



Company Introduction

Introduction

H&R Green Chain, the abbreviation for Beijing Highway & Railway Green Chain New Energy Resource Limited Liability Company, was founded and sponsored by State Power and Beijing Highway & Railway Green Chain Multimodal Transportation Limited Company in August, 2019, with a registered capital of 50 million Yuan.

The featured business of the company provides green transport service which is based on Intelligent digital terminal. Being a combination of various service occasions as charging stations, batteries, transport capability, green mine bases and the fleet, it's a green new energy service which extracts the operating information of electric heavy-duty trucks via intelligent terminal.







Environmental Protection Carbon Reducing

Industry Environment

The efficient development of logistics:

Electric and intelligent industry promoted by various policy factors have already emerged.

Overload Control

Structural Adjustment

Systems

Phenomenon

Disadvantages of electric heavy truck charging mode



01

High battery cost

Electric heavy-duty trucks: around 1 million Yuan

Diesel heavy trucks: 400 to 500 thousand Yuan

The battery life is shorter than the vehicle life.

Disadvantages of electric heavy truck charging mode



02

High battery weight
Cargo capacity declines by 10-20%.

High-power charging facilities are in short supply.

Conventional fast charging consumes long time. The operation time declines by over 20%.

Disadvantages of electric heavy truck charging mode



03

Large charging site is needed due to the large vehicle volume.

Great impact on Power Grid due to low charging power utilization and high capacitance occupation.

The planning and construction of charging station is difficult.



Advantages of electric heavy truck charging mode



High efficiency

Cost reduction

Flexibility

Safety

Utilization



Comprehensive scheme of vehicle power exchange

Positioning Platform

Identify the information of the target vehicle. Exchange the information of the vehicle and batteries. Guide the vehicle to the preliminary position.

The battery-swapping Robot

Unlock the vehicle base and pinpoint the battery.

Remove the empty batteries and load them the robot.



Comprehensive scheme of vehicle power exchange

Storage and charging room

Use battery-storing system to charge the empty batteries and conduct battery monitoring and detection.

Monitoring Center

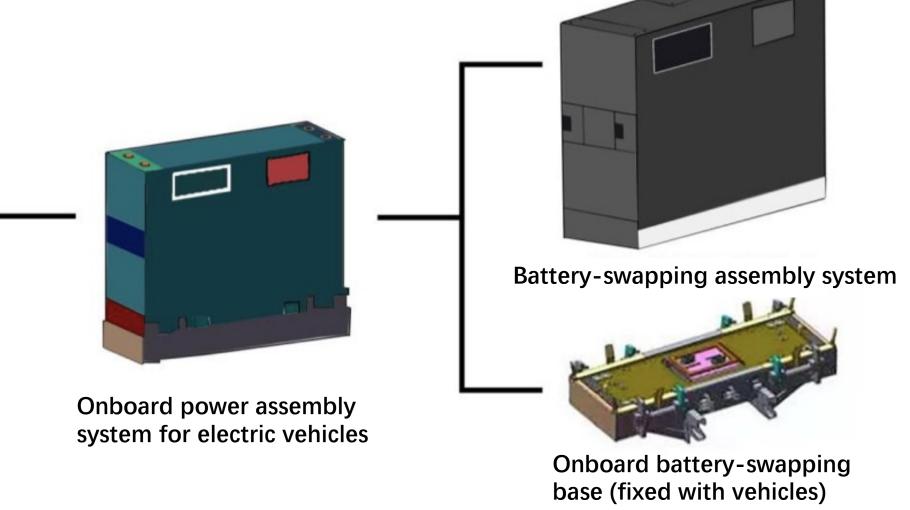
Equipped with fire fighting system, UPS system, video monitoring system and data server, the whole station is under all-round monitoring and data processing. The Monitoring center can be connected to the cloud server.



