

# Future of Electric Car



## An In-Depth Look Into

### Future of Electric Cars



The year 1832 witnessed the launch of first electric car in the market. The first practical electric car was launched in 1890 by William Morrison. Ferdinand Porsche launched the first hybrid car in 1898 which allowed gasoline-powered engine to

work along with the electrical mechanism. The electric cars didn't gain public fame and remained nearly obsolete through most part of the 20th century primarily because of higher costs and less productivity in comparison to the gasoline-powered cars. The idea of electric cars was revitalized by Tesla model sports car launched in the year 2006 by Tesla motors. The Tesla car support longer journeys of up to 200 miles with a single charge. Since then the sales of electric cars progressively increased. An all in one electric vehicle is entirely dependent on battery for power, as simple as plug and play. A hybrid electric vehicle uses liquid fuel combustion to charge the battery. Electric cars have the ability to replace conventional gasoline-powered cars because of less hostility towards environment but the designs layouts, durability, and higher cost issues need to be readdressed.

Electric cars can provide the impetus to curb the menace of environmental degradation. Electric cars, hybrid electric cars are least dependant on nonrenewable energy sources which makes them a sustainable and eco-friendly choice. Energy is obtained by plugging in the device (battery) with a power source in Electric cars. Hybrid electric cars cut down the carbon emissions as the user can switch to electric mode once the battery gets charged. Hydrocarbon emissions into the atmosphere are greatly reduced because fossil fuel burning is minimized. Natural resource management thus becomes well within range. Resultantly our Earth becomes less vulnerable to decay, damage and collapse. Physical layouts need special attention to complement the eco-friendly nature of electric cars.

Lack of power, heavy battery structures, distance covered per charge, higher costs lead to insecurities and negative feedback. Electric cars aren't ideal for longer journeys as charging stations need to be abundant and at shorter intervals. Secondly heavier batteries make electric vehicles portray an indecent composure. Uphill drives are difficult to accommodate because the engine lacks the power. On average, an electric car travels up to 100 miles/ charge which doesn't go well with people who frequently move around to far off places. A lithium-ion battery weighs 440-460 Kg which makes the structure bulky. Gasoline powered engines bear the brunt of uphill drives with maximum number of passengers onboard whereas electric cars struggle to find the momentum.

Electric car manufacturers need to reconsider the design and operational methodologies for more promising outcomes. Future of electric cars is dependent on enhanced battery timings, more influential design, durability and compatibility to handle longer journeys. ■

Yasir Hayat

## Self Repair Phone

Most of us get frustrated with the damage of the smartphone screen and try to protect it by protector but it eventually broke out and we have to buy a new one. However, this may not be the case in the future as Motorola's new smartphone is about to come in your hand which will be able to self-repair cracks on its screen. The screen of such smartphone will

be made-up of polymer which needs to be warm to bring the screen back in its actual form. Though this patent sounds exciting, but future development will show if the company has something in the cards. ■

## Echo Show VS Lenovo Smart Display 10

Both the Amazon Echo Show and the Lenovo Smart Display 10 have miraculously transformed our lives by providing a smart speaker and a smart screen with numerous functions. They are not limited to being great home assistants instead they entertain the users by letting them watch videos,



help them sort out the directions and let them enjoy seeing pictures etc. all in one.

However, they have numerous practical features which differentiate them from one another. The most important statistics which help us in comparing both of them are their design and how they respond to the commands. Let's dive deep into both the Amazon Echo Show and the Lenovo Smart Display 10 to emphasize those differences.

### Lenovo Smart Display 10

From stand out design to being great kitchen assistant and has the ability to respond quickly, the Lenovo Smart Display is an ultimate masterpiece.

- The Lenovo Smart Display 10 has an absolutely sleek and stand out design. Its back is covered with a bamboo sheet and one of its sides is a bit out to let the users rest it in both vertical and horizontal position.
- Smart Display is large, lucid and has the high resolution of 1920x1200. Moreover, Lenovo's Smart Display has exclusive IPS displays which make the videos, movies etc. more clear and pleasant.
- Lenovo's Smart Display is the best when it comes to controlling smart-home devices. It's interlinked with Google Assistant in that case when the users ask Google Assistant to set the thermostat or turn on the light, it automatically gives the command to Smart Display and let the users control the devices manually.
- Smart Display takes the security level to the whole next level with its built-in camera shutter. Now the users don't have to cover the camera with tape as Lenovo has got them covered with the small slider that blocks the camera when needed.

