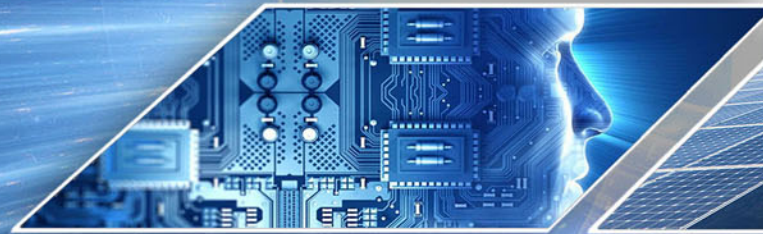


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EV BATTERY . TECH

EV BATTERY TECHNOLOGIES



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Important factors that could cause actual results to differ materially from expectations include, without limitation: changes to business, economic, and capital market conditions; the risks associated with foreign operations; current or future laws or regulations and new interpretations of existing laws or regulations; market conditions and the demand and pricing for the products the Company markets; relationships with customers and business partners, in particular RichPower; the Company’s ability to market products that meet customers’ needs in a timely manner; counterparty risk; the Company’s ability to attract, retain and motivate qualified personnel; the Company’s ability to compete successfully with existing and future competitors; the risk that the RichPower technology will not succeed in achieving the results that the Company believes it will; RichPower’s ability to maintain and enforce its intellectual property rights and to develop and patent new competitive intellectual property; the Company’s ability to manage working capital and obtain additional financing on reasonable terms or at all; and the Company’s ability to complete perform its obligations under the RichPower Agreement.

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BATTERY TECHNOLOGIES

MARKET OVERVIEW

市场概览

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电池技术的未来就在这里

- 人工智能
- 电池管理系统
- 实时监控
- 远程维护
(硬件和软件)
- 储能系统
- 智能充电系统
- 电池回收



电池需求激增

到2040年，将有5600万辆电动汽车。

- 彭博社

美国的储能能力到2024年有望增长
十二 (12) 倍。

- Wood Mackenzie Energy Storage Service.

预计发达国家的储能能力将从2吉瓦增长四十 (40)
倍至80吉瓦。

- 世界银行。

到2024年，仅美国的储能市场总值就将达到\$53亿。

- Wood Mackenzie Energy Storage Service.

