

# REPT

STICK TO THE ORIGINAL INTENTION OF SECURITY  
THAT WE CAN LEAD THE FUTURE TREND



## REPT BATTERO Energy Co., Ltd.

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**Manufacturing base:** Wenzhou | Jiashan | Liuzhou | Foshan | Chongqing

Stock code **REPT**  
**0666.HK**

# REPT BATTERO

## AUTOMOTIVE POWER BATTERY LEADER

Stock code **REPT**  
**0666.HK**

TSINGSHAN 青山实业

# TSINGSHAN HOLDING GROUP

Tsingshan holding group combines its rich mineral resources to invest and layout in the new energy field. It always persists in "making life-long stainless steel and creating a sustainable future" mission to push forward the industry and enhance the living quality of mankind. REPT BATTERY enjoys the unique resource integration ability and full industry chain synergy advantages endowed by Tsingshan industry, and becoming one of the fastest growing battery manufacturers in the industry.

Output Ranking Of Crude steel for Stainless steel Making Worldwide

**NO.1**

Output Ranking Of Nickel Metals Worldwide

**NO.1**

2023 Global Fortune 500 List

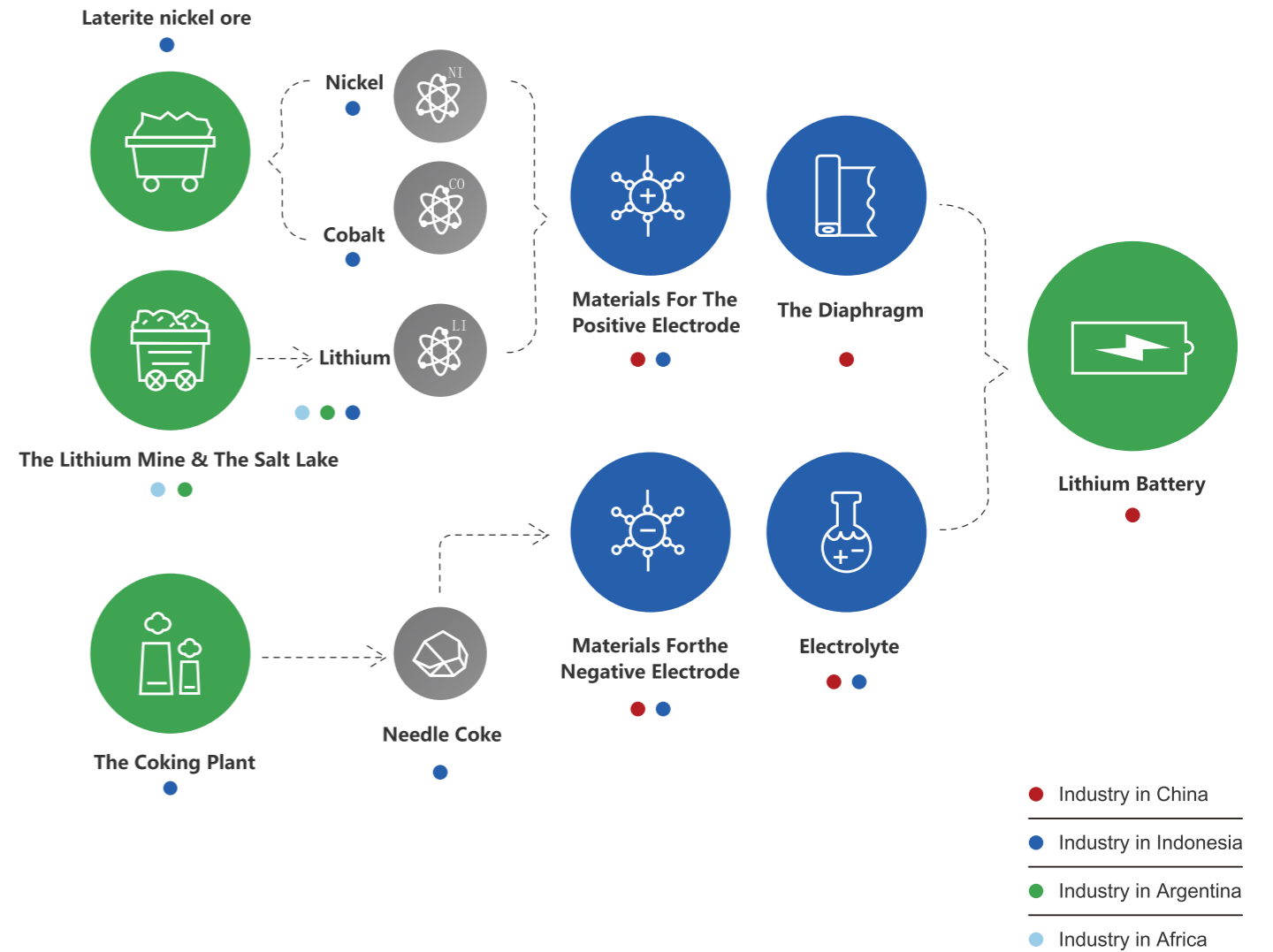
**NO.257**

Year 2023 Sales Revenue 382.1 Billion

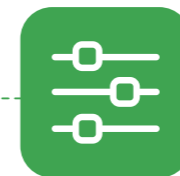
**382.1** BILLION

Stock code REPT 0666.HK

## NEW ENERGY INDUSTRY CHAIN OF TSINGSHAN



### UNIQUE ADVANTAGE



INTEGRATED INDUSTRIAL CHAIN



LONG TERM STABLE AND COST-EFFECTIVE SUPPLY CHAIN GUARANTEE



RESOURCE INTEGRATION AND COLLABORATION

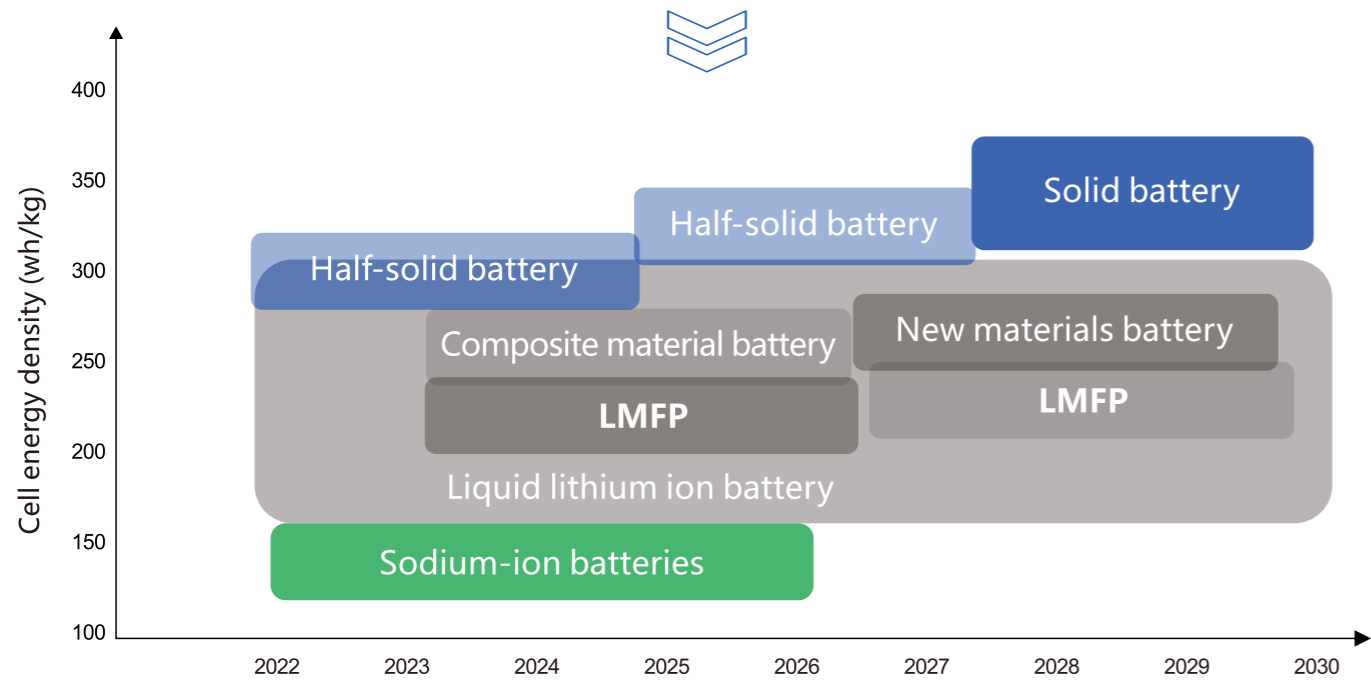
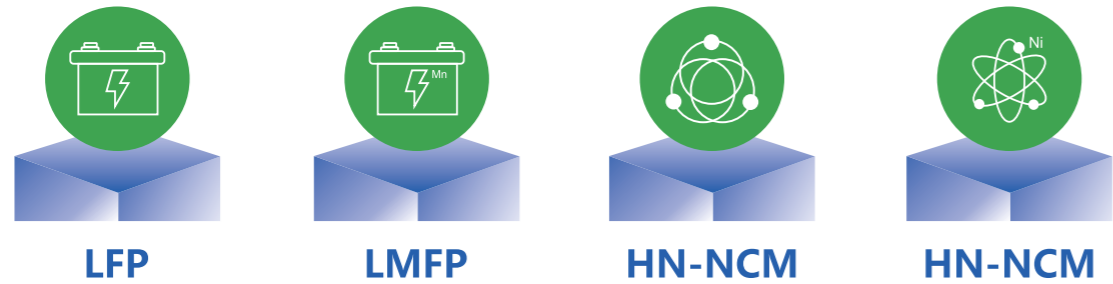
# REPT BATTERO

