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purpose only

CO₂

2021年
年度业绩

2021 ANNUAL RESULTS



2022年3月
Mar. 2022

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黑科技

Black Technology



The background image shows a modern building with a large, stylized red rose sculpture on the left side. On the roof of the building, there is a large, realistic-looking panda sculpture lying down. A green SUV is parked in the foreground on the right side. The text is overlaid on the center of the image.

第一部分

Section 1

行业概况

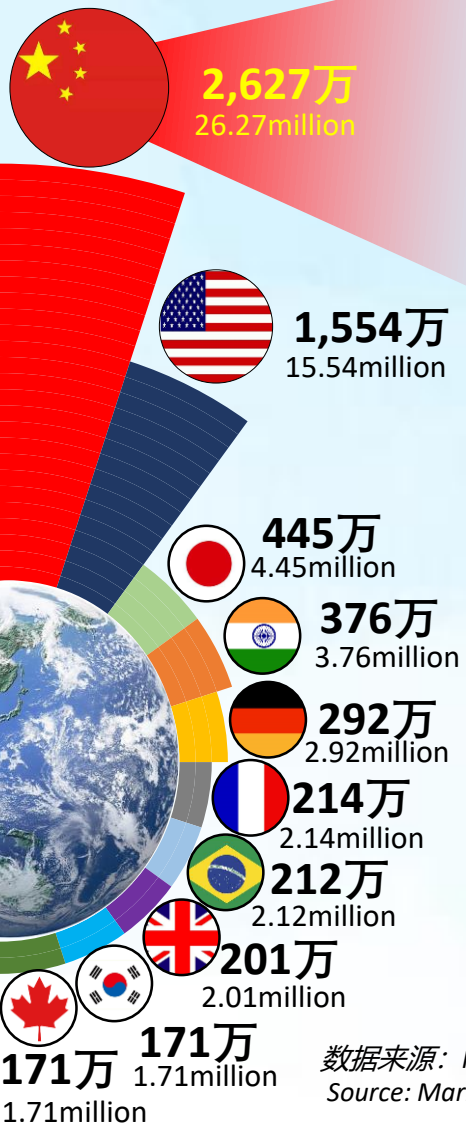
Auto Industry Overview

2021年全球销量前十国家

2021 top 10 countries in terms of global car sales volume

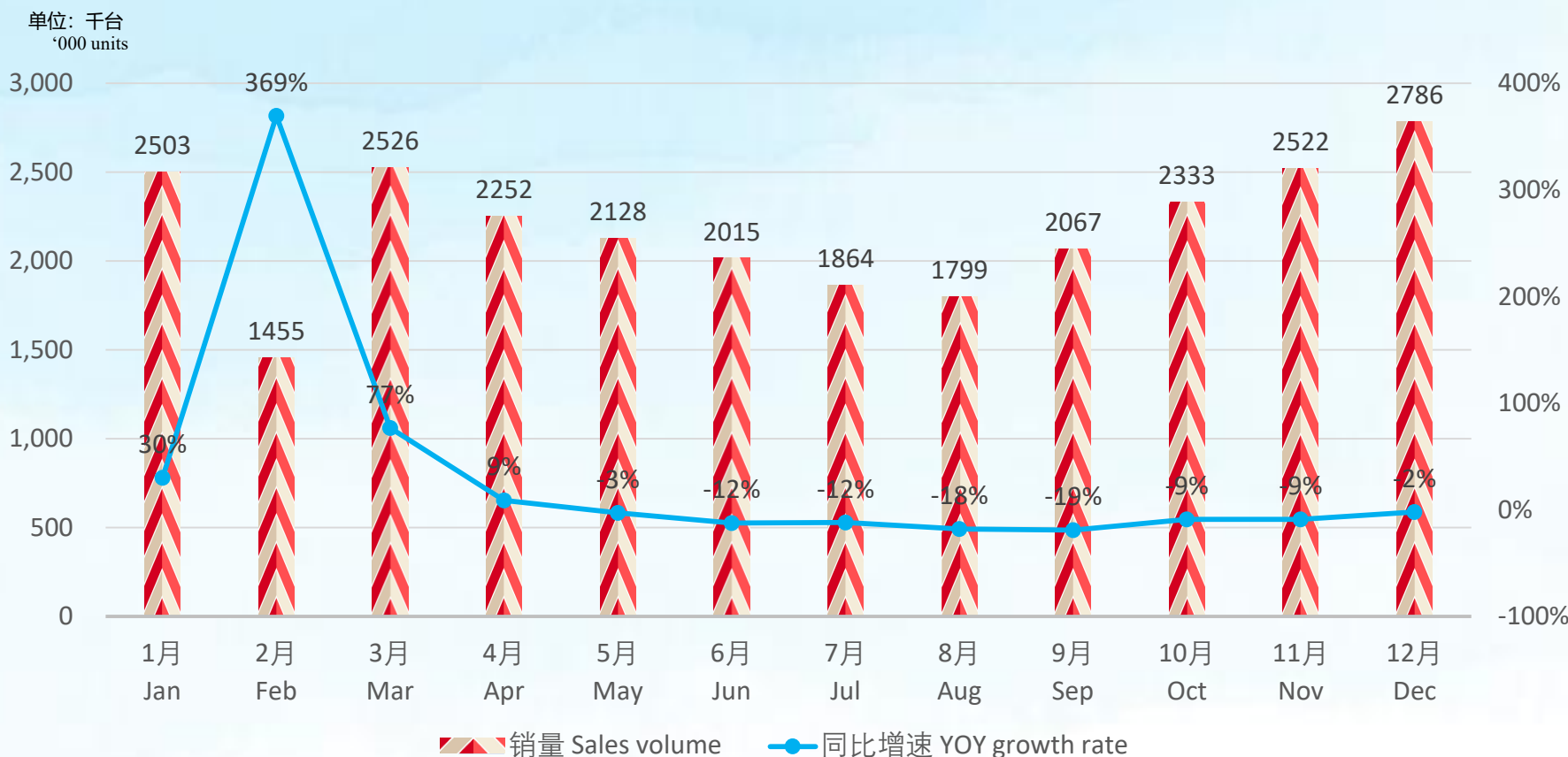


单位: 台
units



2021年中国市场月度销量及增速

Monthly sales volume and growth rate in the China market in 2021



数据来源: 中国汽车工业协会/ Source: CAAM

数据来源: MarkLines
Source: MarkLines

汽车销量前十企业

Top 10 auto makers in terms of sales volume



1

20.4%



537万辆

5.37 million units

2

13.3%



350万辆

3.50 million units

3

12.5%



328万辆

3.28 million units

4

8.8%



230万辆

2.30 million units

5

8.2%



214万辆

2.14 million units

6

6.6%



172万辆

1.72 million units

7

5.1%



133万辆

1.33 million units

8

4.9%



128万辆

1.28 million units

9

3.6%



96万辆

960,000 units

10

2.8%



75万辆

750,000 units

乘用车销量前十企业

Top 10 auto makers in terms of passenger vehicle sales volume



1

8.4%



180万辆
1.80 million units

2

6.2%



133万辆
1.33 million units

3

6.2%



133万辆
1.33 million units

4

5.8%



124万辆
1.24 million units

5

5.6%



119万辆
1.19 million units

6

5.0%



108万辆
1.08 million units

7

4.9%



105万辆
1.05 million units

8

4.8%



104万辆
1.04 million units

9

4.0%



87万辆
870,000 units

10

3.9%



83万辆
830,000 units
6/35

SUV销量前十企业

Top 10 auto makers in terms of SUV sales volume



1

9.0%



长城汽车

91.3万辆

913,000 units

2

8.6%



长安汽车
CHANGAN AUTO

86.9万辆

869,000 units

3

8.0%



吉利汽车
GEELY AUTO

80.5万辆

805,000 units

4

6.8%



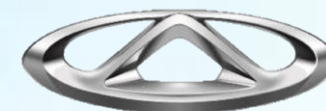
一汽-大众
FAW-VOLKSWAGEN

68.5万辆

685,000 units

5

6.5%



CHERY

65.8万辆

658,000 units

6

4.3%

东风 HONDA

43.8万辆

438,000 units

7

4.3%

上汽大众
SAIC VOLKSWAGEN

43.7万辆

437,000 units

8

3.8%

广汽
HONDA

38.8万辆

388,000 units

9

3.1%



31.1万辆

311,000 units

10

3.0%

BYD

30.1万辆

301,000 units

皮卡销量前十企业

