Changan Automobile Comprehensive Implementation of Carbon Emission Management

I. Product Carbon Footprint Assessment Coverage

Changan Automobile is committed to building a lifecycle carbon footprint management system and continuously expanding the scope of product carbon footprint assessment and disclosure. The public can also access carbon footprint data for over 100 Changan Automobile vehicle models on the "China Automotive Industry Carbon Footprint Public Platform" (http://www.auto-cpp.com/), covering 100% of passenger car models on sale and fully encompassing Changan Automobile's core products.

Looking ahead, Changan Automobile will further expand the coverage of vehicle models and enhance the depth of carbon footprint data disclosure. The Company will continue to maintain and improve traceable, comparable and verifiable carbon footprint information for all vehicles on sale. We firmly believe that improving the transparency of carbon data is not only an important step in supporting China's national "Dual Carbon" strategy and meeting industry compliance requirements, but also a critical action in fulfilling corporate social responsibility and promoting sustainable consumption. Changan Automobile will promote the disclosure and optimization of product carbon footprints to higher

standards, contributing to the creation of a low-carbon and trustworthy automotive consumption environment.

Brand	Car Series	Vehicle Sales Name	Fuel Type	Vehicle Type	Vehicle Class	Vehicle Carbon Footprint (gCO2e/km)	Note
AVATR	AVATR 06	2025 AVATR 06 Max BEV	Battery electric	Sedan	B	169.9	Calculation standard: Quantification Methods and Requirements for Greenhouse Gas Product Carbon Footprint - Passenger Cars (Automotive Industry Energy Conservation and Green Development Evaluation Center, 2026 Edition)
	AVATR 06	2025 AVATR 06 Max Range-Extended	Plug-in hybrid	Sedan	B	199.27	
	AVATR 06	2025 AVATR 06 Ultra BEV	Battery electric	Sedan	B	178.8	
	AVATR 06	2025 AVATR 06 Ultra Range-Extended	Plug-in hybrid	Sedan	B	207.23	
	AVATR 07	2026 AVATR 07 Max+ BEV	Battery electric	SUV	B	183.23	
	AVATR 07	2026 AVATR 07 Max+ Range-Extended	Plug-in hybrid	SUV	B	216.46	
	AVATR 07	2026 AVATR 07 Ultra BEV AWD	Battery electric	SUV	B	192.39	
	AVATR 07	2026 AVATR 07 Ultra Range-Extended	Plug-in hybrid	SUV	B	220.82	
	AVATR 11	2025 AVATR 11 Max BEV	Battery electric	SUV	C	185.88	
	AVATR 11	2025 AVATR 11 Max BEV AWD	Battery electric	SUV	C	194.82	
	AVATR 11	2025 AVATR 11 Facelift Max Range-Extended	Plug-in hybrid	SUV	C	215.31	
	AVATR 12	2026 AVATR 12 Four-LiDAR Max BEV	Battery electric	Sedan	C	176.18	
	AVATR 12	2026 AVATR 12 Four-LiDAR Max Range-Extended	Plug-in hybrid	Sedan	C	219.12	
DEEPAL	DEEPAL L06	2026 DEEPAL L06 560 Ultra+ LiDAR Edition	Battery electric	Sedan	B	140.29	

