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EV BATTERY . TECH



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BATTERY TECHNOLOGIES

MARKET OVERVIEW

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The Future Of Battery Tech Is Here

- Artificial Intelligence
- Battery Management Systems
- Real-time Monitoring
- Remote Maintenance
(Hardware and Software)
- Energy Storage Systems
- Smart Charging Systems
- Battery Recycling



Battery Demand is Sky-Rocketing

56 million Electric Vehicles by 2040.

- Bloomberg.

Energy Storage Capacity in the USs is expected to grow twelve (12) times by 2024.

- Wood Mackenzie Energy Storage Service.

Energy Storage Capacity in developed countries is expected to grow forty (40) times from 2GW to 80GW.

- World Bank.

The total energy storage market value in the U.S. alone will be \$5.3 billion by 2024.

- Wood Mackenzie Energy Storage Service.

Battery Management System Market Worth \$12.6 Billion by 2024.

- Bloomberg.

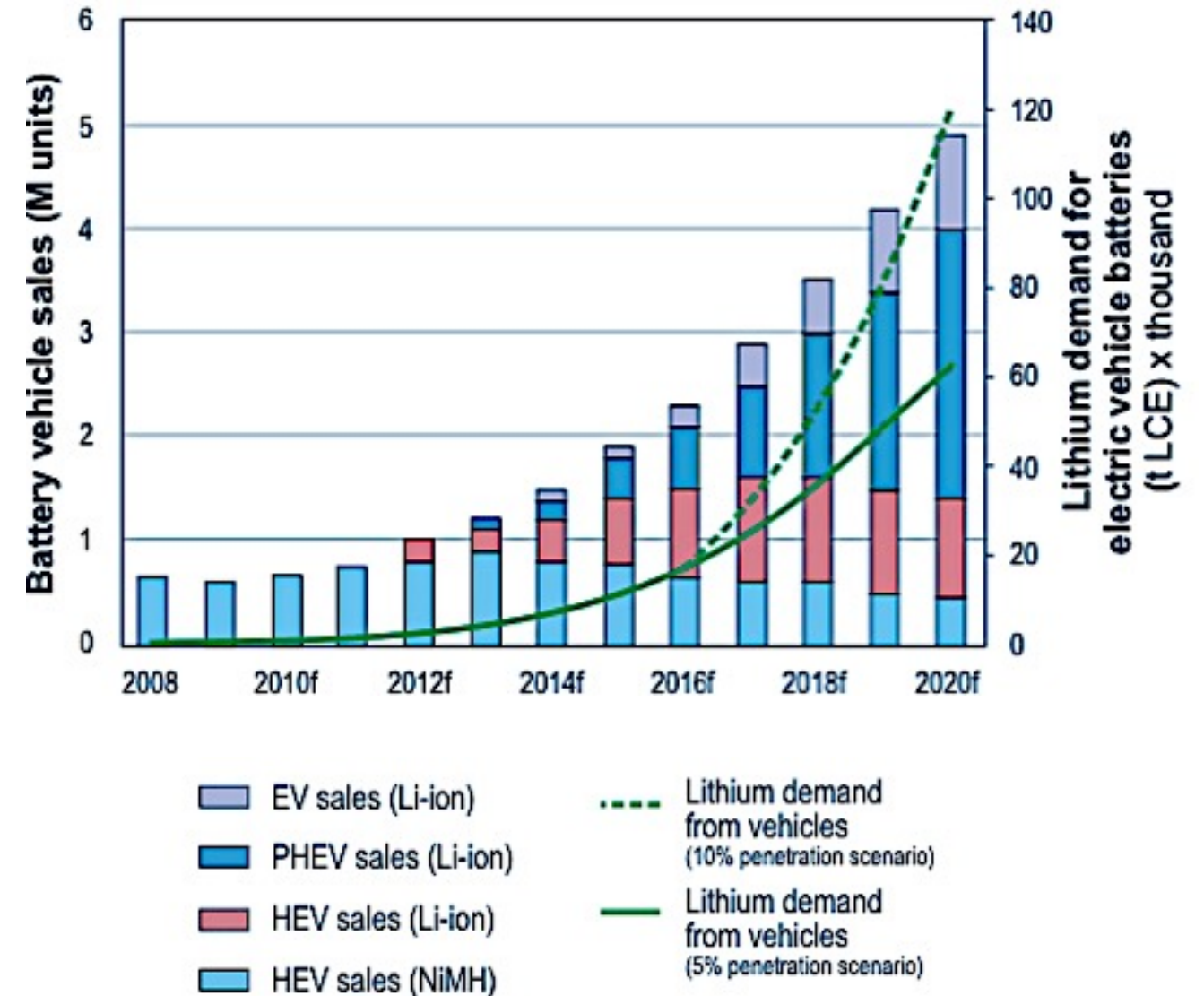


With the increase in use of Renewable Energy and Electric Vehicles globally, the demand for Battery Storage and Technologies is growing exponentially.

Current Lithium-ion Battery Tech Is Not Sufficient

- Batteries require costly **lab-based testing** to effectively **diagnose issues**.
- **Costly Replacement** is the norm as testing is long, expensive and inefficient.
- **Used batteries** are **terrible** for the **Environment**.
- **EV battery warranties** cover 8 years and **cost** companies **millions**.
- Market has started to focus on *better* and *longer lasting* batteries.