Brief introduction to the composition of vehicle power exchange system



The target vehicle type





Top mounted power station





Performance Index

Battery-exchanging time: **5mins**

Success rate of auto-battery-exchanging: 99.9%

Charging power: **2100kw**

Numbers of charging rooms: 8

Frequency: 168 times per 24 hours

Battery-exchanging mode: top hoisting

Matching vehicle type: all kinds of heavy truck

Monitoring system: Intelligent Monitoring and Controlling

System

Occupied area: 200 m²



Canter Energy consumption reduced: 10% Cattatie





A 5-minute-battery-exchanging process.

A comfortable experience like the fuel-filling one.



Energy consumption reduced: 10%



Separation of vehicle and batteries; Low acquisition cost The acquisition cost of the vehicle without batteries is equivalent to the cost of the fuel vehicle.

Energy supplement is faster than fueling filling. Energy can be supplied in 5 minutes which allows continuous service.

Distribution and land saving

The area of one single station needs up to 300 m².

Based on serving the same amount of vehicles, battery-swapping mode only needs a quarter of the needed power which recharging mode costs.

Low running costs of vehicles and safer batteries

Featured with low battery collecting cost, long scientific management, high profit of echelon use and safer professional operation and maintenance.





Project Case

Weike mine, Miyun
Districk, Beijing:

The first electric heavy truck operation project across China









Investigation and guidance





2019.12.12 北京·密云

Press reports









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产业发展司调研新能源重型卡车及"换电模

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近期,产业发展可断问用保险证据区、元申公司申请公司实地报价、范人了解制能进度位卡车 及"抽电极行"整广应用信托。构研也则场旁看了新级排置知识实现扩作业、更加电池性情 制、与有关企业、中枢控制和股票、平衡的代替企业进行报讯交流、听程了企业的兼见建议。

留了解,河南省市的集团在京省市公中和股边用在工技术和批评重型市场,一次为由河南经市 小村正能電車、能和及條符费用除4(50%以上、使用过程充金工程零银板、形式开口了标识等 數千年紀如伊斯儀式、正在了第千16四時的中、詳細出物分割、大端技術了作业包含和安全 性,北京公牧师等公司任矿山开菜、泉村正加强沟理中使用料能理量卡和工程机械、按正证 新能源廉卡特查站, 几分种便可完均电池更纯, 提高了运营技事, 特价了运营成本。



内蒙古锡林热电厂电动重卡充印 阿克兹 舒延 English

09:20

机构概况 国资监管 信息公开 互动交流 在线服务

新闻 评论 党建 改革 央企 地方 媒体 人事 图片 视频 音频 人物 故事 文化

倘 首页 > 新闻发布 > 地方扫描 > 正文

内蒙古锡林热电厂电动重卡充电站投入运营 助力绿色发展

文章来源: 内蒙古国咨委 发布时间: 2020-12-

近日、内蒙古蒙旋集团锡林热电厂电动重卡专 用充电站正式投入运行。首批10台纯电动重卡将正 式上线运营。锡林热电厂电动重卡专用充电站是蒙 能集团第一个投入商业运营的新能源重卡充电站项 目, 也是自治区以及锡林浩特地区首个使用新能源 电动重卡开展电煤运输业务的项目,实现了从煤矿 到电厂运输电煤全过程零排放、标志着蒙能集团 "绿色能源+绿色物流"取得了阶段性进展。





INTERCRETATION AND SALES

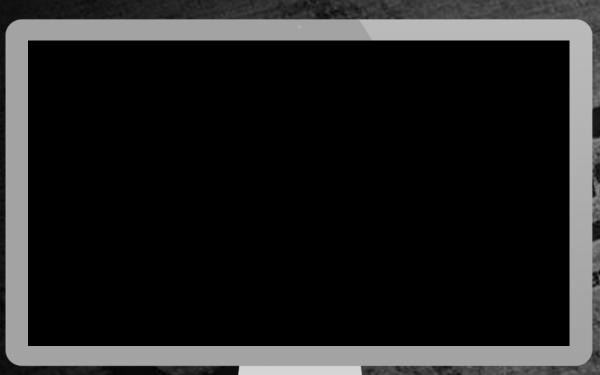
公铁绿链:绿色蕻留每生产业安革

医食物改革:

"和國牙"在這段由升度 "新國教"建案內高活力







Thank you