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EV BATTERY . TECH



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BATTERY TECHNOLOGIES

MARKET OVERVIEW

市場概覽

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電池技術的未來就在這裡

- 人工智能
 - 電池管理系統
 - 實時監控
 - 遠程維護
(硬件和軟件)
 - 儲能系統
 - 智能充電系統
 - 電池回收
-



電池需求激增

到2040年，將有5600萬輛電動汽車。

- 彭博社

美國的儲能能力到2024年有望增長
十二 (12) 倍。

- Wood Mackenzie Energy Storage Service.

預計發達國家的儲能能力將從2吉瓦增長四十 (40)
倍至80吉瓦。

- 世界銀行。

到2024年，僅美國的儲能市場總值就將達到\$53億。

- Wood Mackenzie Energy Storage Service.

到2024年，電池管理系統市場價值將達到\$126億。

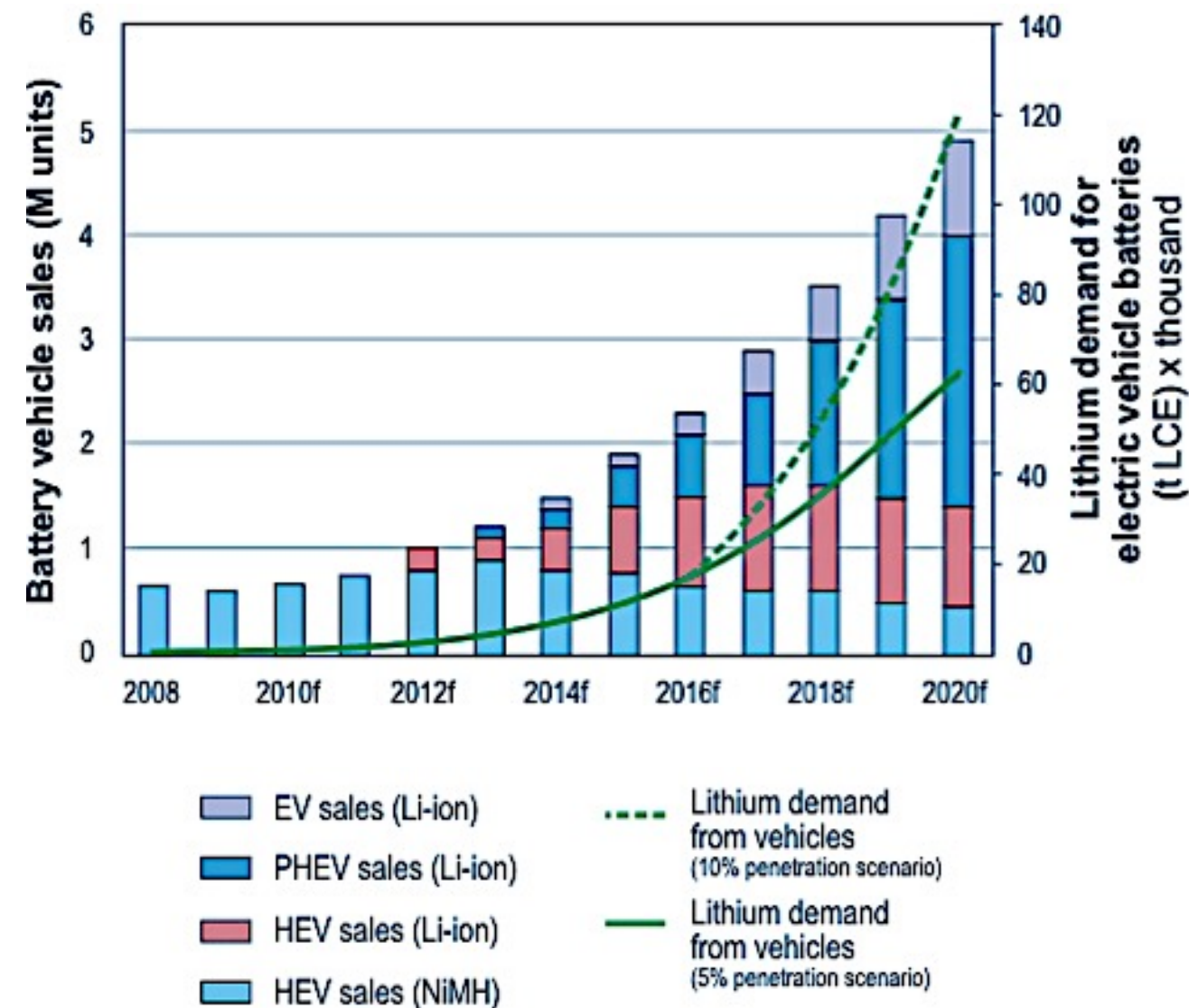
- 彭博社。

隨著全球可再生能源和電動汽車使用的增加，對蓄電池組和技術的需求呈指數增長。

當前的鋰離子電池技術不足

- 電池需要昂貴的**基於實驗室的測試**才能有效地**診斷問題**。
- 因為測試時間長、價格昂貴且效率低下，所以**昂貴更換**是常態。
- **用過的電池對環境不利**。
- **電動汽車的電池保修期為8年**，使公司損失了數百萬。
- 市場已開始關注**更好並且更持久的電池**。