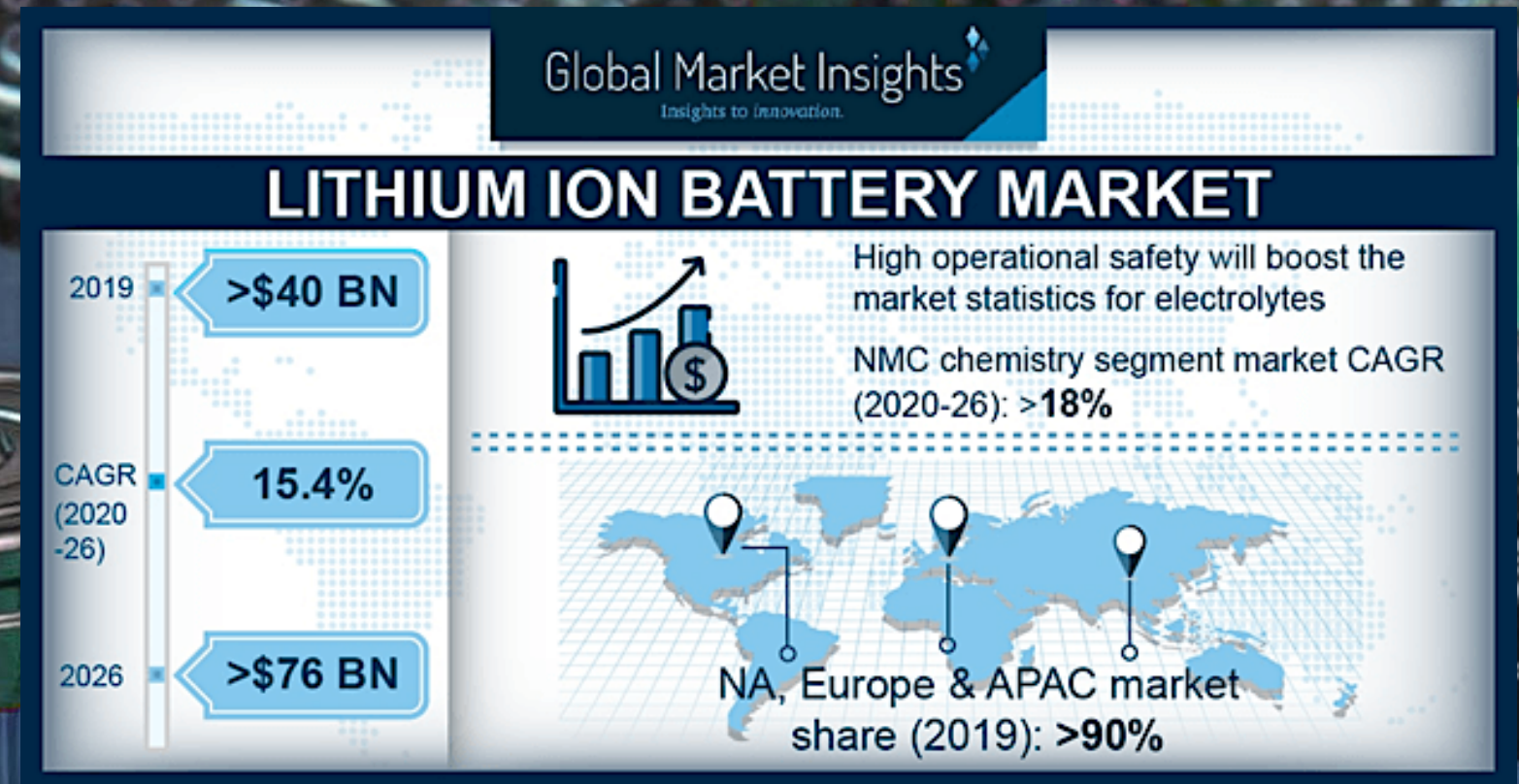
World: Electric Vehicle Production & Lithium Demand for Electric Vehicle Batteries 2008 - 2020



Source: Roskill

To Meet The Demands, Major Technological Advancements Are Required

- Exponential battery production
- More efficient batteries
- A Recycling System for Batteries
- Larger Storage of Energy
- Longer Battery Life
- Faster and More efficient charging
- Better Monitoring Systems
- Better Maintenance Systems





BATTERY TECHNOLOGIES

DISRUPTIVE TECHNOLOGY

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Artificial Intelligence Based

- Applies more than half a decade of data from the worlds largest market.
- Hundreds of Thousands of Electric Vehicles.
- Applied and interfaced artificial intelligence with a proprietary Battery Management System that “learns” and improves in real time.
- The artificial intelligence algorithm of the neural network analyzes the data.
- AI Integrated BMS system is designed specifically for the EV & ESS markets.
- Fully scalable to any BMS application.



Patented Battery Management System (BMS)

Longer Life

- Real time power routing options to avoid and minimize damage.
- Exclusion and isolation of individual damaged cells.
- Re-routing to exclude those cells, with a notice for routine maintenance to repair or replace.

More Efficient Battery Use

- Absolute differentiation of individual cell issues in real time.
- Constant power optimization and flow control.
- Life extension, charge extension, massive cost savings.

