Volkswagen (China) Sales Co., Ltd. BMC Dealer Carbon Neutrality Project 2022 Carbon Neutrality Summary Report

Reporting year:

Inventory organization (official seal):

Beijing ZhongJianXie

Certification Center Go., Ltd.

Report date:

July 25, 2023



1. Information of th	e entrusting party			
Name of the entrusting party	Volkswagen (China) Sales Co., Ltd.	Address	Room 316, Kaili Building, No. 188, Tianbao Avenue, Tianjin Free Trade Zone (Tianjin Port Free Trade Zone)	
Nature of the unit	Limited liability company (sole proprietorship of foreign legal person)	Social unified credit code	911201167440132699	
Legal person or person in charge	Shen Xiaojie	Contact information	/	
Contacts	Ricky Yiu	Contact information	13810350302	
2. Third party orga	nization information			
Organization name	Beijing ZhongJianXie Certification Center Co., Ltd.	Address	20th Floor, Block A, Botai International Building, No. 122, Nanhu Eastern Park, Chaoyang District, Beijing	
Nature of the unit	Limited liability company	Social unified credit code	911101051020596956	
Legal person or person in charge	Wang Haishan	Contact information	13501388518	
Contacts	Zhang Yi	Contact information	18813103727	
Reporting period		January 1 to December 31,	, 2022	
Carbon neutrality	certification scope	Time of certification: 2022. Scope of certification: The direct and indirect greenhouse gas emissions generated from the Bentley car sales and workshop operations of 44 Bentley dealers., including: Bentley Shanghai – Jingan, Bentley Shenzhen – Luohu, Bentley Chengdu, Bentley Nanjing, Bentley Xiamen, Bentley Xian, Bentley Zhengzhou, Bentley Dongguan, Bentley Jinan, Bentley Jinhua, Bentley Ningbo, Bentley Guiyang, Bentley		



	Guangzhou – Tiyuzhongxin, Bentley Shanghai – Pudong, Bentley Wuxi, Bentley Taiyuan, Bentley Fuzhou, Bentley Jiaxing, Bentley Beijing – Wukesong, Bentley Nanchang, Bentley Nanning, Bentley Wuhan, Bentley Shenyang, Bentley Foshan, Bentley Dalian, Bentley Shenzhen – Nanshan, Bentley Hong Kong – DCH, Bentley Hong Kong - Kam Lung, Bentley Macau, Bentley Beijing – Sanlitun, Bentley Gunagzhou – Zhujiangxincheng, Bentley Hangzhou – Xihu, Bentley Kunming, Bentley Tianjin, Bentley Wenzhou, Bentley Chongqing, Bentley Harbin, Bentley Shijiazhuang, Bentley Hefei, Bentley Suzhou, Bentley Qingdao, Bentley Changsha, Bentley Hangzhou – Gongshu, Bentley Beijing - Yizhuang
Greenhouse gas emissions after inventory	Total greenhouse gas emissions: 6284.80 tCO ₂ eq. Including: total direct emissions from fossil fuel combustion 357.52 tCO ₂ eq. Total implied indirect emissions from net purchases of electricity and heat 5927.28 tCO ₂ eq.
Total purchase of CER and cancelled project	Cancelled CER: 6305 tCO ₂ eq. Cancelled project: The "Shenmu County Hengsheng Coal Chemical Co., Ltd. 30MW Semi-coke Waste Gas Power Generation Project" (Project No.: 4140, CERs cancellation volume: 4494 tCO ₂ eq.), the "Laiwu Iron Steel Group Laigang Inc. 25MW Waste Gas Power Generation Project" (Project No.: 1657, CERs cancellation volume: 641 tCO ₂ eq.), the "Yinshan Profiled Iron Co., Ltd. 25 MW Waste Gas Power Generation Project of Laiwu Iron Steel Group Corp" (Project No.: 1658, CERs cancellation volume: 562 tCO ₂ eq.), and the "Sichuan Wanyuan Baiyangxi Hydropower Station Project" (Project No.: 1984, CERs cancellation volume: 608 tCO ₂ eq.) certified by the Clean Development Mechanism (CDM).
Industry	F5261 new car retail
Standards and Methodology	ISO 14064-1: 2018 Greenhouse gases-Part 1: Specification



with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals

Guidelines for Accounting Methods and Reporting of Greenhouse Gas Emissions of Public Building Operating Units (Enterprises) (Trial)