Brand	Car Series	Vehicle Sales Name	Fuel Type	Vehicle Type	Vehicle Class	Vehicle Carbon Footprint (gCO2e/km)	Note
	DEEPAL L06	2026 DEEPAL L06 670 Ultra+ LiDAR Edition	Battery electric	Sedan	B	148.94	
	DEEPAL L07	2026 DEEPAL L07 550 Ultra Huawei Qiankun ADS SE Edition	Battery electric	Sedan	B	145.16	
	DEEPAL L07	2026 DEEPAL L07 660 Ultra Huawei Qiankun ADS SE Edition	Battery electric	Sedan	B	153.54	
	DEEPAL L07	2026 DEEPAL L07 240 Ultra Huawei Qiankun ADS SE Edition	Plug-in hybrid	Sedan	B	175.78	
	DEEPAL S05	2026 DEEPAL S05 520 Max BEV	Battery electric	SUV	A	145.47	
	DEEPAL S05 EREV	2026 DEEPAL S05 620 Max BEV	Battery electric	SUV	A	154.88	
	DEEPAL S05 EREV	2026 DEEPAL S05 215 Max Range-Extended	Plug-in hybrid	SUV	A	182.26	
	DEEPAL S07	2026 DEEPAL S07 BEV 550 Max Huawei Qiankun ADS SE Edition	Battery electric	SUV	B	150.63	
	DEEPAL S07	2026 DEEPAL S07 BEV 630 Max Huawei Qiankun ADS SE Edition	Battery electric	SUV	B	151.65	
	DEEPAL S07	2026 DEEPAL S07 Range-Extended 230 Max Huawei Qiankun ADS SE Edition	Plug-in hybrid	SUV	B	196.15	
	DEEPAL S07	2026 DEEPAL S07 Range-Extended 300 Ultra Huawei Qiankun ADS SE Edition	Plug-in hybrid	SUV	B	187.37	
	DEEPAL S09	2025 DEEPAL S09 RWD Ultra+	Plug-in hybrid	SUV	D	242.12	

Brand	Car Series	Vehicle Sales Name	Fuel Type	Vehicle Type	Vehicle Class	Vehicle Carbon Footprint (gCO2e/km)	Note
	DEEPAL S09	2025 DEEPAL S09 AWD Ultra+ Premium Custom Edition	Plug-in hybrid	SUV	D	253.02	
	DEEPAL S09	2025 DEEPAL S09 Range-Extended RWD Ultra+ Ultra-Long Range Edition	Plug-in hybrid	SUV	D	252.94	
Nevo	Changan Qiyuan A06	2025 Changan Qiyuan A06 BEV 510 Max	Battery electric	Sedan	C	138.0	
	Changan Qiyuan A06	2025 Changan Qiyuan A06 BEV 630 Max	Battery electric	Sedan	C	145.6	
	Changan Qiyuan A06	2025 Changan Qiyuan A06 Range-Extended 240 Max	Plug-in hybrid	Sedan	C	169.84	
	Changan Qiyuan A07	2025 Changan Qiyuan A07 Blue Core BEV 515 Collector's Edition	Battery electric	Sedan	C	130.7	
	Changan Qiyuan A07	2025 Changan Qiyuan A07 Blue Core BEV 525 Flagship	Battery electric	Sedan	C	148.46	
	Changan Qiyuan A07	2025 Changan Qiyuan A07 Blue Core BEV 625 Flagship	Battery electric	Sedan	C	156.42	
	Changan Qiyuan A07	2026 Changan Qiyuan A07 Ultra-Long Blue Core BEV 730 Flagship	Battery electric	Sedan	C	159.05	
	Changan Qiyuan A07	2025 Changan Qiyuan A07 Blue Core Range-Extended 140 Elite	Plug-in hybrid	Sedan	C	172.87	
	Changan Qiyuan A07	2025 Changan Qiyuan A07 Blue Core Range-Extended 230 Flagship	Plug-in hybrid	Sedan	C	180.12	
	Changan Qiyuan A07	2026 Changan Qiyuan A07 Ultra-Long Blue Core Range-Extended 310	Plug-in hybrid	Sedan	C	185.8	