Top 10 auto makers in terms of pick-up truck sales volume



1

42.0%



长城汽车

23.3万辆

233,000 units

2

12.3%



6.8万辆

68,000 units

3

9.0%

郑州日产
相信 相伴 相成就

5.0万辆

50,000 units

4

7.7%

ISUZU
江西五十铃

4.3万辆

43,000 units

5

6.4%

上汽大通
MAXUS

3.5万辆

35,000 units

6

5.9%

江汽集团
JAC GROUP

3.2万辆

32,000 units

7

4.3%



2.4万辆

24,000 units

8

3.5%



1.9万辆

19,000 units

9

3.4%



1.9万辆

19,000 units

10

3.0%



1.7万辆

17,000 units

新能源销量前十企业

Top 10 auto makers in terms of new energy vehicle sales volume



1

17.2%



60.6万辆
606,000 units

2

13.8%



48.4万辆
484,000 units

3

13.0%



45.8万辆
458,000 units

4

4.6%



16.2万辆
162,000 units

5

3.9%



长城汽车

13.7万辆
137,000 units

6

3.9%

江淮集团
JAC GROUP

13.6万辆
136,000 units

7

3.5%



12.4万辆
124,000 units

8

3.3%



中国一汽

11.5万辆
115,000 units

9

3.2%



CHERY

11.2万辆
112,000 units

10

3.1%



长安汽车
CHANGAN AUTO

10.9万辆
109,000 units
9/35

第二部分

Section 2

公司经营概况

Operations Review



长城汽车销量近况

Sales volume of the Group



销量
Sales volume

单位：千台
'000 units

皮卡 Pick-up SUV 轿车 Sedan



数据来源：公司年报/ Source: Company's Annual Report

新能源汽车销量
NEV sales volume

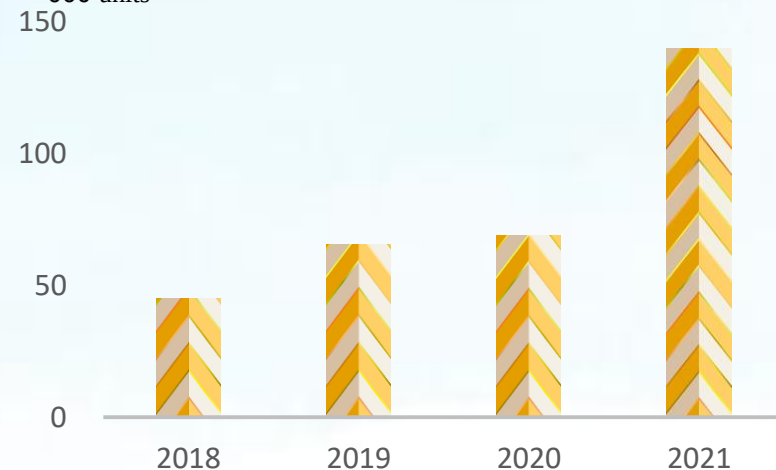
单位：千台
'000 units



数据来源：公司年报/ Source: Company's Annual Report

海外销量
Overseas sales volume

单位：千台
'000 units



数据来源：公司年报/ Source: Company's Annual Report

长城汽车大事记

Significant events



超级动力

Super Power



长城汽车3.0T+9AT超级动力总成正式量产下线。
Great Wall Motor's mass produced 3.0T+9AT super powertrain rolled off the production line.

责任

Responsibility

风雨同舟
象见真情

捐赠2000万元

长城汽车捐赠2000万元驰援河南。
Great Wall Motor provided rapid financial assistance to Henan with a donation of RMB20 million.

2025战略
2025 Strategy



长城汽车欧洲总部在德国慕尼黑成立。
Great Wall Motor established its Europe headquarters in Munich, Germany.

欧洲
Europe



泰国
Thailand



长城汽车泰国罗勇工厂正式投产。
Great Wall Motor's factory in Rayong, Thailand, commenced production.

氢能
Hydrogen Energy

氢柠技术



长城汽车发布氢能战略，构建国际级“制-储-运-加-应用”一体化供应链生态。
Great Wall Motor released a hydrogen energy strategy to build a world-class supply chain ecosystem integrating “production, storage, transportation, refueling and application”.

长城汽车第1000万辆整车下线仪式”在长城汽车徐水智慧工厂举行。
Great Wall Motor held a ceremony at the Company's Xushui smart factory to celebrate the 10 millionth car produced.



1000万
10 Million

长城汽车组织变革