到2024年，电池管理系统市场价值将达到\$126亿。

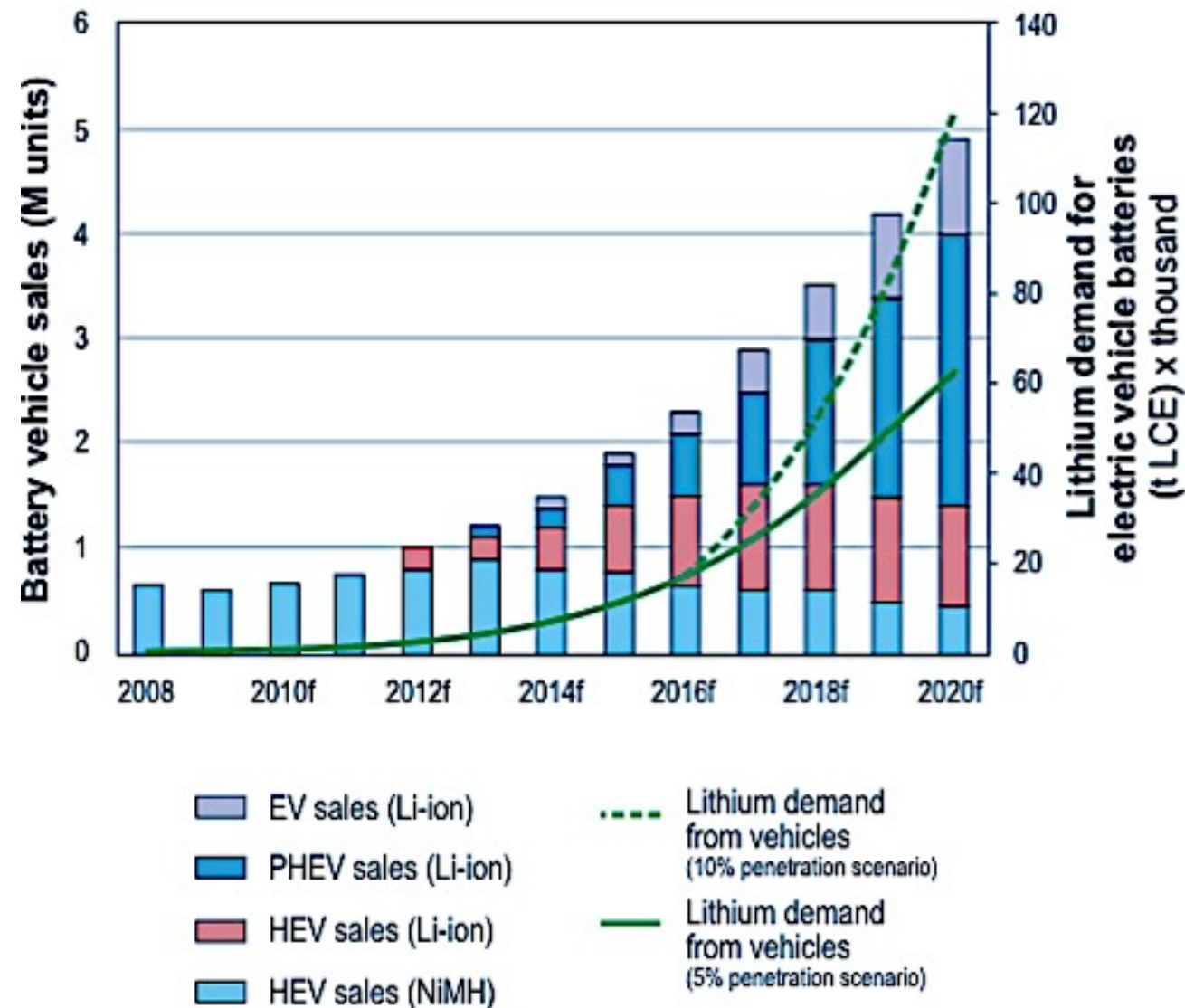
- 彭博社。

随着全球可再生能源和电动汽车使用的增加，对蓄电池组和技术的需求呈指数增长。

当前的锂离子电池技术不足

- 电池需要昂贵的**基于实验室的测试**才能有效地**诊断问题**。
- 因为测试时间长、价格昂贵且效率低下，所以**昂贵更换**是常态。
- **用过的电池对环境不利**。
- **电动汽车的电池保修期为8年**，使公司损失了**数百万**。
- 市场已开始关注**更好并且更持久的电池**。

