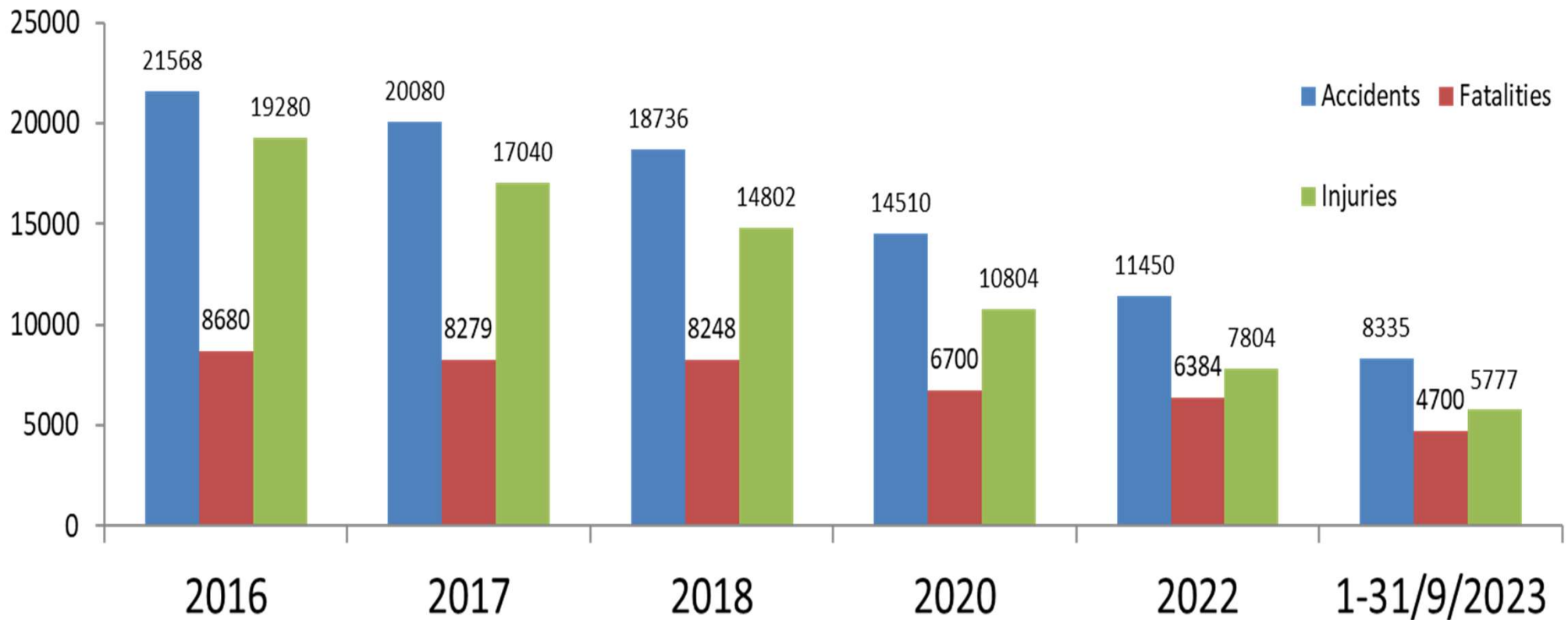
- 2020: 39.826 MW (backup +33%)
- 2030: 84.203 MW (backup +39%)

Source: GIZ, Study on Electric Transportation Development in Vietnam, TIA Research Report, August 2021  
Infographics "Panorama of Vietnam's electricity industry in 2022" – Vietnamplus.vn



## STATISTICS ON ROAD TRAFFIC ACCIDENTS

- In the first 9 months of 2023, there were over 8,335 traffic accidents nationwide, killing over 4,700 people and injuring 5,777 people. (Source: baohinhphu.vn)



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## GOAL AND ACTION

**The period 2021 – 2030: (419/QĐ-BGTVT 18/03/2021 and Decision 100/2019/ND-CP)**



+ Annual reduction of 5 ÷ 10% of the fatalities and injuries due to road traffic accidents



## ACTION ON OUR LEGAL SYSTEM

Ord	TASK	Work to do
1	LEGAL DOCUMENTS	<ul style="list-style-type: none"><li>- We are gradually building a legal system to move towards passive safety;</li><li>- Currently, implementation regulations for EVFTA/UKVFTA have been completed and issued in Decree 60/2023/ND-CP</li></ul>
2	TECHNICAL DOCUMENTS	<ul style="list-style-type: none"><li>- We are actively revising, supplementing, and developing a roadmap for national standards and technical regulations.</li><li>- Upgrade two National test facilities, VMTC and NETC</li></ul>



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## AMENDING TECHNICAL REGULATIONS