Great Wall Motor Organisational Reform



2020 年，公司提出了向全球化科技出行公司转型的目标。为了达成这一目标，必须进行相应的变革，变革的入手点是组织机制、文化和人才，这三方面是驱动变革的底层逻辑和核心基础。在组织机制、人才、文化这三大变革要素的合力作用下，长城汽车的品牌、产品、营销、技术等 方面正在发生着全新的变化。现在来看，我们已经构建出一个全球化科技出行公司的雏形，在应对“百年未有之大变局”的道路上，迈出了第一步。



In 2020, the Company set a goal to transform itself into a “global technology-driven mobility company”. To achieve this goal, the Company had to reform its organisational mechanism, culture and talents. These three areas form the underlying logic and core foundation for driving changes.

Reforms on these three key aspects had driven revolutionary changes in Great Wall Motor’s brand, product, sales and technology. What we now see is a global technology-driven mobility company taking shape, signifying our first step in the journey to meet “great changes unseen in a century”.



资产负债表 Balance Sheet

单位：人民币百万元 RMB Mn

	截至2021.12.31止 As at 31 Dec 2021	截至2020.12.31止 As at 31 Dec 2020	截至2019.12.31止 As at 31 Dec 2019	变动 Change (%)
流动资产 Current assets	108,366	99,399	68,502	9.0
其中： Including:				
货币资金 Cash and bank balances	33,048	14,588	9,723	126.5
应收账款 Accounts receivable	5,422	3,936	3,193	37.7
应收款项融资 Receivables financing	31,500	52,985	31,446	-40.5
非流动资产 Non-current assets	67,042	54,613	44,594	22.8
负债合计 Total liabilities	113,280	96,670	58,697	17.2
资产总值 Total assets	175,408	154,011	113,096	13.9
股东权益 Total shareholders' equity	62,128	57,342	54,399	8.3

利润表 Income Statement

单位：人民币百万元 RMB Mn

	2021	2020	2019	变动 Change (%)
营业总收入 Total operating revenue	136,405	103,308	96,211	32.0
毛利 Gross profit	22,037	17,777	16,188	24.0
营业利润 Operating profit	6,369	5,752	4,777	10.7
归属于母公司股东的净利润 Net profit attributable to shareholders of the Company	6,726	5,362	4,497	25.4
基本每股收益 (元) Basic earnings per share (RMB)	0.73	0.59	0.49	23.7

现金流量表 Cash Flow Statements

单位：人民币百万元 RMB Mn

	2021	2020	2019
经营活动产生的现金流量净额 Net cash flow from operating activities	35,316	5,181	13,972
投资活动产生的现金流量净额 Net cash flow from investing activities	-11,175	-11,588	-15,802
筹资活动产生的现金流量净额 Net cash flow from financing activities	-9,632	11,368	3,944
汇率变动对现金及现金等价物的影响 Effect of foreign exchange rate changes on cash and cash equivalents	-192	-146	48
现金及现金等价物净增加额 Net increase in cash and cash equivalents	14,316	4,814	2,163
期末现金及现金等价物余额 Cash and cash equivalents at the end of the period	27,908	13,591	8,777