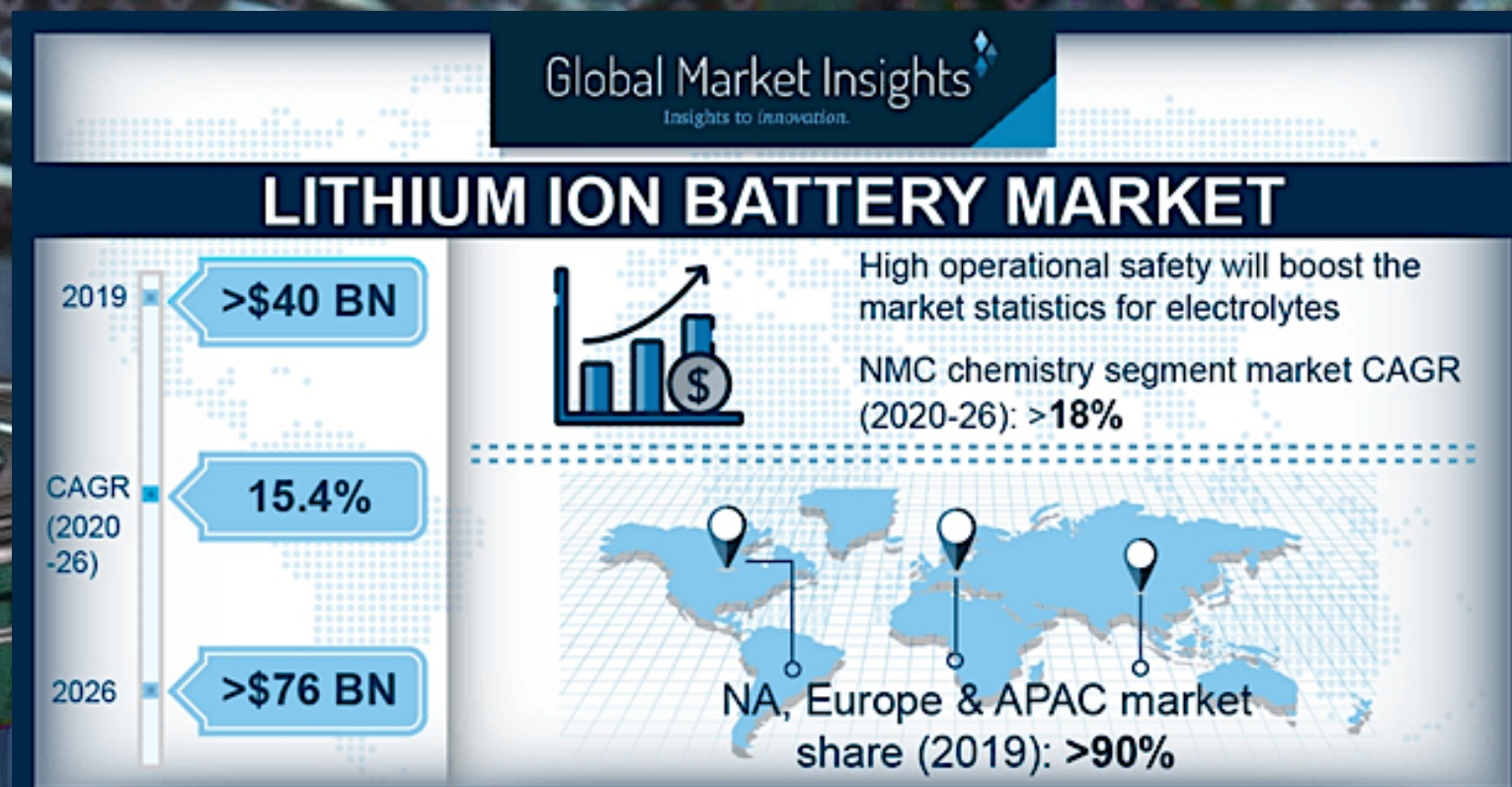
世界：2008-2020年电动汽车产量和电动汽车电池对锂的需求



Source: Roskill

为了满足需求，需要重大的技术进步

- 指数级电池生产
- 更高效的电池
- 电池回收系统
- 更大的能量存储
- 电池寿命更长
- 更快更有效地充电
- 更好的监控系统
- 更好的维护系统





BATTERY TECHNOLOGIES

DISRUPTIVE TECHNOLOGY

突破性技术

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基于人工智能

- 应用来自全球最大市场的超过五年的数据。
- 成千上万的电动汽车。
- 应用人工智能并与专有的电池管理系统连接起来，可以“学习”并实时改进。
- 神经网络的人工智能算法分析数据。
- 人工智能集成的电池管理系统是专门为电动汽车和能源备用系统市场设计的。
- 完全可扩展到任何电池管理系统应用程序中。



专利电池管理系统 (BMS)