Brand	Car Series	Vehicle Sales Name	Fuel Type	Vehicle Type	Vehicle Class	Vehicle Carbon Footprint (gCO2e/km)	Note
		Flagship					
	Changan Qiyuan E07	2025 Changan Qiyuan E07 BEV 2WD 70 kWh Air Smart Edition	Battery electric	SUV	C	180.01	
	Changan Qiyuan E07	2025 Changan Qiyuan E07 Range-Extended 1.5T 245 km RWD Pro+	Plug-in hybrid	SUV	C	224.41	
	Changan Qiyuan Q05	2026 Changan Qiyuan Q05 405 Max	Battery electric	SUV	A0	124.36	
	Changan Qiyuan Q05	2026 Changan Qiyuan Q05 506 Max	Battery electric	SUV	A0	118.16	
	Changan Qiyuan Q07	2025 Changan Qiyuan Q07 215 Prestige	Plug-in hybrid	SUV	B	179.03	
	Changan Qiyuan Q07	2026 Changan Qiyuan Q07 215 LiDAR Flagship PLUS	Plug-in hybrid	SUV	B	192.75	
Changan Gravity	Changan Lumin	2026 Changan Lumin Treasure Edition 205 km Cool Love Mi	Battery electric	Sedan	A00	81.59	
	Changan Lumin	2026 Changan Lumin Treasure Edition 301 km True Love Mi	Battery electric	Sedan	A00	88.42	
	Eado	2025 Eado New Energy Smart New Blue Core 145 km High-Performance Edition	Plug-in hybrid	Sedan	A	159.82	
	Changan CS75	2025 Changan CS75 PLUS 4th Gen 1.5T New Blue Core Flagship	Gasoline	SUV	A	244.98	
	Changan CS75 PLUS	2025 Changan CS75 PLUS 4th Gen 1.5T New Blue Core Smart Excellence	Gasoline	SUV	A	245.15	
	Changan CS75 PLUS	2026 Changan CS75 PLUS Smart Champion Edition	Gasoline	SUV	A	247.8	

Brand	Car Series	Vehicle Sales Name	Fuel Type	Vehicle Type	Vehicle Class	Vehicle Carbon Footprint (gCO2e/km)	Note
		1.5T New Blue Core Smart Leader					
	Changan UNI-V	2025 Changan UNI-V 1.5T 500Bar High-Performance Edition	Gasoline	Sedan	A	226.96	

II. Full-Process Carbon Emission Intensity Assessment

During the raw material procurement stage, Changan Automobile implemented a supplier carbon footprint management plan and established a carbon footprint management system covering key Tier-1 suppliers. The Company requires suppliers to achieve a 30% reduction in carbon emissions by 2030, with requirements progressively aligned with industry benchmarks and strengthened over time.