第三部分

Section 3

公司ESG概况

ESG Overview



公司ESG概况—环境

ESG Overview – Environment

短期目标:

2023年建成首个“零碳工厂”；
2025年将累计推出**50余款**新能源车型；
持续推广可再生清洁能源的落地应用，增设**光伏电站**；
对生产过程中余热、余能、中水回用，**循环利用**。

Short-term goal:

In 2023: complete the construction of the first “zero carbon factory” ;
By 2025: launch an aggregate of over 50 NEV models;
Continue to promote the application of renewable clean energy, establish photovoltaic power stations;
Reuse and recycle residual heat, residual energy and reclaimed water.

长期目标:

公司坚持绿色生产，通过能源结构调整以及低碳工艺应用，围绕碳排放的全生命周期，建立汽车产业链条的循环再生体系。在新工厂规划中提升工厂电气化程度，减少高碳排放能源资源投入，推进电能替代，实现经济效益、环境效益以及社会效益最大化。

Long-term goal:

The Company insists on green production. Through energy structure adjustment and low carbon technology application, the Company will take into account the full life cycle of carbon emissions to establish an automobile industrial chain recycling system. During the new factory planning process, the Company will enhance factory electrification, reduce investment in/ input of high carbon emission energy resources, promote electricity as alternative fuel, in order to maximise economic benefits, environmental benefits as well as social benefits.



主机厂温室气体排放量密度

Greenhouse gas emission density of automobile production plant

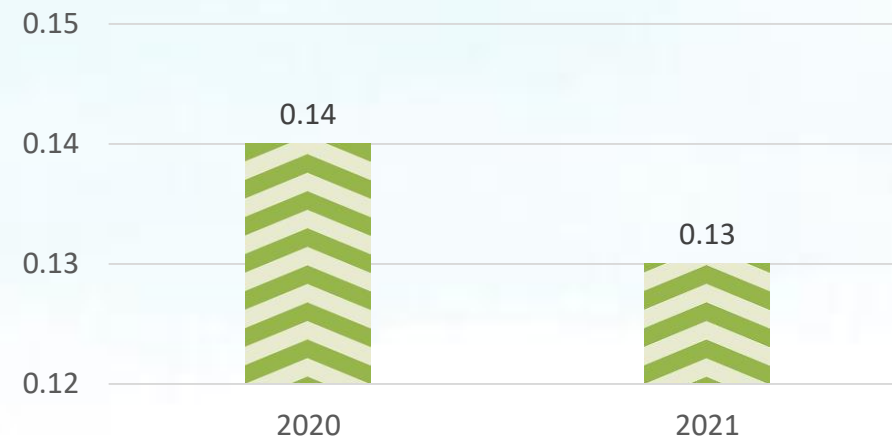
单位：tCO₂e/台车(Unit: tCO₂e/vehicle)



单台车综合能源消耗量

Comprehensive energy consumption per vehicle

单位：吨标准煤/台车(Unit: tons of standard coal/vehicle)



公司ESG概况—社会

ESG Overview – Social

供应商管理Supplier management

基于业务发展需求，多维度选择、评价供应商，开展供应链经营活动，打造稳定、可靠的供应商体系：

- ① 供应商资源规划
- ② 特殊供应商管理
- ③ 供应商技术储备

供应商体系
建设

核心供应商
业务管理

- ① 战略供方管理
- ② TOP100供应商管理
- ③ 零部件子公司管理
- ④ 新引入供应商管理

- ① 供应商业绩管理
- ② 供应链分等级管理
- ③ 供方经营状况分析

供应商评价
管理

供应商风险
管理

- ① 供应商风险管控
- ② 供应商经营状况分析
- ③ 供方定位分析
- ④ 供应链可持续发展

经销商管理Dealer management

在多元化的网络时代，2021年长城汽车践行以“用户需求”为导向，以“用户满意”为中心的忠诚服务标准，满足了客户从看车、试车、买车到用车、养车、换车的各方面需求。

In an era of diversified internet, Great Wall Motor in 2021 implemented loyalty service standards basing on “user needs” and “customer satisfaction”, to satisfy various customer needs, from viewing, test driving to buying cars, and from driving, car maintenance to changing cars.



客户权益保护Customer rights protection



长城汽车正式通过ISO 27001&27701认证，成为国内首个顺利通过ISO 27001&27701双认证的中国汽车品牌。未来长城汽车将持续强化信息安全隐私管理体系建设，始终把用户隐私保护放在第一位，建设高质量强防护的个人隐私数据保护能力，给用户带来极致的用车体验。

Great Wall Motor was officially granted ISO 27001 and 27701 certifications, becoming the first Chinese auto brand to receive double ISO certifications -- ISO 27001 and 27701 certifications in China. In future, Great Wall Motor will continue to enhance the development of information security and privacy management system. Always putting customer privacy protection first, the Company will develop strong data privacy and data protection skills to provide customers with ultimate driving experience.



社会公益Social welfare



长城汽车捐赠2000万元人民币驰援河南洪灾。

Great Wall Motor provided rapid financial assistance to Henan with a donation of RMB20 million.