寿命更长

- 实时电源布线选项，可避免并最大程度地减少损坏。
- 排除和隔离单个受损的电池单体。
- 重新路由以排除这些电池单体，并发出通知以进行日常维护、修理或更换。

电池使用效率更高

- 实时区分各个独立电池单体的问题。
- 恒定功率优化和流量控制。
- 延长寿命、延长电量、节省大量成本。

更准确的读数

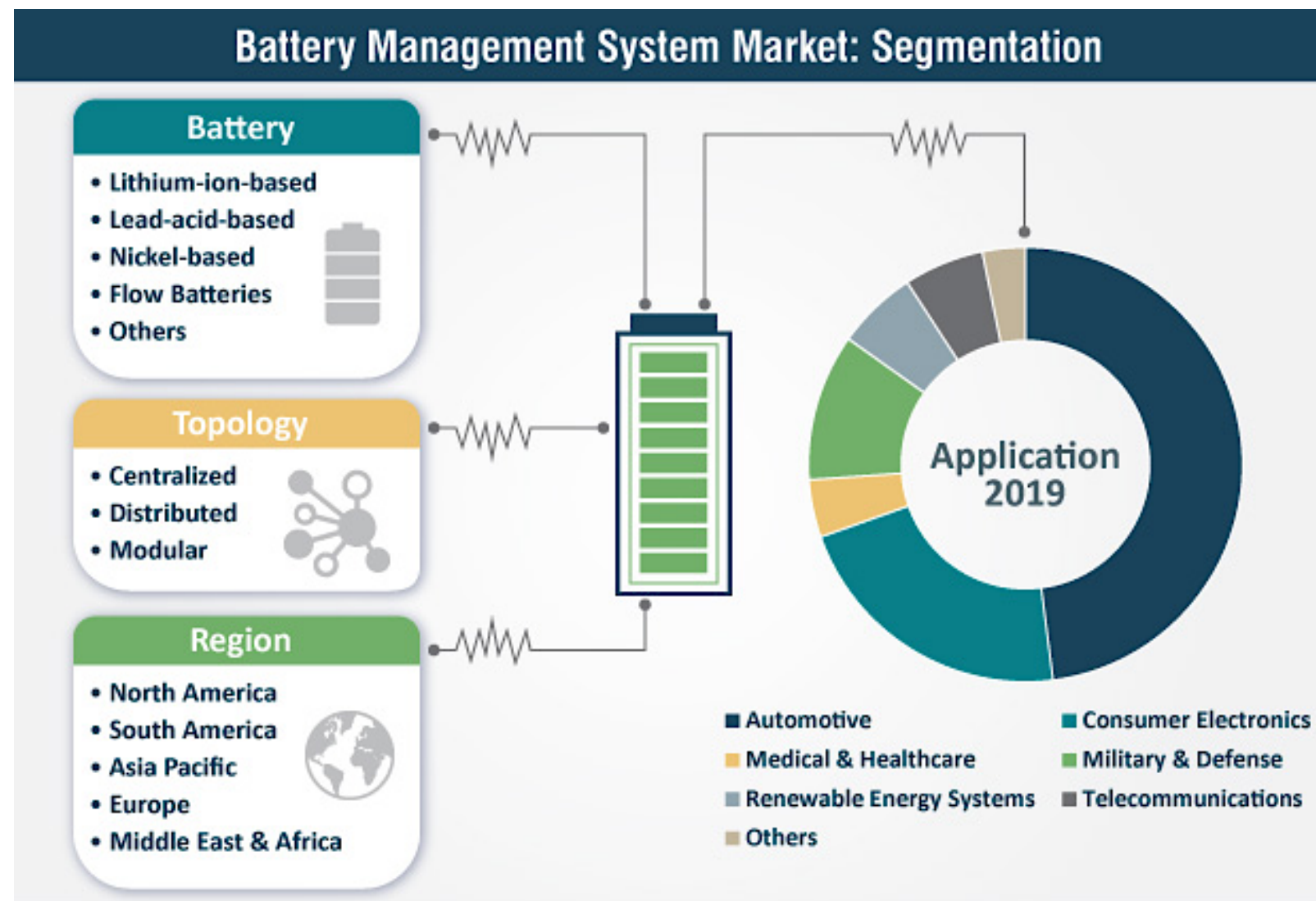
- 准确、可靠（专利）的故障预测。

实时监控

- 不断观察并保持对电池的实时监督。

远程维护

- 对使用我们的电池管理系统、能源备用系统或OEM产品的任何电池实施有多项专利保护的业界首创的远程维护。



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使用人工智能的智能电池管理系统

- **多项专利**保护行业不断变化的人工智能，**以提供更准确的荷电状态和电池健康状态值**
- **多项专利**保护的业界首创的**主动均衡**技术，可**延长电池寿命**。
- **神经网络的人工智能算法**可**精确**确定要替换的电池单体。
- 用户再也看不到**性能下降**
- 人工智能自动隔离有故障的电池单体并在周围重新布线，**以确保最佳性能**。
- 人工智能捕获并分析每个电池上详细的实时**基于云**的数据。
- 人工智能“**学习**”并**更新**电池数据元运算效率。
- 电动汽车**专利电池管理系统**和Autosa平台保障汽车功能安全。
- **专利梯队利用**：使用主动平衡和容量算法，**可以重复使用报废的电池**