**REPT BATTERO** Energy Co., Ltd. was established in 2017 as the first enterprise invested by Tsingshan Industry in the field of new energy. REPT BATTERO mainly engages in the research and development, production, and sales of lithium-ion batteries, providing solutions for new energy vehicle and smart energy storage system. REPT BATTERO develops innovative products and services to accelerate the global green energy transformation. The company has R&D centres in Shanghai, Wenzhou and Jiaxing, and production bases in Wenzhou, Jiaxing, Liuzhou, Foshan and Chongqing. By the end of 2023, the total production capacity was 62GWh, and it is expected that the production capacity will be more than 150GWh in 2025. By the end of 2023, the total production capacity was 62GWh, and it is expected that the capacity will exceed 150GWh in 2025. For the full year 2023, energy storage battery shipments will be the fourth largest in the world, and LFP power battery installations will be the sixth largest in the world.



<b>2017</b> 2017.12 The construction of manufacturing base in Wenzhou was started.	<b>2018</b> 2018.10 The production line of 3GW was officially put into operation.	
2017.10 2017.10 REPT was established.		
<b>2019</b> 2019.06 The first batch of batteries for electric logistics vehicles of 4.5 ton was delivered for application.		<b>2020</b> 2020.04 Lfp batteries with high energy density were delivered to GM of SAIC for application in WULING(E100) 2020.05 The new generation NCM batteries were delivered in batches to WELTMEISTER. 2020.06 The application for declaration of buses of 10.5 m in length was completed. 2022.12 The monthly shipment volume ranked the 5th in the industry.
2019.07 The first batch of electric buses of 10.5 m in length was delivered for application.		
2019.08 Primary lithium batteries were delivered in batches for application in electric passenger vehicles.		
2019.11 The Company was accepted as a supplier in the Supplier Management System of DFPV.		
<b>2021</b> 2021.04 Accepted as a designated supplier in the PSA-OTC project signifying the formal entry of REPT into the global market of power battery.		
2021.07 Accepted as a designated supplier of PMA project platform by GEELY.		
2021.10 Accepted as a designated supplier in the project of Leapmotor. Project Phase II of manufacturing base in Wenzhou was officially put into operation.		<b>2023</b> 2023.02 Chongqing 30GWh Production Base Project Officially Signed 2023.02 Awarded 2022 National Green Factory 2023.03 Signing of Wenzhou Manufacturing Base (Phase III) Project 2023.05 Energy Vault Signs 10GWh Energy Storage Battery Supply Agreement 2023.06 Joined Global Battery Alliance (GBA) 2023.07 Ripsack commences production of 20GWh per year project 2023.09 Official Launch of REPT BATTERO's European Subsidiary 2023.12 REPT BATTERO successfully landed on the Hong Kong Stock Exchange Translated with DeepL.com (free version)
<b>2022</b> The global release of "Wending Battery" leads the world in terms of volume and energy density. Successful development of PHEV battery.		
2022.01 Accepted as a designated supplier in both BESTUNE project and MAXUS project.		
2022.02 Invested by SAIC and was accepted as a designated supplier in the passenger vehicle project of SAIC.		
2022.03 The project SAIC Tsingshan Industry (SAICREPT) with a capacity of 20 GWh was signed.		
2022.09 monthly shipment exceeding 2 GWh. the Project Phase III in Wenzhou was constructing.		
2020.12 Annual sales revenue exceeded RMB 10 billion.		

