



Cygni Battery Swapping Technology for Electric Vehicle

India mulls battery swapping for electric vehicles as an alternative to set up charging stations as it looks to spur adoption of cleaner transport. 4G enabled, Smart Battery Pack and Lock Smart Vehicle Battery Charger Cloud Protocol (LS-VBCC) is available on Cygni batteries .The CAN bus and 4G interface of Cygni batteries makes it easier to monitor and communicate with VCU and Charger for intelligent swapping. Controlled charging at swapping stations will extend the battery life.



Li-Ion Battery for Loader Vehicles

Cygni Loader & E-Rickshaw batteries are high-capacity (5, 7.5 and 10kWh) Lithiumlon batteries available in a lightweight and compact design. Cygni's battery pack comes with a host of new features:

- Reserve Mode Function
- Multiple Temp Sensor-based Protection
- Faster Cell Balancing
- Ability to revive a deeply discharged battery
- Dynamic Overload Cut-Off
- GPS Enabled Tracking
- Remote Disconnect

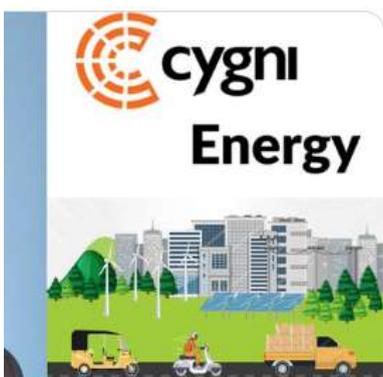
Hooray!!! Cygni Energy declared as the winner of 'Business Leadership: Manufacturing' at the EV STATE SUMMIT AWARDS 2022 - KARNATAKA.



Battery swapping policy needs to look into these points too

The much-awaited [draft policy](#) for the swappable batteries was released by NITI-Aayog a few weeks back. The policy has a lot of good interventions which are very important from the adoption perspective, but at the same time the policy skims over some of the important details which are critical. A few details are still left open. Read our perspective on the policy below:

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Cygni to install Gigafactory to produce 4,00,000 battery packs per annum in India

Cygni is setting up a greenfield Gigafactory, with a 1,200 MWh capacity and having the capability to produce about 4,00,000 battery packs a year. This facility will be a state-of-art manufacturing unit. Cygni will remain a chemistry-agnostic energy storage company and its endeavour is to remain up-to-date on the technology. Cygni believes both technology and scale are going to be important.

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2022 insights- Breakthrough in Indian Battery technology | Venkat Rajaraman



Lithium-ion battery picked up pace in the mid-1980s where three professors, John B. Goodenough, along with Stanley Whittingham and Akira Yoshio got Nobel Prize for inventing the lithium-ion battery. Basically, there are two predominant cell chemistries. One is LFP (Lithium Ferro Phosphate) and the other is NMC (Nickel, Manganese Cobalt) chemistries.

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Battery Swapping policy: The good and not so good aspects for EVs.

Currently, more than 50 percent of EV batteries in India are fitted with low-quality protection boards. Under the new swapping policy, such cheap hardware will go out of the door as the policy mandates smart BMS and monitoring for all swappable batteries. Read more below:

[Read Here](#)



Why Indian electric vehicles require batteries made in India

India is on the verge of a major transformation and at the heart of it is the automobile industry, with electric vehicles (EVs) swiftly becoming the country's favourite mode of transportation. EVs encompass a wide range of vehicles, including two-wheelers, three-wheelers (e-rickshaws and L5 loaders), four-wheelers, and electric buses.