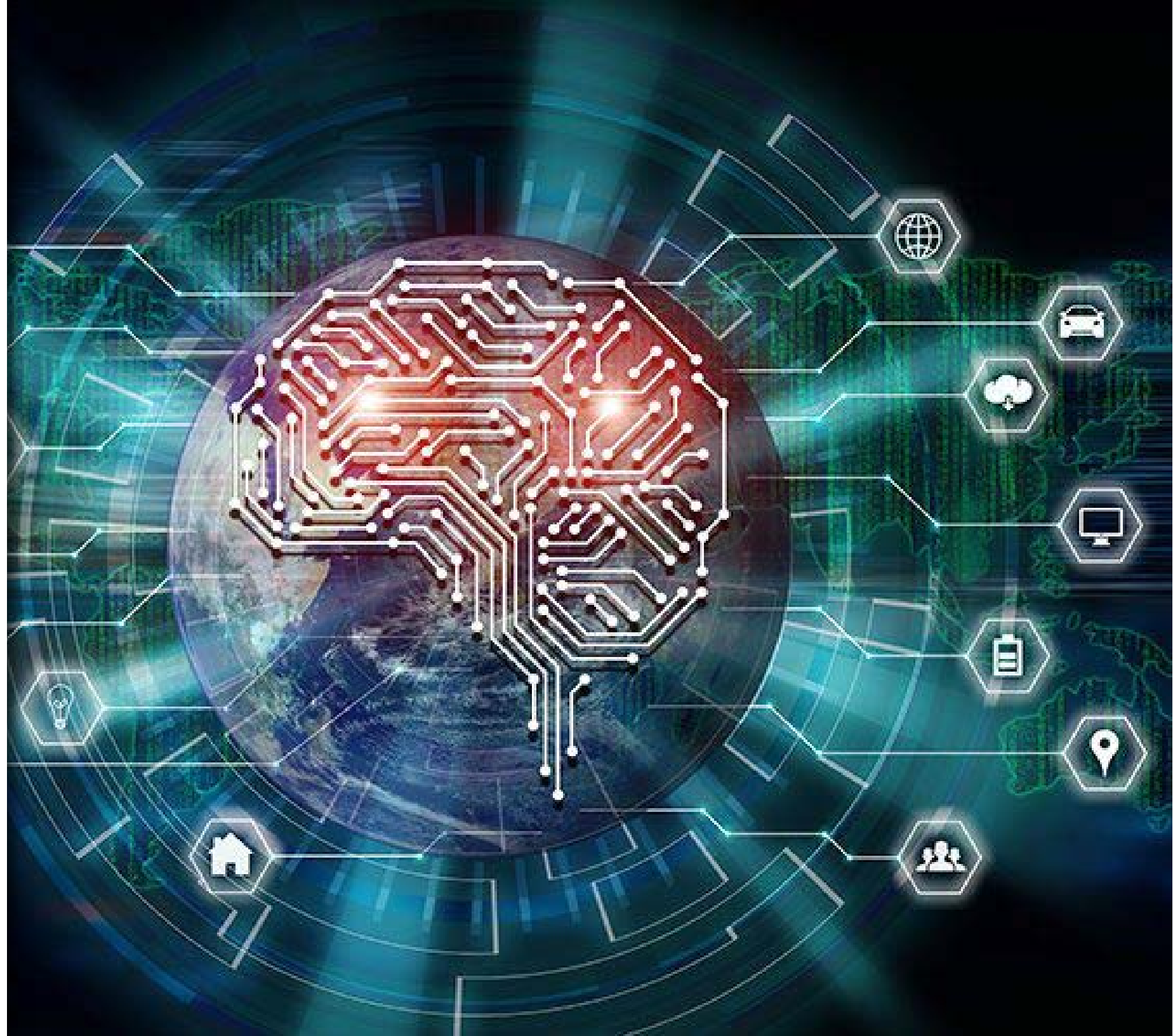
实时监控

我们的系统进行**实时监控**并对单个**单体**降解作**高级评估**。

然后，系统将**人工智能**应用于收集的**数据**来改进**电池管理系统**的技术。

实时监控能：

- 减少停机时间
- 效率更高
- 即时通知问题
- 远程修复硬件和软件
- 节省维护成本和人力成本
- 随着时间的流逝，人工智能形成更大的智能
- 每个电池使用寿命长



我们的技术与 现有电池比较

EV Battery Tech	现有市场
电池组中的单个电池单体更换	更换并丢弃整个电池组
维修和实时监控整个电池组中的每个电池单体。	更换并丢弃整个电池组
远程监控	现场专业电脑联机
远程维护	现场专业维修
用人工智能来改善系统	没有人工智能
实时收集元数据	不收集
智能电池管理系统工作和修复 电池单体，寿命得以延长	电池单体离线时，电池寿命终止





BATTERY TECHNOLOGIES

GAME-CHANGING BATTERY ECO SYSTEM

颠覆性的电池生态系统

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回收利用!

电子废物呈指数增长。2020年超过5000万吨

- 路透社

有电子垃圾的海啸!