More Accurate Reading

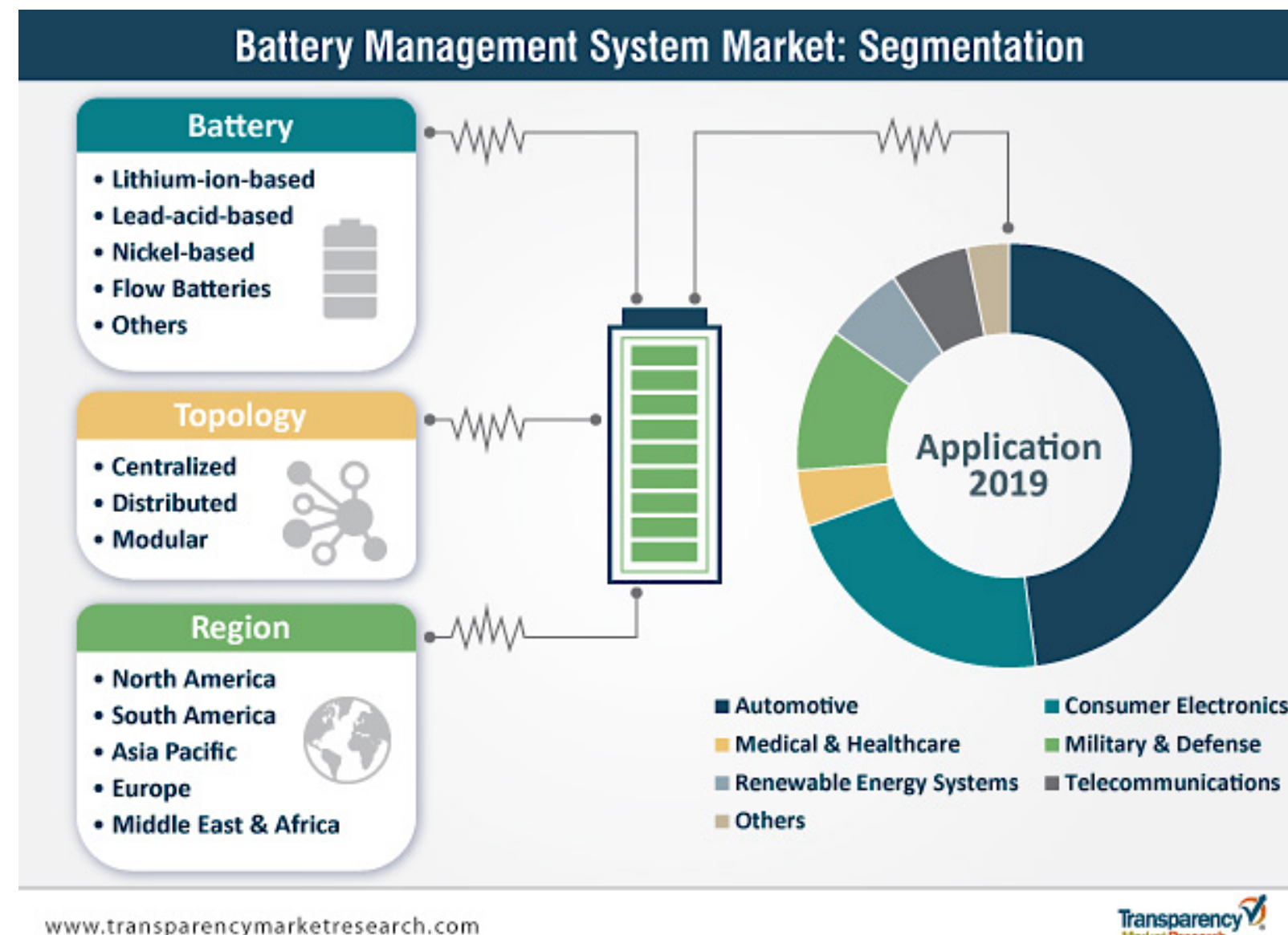
- Accurate, reliable (patented) failure prediction.

Real-time Monitoring

- Constant observance and maintained oversight of battery in real time.

Remote Maintenance

- Multiple patents protecting industry first remote maintenance on any battery using our BMS, ESS or OEM offering.



Smart BMS Using AI

- Multiple patents protecting industry changing Artificial Intelligence for **more accurate SOC and SOH values**
- Multiple patents protecting industry first **Active Equalization** technology extending battery life.
- **AI algorithm** of the **neural network** to determine **exactly** which cells to replace.
- User never sees a degradation in **performance**
- AI automatically isolates and reroutes around problem cells to **ensure optimal performance**.
- Detailed **Real Time cloud-based data** on every battery is captured and analyzed by AI.
- AI “**learns**” and **updates as battery data** meta-crunches efficiencies.
- Patented BMS for electric vehicles with Autosa platform for automotive functional safety.
- Patented Echelon Utilization: Using active balancing and capacity algorithms enabling the re-use of retired batteries