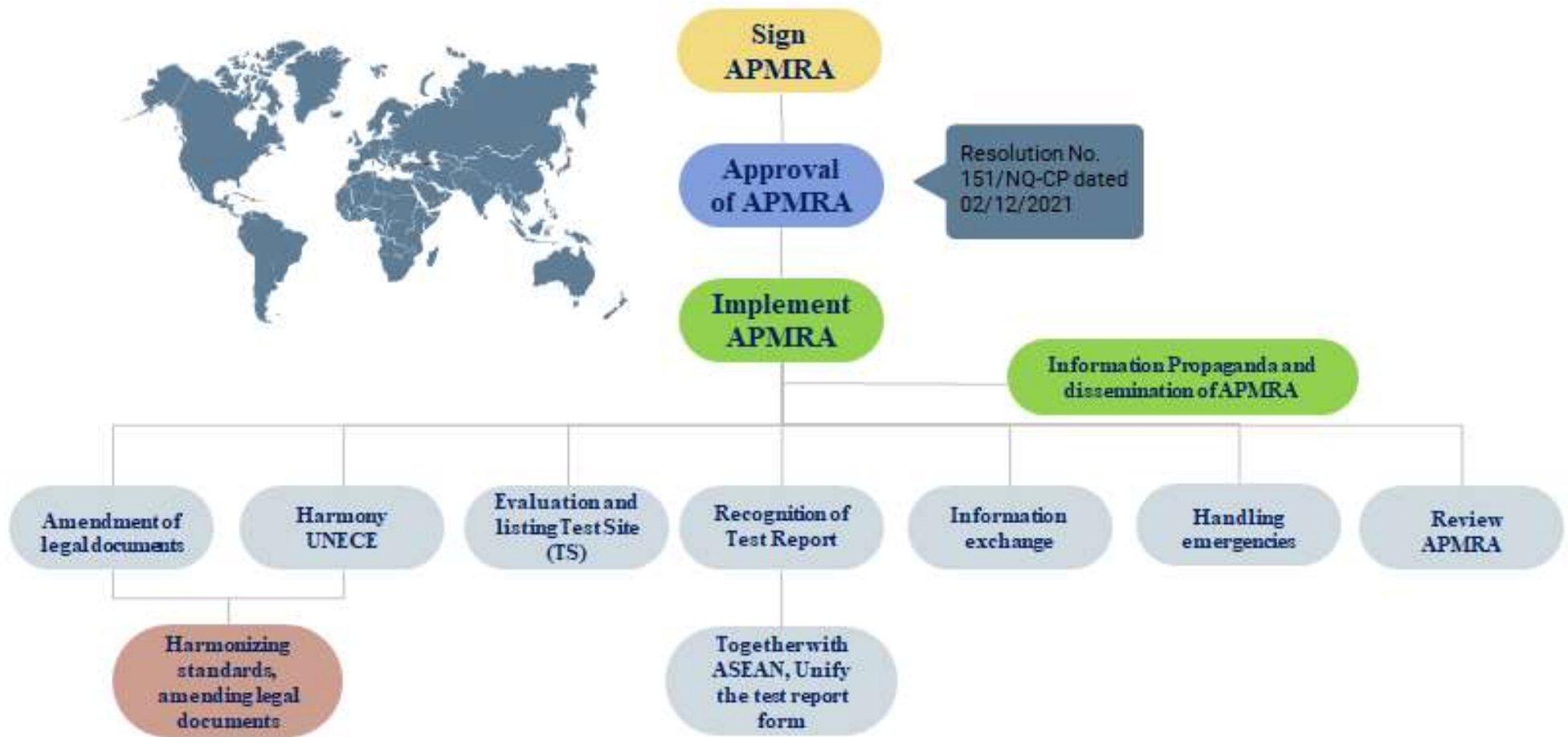
*The Technical Regulations relating to technical safety and environmental protection for motor vehicles that have been amended between 2022 and 2023 following the orientation of 1958 Agreement are listed below.*

No	Title	TCVN & QCVN
1	Safety and environmental protection for automobiles	QCVN 09:2015/BGTVT
2	Safety for trailer and semi-trailer	QCVN 11:2015/BGTVT
3	Safety Glazing Material	QCVN 32 : 2017/BGTVT
4	Rear View Mirror	QCVN 33 : 2019/BGTVT
5	Road Vehicle Headlamps	QCVN 35 : 2017/BGTVT
6	Frames of motorcycles and mopeds	QCVN 30 : 2010/BGTVT
7	Vehicle Inspection Station	QCVN 103:2019/BGTVT
8	Exhaust emission for light duty vehicle	QCVN 109:2015/BGTVT

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# VIETNAM'S PLAN TO IMPLEMENT APMRA