长城汽车泰国公司向泰国捐赠100万泰铢并派出5台哈弗H6 HEV加入爱心抗疫车队。

Great Wall Motor's Thailand company donated 1 million Thai Baht to Thailand and dispatched five Haval H6 HEVs to participate in the anti-pandemic fleet.

公司ESG概况—公司治理

ESG Overview – Corporate Governance

合规风控Compliance risk control

风险为向导 Risks as the guidance

合规为底线 Compliance as the bottom line

内控为抓手 Internal control as the starting point



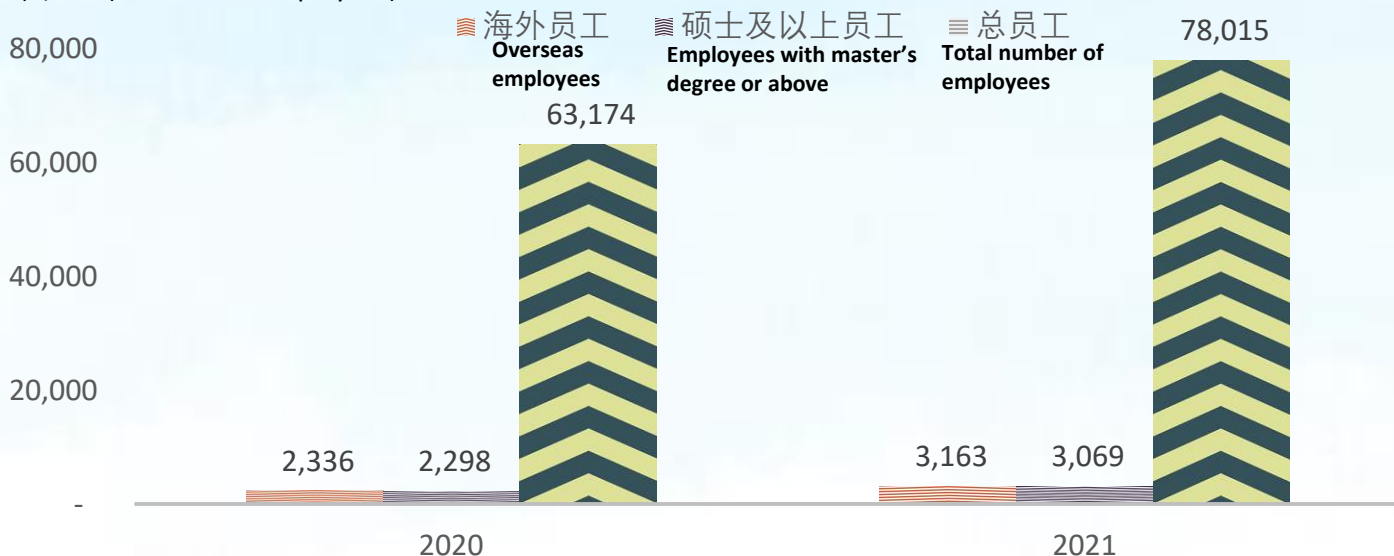
雇佣Recruitment

2021年，公司持续推进“科技人才万人计划”和“全球人才活水计划”，向全球化智能科技公司全面转型。

In 2021, the Company continued to push forward “Technology Talents – Ten Thousand Talents Plan” and “Global Talents Plan”, to transform itself into a global intelligent technology company.

员工雇佣情况Employment overview

单位:人(Unit: No. of employees)



廉洁建设Build a culture of integrity

加强组织领导，健全反腐倡廉工作机构

Strengthen organisational leadership, optimise mechanism for anti-corruption work and upholding integrity

注重廉洁教育，打造反腐倡廉文化

Focus on integrity education, create a culture of anti-corruption and upholding integrity

完善制度体系，规范反贿赂管理

Improve institutions and systems, standardise anti-bribery management

实施监督惩处，强化反腐倡廉纪律约束

Implement supervision and punishment, strengthen disciplinary mechanism to tackle corruption and uphold integrity



长城汽车正式被授予ISO 37001反贿赂管理体系证书，成为国内首家通过ISO 37001反贿赂管理体系认证的车企。
Great Wall Motor was officially granted ISO 37001 anti-bribery management system certification, becoming the first auto company in China to have a certified ISO 37001 anti-bribery management system.