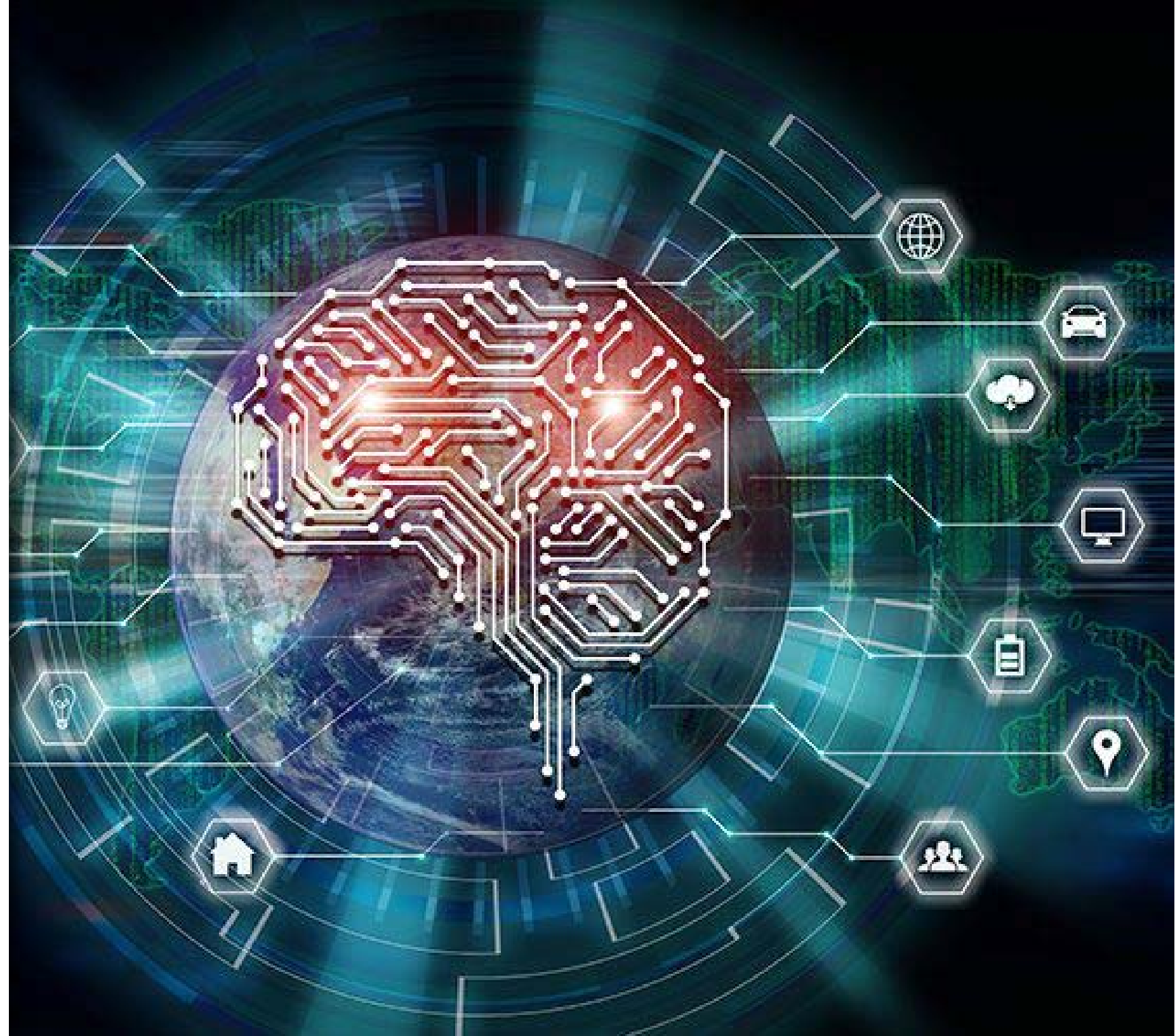
Real Time Monitoring

Our system allows **real time monitoring** with **advanced review** of individual **cell** degradation.

The system then **applies AI to the data** collected to **improve BMS technology**.

Real time Monitoring allows for:

- Less downtime
- More efficiency
- Instant notification of issues
- Remote repair of hardware and software
- Saves maintenance cost and human cost
- AI and building of even greater intelligence over time
- Longevity of usage of each battery



Our Technology vs. Existing Batteries

EV BATTERY TECH	EXISTING MARKET
Individual cell replacement within battery pack	Replace and dispose of entire battery pack
Repair and real-time monitoring of each cell within the entire battery pack.	Replace and dispose of entire battery pack
Remote monitoring	Onsite professional computer hookup
Remote maintenance	Onsite professional maintenance
Artificial Intelligence used to improve systems	No Artificial Intelligence
Real-time collection of Meta Data	No collection
Life extension due to smart BMS which works and repairs cells	End of Battery life when cells go offline