ISO 14064-3: 2019 Greenhouse Gases Part III Specification with Guidance for the Verification and Validation of Greenhouse Gas Statements

PAS2060:2014 Specification for the demonstration of carbon neutrality

The carbon neutrality project implementation team of Beijing ZhongJianXie Certification Center Co., Ltd. (hereinafter referred to as "JCC") has completed carbon inventory reports for 44 Bentley dealers through pre-project preparation, carbon neutrality service training, and carbon inventory services. In addition, an independent technical review team, separate from the project implementation team, has completed internal technical reviews for all carbon inventory reports. Meanwhile, JCC has successfully assisted 44 Bentley dealers in purchasing and cancelling an equivalent amount of Certified Emission Reductions (CERs), ultimately achieving carbon neutrality certification for the full BMC Network in 2022. Carbon neutrality certificates have been issued to the 44 Bentley dealers that have achieved carbon neutrality. Based on the carbon inventory results and carbon neutralization of the 44 Bentley dealers in the BMC Dealer Carbon Neutrality Project, the following conclusions have been drawn:

1. Carbon inventory conclusion:

- 1.1 Compliance conclusion
- (1) The report format of 44 dealers' carbon inventory reports conforms to the relevant requirements of ISO 14064-1 2018 Greenhouse gases-Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals and the Guidelines for Accounting Methods and Reporting of Greenhouse Gas Emissions by Public Building Operating Units (Enterprises) (Trial);
- (2) The basic information of the 44 dealers is true and effective, and the identified accounting boundaries and emission sources conform to the actual situation;
- (3) The accounting methodologies adopted by the 44 dealers meet the requirements of the *Guidelines for Accounting Methods and Reporting of Greenhouse Gas Emissions by Public Building Operating Units (Enterprises) (Trial)*, and the emission calculation results are accurate;
- (4) The activity data and emission factors of 44 dealers are true and accurate, with complete and effective supporting evidence;



(5) The 44 dealers all have a preliminary foundation for carbon emission management. The carbon emission management personnel basically have the knowledge and ability related to carbon emission management, and have preliminarily mastered the statistics and calculation methods of greenhouse gas emissions.

1.2 Statement of annual carbon emission data

The total, direct and indirect greenhouse gas emissions of 44 dealers in 2022 are 6284.80 tCO₂ eq. 357.52 tCO₂ eq. and 5927.28 tCO₂ eq. respectively. See Table 1 for summary.

Table 1 Summary of greenhouse gas emissions of 44 dealers in 2022

	Emission type	Greenhouse gas emissions	Proportion	
Emission type		(Unit: tCO ₂ eq.)	(%)	
Direct emissions	Emissions from fossil fuel combustion	357.52	5.69	
Indirect	Implied emissions from net purchases	5027.20	04.21	
emissions	of electricity and heat	5927.28	94.31	
Total greenhouse gas emissions		6284.80	100	

2. Carbon neutrality certification conclusion

Under the deployment of "BMC Dealer Carbon Neutrality Project" of Volkswagen (China) Sales Co., Ltd., 44 dealers of Bentley Motors China have completed the carbon neutrality certification in 2022. The carbon emissions offset for the project is achieved through the purchase and cancellation of Certified Emission Reductions (CERs) generated by the following Clean Development Mechanism (CDM) certified projects:(1)"Shenmu County Hengsheng Coal Chemical Co., Ltd. 30MW Semi-coke Waste Gas Power Generation Project" (Project No.: 4140, CERs cancellation volume: 4494 tCO2eq.), (2)"Laiwu Iron Steel Group Laigang Inc. 25MW Waste Gas Power Generation Project" (Project No.: 1657, CERs cancellation volume: 641 tCO2eq.),(3)"Yinshan Profiled Iron Co., Ltd. 25 MW Waste Gas Power Generation Project of Laiwu Iron Steel Group Corp" (Project No.: 1658, CERs cancellation volume: 562 tCO2eq.), (4)" Sichuan Wanyuan Baiyangxi Hydropower Station Project" (Project No.: 1984, CERs cancellation volume: 608 tCO2eq.). The total amount of the cancelled certified emission reduction was 6305 tons of carbon dioxide equivalent (tCO2eq.). The certification process and procedures are in accordance with the requirements of PAS 2060:2014 Specification for the demonstration of carbon neutrality, JCC-LSDT-001 Guidelines for Enterprise Carbon Neutralization Certification and relevant certification emission reduction standards.