### Amazon Echo Show:

- Amazon Echo Show has totally transformed its users' life by letting them enjoy all the functionality of Amazon's assistant Alexa with many other most prominent features.
- Amazon Echo show has a perfect size as it fits everywhere and has proved itself a great bedside companion. Moreover, it is considered as the fanciest Alexa gadget which gives it a lot more space for improvements.
- One of the most mind-blowing features of Amazon Echo Show is it let the users enjoy voice-activated video calls with other Alexa users without installing any additional app
- The Echo show allows users to feel all secure about back home by letting them see through their home security camera. Yes! You heard me right, it controls your home security camera miraculously via Alexa. Amazon has been updating its assistant Alexa's features on the regular basis which automatically let the Echo Show users enjoy updated features via Alexa. ■

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## Discovering Datasets

Diving into the immensity of millions of existing datasets on the web to find your desired information is like finding a needle in a haystack, but Google has a solution. The tech giant has united fragmented domains of online datasets in a new service, 'Dataset Search' to help the scientists, data geeks, and researchers to easily find the datasets they need for their research. Datasets, which follows Google's guidelines for publishers, will make it feasible for Google to properly index them so that the relevant information shows up in Dataset Search. The service is now available besides Google's other specialized search engines in beta test mode and is free of cost for everyone to use. ■

## Have You Ever Been Hacked?

The wave of data breaches continues to roll on in recent years, therefore, Mozilla has launched a new feature 'Firefox Monitor' to help all users to be more aware of, when they are being involved with hacks of Yahoo, LinkedIn, Equifax and other sites. Though, finding out hacked account doesn't make your information private again but, it will help you to realize which passwords need to be changed and will also send alerts of future hacks as well, once you sign up with your email address. ■

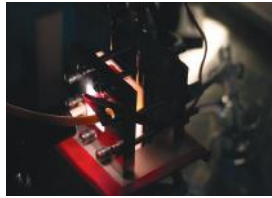
## Uber's 'Ride Check' Feature

In an effort to ensure the safety of both riders and drivers, Uber has introduced a new feature 'Ride Check', which uses GPS & other sensors inside a driver's smartphone to detect crashes. On determining the crash or sudden decreases in speed, 'Ride Check' will send pop-up notifications to drivers and riders smartphone asking, if they need help, or prompted to call 911. The new feature is expected to roll out in the coming months. ■

## AI of Natural Hazards

For years, Google has been using the power of artificial intelligence to envision a whole new world of possibilities from predicting flight delays to cardiovascular diseases. Now, tech giant wants to take its effort to the next level and came up with two major projects to help people mitigate the effects of natural disasters. Firstly, a new collaboration between Google and Central Water Commission (CWC) of India will provide accurate warnings of impending floods using a combination of machine learning, rainfall chronicles, and flood simulation. The facility is initially available in Patna and is put under the umbrella of Google's Public Alerts program. On the next front, Harvard scientists joined forces with Google experts to create an AI model capable of predicting the location of an earthquake's aftershocks up to one year. ■

## Harvesting & Storing Energy



Being the cheapest source of renewable energy, solar power has changed the world perspective about energy and the environment.

Still, solar-powered homes aren't free from grids, as energy storage for later use is the biggest flaw of modern renewable power. Now, researchers are working on a new device which can harvest and store solar energy or can be charged like a normal battery simultaneously with 14.1 percent efficiency. Though the innovation is still at the initial stage, this off-grid solution will solve the biggest problem of rural electrification regardless of huge investments for infrastructures and zero-carbon energy. ■

## Apple's Latest iPhones

Apple's annual fall hardware show is an event to showcase the newest iPhones before the world and to set the tone for upcoming consumer products. In the latest event at California, the company executives took the stage to show off three new iPhones alongside with a redesigned Apple Watch Series 4.

Super Retina display in two sizes, iPhone XS and the iPhone XS Max is an upgraded version of the iPhone X with improved battery life and come in gold, silver or space grey, whereas iPhone XR is a slightly cheaper and entry-level model. The only difference between the first two is of their size, as XS has a 5.8 inch OLED screen while with 6.5-inch OLED screen, XS Max is the largest iPhone ever. The biggest upgrade with these new iPhones is the addition of Apple's new A12 Bionic chip, which is the first seven-nanometer chip to be used in a smartphone, with the ability to process 5 trillion operations per second. Both iPhones have advanced and faster Face ID, 12MP breakthrough dual camera system, larger and deeper pixels, and enhanced bokeh effect.