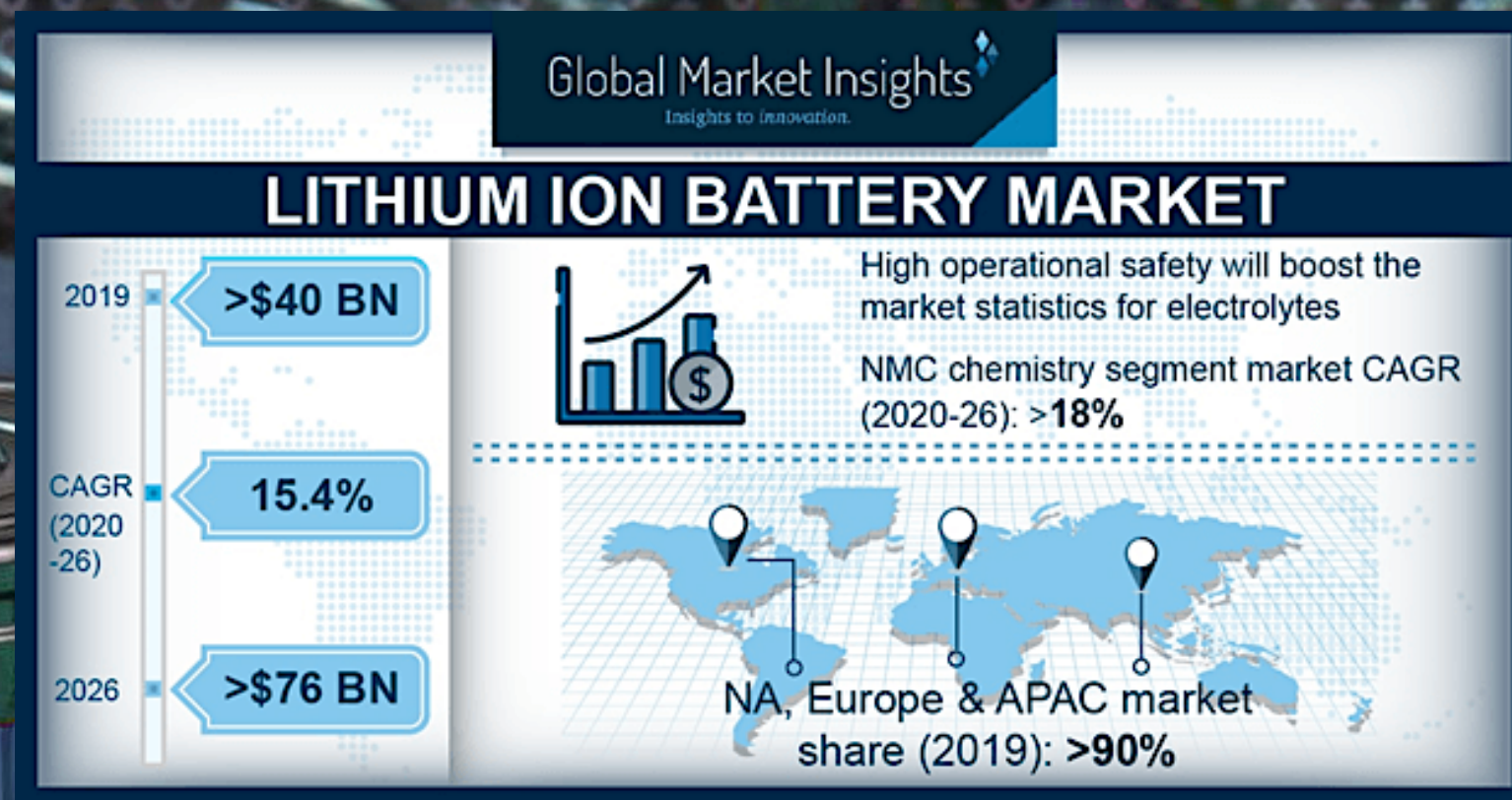
世界：2008-2020年電動汽車產量和電動汽車電池對鋰的需求



Source: Roskill

為了滿足需求，需要重大的技術進步

- 指數級電池生產
- 更高效的電池
- 電池回收系統
- 更大的能量存儲
- 電池壽命更長
- 更快更有效地充電
- 更好的監控系統
- 更好的維護系統





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DISRUPTIVE TECHNOLOGY

突破性技術

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基於人工智能

- 應用來自全球最大市場的超過五年的數據。
- 成千上萬的電動汽車。
- 應用人工智能並與專有的電池管理系統連接起來，可以“學習”並實時改進。
- 神經網絡的人工智能算法分析數據。
- 人工智能集成的電池管理系統是專門為電動汽車和能源備用系統市場設計的。
- 完全可擴展到任何電池管理系統應用程序中。



專利電池管理系統 (BMS)