44 Dealers of "BMC Dealer Carbon Neutrality Project" Summary of 2022 Carbon Inventory Arrangements

		Inventory mrangements		Date of
No.	Dealer Name	Dealer Abbreviation	Facility type	inventory
1	Shenyang Binchi Automobile Sales Service Co., Ltd.	Bentley Shenyang	4S	2023.3.24
2	Beijing Meihe Zhenyong Automobile Trade Co., Ltd.	Bentley Beijing - Sanlitun	Showroom+Workshop	2023.4.11
3	Beijing Haojunhang Automobile Sales Service Co., Ltd.	Bentley Beijing - Yizhuang	4S	2023.3.22
4	Dah Chong Hong Motors (Binli) Limited	Bentley Hong Kong - DCH	Showroom+Workshop	2023.3.31
5	Beijing Binjie Automobile Sales and Service Co., Ltd.	Bentley Beijing - Wukesong	Showroom+Workshop	2023.2.23
6	Shenzhen Kamlung Deli Motor Trading Co., Ltd.	Bentley Shenzhen - Nanshan	Showroom+Popup +Workshop	2023.3.15
7	Shanghai DCH Zhongbin Motors Sales Service Co., Ltd.	Bentley Shanghai - Jingan	Showroom+Workshop	2023.3.15
8	Shenzhen Haoyu Automobile Sales & Service Co., Ltd.	Bentley Shenzhen - Luohu	Showroom+Workshop	2023.3.21
9	Sichuan Dongjie Automobile Sales Service Co., Ltd.	Bentley Chengdu	4S	2023.3.7
10	Suzhou Binjie Automobile Sales & Service Co., Ltd.	Bentley Suzhou	Showroom+Workshop	2023.4.14
11	Kam Lung Motor BM Limited	Bentley Hong Kong- Kam Lung	Showroom+Workshop	2023.3.28
12	Tianjin Xinchang Taifu Trade Development Co., Ltd.	Bentley Tianjin	Showroom+Workshop	2023.3.21
13	Jiaxing He Bing Automobile Sales and Service Co., Ltd.	Bentley Jiaxing	4S	2023.3.6
14	Shanghai Yongdabincheng Automobile Sales & Service Co., Ltd.	Bentley Shanghai - Pudong	4S	2023.3.3
15	Hangzhou Tong Xie Bin Jie Automobile Sales and Service Co., Ltd.	Bentley Hangzhou - Gongshu	4S	2023.3.29
16	Guangzhou Hongyuekaiyu Automobile Sales & Service Co., Ltd.	Bentley Guangzhou - Tiyuzhongxin	Showroom+Workshop	2023.3.27
17	Nanning Bincheng Automobile Co., Ltd.	Bentley Nanning	4S	2023.3.21
18	Guangzhou He Yi Auto Trade Co., Ltd.	Bentley Gunagzhou -	Showroom+Workshop	2023.3.21



		Zhujiangxincheng		
19	Dongguan Huabin Automobile Sales and Service Co., Ltd.	Bentley Dongguan	4S	2023.3.17
20	Foshan Jinlong Automobile Trade Co., Ltd.	Bentley Foshan	4S	2023.2.28
21	Chongqing Dongjie Automobile Sales Service Co., Ltd.	Bentley Chongqing	4S	2023.4.13
22	Suzhou Binjie Automobile Sales & Service Co., Ltd. (Wuxi Branch)	Bentley Wuxi	Showroom only	2023.4.26
23	Zhejiang Hebin Auto Sales Service Co., Ltd.	Bentley Hangzhou - Xihu	Showroom+Workshop	2023.3.23
24	Jinan Haoyu Automobile Sales and Service Co., Ltd.	Bentley Jinan	4S	2023.3.20
25	Harbin Yuntong Binshi Automobile Sales and Service Co., Ltd.	Bentley Harbin	Showroom+Shared Workshop	2023.3.30
26	Zhengzhou Binchi Auto Sales Services Co., Ltd.	Bentley Zhengzhou	4S	2023.3.4
27	Qingdao Better Life Automobile Co., Ltd.	Bentley Qingdao	4S	2023.3.30
28	Jiangxi Hexie Binchi Automotive Sales & Service Co., Ltd.	Bentley Nanchang	4S	2023.3.10
29	Wuhan Huazheng Automobile Sales & Service Co., Ltd.	Bentley Wuhan	4S+Showroom	2023.3.20
30	Shaanxi Sunfonda Yingbin Auto Sales Services Co., Ltd.	Bentley Xian	Showroom+Workshop	2023.2.24
31	Fuzhou Lu Pu Automobile Sales and Service Co., Ltd.	Bentley Fuzhou	Showroom+Workshop	2023.3.14
32	Jinhua Yuntong Huibin Automobiles Sales and Service Co., Ltd.	Bentley Jinhua	4S	2023.2.25
33	Ningbo Hebin Motor Sales Co., Ltd.	Bentley Ningbo	4S	2023.3.1
34	Jiangsu Hebin Auto Co., Ltd.	Bentley Nanjing	4S	2023.3.21
35	Xiamen Haoyu Automobile Sales & Service Co., Ltd.	Bentley Xiamen	Showroom+Workshop	2023.3.9
36	Hunan Zhongte Automobile Sales & Service Co., Ltd.	Bentley Changsha	4S	2023.3.24
37	Wenzhou Jietong Auto Co., Ltd.	Bentley Wenzhou	4S+Showroom	2023.4.11
38	Dalian Hebin Motor Sales Co., Ltd.	Bentley Dalian	4S	2023.3.2
39	Guizhou Xinguixing Automobile Sales & Service Co., Ltd.	Bentley Guiyang	Showroom+Shared Workshop	2023.3.17
40	Shanxi Binchi Automotive Sales & Service Co., Ltd.	Bentley Taiyuan	Showroom+Workshop	2023.3.1



