

CHHOTUBHAI GOPALBHAI PATEL INSTITUTE OF TECHNOLOGY

Department of Electrical Engineering

A REPORT

OF

Webinar Entitled “Introduction to Electrical Vehicles “

On 31st May , 2020

Title of the Workshop	Introduction to Electrical Vehicles
Organized by	UTU and Electrical Engineering Department
Expert Speaker	Mr. Jaydip Patel Application Engineer Maxim Integrated USA
Moderator	Mr. Jay Patel
Target Audience	Faculty members and industrial person, Research scholars and Engineering students.
Total Number of Participants	55
Date of Programme	31/05/2020

Webinar detail :

- History of electrical vehicle
- Types of electrical vehicle
- Charging equipment
- EV –A good choice (Benefit and consideration)
- Case study :Conventional & electrical vehicle
- Impact on utility grid

Glimpse of the Webinar :



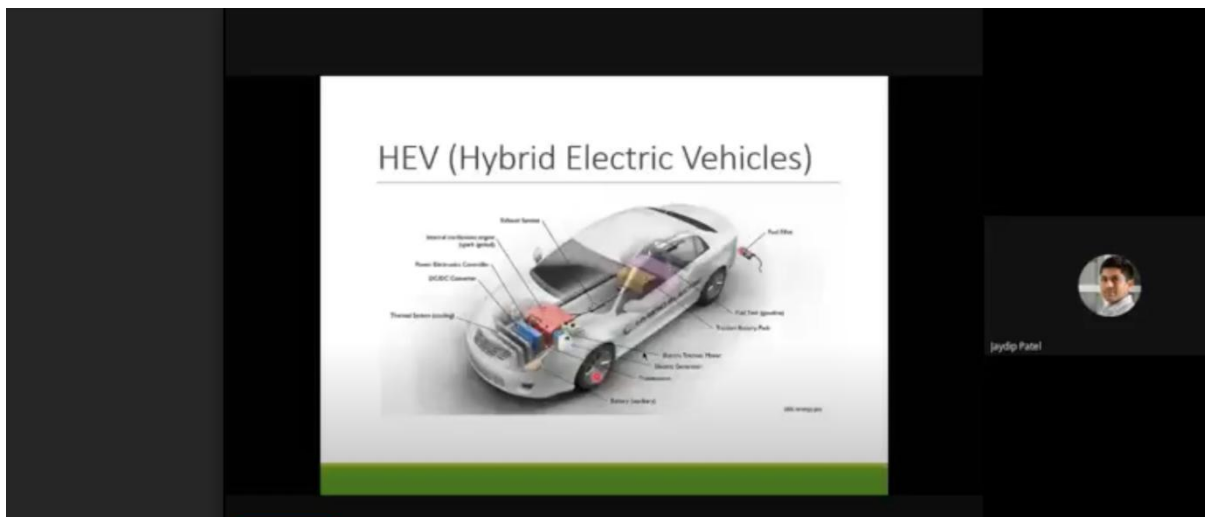
The slide is titled "Charging Equipment" and is divided into three columns representing different charging levels. Each column includes a color-coded header, a charging speed metric, a list of equipment types, and a list of typical use cases. Below the columns, a question asks how long it would take to charge a 60kWh EV with each type of equipment.

Level 1 Charging	Level 2 Charging	DC Fast Charging
2 to 3 miles of range per 1 hour of charging	10 to 20 miles of range per 1 hour of charging	50 to 80 miles of range per 30 minutes of charging
11772 charge port	11772 charge port	CCS+charge CHAdeMO Tesla
<ul style="list-style-type: none">• 120V AC port• 1.9 kW (16A)• Residential	<ul style="list-style-type: none">• 240V AC port• 5.8 kW (24A)• Residential• Commercial	<ul style="list-style-type: none">• 480V AC port• 30 kW (78A)

How long each will take to charge an EV with a battery capacity of 60kWh?

source: <https://efdc.energy.gov/>

Video player controls: Play (k), 34:19 / 1:44:31, CC, Settings, Full Screen, Exit Full Screen.



The slide is titled "HEV (Hybrid Electric Vehicles)" and features a cutaway diagram of a car showing its internal components. Labels point to various parts including the internal combustion engine, electric motor, battery pack, and transmission.

Labels in the diagram include: Internal Combustion Engine, Electric Motor, Hybrid Battery Pack, Transmission, Fuel Tank, Fuel Inlet, Exhaust System, and Drive Shaft.

Video player controls: Play (k), 34:19 / 1:44:31, CC, Settings, Full Screen, Exit Full Screen.

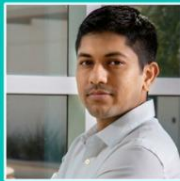
Webinar on Introduction to Electric Vehicles

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May 31, 11AM



**Google Meet Code
kvu-kjdo-kqt**



Speaker

Mr. Jaydip Patel
Application Engineer
Maxim Integrated
USA

Moderator

Mr. Jay Patel
Asst. Professor,
Electrical Department,
CGPIT,
Uka Tarsadia University



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