第四部分
Section 4

新车型
New Car Models



新车型

New car models



哈弗 初恋
Haval Jolion

年轻人的第一台车
The first car for young people



哈弗 赤兔
Haval Chitu

新次元引擎座驾
Powerful car for the new generation



哈弗 H6S
Haval H6S

新世代潮跑利器
New-generation sedan



哈弗 神兽
Haval Shenshou

我的专属梦想坐骑
My dream car



新车型

New car models



魏牌 玛奇朵DHT
WEY Macchiato DHT

新一代智能SUV
New generation of smart SUV



魏牌 拿铁DHT
WEY Latte DHT

新一代智能DHT
New-generation smart DHT



魏牌 摩卡
WEY Mocha

新一代智能汽车人
New-generation Smart Car



欧拉 好猫GT
ORA Good Cat GT

新世代智美潮跑
New-generation stylish smart car



新车型

New car models



哈弗 酷狗
Haval Cool Dog

¾ 刻度潮酷座驾
¾ cool car



魏牌 圆梦
WEY Yuanmeng

复古潮驾SUV
Cool retro SUV



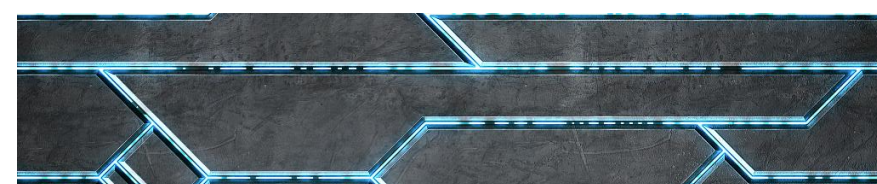
坦克500
TANK 500

商务豪华越野SUV
Business luxury off-road SUV



长城皮卡 金刚炮
Great Wall Pickup
King Kong POER

时尚商用皮卡
Fashionable commercial pickup



新车型

New car models



欧拉 芭蕾猫 ORA Ballet Cat

宝藏闺蜜
Treasure bestie



欧拉 闪电猫 ORA Lightning Cat

猫系超跑
Sports car in the Cat series



欧拉 朋克猫 ORA Punk Cat

行走的艺术品
Mobile artwork



沙龙 机甲龙 Saloon Mecha Dragon

高性能机甲战跑
High-performance mecha sports car



第五部分
Section 5

黑科技
Black Technology

黑科技-新能源-混动

Black Technology – New Energy – Hybrid



长城汽车始秉承“从用户需求出发”的设计理念，致力于动力总成技术创新，基于用户出行场景需求差异、驾驶风格喜好，自主研发三大混动平台：

Great Wall Motor upholds “user-centred” design concept, striving to achieve powertrain technological innovation; self-developed three major hybrid platforms basing on user driving scenarios and needs, driving style and preferences.



柠檬平台-智能DHT混动系统

Ningmeng platform – intelligent DHT hybrid system

1套DHT混动系统

1 set of DHT hybrid system

2种动力架构:HEV、PHEV

2 types of power architecture: HEV, PHEV

4大优势：快、顺、静、省

4 advantages: fast, smooth, quiet and economical

3种动力总成:1.5L+DHT100、1.5T+DHT130、1.5T+DHT130+P4

3 types of powertrain: 1.5L+DHT100, 1.5T+DHT130, 1.5T+DHT130+P4



柠檬平台-极致性能混动系统

Ningmeng platform – ultimate-performance hybrid system

自主研发全球首款9档混动双离合变速器

Self-developed the world's first 9HDCT

国内自主研发首款两档电驱动桥

The first domestic self-developed 2-speed electric drive axle

超大电量插电混动电池包

Plug-in hybrid battery pack with super large capacity



坦克平台-极致性能混动系统

TANK platform – ultra-performance hybrid system

自主研发3.0T V6发动机

Self-developed 3.0T V6 engine

自主研发全球首款9档混动自动变速器

Self-developed the world's first 9HAT

黑科技-新能源-纯电动

Black Technology – New Energy – Battery Electric



电池 Battery

化学体系：三元、磷酸铁锂、无钴、圆柱（在研）、半固态（在研）

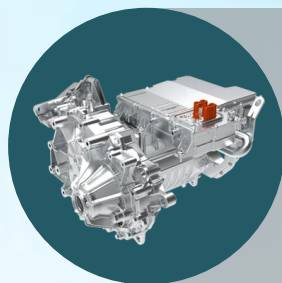
Chemical system: Ternary, lithium iron phosphate, cobalt-free, cylindrical shape (under R&D), semi-solid state (under R&D)

尺寸：短刀（长度：300-600mm）

Size: short-knife (Length: 300-600mm)

场景：乘用车、商用车、非高速电车、储能、工程机械

Applications: Passenger vehicles, commercial vehicles, non-high-speed electric vehicles, energy storage, mechanical engineering



45kW、110kW、135kW单档三合一电驱动系统

45kW, 110kW, 135kW single-speed 3-in-1 electric drive system

400V/800V功率模块、800VSiC控制器

400V/800V power module, 800VSiC controller

高压化、高速化、高效率、集成化

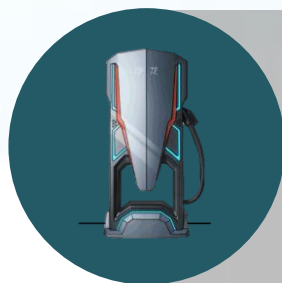
High voltage, quick acceleration, high efficiency, integration

电驱&电控
Electric drive &
electric control

热管理 Thermal management

大禹电池设计理念：热源隔断、双向换流、热流分配、定向排爆、高温绝缘、自动灭火、正压阻氧、智能冷却

The design concepts of Dayu Battery: Thermal cutoff, bidirectional converter, heat transfer, targeted explosive disposal system, high temperature insulation, automatic fire extinguisher, positive pressure ventilation to prevent oxygen release, intelligent cooling.



高集成 Highly integrated

高功率密度 High power density

智能化 Intelligentization

充电
Charging

黑科技-新能源-氢能

Black Technology – New Energy – Hydrogen Energy



氢柠技术：国际级“制—储—运—加—应用”一体化供应链生态
Qing Ning technology: World-class supply chain ecosystem integrating “production, storage, transportation, refueling and application”.