41	Hefei Hebin Motor Sales Co., Ltd.	Bentley Hefei	4S	2023.4.7
42	Shijiazhuang Hexie Binchi Automobile Sales and Service Co., Ltd.	Bentley Shijiazhuang	Showroom+Workshop	2023.4.6
43	King Glory Motors Limited	Bentley Macau	Showroom+Workshop	2023.3.29
44	Kunming Dongjie Automobile Sales & Service Co., Ltd.	Bentley Kunming	Showroom+Workshop	2023.4.4



Catalogue

1. Project overview	1
1.1 Project Background	1
1.2 Project basis	1
1.3 Project process	1
1.4 Project training	2
2. Summary and conclusion of carbon inventory results	3
2.1 Inventory process and method	3
2.2 Analysis of carbon inventory results	4
2.3 Inventory conclusion	14
3. Analysis and conclusion of future energy conservation and emission reduction measu	res15
3.1 Analysis and conclusion of management problems	15
3.2 Analysis and conclusion of technical problems	17
4. Summary and conclusion of carbon neutrality certification results	20
4.1 Purchase and cancellation of CERs	20
4.2 Carbon neutrality certification	21
5. Conclusion	26
5.1 Carbon inventory conclusion	26
5.2 Conclusion of recommendations on energy conservation and emission reduction	26
5.3 Carbon neutrality certification conclusion	26



1. Project overview

1.1 Project Background

Global warming is posing a huge threat to human society. Excessive carbon dioxide emissions are the main reason for global warming. Therefore, "carbon neutrality" has become the only way to go and the inevitable choice for sustainable development under the background of climate warming. In the automotive industry, the industrial change caused by "carbon neutrality" has also attracted constant attention. As a globally renowned luxury car brand, Bentley has officially launched the "BMC Dealer Carbon Neutrality Project" in 2022 to fulfill its social responsibility and achieve carbon neutrality goals. Entrusted by Volkswagen (China) Sales Co., Ltd., Beijing ZhongJianXie Certification Center Co., Ltd. (hereinafter referred to as "JCC") carried out a two-year carbon neutrality service for the "BMC Dealer Carbon Neutrality Project", which was to carry out the 2022 carbon neutrality certification for 44 Bentley dealers of the Bentley Motors China (hereinafter referred to as "BMC").

1.2 Project basis

- 1) ISO 14064-1 2018 Greenhouse gases-Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals
- 2) Guidelines for Accounting Methods and Reporting of Greenhouse Gas Emissions of Public Building Operating Units (Enterprises) (Trial)
- 3) ISO 14064-3 2019 Greenhouse Gases Part III: Specification with Guidance for the Verification and Validation of Greenhouse Gas Statements
- 4) PAS 2060:2014 Specification for the demonstration of carbon neutrality
- 5) JCC-LSDT-001 Guidelines for Enterprise Carbon Neutralization Certification

1.3 Project process

The carbon neutrality project implementation team of JCC has broken down the carbon neutral targets step by step in accordance with the relevant normative requirements and the carbon neutrality project work implementation plan. The details are as follows:

- (1) Preliminary preparation for carbon neutrality action
- (2) Identify the greenhouse gas emission ranges and accounting boundaries of each dealer
- (3) Identify emission sources and facilities within the accounting boundaries
- (4) Quantitative accounting of greenhouse gas emissions within the boundaries
- (5) Excavate the space for energy conservation and carbon reduction in the operation process of each dealer
- (6) Issue carbon inventory reports within the accounting boundaries
- (7) Offsetting residual carbon emissions by purchasing CERs



- (8) Issue carbon neutral certification certificates for each dealer
- (9) Prepare carbon neutrality summary report

1.4 Project training

In order to strengthen dealers' understanding of the carbon neutrality project, help dealers accurately understand their own "carbon emissions", and help dealers successfully achieve carbon neutrality, the inventory team held the "BMC Dealer Carbon Neutrality Project Training Meeting" for 44 BMC dealers. The training notice and training content are shown in Figure 1-

The training course contents include:

- (1) Background introduction of carbon neutrality project;
- (2) Interpretation of carbon inventory workflow and process documents;
- (3) Requirements of carbon inventory data collection;
- (4) Focus on energy conservation and carbon reduction;
- (5) Procurement description of carbon certified emission reductions;
- (6) Existing problems and precautions.

Training time: afternoon of February 17, 2023

Training method: online

Trainees: 44 dealers of carbon neutrality project in 2023

培训方式: 线上培训 北京中建协认证中心有限公司 培训软件: "腾讯会议"软件, 会议邀请码"832-733-967"。 "腾讯会议"电脑下载链接 https://meeting.tencent.com/download win.html?fromSource=sem83_gwzcw.447781123.4477849.447781166&bd_vid=116 关于开展宾利汽车中国经销商碳中和项目 41136694385159614. 二、培训对象 培训的通知 经销商: 2023 年碳中和项目的 18 家经销商(名单见附件 2) 参会人员: 各经销商的总经理、联系人, 因项目所需收集的数据 宣利汽车中国各经销商. 和资料涉及多个部门,为保证培训效果和提交资料完善度,建议总经 全球变暖正在对人类社会构成巨大的威胁,二氧化碳的过量排放 办、行政人事部门、销售部门、财务部门、售后部门、设备管理部门 是全球变暖的主要原因,因此"碳中和"也成为了气候变暖背景下的必 等部门的相关人员酌情参加。 经之路和可持续发展的必然选择。在汽车行业领域,"碳中和"引发的 三、培训内容 1.碳中和项目背景介绍; 产业变革也持续升温,宾利作为全球知名的豪华车品牌,为履行其社 2. 碳盘查工作流程及流程文件解读; 会责任、实现"碳中和"目标,现正式启动 2023 年"宾利汽车中国碳中 3. 碳盘查数据收集要求; 和项目"(见附件1)。 4. 节能降碳建议侧重点: 北京中建协认证中心有限公司受宾利汽车中国的委托,承担了"宾 5. 碳核证减排量采购说明: 利汽车中国碳中和项目"的技术服务工作。为确保本项目的顺利进行, 6. 存在的问题及注意事项 我中心计划于 2023 年 02 月 17 日举办 2023 年宾利汽车中国经销商 四、培训模式 线上培训采用"腾讯会议"直播的模式,由培训老师在线讲解,并 碳中和项目线上培训会,特邀请 2023 年碳中和项目的经销商安排相 设置线上互动答疑环节为参会人员实时解答相关问题。 关人员参加本次培训会。具体通知如下: 一、培训时间及方式 本次培训会的费用已包括在"宾利汽车中国碳中和项目"的技术 服务费用内,不额外收取任何费用。 2023年02月17日星期五,13:30-15:30。 六、培训须知





Figure 1-1 Training Notice and Training Content

2. Summary and conclusion of carbon inventory results

2.1 Inventory process and method

See Figure 2-1 for the technical route of JCC to organize and carry out the 2022 carbon inventory of "BMC Dealer Carbon Neutrality Project". The inventory of BMC dealers conducted by JCC follows the specifications and requirements of ISO 14064-3 2019 Greenhouse Gases Part III Specification with Guidance for the Verification and Validation of Greenhouse Gas Statements. This year's inventory mode is remote carbon inventory.