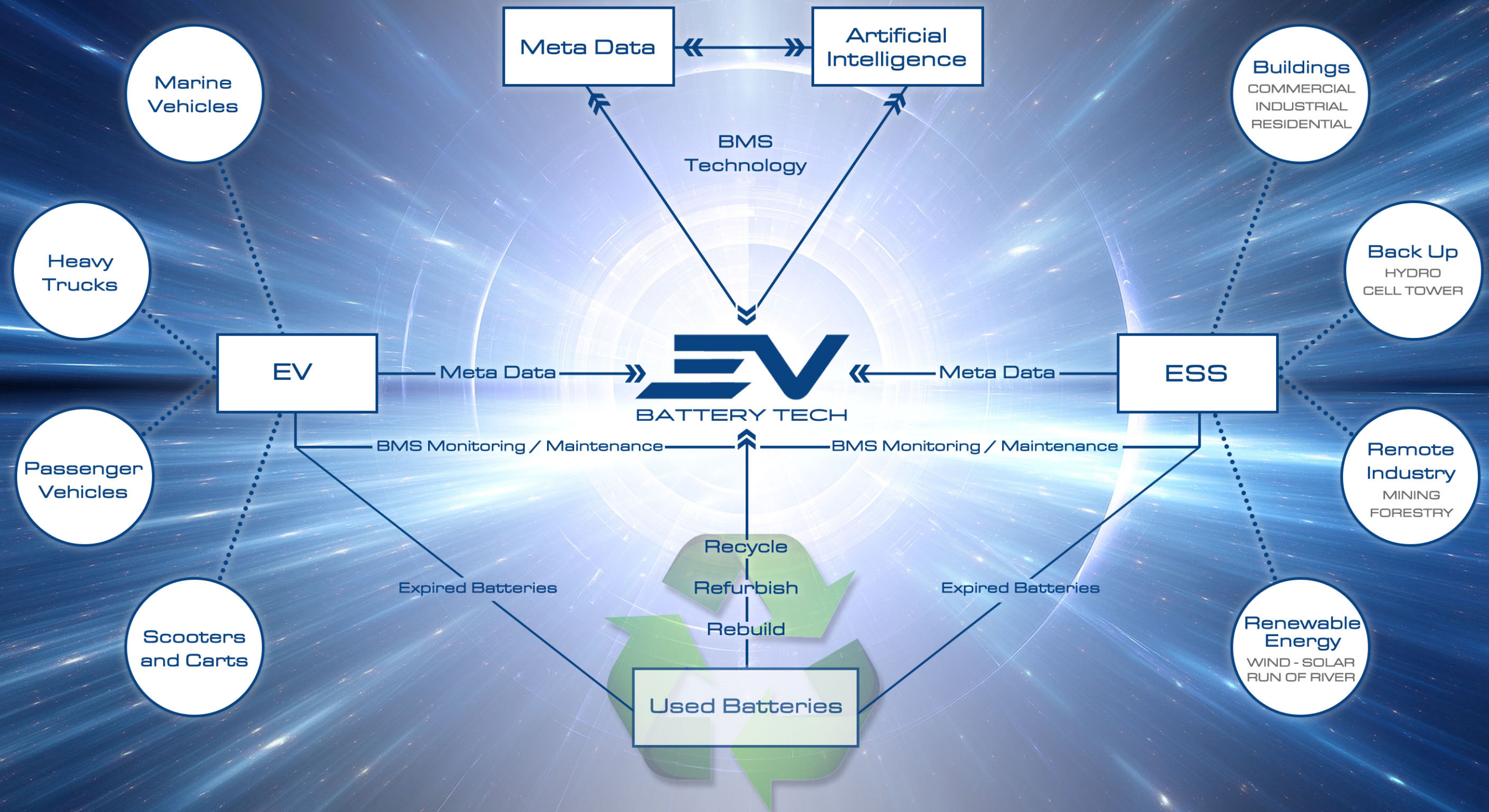


BATTERY TECHNOLOGIES

GAME-CHANGING BATTERY ECO SYSTEM

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Powered By Recycling!