制氢 光伏电解水制氢

Hydrogen production: Hydrogen production via water electrolysis using photovoltaics



储氢 储氢装置

Hydrogen storage: Hydrogen storage equipment



运氢 储氢装置

Hydrogen delivery: Storage equipment for hydrogen transportation



加氢 加氢站、液氢泵（在研）、加氢机（在研）

Hydrogen fueling: Hydrogen fueling station, liquid hydrogen pump (under R&D), hydrogen fueling equipment (under R&D)



应用

Applications

燃料电池零部件：双极板、MEA、电堆、
储氢瓶、燃料电池发动机、空压机

Fuel cell components: bipolar plates, MEA, stacks, hydrogen storage container, fuel cell engine, air compressor

燃料电池整车：燃料电池乘用车、
燃料电池商用车、热电联供系统

Fuel cell vehicle: fuel cell passenger vehicles, fuel cell commercial vehicles, combined heat and power system



黑科技-智能网联-自动驾驶

Black Technology – Intelligent Connectivity – Autonomous Driving

中国首个自动驾驶数据智能体系——MANA（雪湖），该系统由数据原型系统、数据泛化系统、数据可视化平台、底层系统四个子系统组成，可支持深度学习、强化学习、模仿学习等 AI 技术的实现。

MANA, China's first autonomous driving data intelligence system, comprises four subsystems, namely data prototyping system, data generalization system, data visualization platform and an underlying system, which can help realise AI technologies such as deep learning, reinforcement learning, imitation learning, etc.

雪湖(MANA)

VENUS

Board

Fleet

Case

ParallelDriving

Insight

LUCAS

LucasView

TestOffline

TestOnline

LucasGo

Transfer

Labeling

Train

Generalization

CloudDiagnosis

HPC

TARS

TarsView

TarsGo

TarsMap

TarsMeta

BASE

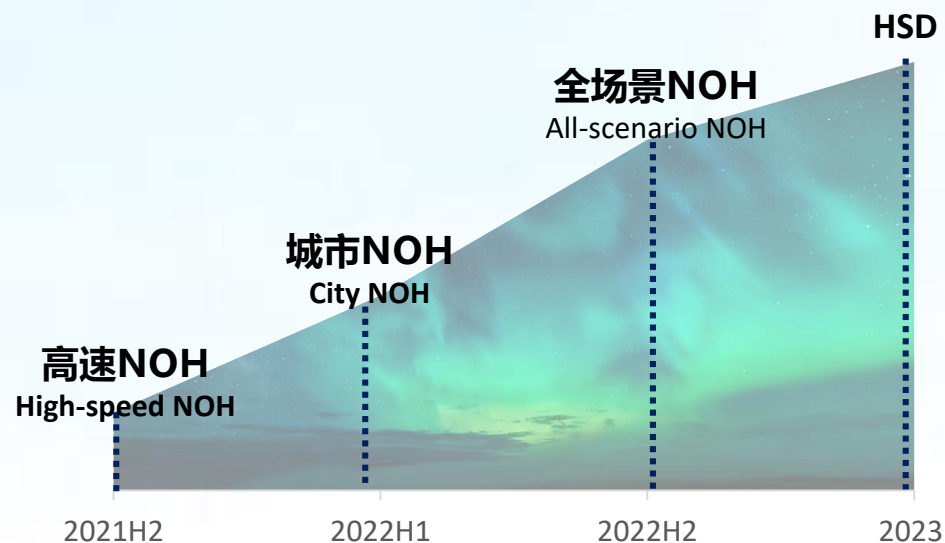
DataBase

DataService

DataAcquisition

ComputingService

PoseidonOS



黑科技-智能网联-智能座舱

Black Technology – Intelligent Connectivity – Smart Cabin



融合

Integration

2021

战略目标

Strategic goals

基于高通8155硬件平台，搭建语音、视觉多模交互及场景引擎的自研核心能力。

Leveraging Qualcomm SA8155P platform to develop in-house core competencies of voice, visual multimodal interaction and software development kit.

产品体验

Product experience

自研座舱操作系统
Self-developed cabin operating system

整车全域OTA
Automotive over-the-air update

三智融合
Integration of intelligent driving, smart cabins and smart services

AR-HUD

共创

Co-creation

2023

战略目标

Strategic goals

搭建下一代高算力座舱平台，建立标准化平台接口，打造以长城为主导的可插拔、可生长的智能座舱软硬件生态。
Develop next-generation cockpit platform with high computing power, establish standardised platform interface, create a pluggable and scalable smart cabin software and hardware ecosystem led by Great Wall Motor.

产品体验

Product experience

搭建智能生态系统
Build an intelligent ecosystem

车云一体场景引擎
Cloud-based E/E architecture

创新生态数据价值
Innovative ecosystem data value

业界领先的AI语音助手
Industry leading AI voice assistant

无界

Borderless

2025

战略目标

Strategic goals

基于咖啡智能的智能生态，围绕人、车、路、环境，以多元化移动空间，打造三智无界的AI智能座舱。
Building on the intelligent ecosystem of COFFEE Intelligence, create borderless AI smart cabins with diversified mobility space and three integrated intelligent features around people, vehicles, roads and environments.