# R&D ROADMAP

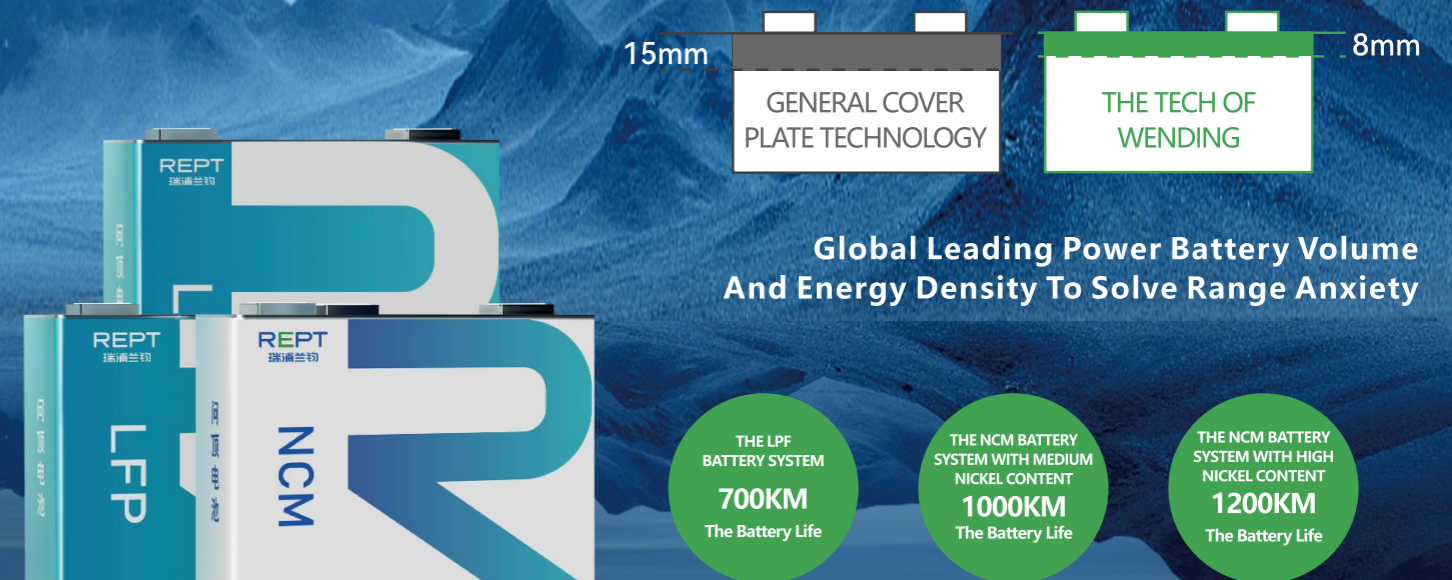


	2022	2024	2027	2030		
PURE ELECTRICITY	<b>HIGH SPECIFIC ENERGY</b> 	HV NCM6/HN NCM8 Gr, Nonaqueous 250-280Wh/kg	HV NCM6/HN NCM8 Gr-SiOx, Liquid/SSSB 270-300Wh/kg	HN NCM8/9/Pre-Li Gr-SiOx, SSSB 250-400Wh/kg	HN NCM9/Pre-Li SiOx/Li metal, SSSB 250-400Wh/kg	LNMO/LNO Lithium metal, ASSB 400+ Wh/kg
	<b>ECONOMICAL</b> 	LFP/Gr 400-450Wh/L	LFP LMFP, LFP composite/Gr 410-490Wh/L	LMFP, LMFP/NCM Gr 440-510Wh/L	LMFP, LMFP/NCM+Pre-Li Gr 470+530Wh/L	
	<b>FAST CHARGING</b> 	HV NCM6 + Gr 250Wh/kg 2.2C&4.35V	HV NCM6/8 + Gr 240-250Wh/kg 4C&4.35V	HV NCM6/8 + Gr-SiOx270Wh/kg 5C&4.25V		
HYBRID	<b>EXTENDED-RANGE</b> 		NCM6/Gr 7C/8C 510-530Wh/L	NCM8/Gr 9C 530-550Wh/L	580-600Wh/L	
			LFP/Gr 7C 370-390Wh/L	LFP/Gr 8c 390-420Wh/L	400-460Wh/L	

