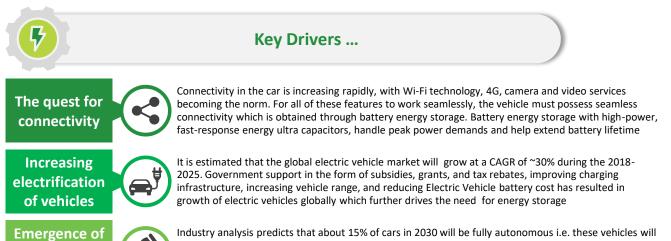


By removal of the need to build stationary grid storage, EVs can provide a dual benefit of reducing carbon in transportation while lowering the costs for widespread renewables integration



autonomous driving



be able to navigate crowded city streets, read stop lights, change lanes and detect pedestrians. This technology will require more power, voltage, and energy storage which will be largely obtained from lithium-ion batteries



Connected six shipping container sized units, five of which house 500 i3 BMW manufactured battery packs, to the **UK National Grid**



Piloting a new project called the Audi Smart Energy Network, involving stationary storage batteries with solar installations and a software allocating the energy as per the need by home or vehicle



Has entered into a strategic partnership with Powervault to offer home energy storage systems consisting of used electric vehicle batteries



periods

Nissan and its affiliate 4R Energy Corporation have launched a new initiative to give used Nissan LEAF batteries a second life as the energy storage banks for off-grid lights

... and then there is Tesla !!!

Sells batteries that are packaged up and wrapped with software and cooling systems that can be plugged into the power grid, paired with solar and wind farms, and used to store energy for buildings and homes In a partnership with Panasonic for developing lithium-ion batteries with little or no cobalt content, for the Model 3, Tesla's first mass-market car model

Key Insights

- Going ahead, major automotive manufacturers around the world are making a big commitment to EVs, with a view to consider the batteries as means of energy storage and one day sell back the electricity to the grid manufacturers
- Declining battery costs have positioned EVs for market success in the years to come, with lithium-ion batteries being the frontrunners

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