壽命更長

- 實時電源佈線選項，可避免並最大程度地減少損壞。
- 排除和隔離單個受損的電池單體。
- 重新路由以排除這些電池單體，並發出通知以進行日常維護、修理或更換。

電池使用效率更高

- 實時區分各個獨立電池單體的問題。
- 恒定功率優化和流量控制。
- 延長壽命、延長電量、節省大量成本。

更準確的讀數

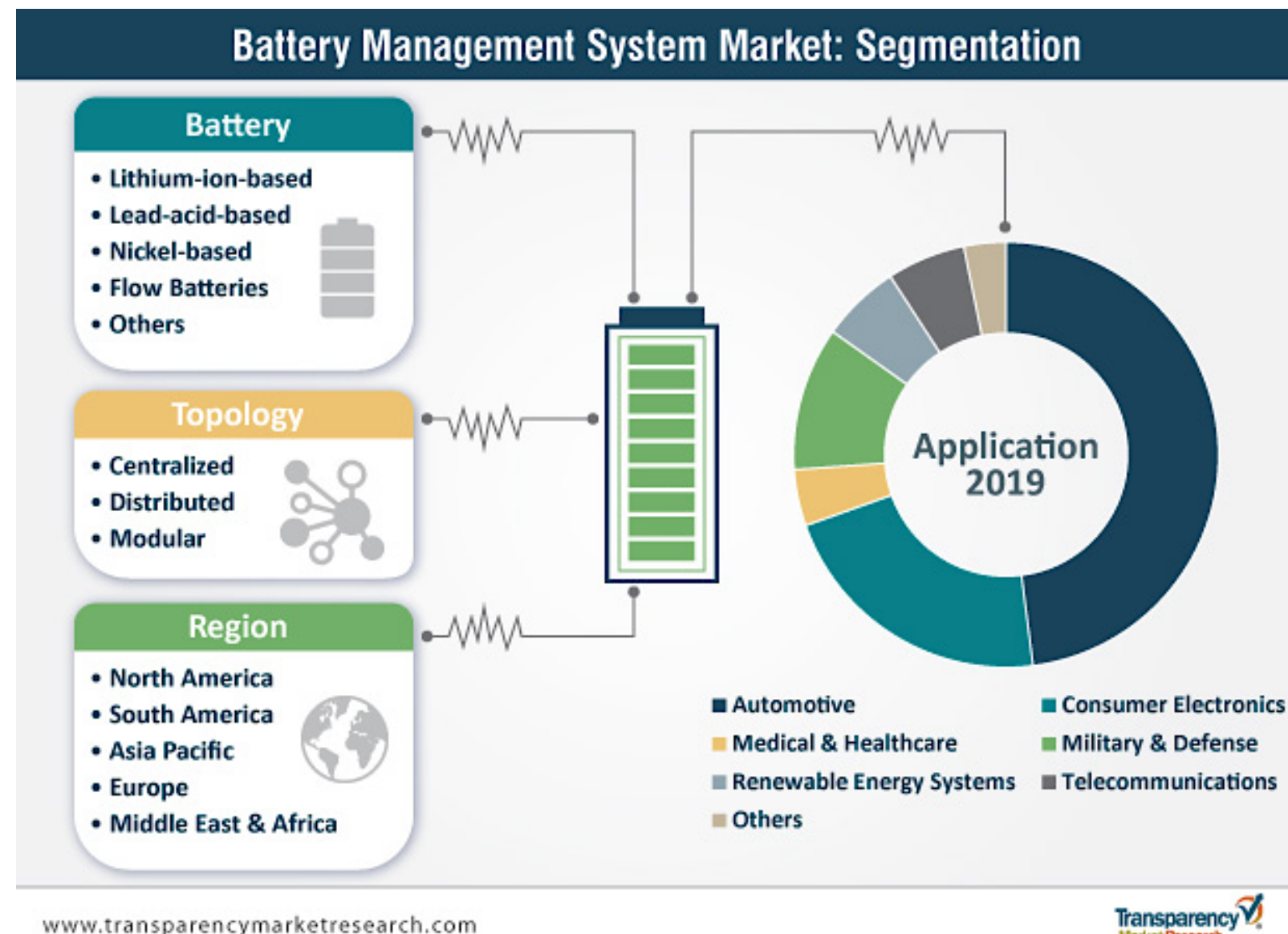
- 準確、可靠（專利）的故障預測。

實時監控

- 不斷觀察並保持對電池的實時監督。

遠程維護

- 對使用我們的電池管理系統、能源備用系統或OEM產品的任何電池實施有多項專利保護的業界首創的遠程維護。



使用人工智能的智能電池管理系統

- 多項專利保護行業不斷變化的人工智能，以提供更準確的荷電狀態和電池健康狀態值
- 多項專利保護的業界首創的主動均衡技術，可延長電池壽命。
- 神經網絡的人工智能算法可精確確定要替換的電池單體。
- 用戶再也看不到性能下降
- 人工智能自動隔離有故障的電池單體並在周圍重新佈線，以確保最佳性能。
- 人工智能捕獲並分析每個電池上詳細的實時基於雲的數據。
- 人工智能“學習”並更新電池數據元運算效率。
- 電動汽車專利電池管理系統和Autosa平臺保障汽車功能安全。
- 專利梯隊利用：使用主動平衡和容量算法，可以重複使用報廢的電池