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## HARMONIZING LEGAL DOCUMENTS

- Below is list of Vietnamese equivalent standards and regulations with 19 UNECE harmonized in phase 1 of APMRA Agreement

Phase	No	Title	UNR No.	TCVN & QCVN
Phase I	1	Braking System	R13	TCVN 6919:2001
	2	Braking System (Passenger Car)	R13H	TCVN 7228:2002
	3	Anchorage of seat belt	R14	TCVN 12576:2019
	4	Seat Belt	R16	TCVN 7001:2002
	5	Seat	R17	TCVN 12577:2019
	6	Head Restraint	R25	TCVN 12578:2019
	7	Audible Warning Device	R28	TCVN 6923 :2001
	8	Pneumatic tyre (passenger vehicle)	R30	QCVN 34:2017/BGTVT
	9	Speedometer	R39	TCVN 6956:2001
	10	Exhaust emission for motorcycle	R40	QCVN 04:2009/BGTVT; QCVN 77:2014/BGTVT;
	11	Noise for motorcycle	R41	TCVN 7881:2008; TCVN 7882:2008
	12	Safety Glazing Material	R43	QCVN 32:2017/BGTVT
	13	Rear View Mirror	R46	QCVN 33:2019/BGTVT
	14	Exhaust emission for heavy duty vehicle	R49	QCVN 86:2015/BGTVT QCVN 109:2021/BGTVT
	15	Noise Emission	R51	TCVN 7880:2016
	16	Pneumatic tyre (commercial vehicle)	R54	QCVN 34:2017/BGTVT
	17	Pneumatic tire (motorcycle)	R75	QCVN 36:2010/BGTVT
	18	Steering System	R79	TCVN 6786:2001
	19	Exhaust emission for light duty vehicle	R83	QCVN 109:2021/BGTVT

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# IMPROVE THE KNOWLEDGE AND DRIVING SENSE OF ROAD USERS



**Tighten measures to control alcohol while driving.**

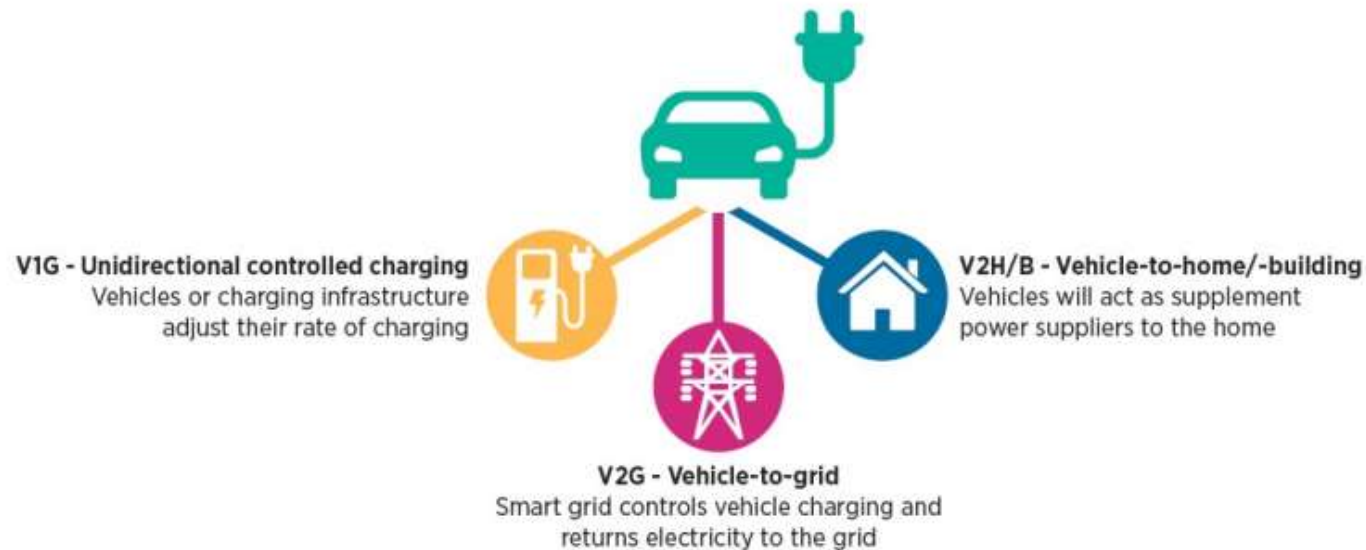
**Apply modern technology in driver training as well as driver testing**

