

*Presented at*



# Auroville Green Practices

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## The HumVee

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EV Future

# EVFuture - The Makers of eMotion

- EVFuture focuses on R&D related to electric vehicles.
- Prototype vehicles of 1000W designed specifically for Indian road conditions.
- Advanced Battery Management System that shows and monitors battery state.
- Conversion of existing vehicles
- Solar Charging Technology



## Electric Vehicle Technology

An electric vehicle (EV) is a vehicle with one or more electric motors for propulsion.

An electric vehicle consists of the following:



### Battery

Lead-acid based, or lithium ion based.

### Controller

Transfers energy from battery to motor.

### Motor

AC or DC motor used to propel vehicle – Brushless or brushed

# EVFuture's USP



## Frame

Stronger and more durable than average bike

## Batteries

Larger than other manufacturers, more mileage

## Suspension

Customized for additional comfort.

## Power and Range

2KW peak power, top speed of 50+ km/h with a range of 50+kms

## EVFuture Battery Monitoring

An accurate battery monitoring system with digital readout of remaining battery capacity.

Built in odometer and trip counter

Integrates into any EV with brushless DC technology

Amp hour monitoring on both in and outbound current with logging of charge cycles



# Solar Charging Stations

- First station set up in 2009 for four vehicles to charge simultaneously
- Plans to build more, with additional features using our battery monitoring system to correctly gauge remaining charge capacity in the charging station
- Developing a model for grid-connected charging stations using a prepaid card system which could be widely adopted





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