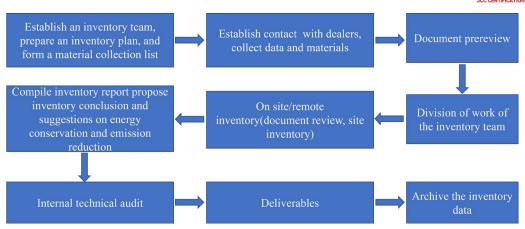


Figure 2-1 Technical Route of Carbon Emission Inventory

2.2 Analysis of carbon inventory results

2.2.1 Carbon inventory results

The time period of this inventory is 2022. The dealers' business types in the inventory are 6 categories, namely 4S, 4S+Showroom, Showroom+Workshop, Showroom+Shared Workshop, Showroom only, Showroom+Popup+Workshop. The types of emissions involved include direct emissions from fossil fuel combustion and implied indirect emissions from net purchased electricity and heat. The carbon inventory results obtained from the inventory are shown in Table 2-1.

According to Table 2-1, in 2022, the total direct emissions from fossil fuel combustion of 44 dealers were 357.52 tCO₂. The total indirect emissions implied by net purchased electricity and heat consumption were 5927.28 tCO₂, and the total greenhouse gas emissions were 6284.80 tCO₂. The average direct emissions from fossil fuel combustion of 44 dealers were 8.13 tCO₂, the average implied indirect emissions of net purchased electricity and heat consumption were 134.71 tCO₂, and the average total greenhouse gas emissions were 142.84 tCO₂. The total direct emissions accounted for 5.69% of the total greenhouse gas emissions, and the total indirect emissions accounted for 94.31% of the total greenhouse gas emissions. Overall, indirect greenhouse gas emissions are the main form of greenhouse gas emissions at Bentley dealers in BMC.

(1) Greenhouse gas emissions of dealers of different business types in 2022

By analyzing the greenhouse gas emissions of 44 dealers of different business types in 2022(as shown in Figure 2-2), the total greenhouse gas emissions generated by Bentley dealers in category 4S (20 dealers) was 2993.96 tCO₂, accounting for 47.64% of the total greenhouse gas emissions of all Bentley's dealers, which account for the highest proportion. The total greenhouse gas emissions generated by dealers in the category of "showroom+workshop" (18 dealers) was 2634.10 tCO₂, accounting for 41.91% of the total greenhouse gas emissions of all



Bentley's dealers, second only to 4S. The total greenhouse gas emissions generated by dealers in the category of "Showroom+Popup+Workshop" (1 dealer) was 183.49 tCO₂, accounting for 2.92% of the total greenhouse gas emissions of all Bentley's dealers. The total greenhouse gas emissions generated by dealers in the category of "4S+showroom" (2 dealers) was 178.98 tCO₂, accounting for 2.85% of the total greenhouse gas emissions. The total greenhouse gas emissions generated by dealers in the category of "showroom+shared workshop" (2 dealers) was 178.06 tCO₂, accounting for 2.83 % of the total greenhouse gas emissions. The total greenhouse gas emissions generated by dealers in the "showroom only" category (1 dealer) was 116.21 tCO₂, accounting for 1.85% of the total greenhouse gas emissions, which account for the smallest proportion.

Greenhouse gas emissions of dealers of different business types in 2022

(unit: tCO2)

2634.10, 41.91%

2993.96, 47.64%

178.98, 2.85%

183.49, 2.92%

116.21, 1.85%

Showroom+Popup+Workshop
Showroom+Shared Workshop
Showroom+Workshop
Showroom+Workshop

Figure 2-2 greenhouse gas emissions of dealers of different business types in 2022

- (2) Greenhouse gas emissions of 44 dealers under different emission types in 2022 Based on the analysis of the greenhouse gas emissions of 44 dealers under different emission types in 2022 (as shown in Figure 2-3), Bentley Shenyang has the largest greenhouse gas emissions of 666.48 tCO₂; Bentley Kunming has the smallest greenhouse gas emission of 43.48 tCO₂.
- (3) Comparison of total greenhouse gas emissions by Bentley dealer in different years From FY2021 to FY2022, there were 26 Bentley dealers that continued to carry out carbon inventory and carbon neutrality certification. They are Bentley Shanghai Jing'an, Bentley Shenzhen Luohu, Bentley Chengdu Gaoxin, Bentley Nanjing, Bentley Xiamen, Bentley Xi'an, Bentley Zhengzhou, Bentley Dongguan, Bentley Jinan, Bentley Jinhua, Bentley Ningbo, Bentley Guiyang, Bentley Guangzhou Sports Center, Bentley Shanghai Pudong, Bentley