## THE INNOVATIVE NEW TECH OF "WENDING"

Wending Technology integrates cutting-edge technologies such as cell structure technology, process technology and equipment innovation, internal electrochemical characteristics, and stable solid-liquid interface, which can be applied to LFP and NCM batteries to achieve the application of dual high electrodes and continuously enhance the energy characteristics and safety characteristics of batteries.

IMPROVE THE SPACE UTILIZATION RATE BY MORE THAN **7%+**



# PRODUCTS LIST

<b>WENDING</b>	Capacity	158Ah	200Ah(NCM)	320Ah	175Ah	345Ah
	Rated Voltage	3.2V	3.66V	3.2V	3.2V	3.2V
	Energy Density	450Wh/L	650wh/L	420Wh/L	185Wh/Kg	180Wh/kg
	Dimension	70*148*112	79*148*105	71*173*204	40*300*112	71*173*204
	Characteristic	3000cycles	2000cycles	6000cycles	3000cycles	10000cycles

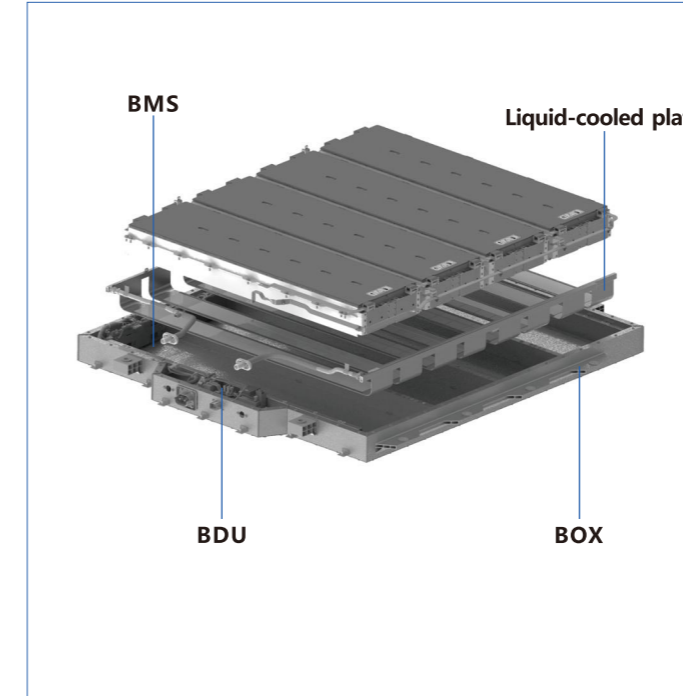
<b>PHEV&amp;REEV</b>	Capacity	65Ah	54Ah	28Ah	104Ah
	Rated Voltage	3.2V	3.2V	3.2V	3.2V
	Characteristic	characteristic (6c)	characteristic (6c)	characteristic (8c)	characteristic (8c)