产品体验

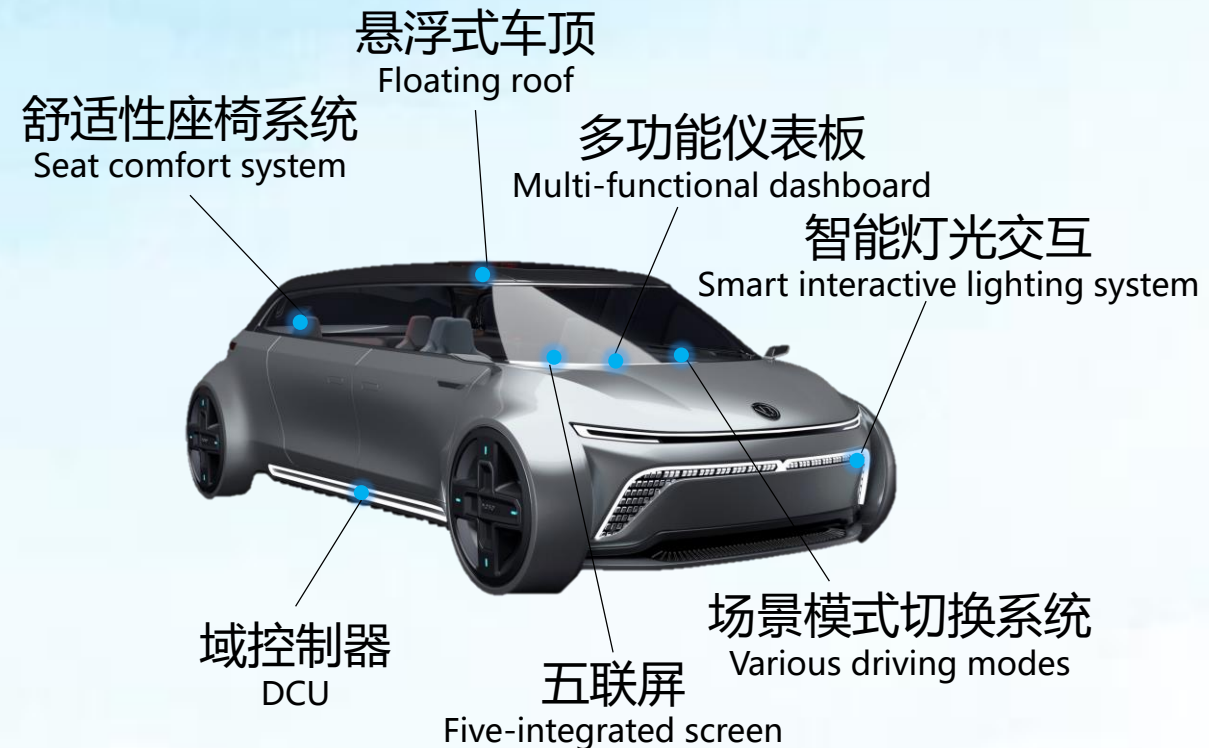
Product experience

出行大脑
Mobility intelligence

出行伴侣
Mobility partner

智能移动空间
Smart mobility space

A-IoT车家互联
A-IoT car-to-home connectivity



黑科技-智能网联-电子电器架构

Black Technology – Intelligent Connectivity – Electronic and Electrical Architecture



2021

2022

2024

GEEP 3.X

GEEP 4.0

GEEP 5.0

整车计算平台
Vehicle computing platform

中央网关
Central gateway

中央计算
Central computing

智能座舱
Smart cabin

自动驾驶
Self-driving

中央计算+智能座舱+自动驾驶
Central computing+ smart cabin+ autonomous driving

域控制器
DCU

动力
Power

车身
Car body

影音
Audio & Video

ADAS

区域
Domain

区域
Domain

区域
Domain

区域
Domain

区域
Domain

区域
Domain

分布式ECU
Distributed ECUs

多(Many)

中(Moderate)

少(Few)

域控制架构

Domain control architecture

应用软件自主开发

Self-developed application software

中央计算架构

Central computing architecture

功能域整合成3个计算平台

Functional domains are integrated into 3 computing platforms

3个区域控制器，承接I/O、供电及网关功能

3 domain controllers with I/O, power supply and gateway functions

标准化执行器、传感器

Standardised actuators and sensors

One Brain架构

One Brain architecture

1个中央大脑集成中央计算、智能座舱、自动驾驶

1 brain integrating central computing, smart cabin and autonomous driving

更多分布式ECU软件上移中央，I/O集成至区域控制器

More ECU software consolidated in the central unit, I/O integrated into domain controller

电子电器架构
E/EA

4个功能域控制器，整合域内功能

4 functional domains' controllers, integrating domain functions

软硬件解耦

Decoupling of software and hardware

黑科技-智能网联-线控底盘



Black Technology – Intelligent Connectivity – Wire-controlled Chassis

线控底盘是将驾驶员动作转化为电讯号，由电子执行机构实现对车辆控制的技术，是自动驾驶的基石，是实现自动驾驶的关键载体。

Chassis-by-wire is a technology that converts the driver's movements into electrical signals, which commands the electronic actuator to realise control of the vehicle. It is the cornerstone of autonomous driving and is instrumental in realising autonomous driving.

核心技术特点 Core technology highlights

人机解耦

Decouple human input from vehicle control

纯线控连接

Pure wired/ remote connection

高可靠性

High reliability

模块化集成

Modular integration

核心技术优势 Core technology advantages

系统性能升级

System performance upgrade

系统高度集成

Highly integrated system



问答环节

Q&A Session