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India Climate Tech 100

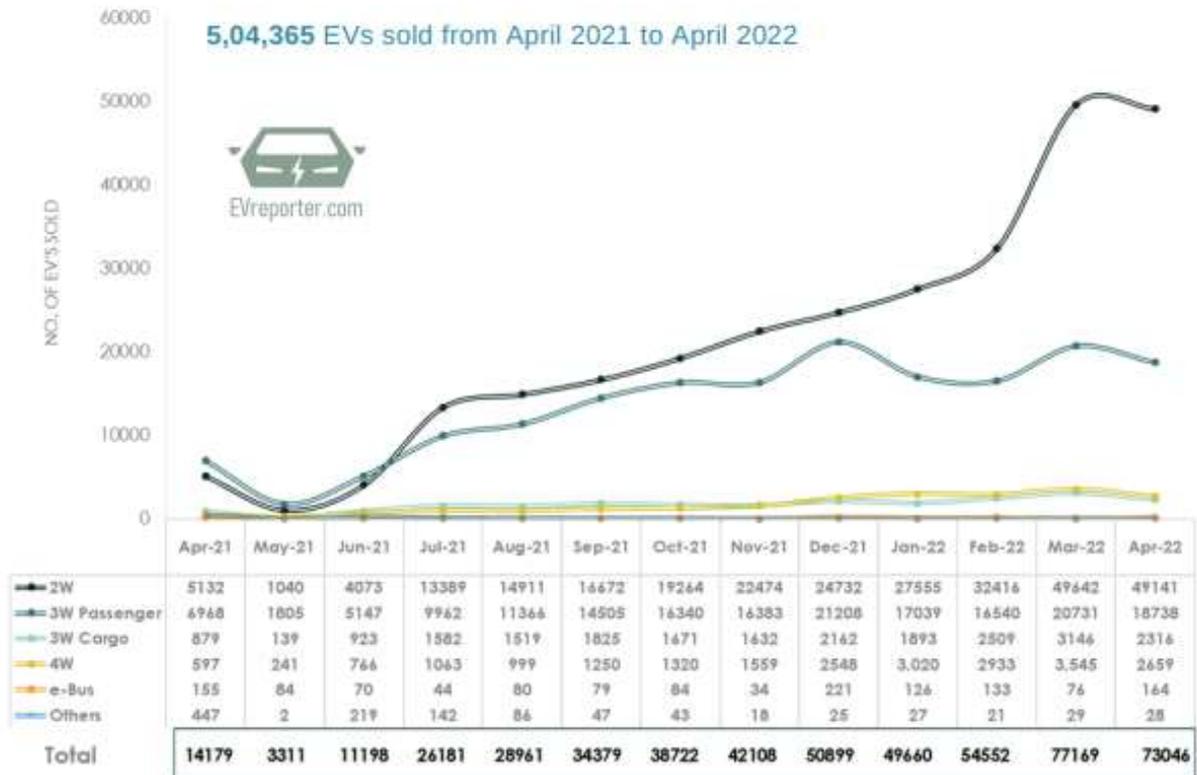
Congrats!!! Cygni is featured as one of the top Energy Storage company of the Nation in the list of 'Climate Tech 100' 2022 - by EAI – Energy Alternatives India.

Cygni got selected based on the following factors a) Inherent potential for the solution to provide significant decarbonisation b) Potential for the solution to scale c) Extent of differentiation and innovation compared to alternatives/substitutes d) Strength of the founding & core team.

[Check Here - Full List](#)



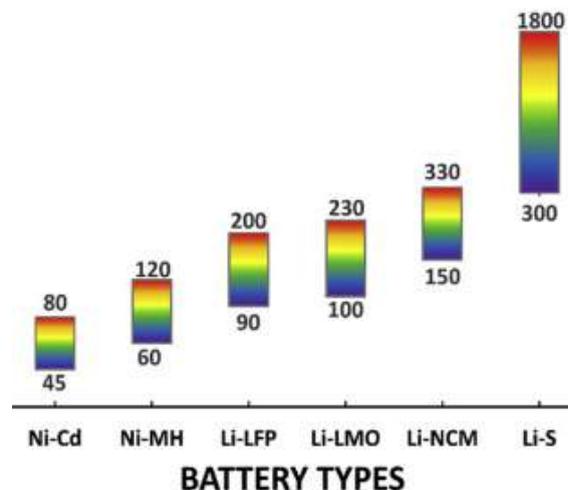
Category wise-Sales Trend from Apr 2021 to Apr 2022



Source: Vahan Dashboard. Data as per 1429 out of 1613 RTOs across 33 out of 37 state/UTs

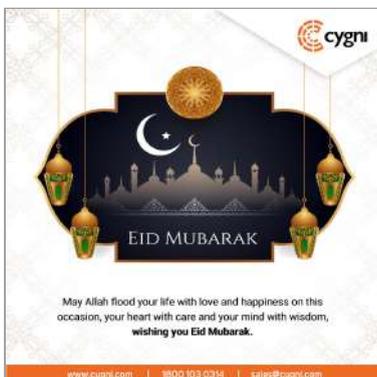
Connecting battery technologies for electric vehicles from battery materials to management

the state-of-the-art battery technologies (such as all-solid-state, silicon-based, lithium-sulphur, metal-air batteries, etc.). Battery major component materials, operating characteristics, theoretical models, manufacturing processes, and end-of-life management were thoroughly reviewed.



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Upcoming Activities- May 2022



EID UL FITR

Cygni will celebrate EID "Festival of Breaking the Fast" or Lesser Eid, is a religious holiday celebrated by Muslims worldwide that marks the end of the monthlong dawn-to-sunset fasting of Ramadan.

Celebration- All Hands Meet



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