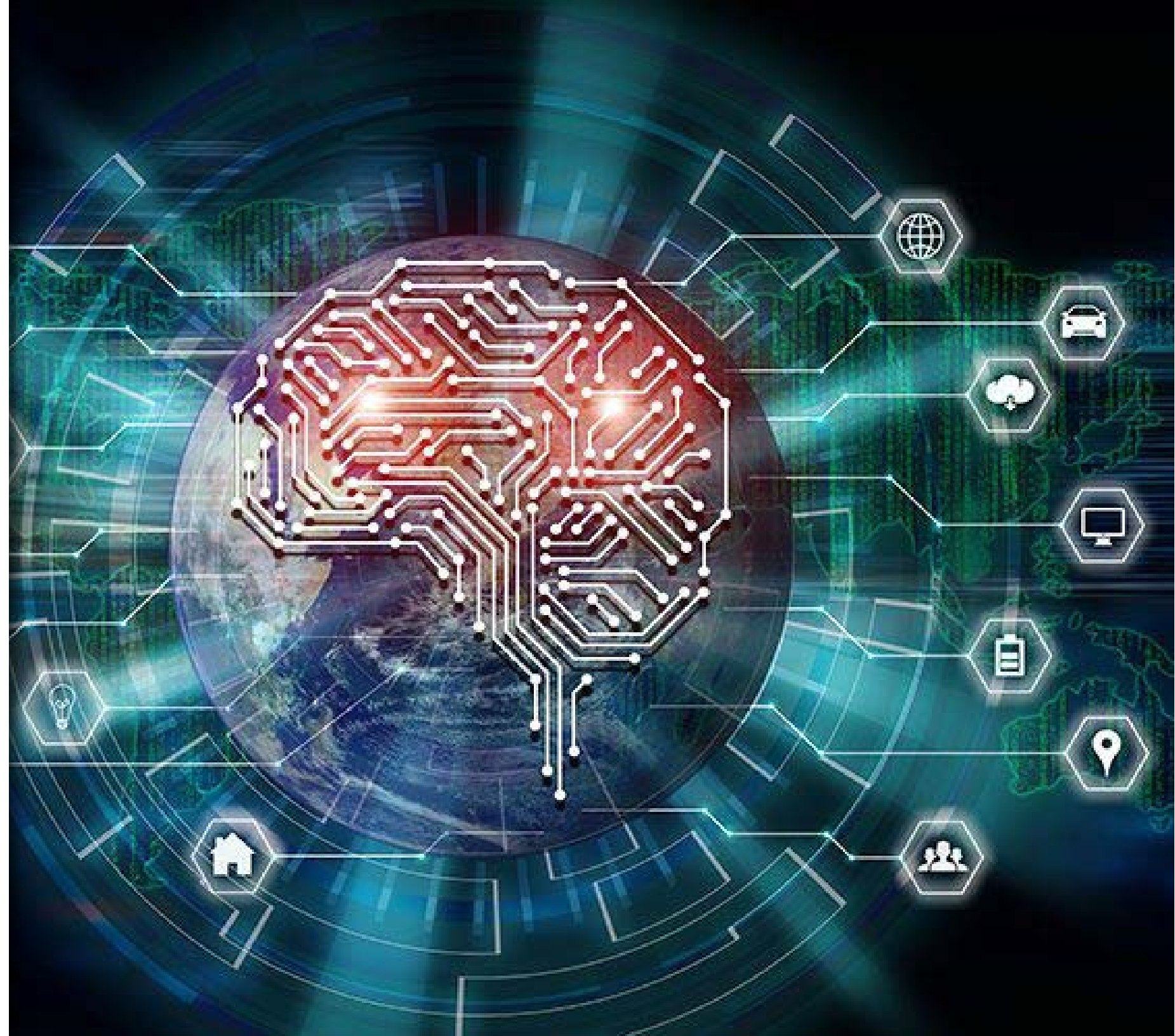
實時監控

我們的系統進行**實時監控**並對單個**單體**降解作**高級評估**。

然後，系統將**人工智能**應用於收集的**數據**來改進**電池管理系統**的技術。

實時監控能：

- 減少停機時間
- 效率更高
- 即時通知問題
- 遠程修復硬件和軟件
- 節省維護成本和人力成本
- 隨著時間的流逝，人工智能形成更大的智能
- 每個電池使用壽命長



我們的技術與 現有電池比較

EV Battery Tech	現有市場
電池組中的單個電池單體更換	更換並丟棄整個電池組
維修和實時監控整個電池組中的每個電池單體。	更換並丟棄整個電池組
遠程監控	現場專業電腦連線
遠程維護	現場專業維修
用人工智能來改善系統	沒有人工智能
實時收集元數據	不收集
智能電池管理系統工作和修復電池單體，壽命得以延長	電池單體離線時，電池壽命終止





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GAME-CHANGING BATTERY ECO SYSTEM

顛覆性的電池生態系統

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回收利用！

電子廢物呈指數增長。2020年超過5000萬噸

- 路透社

有電子垃圾的海嘯！

- 聯合國

預計到2050年將增加**一倍**以上。

- 路透社

在120多個國家/地區中，每年的**電子垃圾**超過了其年度GDP。

- 世界經濟論壇

僅**20%**的電子垃圾被回收。

- 全球電子廢物報告

EV Battery Tech在我們所有的解決方案中都使用廢舊電池。



電動汽車

- 壽命更長
- 更準確的讀數
- 實時監控
- 遠程維護硬件和軟件
- 目標市場：
 - 汽車
 - 卡車
 - 踏板車
 - 船舶



智能儲能系統

- 再生能源
- 建築
- 備份系統
- 遠程工業運作



元數據

- 元數據是一個巨大的十億元的市場。
- 收集的數據將成為業務最有價值的方面之一。
- 公司為每個客戶實時收集元數據。
- 在電動汽車和能源備用系統解決方案中為每個電池收集數據。
- 結合人工智能的數據能提高性能。
- 數據與全面的分析相結合，有助於將來的電池設計。
- 在電動汽車和能源備用系統解決方案中為每個電池收集數據