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## RESEARCH AND APPLY NEW CHARGING TECHNICAL

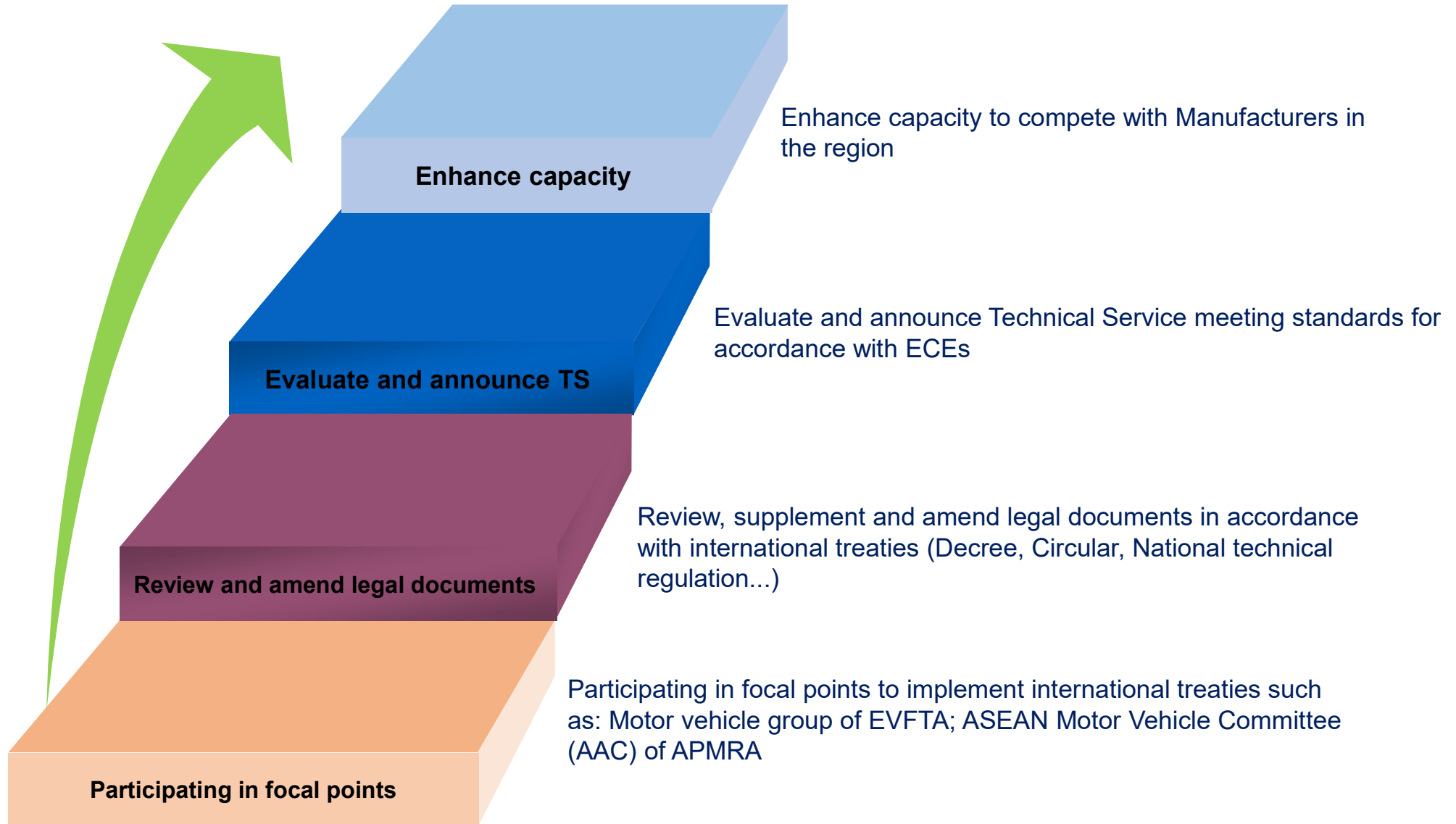


**Smart Charging:** Allows shifting charging time to low load times, with cheaper charging electricity prices. However, the charger itself must integrate transmission lines and algorithms to perform smart charging.





## PLAN IN NEAR FUTURE



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**03**

# CONCLUSION

A summary of Vietnam's report



## CONCLUSION

- To implement the proposed plans, Vietnam will need more help from other country and other organization (JASIC) in the fields of harmonization, training as well as developing national standards, technical regulations;
- Vietnam is eager to learn from and share her experiences with ASEAN members;
- International cooperation in general, or joining agreements in particular, is one of our top priorities;
- Vietnam wishes to collaborate more closely in order to assist one another in overcoming difficulties and creating the most favorable conditions for cooperation activities in the field of automobiles;
- Vietnam has a potential car market, with a low car-to-population ratio. I believe that through determination and effort, as well as support and experience sharing from other countries. Vietnam will become one of the important automobile industries in Southeast Asia.



Thank you for listening!