Wuxi, Bentley Taiyuan, Bentley Fuzhou, Bentley Jiaxing, Bentley Beijing - Wukesong, Bentley Nanchang, Bentley Nanning, Bentley Wuhan, Bentley Shenyang, Bentley Foshan, Bentley Dalian, and Bentley Shenzhen - Nanshan.Based on the comparison of greenhouse gas emissions (as shown in Figure 2-4) from these 26 Bentley dealerships in the years 2021-2022, the direct emissions from fossil fuel combustion in 2021 amounted to 184.65 tCO₂, and the indirect emissions from net purchases of electricity and heat amounted to 3642.24 tCO₂, resulting in a total greenhouse gas emissions of 3826.89 tCO₂. In 2022, the direct emissions from fossil fuel combustion increased by 14.83% to 212.04 tCO₂, while the indirect emissions from net purchases of electricity and heat decreased by 3.68% to 3508.12 tCO₂, resulting in a total greenhouse gas emission of 3720.16 tCO₂. Overall, the total greenhouse gas emissions in FY2022 slightly decreased by 2.79% compared to FY2021.



Table 2-1 Summary of 2022 Carbon Inventory Results of 44 Dealers

No.	Dealer Name	Dealer Abbreviation	Facility type	Energy type	Direct emissions (tCO ₂)	Indirect emissions (tCO ₂)	Greenhouse gas emissions (tCO ₂)
1	Shenyang Binchi Automobile Sales Service Co., Ltd.	Bentley Shenyang	4S	Hot water, electricity, gasoline	9.43	657.05	666.48
2	Beijing Meihe Zhenyong Automobile Trade Co., Ltd.	Bentley Beijing - Sanlitun	Showroom+Workshop	Electricity, gasoline	8.03	511.3	519.33
3	Beijing Haojunhang Automobile Sales Service Co., Ltd.	Bentley Beijing - Yizhuang	4S	Electricity, gasoline	1.93	242.43	244.36
4	Dah Chong Hong Motors (Binli) Limited	Bentley Hong Kong - DCH	Showroom+Workshop	Electricity, gasoline, diesel	24.32	185.10	209.42
5	Beijing Binjie Automobile Sales and Service Co., Ltd.	Bentley Beijing - Wukesong	Showroom+Workshop	Electricity, gasoline	21.32	176.73	198.05
6	Shenzhen Kamlung Deli Motor Trading Co., Ltd.	Bentley Shenzhen - Nanshan	Showroom+Popup +Workshop	Electricity, gasoline	21.20	162.29	183.49
7	Shanghai DCH Zhongbin Motors Sales Service Co., Ltd.	Bentley Shanghai - Jingan	Showroom+Workshop	Electricity, gasoline	7.25	166.98	174.23
8	Shenzhen Haoyu Automobile Sales & Service Co., Ltd.	Bentley Shenzhen - Luohu	Showroom+Workshop	Electricity, gasoline	10.50	163.21	173.71
9	Sichuan Dongjie Automobile Sales Service Co., Ltd.	Bentley Chengdu	4S	Electricity, gasoline, diesel, liquefied petroleum gas	18.90	151.96	170.86



10	Suzhou Binjie Automobile Sales & Service Co., Ltd.	Bentley Suzhou	Showroom+Workshop	Electricity, gasoline	22.33	140.73	163.06
11	Kam Lung Motor BM Limited	Bentley Hong Kong- Kam Lung	Showroom+Workshop	Electricity, gasoline, diesel	9.76	148.95	158.71
12	Tianjin Xinchang Taifu Trade Development Co., Ltd.	Bentley Tianjin	Showroom+Workshop	Electricity, gasoline	8.20	149.99	158.19
13	Jiaxing He Bing Automobile Sales and Service Co., Ltd.	Bentley Jiaxing	4S	Electricity, gasoline	5.22	151.00	156.22
14	Shanghai Yongdabincheng Automobile Sales & Service Co., Ltd.	Bentley Shanghai - Pudong	4S	Electricity, gasoline	9.12	144.00	153.12
15	Hangzhou Tong Xie Bin Jie Automobile Sales and Service Co., Ltd.	Bentley Hangzhou - Gongshu	4S	Electricity, gasoline	10.59	141.14	151.73
16	Guangzhou Hongyuekaiyu Automobile Sales & Service Co., Ltd.	Bentley Guangzhou - Tiyuzhongxin	Showroom+Workshop	Electricity, gasoline	3.00	146.94	149.94
17	Nanning Bincheng Automobile Co., Ltd.	Bentley Nanning	4S	Electricity, gasoline	5.35	139.57	144.92
18	Guangzhou He Yi Auto Trade Co., Ltd.	Bentley Gunagzhou - Zhujiangxincheng	Showroom+Workshop	Electricity, gasoline	7.09	136.29	143.38
19	Dongguan Huabin Automobile Sales and Service Co., Ltd.	Bentley Dongguan	4S	Electricity, gasoline	4.15	137.99	142.14
20	Foshan Jinlong Automobile Trade Co., Ltd.	Bentley Foshan	4S	Electricity, gasoline	2.43	138.45	140.88
21	Chongqing Dongjie Automobile Sales Service Co., Ltd.	Bentley Chongqing	4S	Electricity, gasoline	10.93	122.59	133.52
22	Suzhou Binjie Automobile Sales & Service Co., Ltd. (Wuxi Branch)	Bentley Wuxi	Showroom only	Electricity, gasoline	10.49	105.72	116.21