Exponential growth in **e-waste**. Over 50 MILLION tonnes in 2020
- *Reuters*

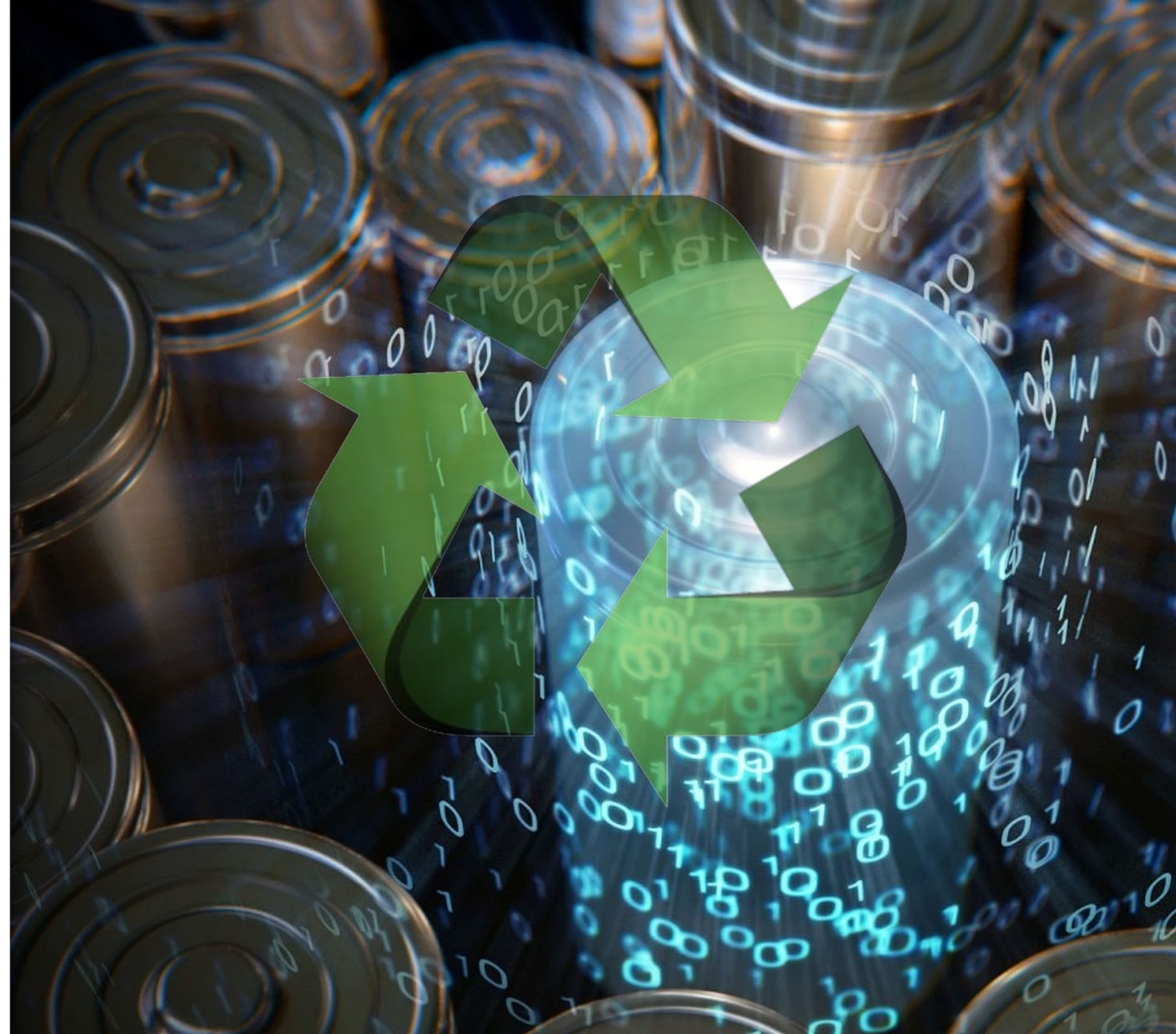
There is a tsunami of e-waste!
- *United Nations*

Expected to more than **double** by 2050.
- *Reuters*

In over 120 countries, annual **e-waste EXCEEDS** their annual GDP.
- *World Economic Forum*

Only **20%** of e-waste is **recycled**.
- *Global E-Waste Report*

EV Battery Tech uses used/recycled batteries in all our solutions.



Electric Vehicles

- Longer Life
- More accurate readings
- Real-time monitoring
- Remote maintenance of hardware and software
- Target Markets:
 - *Cars*
 - *Trucks*
 - *Scooters*
 - *Marine*



Smart Energy Storage Systems

- Renewable Energy
- Buildings
- Back up systems
- Remote Industrial Operations



Meta Data

- Meta Data is a Mega Billion Dollar Market.
- Data collected will become one of the most valuable aspects of the business.
- The Company gathers meta data in real time with each client.
- Data Collection on each battery in EV and ESS solutions.
- The Data combined with AI increases the performance.
- The Data combined with a comprehensive analysis assists with future battery design.
- Data Collection on each battery in EV and ESS solutions