戰略合作夥伴

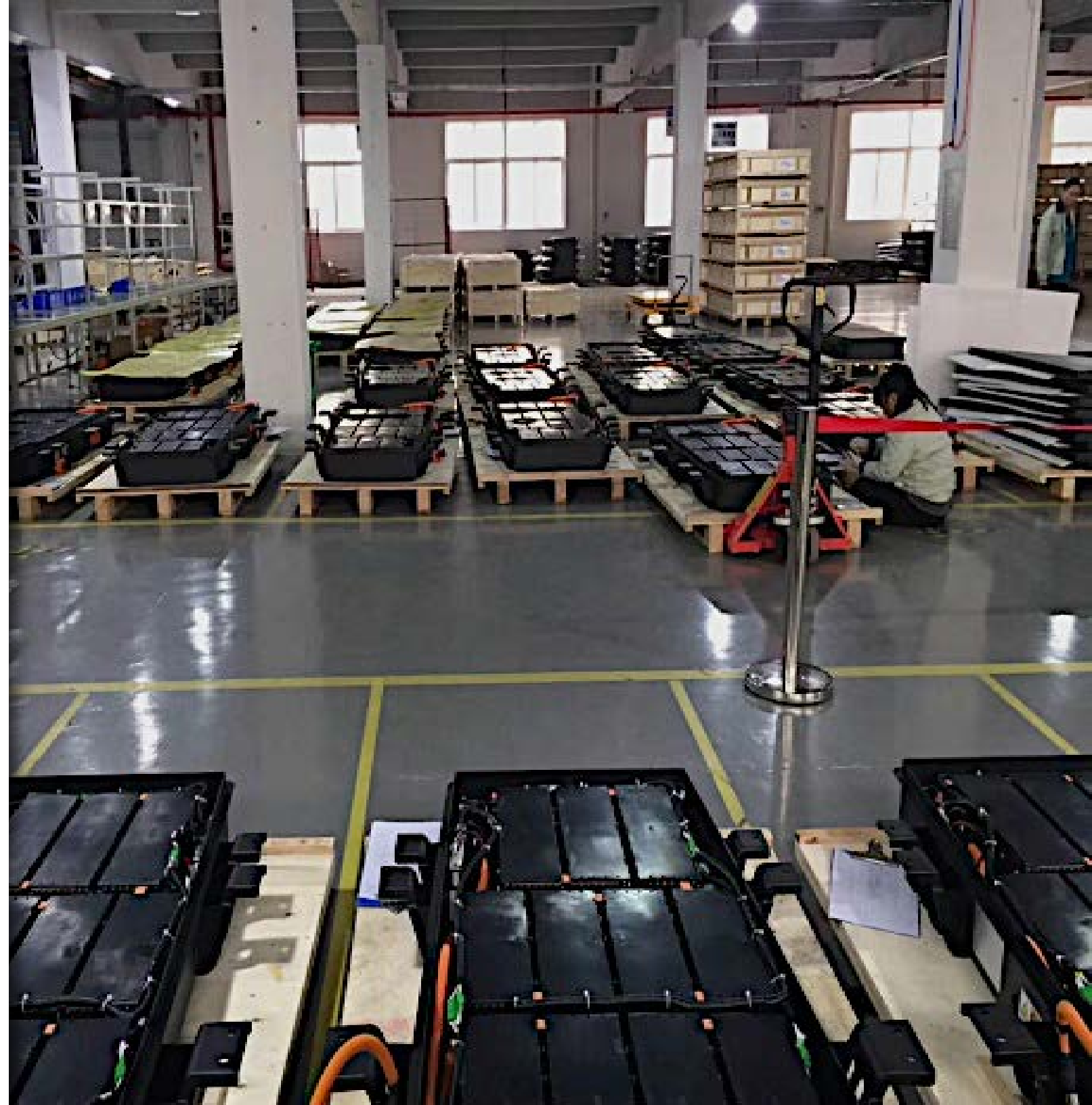
Rich Power

Rich Power被公認為電池管理系統和能源備用系統技術與創新的全球領導者。

通過IS9001/TS16949質量管理體系，全廠自動化生產和研究。

70多項專利和軟件版權，包括7項授權的發明專利。

與能源備用系統和電池管理系統直接相關的20多個實用型號授權和10多個軟件版權。





BATTERY TECHNOLOGIES

“SMART” ESS SOLUTIONS

“智能的” 能源備用系統解決方案