<b>BEV</b>	Capacity	132Ah	142Ah	104Ah	166Ah	214Ah (R300)	198Ah (R600)
	Rated voltage	3.2V	3.2V	3.2V	3.2V	3.2V	3.2V
	Energy density	170Wh/kg	180Wh/kg	176Wh/kg	180Wh/kg	190Wh/kg	190Wh/kg
	Dimension	44*220*110	70*148*110	52*148*118	60*194*112	50*300*112	22*574*118
	Characteristic	Fast charging	High SpecificEnergy &Long Life	High specific energy	High specific energy	High specific energy	High specific energy

<b>BEV</b>	Capacity	152Ah(NCM)	190Ah(NCM)	177Ah(NCM)	155Ah (Semi-solid)
	Rated voltage	3.66V	3.66V	3.66V	3.66V
	Energy density	250Wh/kg	260Wh/kg	250Wh/kg	250Wh/kg
	Dimension	50*194*111	79*148*105	79*148*102	79*148*102
	Characteristic	Ultra fast charging	High Safety &ultraHigh Specific Energy	High Safety &Long Life	High Safety &Long Life

<b>Commercial vehicles</b>	Capacity	230Ah	302Ah	150Ah	205Ah	320Ah	345Ah
	Rated voltage	3.2V	3.2V	3.2V	3.2V	3.2V	3.2V
	Energy density	180Wh/kg	180Wh/kg	180Wh/kg	180Wh/kg	180Wh/kg	180Wh/kg
	Dimension	54*173*204	71*173*204	36*173*204	54*173*204	71*173*204	71*173*204
	Characteristic	6000cycles	6000cycles	5000cycles	5000cycles	10000cycles	10000cycles

# CORE TECHNOLOGY ACHIEVES EXCELLENT PERFORMANCE



INDEPENDENT RESEARCH AND DEVELOPMENT IN ALL FIELDS



All key parts of the PACK are independently developed by REPTBATTERO which meet the various professional verification requirements of national mandatory inspections and automobile enterprises

- DETACHABLE CTP TECHNOLOGY FOR EASY MAINTENANCE
- ULTRA BRAIN BMS COVERAGE ON 800V FAST CHARGING PLATFORM
- PACK ADVANCED THERMAL MANAGEMENT TECHNOLOGY

# APPLICATION CASES

	RANGE	ASSEMBLED VEHICLE MODEL
<b>PASSENGER VEHICLES</b>	800~1000KM 700~800KM	
	500~700KM	
	400~500KM	
	200~400KM	
<b>COMMERCIAL VEHICLES AND OTHER APPLICATION CASES</b>		

Stay tuned for more supporting models and application cases

# GLOBAL INDUSTRIAL LAYOUT

CAPACITY PLANNING IN 2025  
150GWh+

SCALE IN 2027  
100 BILLION



**PRODUCTION:**

Wenzhou | Liuzhou | Jiashan | Foshan | Chongqing  
Indonesia | Europe



▲ The Production Base in Wenzhou



▲ The Production Base in Jiashan



▲ Chongqing Manufacturing Base



▲ The Production Base in Liuzhou

# SUSTAINABLE DEVELOPMENT

**ESG MEASURES**



WASTE DISCHARGE AND UTILIZATION



BATTERY RECYCLING



PRODUCTION SAFETY AND HEALTH OF STAFFS



SUPPLY CHAIN TRACEABILITY MANAGEMENT



ENERGY USE



CORPORATE SOCIAL RESPONSIBILITY SYSTEM

**ESG ACHIEVEMENT**

APPROVED 2022 NATIONAL GREEN FACTORY

SELECTED INTO THE LIST OF GREEN AND LOW-CARBON FACTORY IN ZHEJIANG PROVINCE IN 2021

PASSED THE EVALUATION OF "WASTE FREE PLANT" IN ZHEJIANG PROVINCE IN 2021

OBTAINED THE CERTIFICATION OF ISO45001:2008-OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM

WON THE BRONZE MEDAL OF ECOVADIS CORPORATE SOCIAL RESPONSIBILITY, AN INTERNATIONAL BUSINESS SUSTAINABILITY SCORING PLATFORM

