

GREEN ALERT



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The focus of Environment Information System (ENVIS) is to disseminate environmental information to decision makers, policy planners, scientists and researchers across the world.

The CERC-ENVIS Resource **Partner focuses on Environment** Literacy-Eco-labelling and **Eco-friendly Products' This** bi-monthly e-bulletin features latest news, developments and innovations in the field.

EPA's Fuel Economy and Environment Label

US EPA issues fuel economy label (or window sticker) to all new cars and light trucks. The label provides consumers with reliable and repeatable estimates of real world fuel economy for national average drivers and conditions allowing consumers to compare fuel economy across different car models. Car buyers now have information on fuel economy, fuel costs, and environmental impacts such as smog and greenhouse gas ratings for all new vehicles, including advanced technologies such as electric cars and plug-in hybrids (PHEVs). A QR Code®1 will allow users to access a vehicle's online information on fuel economy.gov on their smartphones. The benefits of a vehicle fuel economy and environment label is now extend to the used car market too. Source: https://www.epa.gov/greenvehicles/learn-about-fuel-economy-label

Eco product



Electric Vehicles: An Environmentally Friendly Option

E-Vehicles do not emit climate damaging greenhouse gases or health-harming nitrogen oxide and is very easy to operate. These vehicles seem to have more advantages over cars that run on petrol or diesel.

There are two basic types of EVs: all-electric vehicles (AEVs) and plug-in hybrid electric vehicles (PHEVs). AEVs include Battery Electric Vehicles (BEVs) and Fuel Cell Electric Vehicles (FCEVs). In addition to charging from the electrical grid, both types are charged in part by regenerative braking, which generates electricity from some of the energy normally lost when braking.

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All-electric vehicles (AEVs) run only on electricity. Most have all-electric ranges of 128 to 160 kms while a few luxury models have ranges up to 402 kms. When the battery is depleted, it can take from 30 minutes (with fast charging) up to nearly a full day (with Level 1 charging) to recharge it, it, depending on the type of charger and battery.

If this range is not sufficient, a plug-in electric vehicle (PHEV) may be a better choice. PHEVs run on electricity for shorter ranges (6 to 40 miles), then switch over to an internal combustion engine running on gasoline when the battery is depleted. The flexibility of PHEVs allows drivers to use electricity as often as possible while also being able to fuel up with gasoline if needed. Powering the vehicle with electricity from the grid reduces fuel costs, cuts petroleum consumption, and reduces tailpipe emissions compared with conventional vehicles. For longer driving distances, PHEVs act like hybrid electric vehicles, consuming less fuel and producing fewer emissions than similar conventional vehicles. Depending on the model, the internal combustion engine may also power the vehicle at other times, such as during rapid acceleration or when using heating or air conditioning. PHEVs could also use hydrogen in a fuel cell, biofuels, or other alternative fuels as a backup instead of gasoline.

To make these vehicles more appealing, Indian Government has proposed incentives to develop the infrastructure for e-vehicles. Also help power plants to install equipments to curb the emission of hazardous gases.

Source: https://www.energy.gov/eere/electricvehicles/electric-vehicle-basics

Eco news

Delhi plans to set up 131 EVcharging stations



The Ministry of Power has approved to set up 131 EV charging stations across the Delhi. According to the plan, the government intends to split the 131 stations among metro stations, CNG stations and fuel stations. Out of the 131 electric charging stations, 33 will be set

up at metro stations, 34 at CNG outlets and the rest at different fuel stations including IGI Airport and Jamia Millia University. Three municipal corporations and Delhi Transco Ltd will be the nodal agencies, which will set up the charging stations in their respective areas. The EV charging stations once set up will be further be operated by the four agencies for a period of three years. The nodal agencies will further charge the user with a small fee. The charging stations are expected to be operational within next three months.

Source: https://www.drivespark.com/four-wheelers/2019/electric-charging-stationsdelhi-131-new-stations-027912.html

China's \$18-billion electric car market is in danger

The demand of EVs in China encouraged traditional car makers, startups, electronics and real-estate industries to invest billions of dollars. There are now registered 486 EV manufacturers in China, more than triple the number



from two years ago. Dozens of startups have entered the global EV business in recent years, raising \$18 billion since 2011, according to Bloomberg. The government is also encouraging the development of electric cars to help eliminate air pollution, reduce oil imports and develop high-technology manufacturing. Sales of passenger EVs are projected to reach a record 1.6 million units this year. The government has also pulled back on the subsidies. It is not enough to keep all those assembly lines humming, prompting warnings that the ballooning EV market could burst and leave behind only a few survivors.

Source: //economictimes.indiatimes.com/articleshow/68898218.cms? utm_campaign=cppst

Drive Green

Opting for electric vehicles will not only help reduce emissions but can also help you save money.

Visit CERC-ENVIS website www.cercenvis.nic.in and https://www.facebook.com/EcoProductsEcoLabeling to know more about our activities.

Consumer Education and Research Centre

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Eco tip