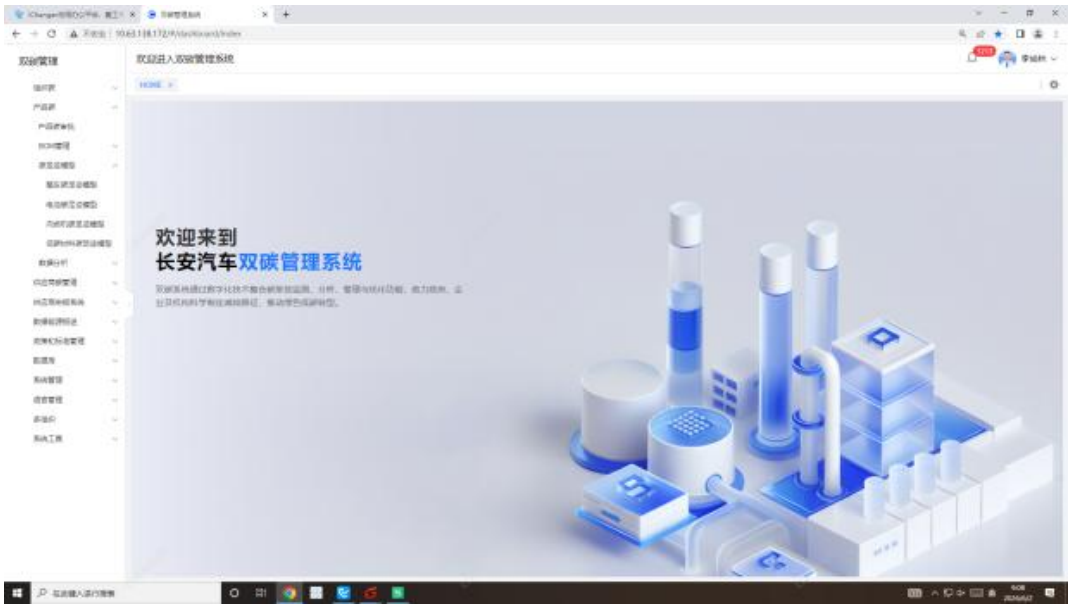

Figure 1: Changan Automobile "Dual Carbon Management System" Platform

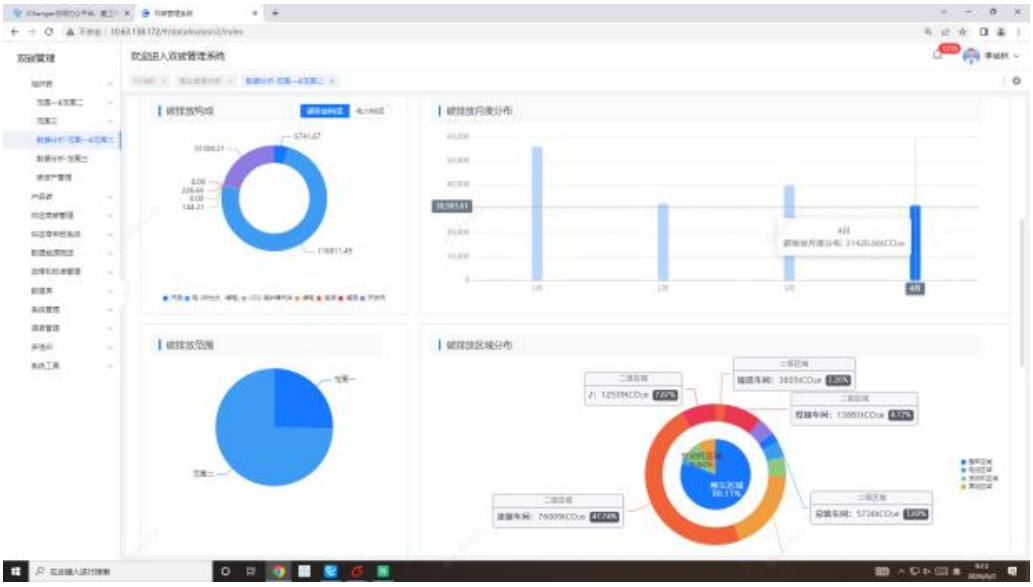

Figure 2: Changan Automobile "Dual Carbon Management System" Platform – Data

During the manufacturing and operations stage, Changan Automobile integrates low-carbon principles throughout the product lifecycle, identifying the key drivers of carbon emissions across all stages, including product design, raw material sourcing, and manufacturing. The Company has established a carbon footprint tracking and accounting system covering "R&D – Procurement – Production – Use – Recycling" to accurately measure environmental impacts and drive collaborative carbon reduction across the value chain.

During the transportation and logistics stage, Changan Automobile is progressively implementing carbon-emission-intensity assessment projects. Under the "Logistics and Transportation Carbon Reduction Plan," the Company plans to set requirements for carbon emission data and accounting in logistics transportation, aiming to establish detailed intensity assessment and management practices for this stage.

During the distribution and store operations stage, Changan Automobile initiated carbon reduction measures for the distribution segment in 2025 and is currently establishing a statistical system in phases. Partial quantification is expected to be achieved in 2026.

III. Full-Process Coverage of Energy Saving and Emission Reduction Measures

During the raw material sourcing stage, Changan Automobile requires key suppliers to implement comprehensive energy saving and emission reduction initiatives during material acquisition stage, and this requirement has now been fully implemented.

During the manufacturing and operations stage, Changan Automobile's energy saving and emission reduction projects at this stage have achieved full coverage. The Company strictly adheres to the "Five-Orientation" green factory philosophy in operations. Core manufacturing facilities are expanding the deployment of distributed photovoltaic systems, reducing annual CO2 emissions by more than 120,000 tonnes. Through process upgrades and smart energy management, energy consumption per unit of output value has decreased by 18% compared with 2020. Multiple facilities have obtained green factory certifications, and the comprehensive industrial solid waste recycling rate exceeds 98%. In addition, Changan Automobile has encouraged supplier partners to develop renewable energy projects, including distributed photovoltaic systems and wind power facilities, to increase the share of

self-generated renewable electricity. The Company also promotes technological innovation and collaboration in areas such as low-carbon processes, energy-saving equipment, and clean energy applications, and prioritizes the use of recycled materials, recyclable materials, and environmentally friendly materials. On average, suppliers have achieved a 10%-25% reduction in material-related carbon emissions, a 6%-30% reduction in production-related emissions, and a 1%-2% reduction in logistics-related emissions.