Strategic Partners

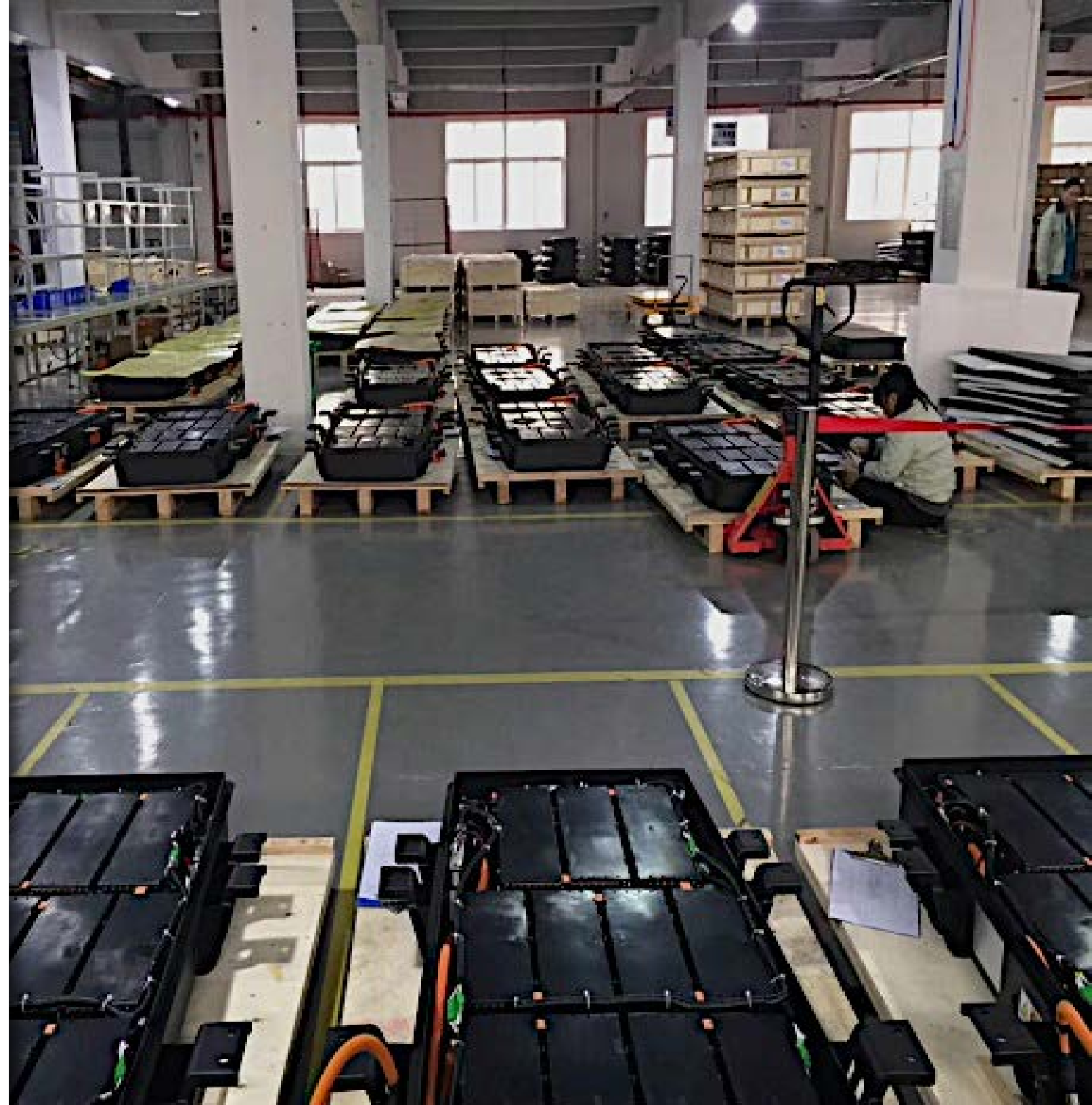
Rich Power

Rich Power is recognized as a global leader in BMS and ESS technology and innovation.

Full facility automation Production and research with ISO9001/TS16949 quality management system.

70 + patents and software copyrights including 7 authorized invention patents.

More than 20 utility model authorizations, and more than 10 software copyrights directly related to ESS and BMS.





BATTERY TECHNOLOGIES

"SMART" ESS SOLUTIONS

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Renewable Energy ESS

- Wind
- Solar
- Run of River
- Tidal



Building ESS

- **Commercial**
- **Industrial**
- **Residential**



Remote Location ESS

Back Up Systems:

- Cell Towers
- Hydro Towers

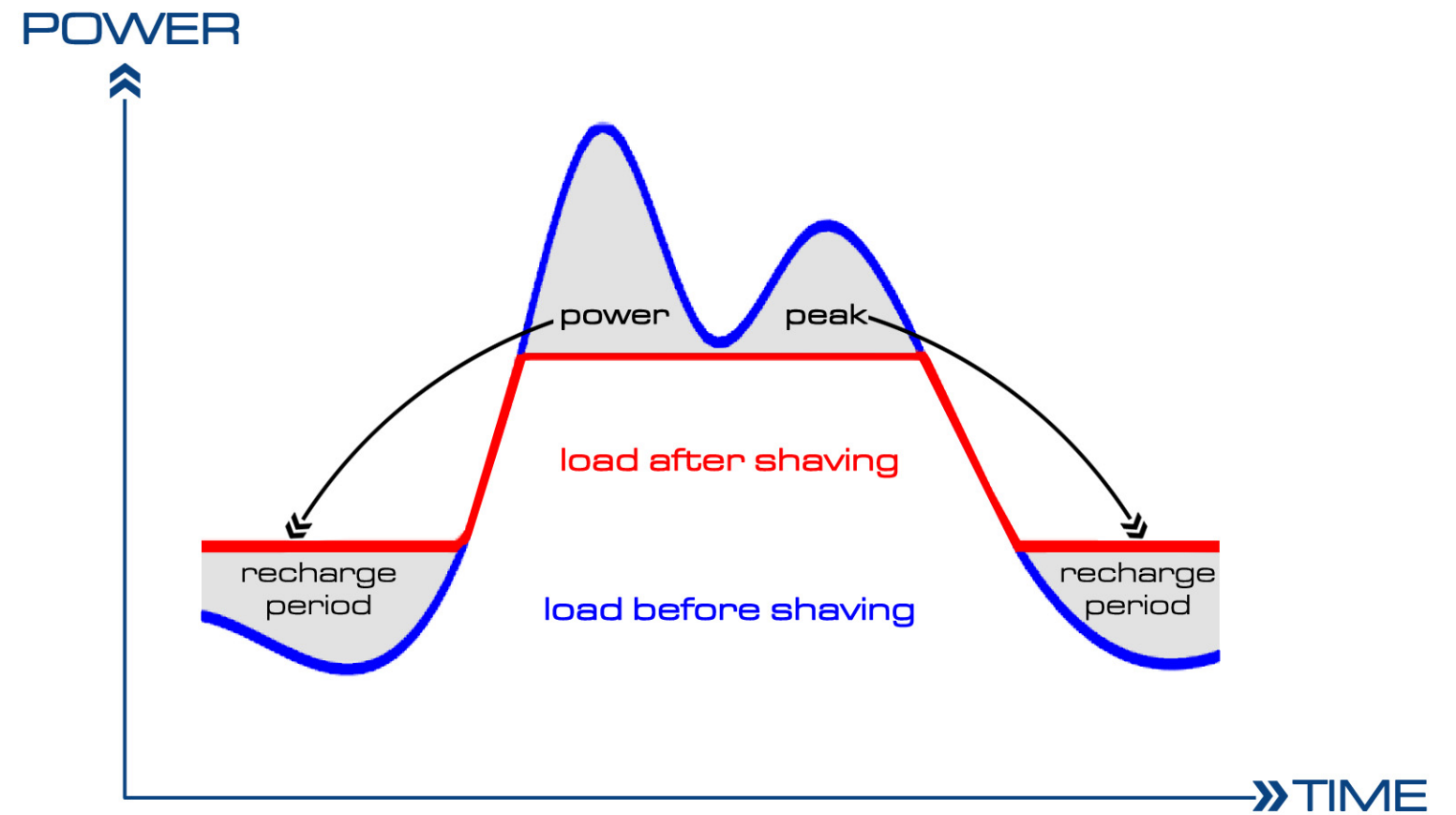
Remote Industrial:

- Mining
- Forestry
- Parks
- Fishing



Dynamic Peak Shaving

- Renewable Energy
- Buildings
- Remote Industrial Operations
- Smart Charging Stations

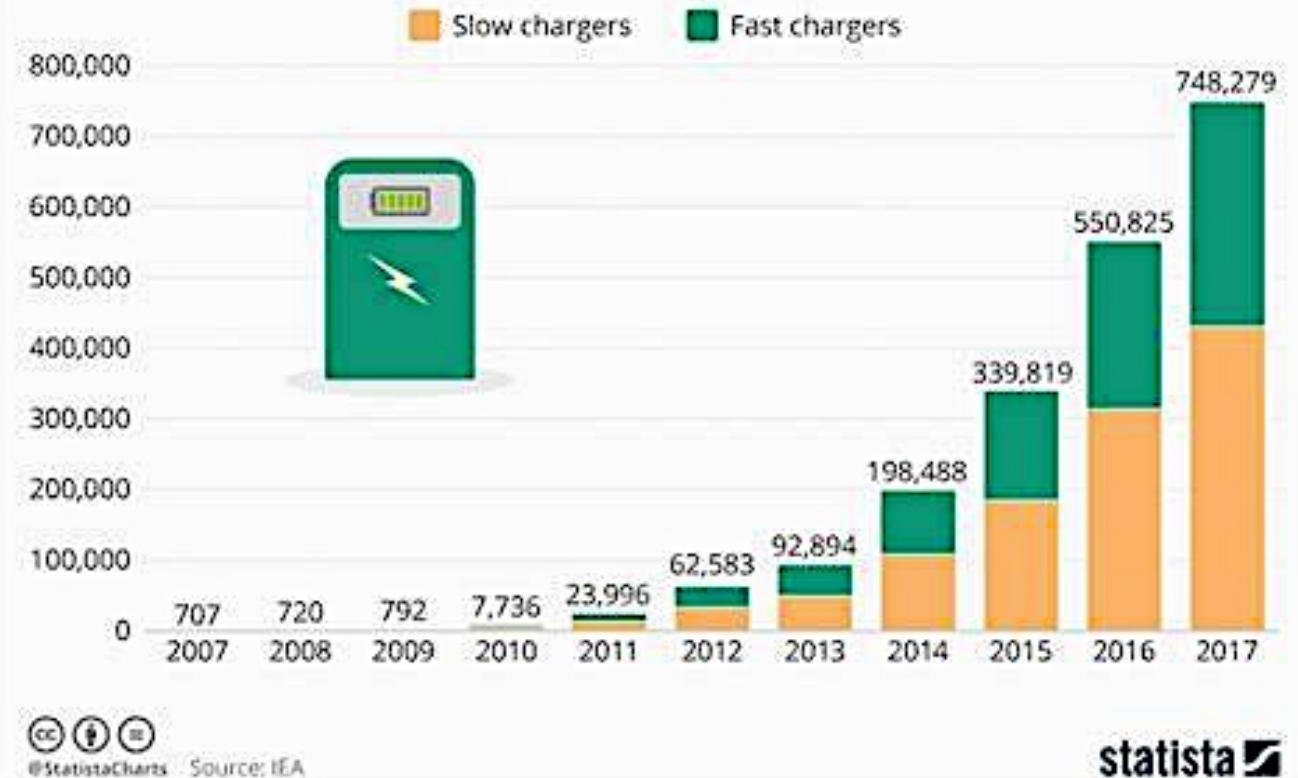


"Smart" vs "Dumb" Charging Stations

EV BATTERY TECH	EXISTING CHARGING STATIONS
Draw from <u>Battery</u> during peak rates	Draw from <u>Grid</u> during peak rates
Batteries <u>recharge</u> during off-peak hours	No recharge during off peak
Remote monitoring	No Monitoring
Meets Smart Grid integration guidelines	Does not meet guidelines
Can sell power back to Grid	Cannot sell power back to Grid
Real-time collection of Meta Data	No collection

E-Car Charging Infrastructure Becoming Mainstream

Global publicly accessible electric vehicle chargers by type



The global electric vehicle charging station market size is expected to surpass over USD 39.2 billion by the end of 2027 and witness a compound annual growth rate (CAGR) of 40.7% from 2020 to 2027.