The iPhone XR with its new liquid retina screen is first edge-to-edge LCD phone available. Like iPhone XS and XS Max, XR is designed to have the A12 bionic chip, FaceID support, and single rear camera without a home button. Apple CEO, Tim Cook cap off the show by mentioning few updates for Apple's smart speakers and new software arrival dates. ■

## Exploring Solar System in Maps

Using Google Maps is a great way to get direction and to learn about various places on

planet Earth but, it can also be used to explore other worlds besides our planet.



Google Maps has features imagery of 16 celestial bodies which let you to virtually explore planets and their moons in our solar system. To access this imagery, just open Google Maps and zoom out the satellite view till you see the space with sidebar pops up with planet names. There is a lot more to explore when you click a planet so enjoy the journey to space in the vicinity. ■

## Quick Facts

- Yahoo released Personalized Android App for personalized news, weather, and sports.
- X-Tomi Design presented 2019 BMW Z4 with Suzuki Swift Sport Face.
- Appscope is an app store for all those people who do not like to install apps.
- Two Samsung Galaxy J Prime Phones are coming soon.
- Finally, Sony is killing PlayStation 2 in Japan.
- Huawei's Honor is getting back the slider phone.
- Samsung claimed to present its first foldable smartphone this year.
- Xiaomi's Mi Mix 3 is to become the first phone to have 5G.
- Samsung is expected to launch a smartphone with a quadruple camera system later this year
- IZneo is releasing its Comic Book App for Nintendo Switch in October.
- Instagram is developing a new standalone app for shopping.
- Following the footsteps of Twitter and Facebook, WhatsApp is planning to introduce a Dark Mode.
- Google Maps' group planning feature has arrived on Android and iOS.
- Microsoft Office 2019 is now available for Windows and Mac users.
- Garmin added 'pulse ox2 oximeter' to monitor blood oxygen saturation to its latest Vivosmart 4 fitness tracker.
- The new version of Skype has only three buttons for quick access to calls, chats, and contacts.
- MagicScroll is a first touch-screen tablet with an advanced flexible display that's engineered to be rolled up like a digital scroll.
- Google released 'Chrome 70' in beta with the addition of fingerprint sensor to let developers use biometrics for account sign-ins.
- Facebook unveiled Portal and Portal Plus devices for video calls to Facebook friends amid privacy concerns ■

## In Quest of Clean and Green Energy

The world needs new energy technologies to tackle the threat of climate change. The goal can be achieved if humanity moves onto renewable energy resources. Bill Gates, Jeff Bezos, Jack Ma and a consortium of high-profile richest personalities agreed on a goal for the public good and set to find the ways to achieve it. They are investing in nine energy startups under the umbrella of Breakthrough Energy Ventures (BEV), a billion-dollar fund to back breakthroughs in green and clean energy technologies of the future. BEV's first two startups Form Energy and Quidnet Energy announced in June to develop different techniques of energy storage.

Other seven startups have recently been announced which involved in working on everything from alternative geothermal energy systems to advance technologies for getting clean drinking water from the air. QuantumScape focuses on the development of a solid-state battery to reduce the cost of electric cars within the next decade whereas Commonwealth Fusion Systems startup is working on a nuclear fusion reactor to harvest net-positive energy.

Another Biotech startup 'Pivot Bio' is making efforts to reduce and replace the nitrogen-based production as this greenhouse gas is 300 times as influential as carbon dioxide. The CarbonCure firm wants to use recycled

carbon dioxide in producing stronger concrete and Fervo Energy startup has plans to develop more resourceful techniques for geothermal energy production. DMC Biotechnologies tailoring microbes to produce low-cost biofuels and Zero Mass Water, last startup, has solar panels and batteries available to pull clean drinking water from the air. ■

## Control Recorded Calls On Google Home

Nowadays, people are getting more and more assistance from Google Home and Amazon Alexa. Amazon has previously announced ways to delete the call history on Alexa. But Google hasn't issued a way yet. So here is how you can delete, organize and playback the queries which you have made. Firstly, open up your Google account on a web browser. Secondly, click on your profile icon that is present on the top right corner. Next, click on "Google Account" and an overview page will open up. After that, find out "Manage your Google activity" section present in "Personal info and privacy" column. You are almost there. From there, just go to "Review activity" section and click on the link present for "Go to my activity". The same procedure can be followed by mobile users, just having a different appearance of the same options. The opened activity page displays all the queries that you made to Google Home, Google assistant and Google search. Here you can edit and delete any queries that you have made. ■

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## Sneak Peak

Coming up in November Issue

Google Pixel 3 Event

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