During the transportation and logistics stage, Changan Automobile formulated the "Logistics and Transportation Carbon Reduction Plan" in December 2025, with 2025 as the base year and phased targets set for 2026–2027. The intensity target is to reduce the carbon emission per unit of vehicle logistics in 2026 compared to the baseline year, with further reductions in 2027. The management target is to expand the carbon emission accounting coverage to include all transportation modes by 2026 and all transportation scenarios by 2027. Regarding low-carbon warehousing and facilities, the Company is promoting rooftop photovoltaic installations at warehouses to support solar power generation, storage, and on-site consumption.

长安汽车
CHANGAN

重庆长安汽车股份有限公司

物流运输降碳计划

2025年12月

Figure 3: "Logistics and Transportation Carbon Reduction Plan" document

阶段性目标

围绕 2026－2027 年整车物流减碳行动，长安汽车在充分考虑整车物流由一体化物流战略伙伴重庆长安民生物流股份有限公司统一承担、公路运输占比较高以及外部基础设施条件和业务发展不确定性的基础上，设置阶S 段性量化目标，用于引导行动实施并评估管理成效。相关目标以 2025 年为基准年，重点聚焦运输结构优化、单位运输强度改善及一体化物流碳管理能力提升，并将结合实际运行情况进行动态评估和适度调整。

2026–2027 年整车物流减碳阶段性目标[4]

目标类型	目标维度	2025 年现状	2026 年目标	2027 年目标	说明
结构型目标	长距离纯公路运输量占比	运输量占比约 9%	控制新增	逐步下降	控制高碳结构，通过一体化运输规划与调度统一管理
	区域配送纯公路运输量占比	运输量占比约 25%，绿色运输占比为 0%	开展新能源运力试点	在成熟场景中逐步扩大应用	聚焦中短途与固定线路，兼顾交付稳定性
	短驳与调拨纯公路运输量占比	运输量占比约 28%，绿色运输占比为 0%	开展新能源运力试点	覆盖厂内、园区、接驳等场景	作为新能源运力优先应用场景推进
	铁路运输应用	运输量占比约 25%	稳定运行若干核心线路	扩展成熟线路应用	由统一运营主体整体统筹资源，以运行稳定性为前提
	水路运输应用	运输量占比约 2%	保持并优化既有线路	稳步扩大适用场景	结合港口条件与航线资源推进
	多式联运应用	运输量占比约 47%	增加多式联运应用场景	持续增加成熟应用场景	以线路或运输场景数量作为主要衡量方式
强度型目标	单位整车物流碳排放强度		较基准年下降	持续下降	以 2025 年为基准年
	长途公路单位运输强度	/	明显改善	持续改善	通过路径、装载率和调度优化实现
管理型目标	碳排放核算覆	尚未系统覆盖	覆盖全部运输	覆盖全部运输	水/公/铁统一口径

Figure 4: "Logistics and Transportation Carbon Reduction Plan" – phased logistics carbon reduction targets

3.1 公路运输减碳措施

3.1.1 长途公路运输（跨区域干线）

长途公路运输承担整车跨区域调配的重要功能，短期内仍是保障交付稳定性的主要方式。长安汽车在该运输场景下，将减碳管理重点放在提升运输效率和降低单位运输量排放强度，通过优化运输组织和逐步调整运输结构，在不影响交付时效的前提下持续降低碳排放水平。