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可再生能源的能源備用系統

- 風能
- 太陽能
- 徑流式水能
- 潮汐能



建築能源備用系統

- 商業
- 工業
- 住宅



遠程能源備用系統

備份系統：

- 信號塔
- 水電塔

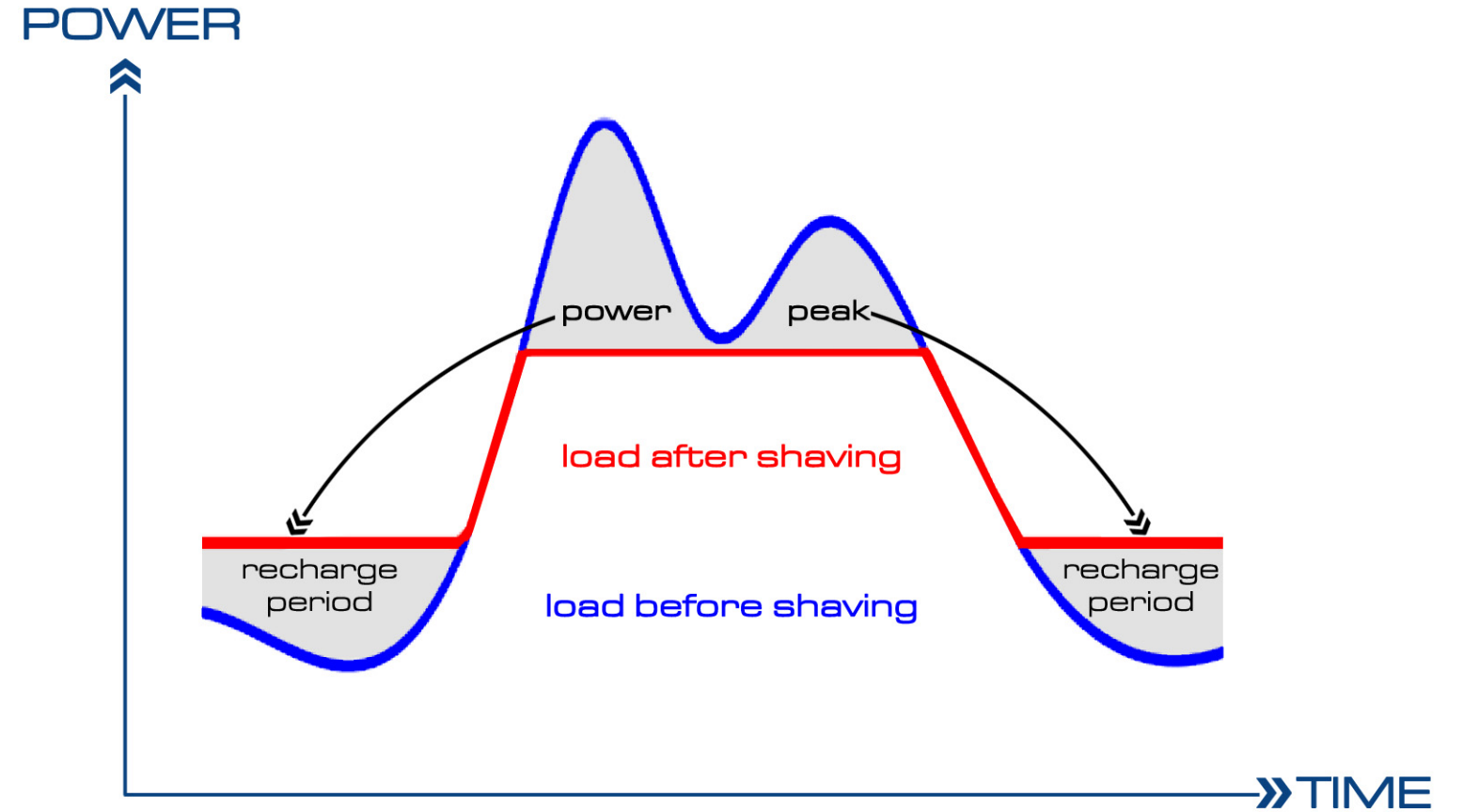
遠程工業：

- 礦業
- 林業
- 公園
- 漁業



動態高峰調節

- 再生能源
- 建築物
- 遠程工業運營
- 智能充電站

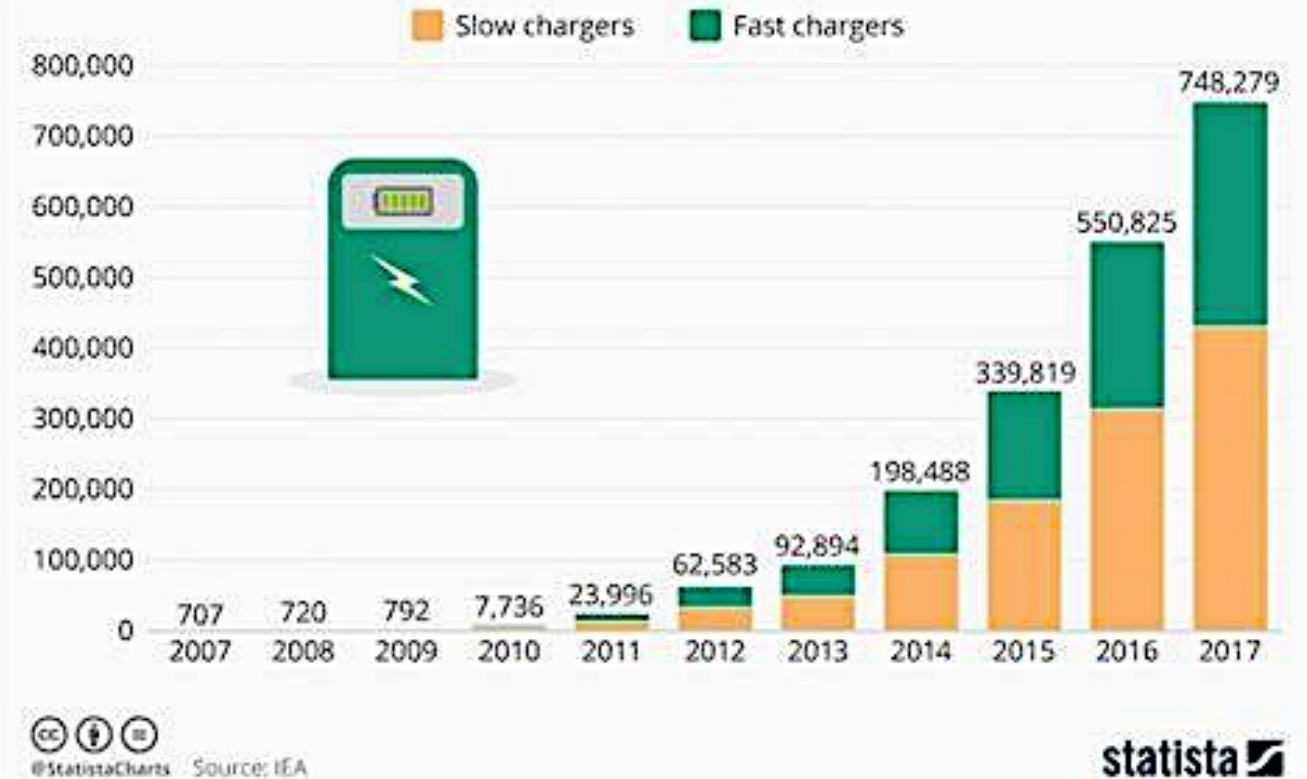


“智能” 與 “非智能” 充電站

EV BATTERY TECH	現有充電站
在用電高峰期用電池充電	在用電高峰期用電網充電
電池在非高峰時間充電	非高峰時段不充電
遠程監控	無監控
符合智能電網集成準則	不符合準則
可以將電力賣回電網	無法將電力賣回電網
實時收集元數據	不收集

E-Car Charging Infrastructure Becoming Mainstream

Global publicly accessible electric vehicle chargers by type



到2027年底，全球電動汽車充電站市場規模預計將超過392億美元，並且從2020年到2027年，複合年增長率（CAGR）為40.7%。