- 联合国

预计到2050年将增加**一倍以上**。

- 路透社

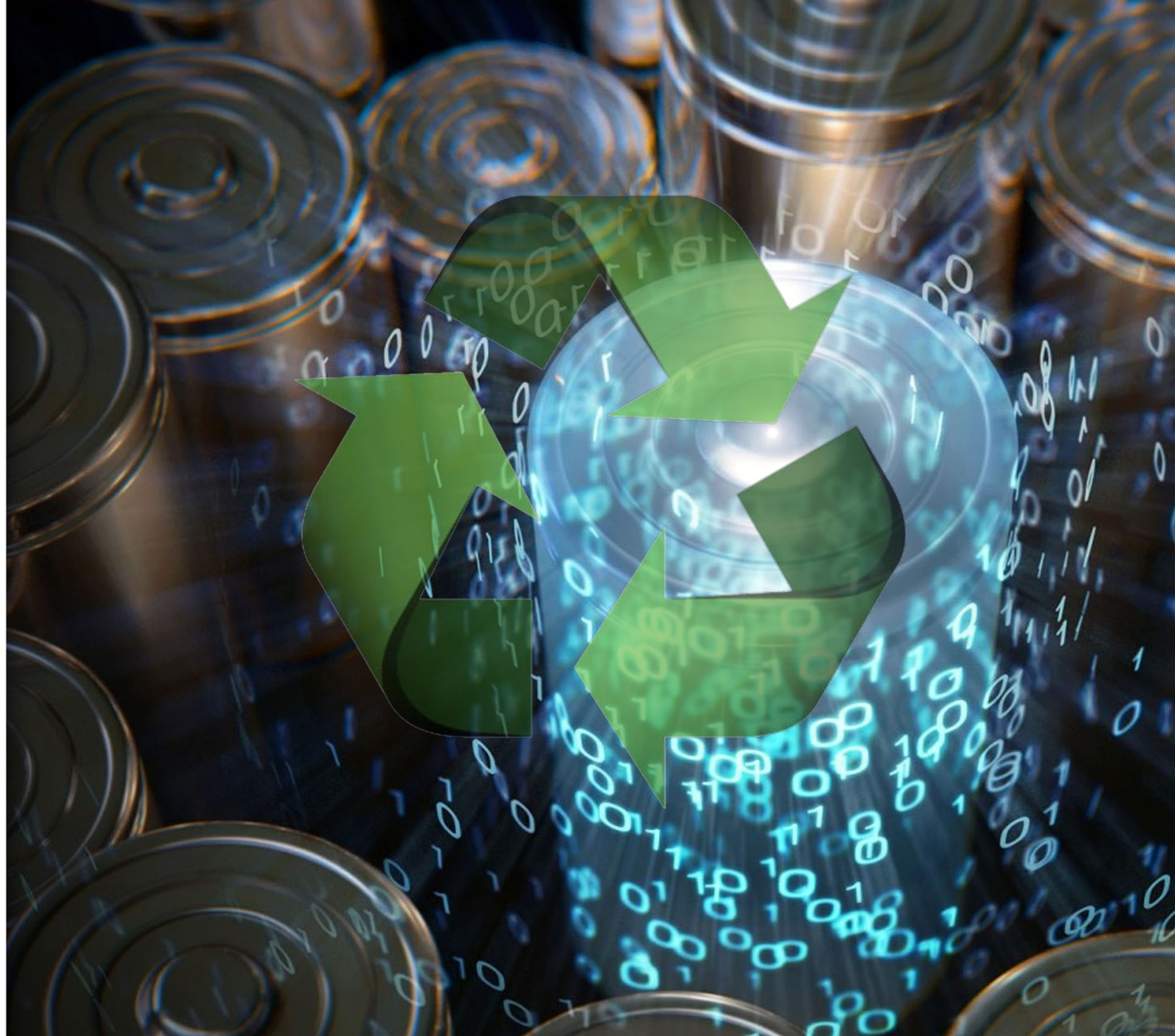
在120多个国家/地区中，每年的**电子垃圾超过了其年度GDP**。

- 世界经济论坛

仅**20%**的电子垃圾被回收。

- 全球电子废物报告

EV Battery Tech在我们所有的解决方案中都使用**废旧电池**。



电动汽车

- 寿命更长
- 更准确的读数
- 实时监控
- 远程维护硬件和软件
- 目标市场:
 - 汽车
 - 卡车
 - 踏板车
 - 船舶



智能储能系统

- 再生能源
- 建筑
- 备份系统
- 远程工业运作



元数据

- 元数据是一个巨大的十亿元的市场。
- 收集的数据将成为业务最有价值的方面之一。
- 公司为每个客户实时收集元数据。
- 在电动汽车和能源备用系统解决方案中为每个电池收集数据。
- 结合人工智能的数据能提高性能。
- 数据与全面的分析相结合，有助于将来的电池设计。
- 在电动汽车和能源备用系统解决方案中为每个电池收集数据