行动措施清单
运输组织与效率
1. 建立跨区域干线运输“标准路径库”，明确推荐路线与禁用绕行路线
2. 定期对干线线路进行里程复核，识别并纠正非必要绕行
3. 设置最低装载率参考值，低于阈值的发运需进行内部复核
4. 推动多批次订单合并发运，减少低载运行
去返程与空驶管理
5. 对具备返程需求的线路，建立去返程协同机制
6. 将返程空驶率纳入线路运行评估
结构性调整
7. 定期筛选适合由铁路或水路替代的长距离公路线路
8. 将替代可行性评估纳入年度运输规划
9. 对已具备替代条件但仍采用公路运输的线路，明确阶段性调整计划

3.1.2 中短途公路运输（区域配送）

区域配送和中短途运输线路相对固定、频次较高，是整车物流中推进低碳运输最具现实可行性的环节。长安汽车优先在该类运输场景中推进低碳运输方式替代，通过优化配送组织和运输工具选择，逐步形成稳定的减排效果。

行动措施清单
运输工具替代
1. 梳理中短途固定线路清单，作为低碳运输优先替代对象
2. 在固定频次配送线路中，优先引入新能源或低能耗运输工具
3. 对低碳运输工具运行情况进行单独跟踪评估
配送组织优化
4. 合并区域内高频、低载配送需求，减少零散发运

Figure 5: "Logistics and Transportation Carbon Reduction Plan" – carbon reduction measures

During the distribution and store operations stage, Changan Automobile formulated the "Distribution and Store Operations Carbon Reduction Plan" in December 2025, with 2025 as the base year and phased targets set for 2026–2027. The Company aims to incorporate 100% of stores into data management by 2027. The corresponding energy saving and emission reduction measures cover Changan Automobile brand authorized stores and their affiliates, including 4S stores with both sales and after-sales functions, as well as sales-only or after-sales-only stores. The objectives are to achieve a year-on-year reduction of more than 8% in overall energy consumption across store operations, increase low-carbon facility coverage to 90%, achieve 100% coverage of core stores under the carbon management system, and continuously improve the overall low-carbon operational performance of the distribution and store operations network. The target is to reduce energy consumption intensity at store operations by 10% annually, with over 500 stores undergoing low-carbon retrofits. Distribution and store operations carbon

management training coverage will reach 100%. Through systematic capability building and standardized implementation, the Company will continuously optimize its store network operating model and steadily enhance low-carbon performance across the entire network.

Figure 6: "Distribution and Store Operations Carbon Reduction Plan" document

阶段性目标

围绕 2026–2027 年经销商减碳行动安排，阶段性目标的设定以引导行动实施、评估管理成效和支撑持续改进为主要目的。在充分考虑经销商授权经营模式、门店类型差异以及现实运营条件的基础上，阶段性目标不以统一的绝对减排指标为导向，而是侧重运营用能强度改善、管理能力提升以及低碳实践逐步落地。

2026–2027 年经销商减碳阶段性目标[2]

目标类型	目标维度	2025 年现状	2026 年目标	2027 年目标	说明
强度型目标	单店运营用能强度	/	在部分门店实现用能强度改善	改善成效在更多门店复制	以 2025 年为基准年，通过照明、空调、设备运行管理实现
管理型目标	碳排放与能源数据管理覆盖	尚未系统覆盖	将不少于 50% 的经销商纳入统一的数据管理范围	在保持自愿参与和可执行前提下，纳入数据管理范围的经销商比例达到 100%	强调管理覆盖与口径统一，不作为绩效考核
	新能源业务相关用能管理	新能源业务用能未单独管理	明确试驾、交付、充电等用能边界并纳入管理范围	在成熟门店形成新能源业务用能规范管理模式	防止新能源业务扩展带来运营用能无序增长
	清洁能源应用	尚未形成规模化应用	完成清洁能源应用的条件评估和路径梳理	在具备条件的门店形成示范应用	以试点示范为主，不设统一强制要求

[2] 鉴于经销商运营环境、业务结构和外部条件可能发生变化，相关目标不作为刚性约束要求，而是根据实际推进情况进行动态评估和必要调整，确保经销商减碳工作始终与经营稳定和服务质量保持协调。

Figure 7: "Distribution and Store Operations Carbon Reduction Plan" – phased dealer carbon reduction targets