战略合作伙伴

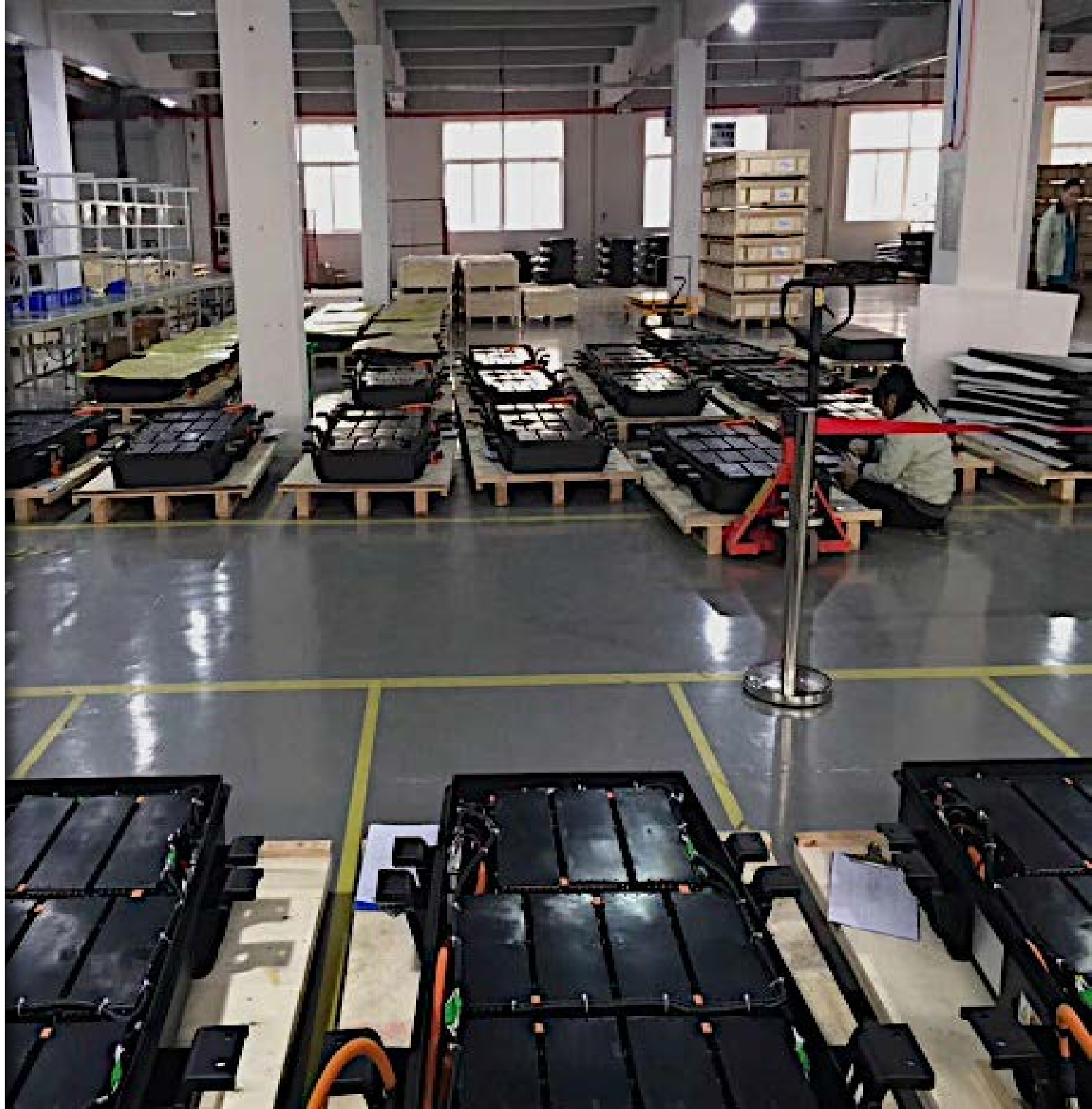
Rich Power

Rich Power被公认为电池管理系统和能源备用系统技术与创新的全球领导者。

通过IS9001/TS16949质量管理体系，全厂自动化生产和研究。

70多项专利和软件版权，包括7项授权的发明专利。

与能源备用系统和电池管理系统直接相关的20多个实用型号授权和10多个软件版权。





BATTERY TECHNOLOGIES

“SMART” ESS SOLUTIONS

“智能的” 能源备用系统解决方案

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可再生能源的能源备用系统

- 风能
- 太阳能
- 径流式水能
- 潮汐能



建筑能源备用系统

- 商业
- 工业
- 住宅



远程能源备用系统

备份系统:

- 信号塔
- 水电塔

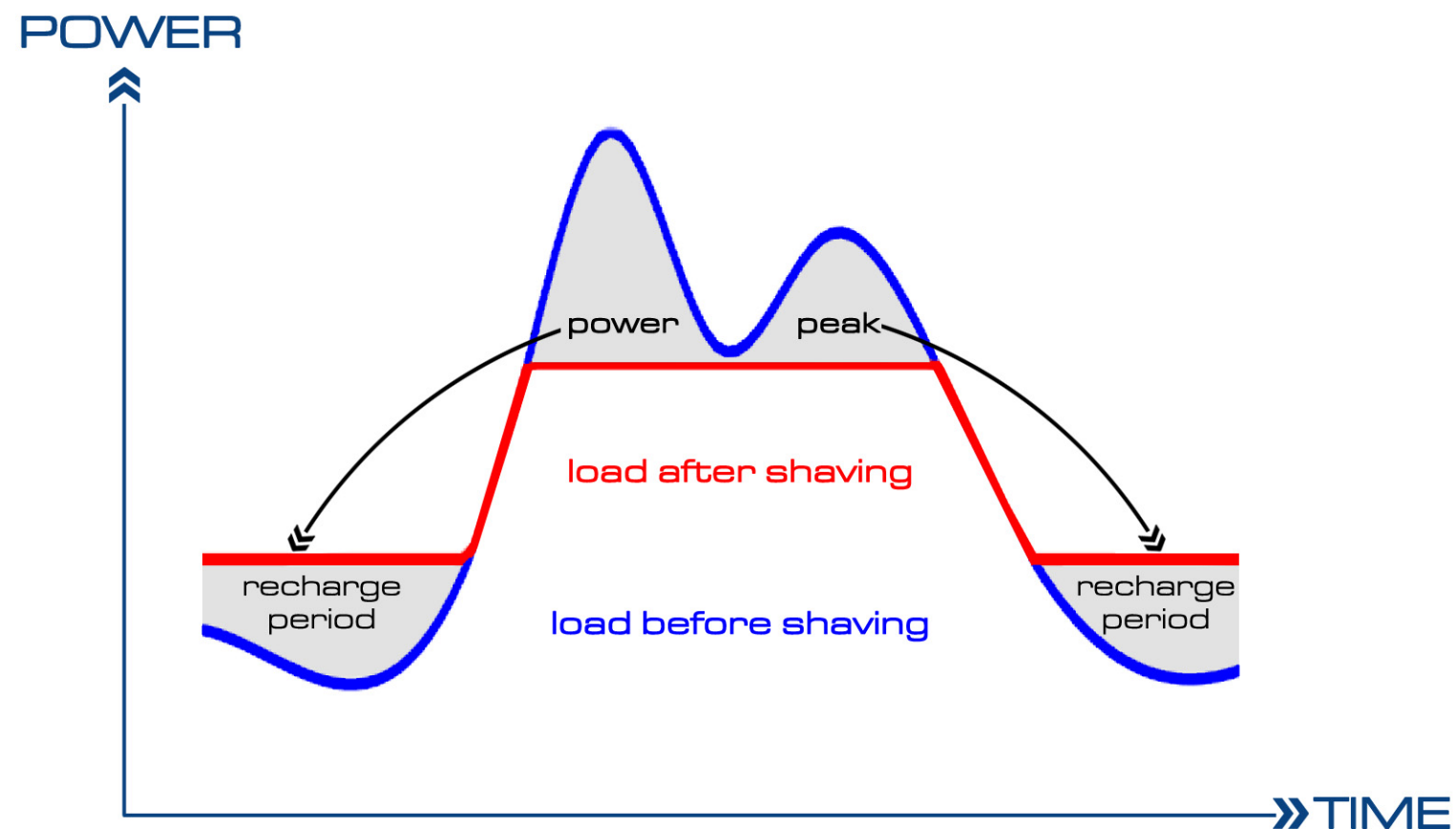
远程工业:

- 矿业
- 林业
- 公园
- 渔业



动态高峰调节

- 再生能源
- 建筑物
- 远程工业运营
- 智能充电站

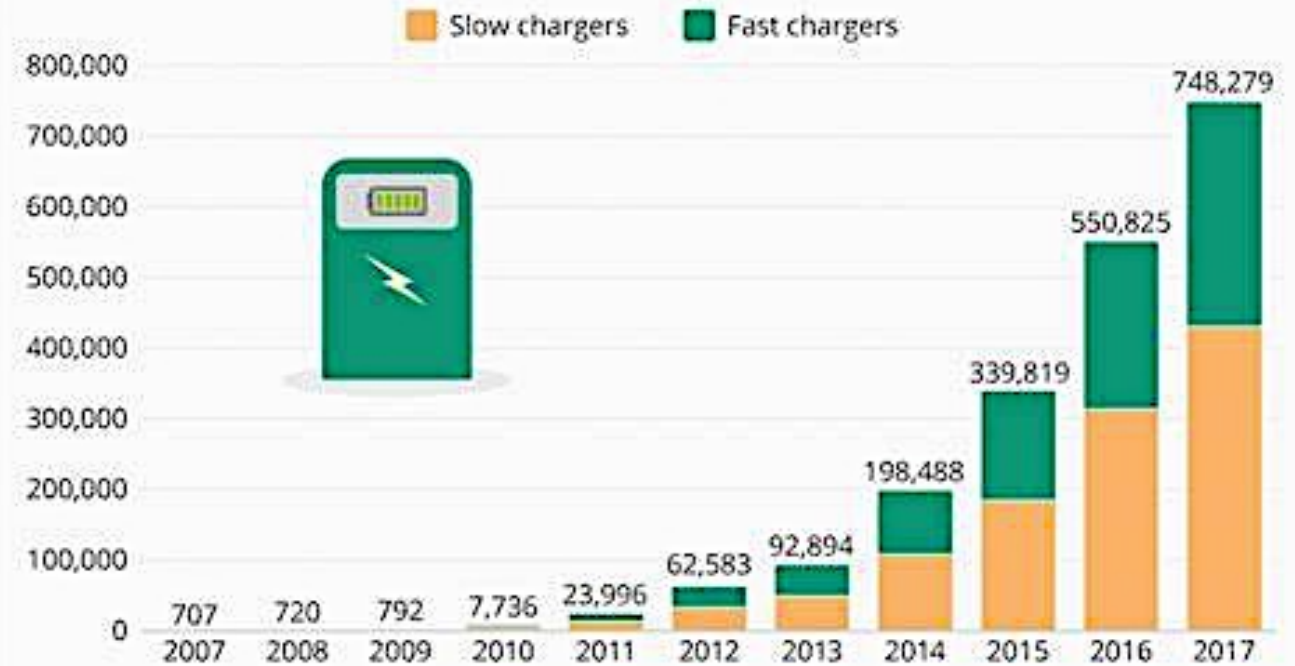


“智能”与“非智能”充电站

EV BATTERY TECH	现有充电站
在用电高峰期用电池充电	在用电高峰期用电网充电
电池在非高峰时间充电	非高峰时段不充电
远程监控	无监控
符合智能电网集成准则	不符合准则
可以将电力卖回电网	无法将电力卖回电网
实时收集元数据	不收集

E-Car Charging Infrastructure Becoming Mainstream

Global publicly accessible electric vehicle chargers by type



@StatistaCharts Source: IEA

statista

到2027年底，全球电动汽车充电站市场规模预计将超过392亿美元，并且从2020年到2027年，复合年增长率（CAGR）为40.7%。