23	Zhejiang Hebin Auto	Bentley Hangzhou -	Showroom+Workshop	Electricity,	12.70	103.28	115.98
	Sales Service Co., Ltd.	Xihu	т	gasoline			
24	Jinan Haoyu Automobile	Bentley Jinan	4S	Electricity,	12.07	99.90	111.97
24	Sales and Service Co., Ltd.	Dentitey Jillan	43	gasoline	12.07	99.90	111.97
25	Harbin Yuntong Binshi Automobile	Bentley Harbin	Showroom+Shared	Electricity,	3.21	108.14	111.35
23	Sales and Service Co., Ltd.	Benney Haroin	Workshop	gasoline	3.21	108.14	111.55
26	Zhengzhou Binchi Auto	D 4 71 1	40	Electricity,	10.70	07.56	110.20
26	Sales Services Co., Ltd.	Bentley Zhengzhou	4S	gasoline, diesel	12.72	97.56	110.28
27	Qingdao Better Life Automobile	D 1 0' 1	40	Electricity,	2.75	105.50	100.27
27	Co., Ltd.	Bentley Qingdao	4S	gasoline	2.75	105.52	108.27
20	Jiangxi Hexie Binchi Automotive	D 1 37 1	4.0	Electricity,	2.40	105.40	107.00
28	Sales & Service Co., Ltd.	Bentley Nanchang	4S	gasoline	2.49		107.89
20	Wuhan Huazheng Automobile	Bentley Wuhan	4S+Showroom	Electricity,	9.51	95.73	105.04
29	Sales & Service Co., Ltd.			gasoline			105.24
20	Shaanxi Sunfonda Yingbin Auto	Bentley Xian Showroom+Works		Electricity,	8.74	89.25	07.00
30	Sales Services Co., Ltd.		Showroom+Workshop	gasoline			97.99
2.1	Fuzhou Lu Pu Automobile	D 1 D 1		Electricity,	5 0 5	05.00	22.25
31	Sales and Service Co., Ltd.	Bentley Fuzhou	Showroom+Workshop	gasoline	7.05	85.32	92.37
22	Jinhua Yuntong Huibin Automobiles	D 4 F1	40	Electricity,	5 .00	00.77	06.75
32	Sales and Service Co., Ltd.	Bentley Jinhua	4S	gasoline	5.98	80.77	86.75
22	N. J. H.P. M. G.L. G. T.J.	D. d. M. d.	40	Electricity,	4.00	70.55	0.4.42
33	Ningbo Hebin Motor Sales Co., Ltd.	Bentley Ningbo	4S	gasoline	4.88	79.55	84.43
2.4	T. Hill A. G. T.	D 4 M "	40	Electricity,	2.41	70.50	00.00
34	Jiangsu Hebin Auto Co., Ltd.	Bentley Nanjing	4S	gasoline	2.41	78.58	80.99
2.5	Xiamen Haoyu Automobile Sales &	D 4 77		Electricity,	4.64	50.55	
35	Service Co., Ltd.	Bentley Xiamen	Showroom+Workshop	gasoline	4.64	72.75	77.39



36	Hunan Zhongte Automobile Sales & Service Co., Ltd.	Bentley Changsha	4S	Electricity, gasoline	3.17	71.83	75.00
37	Wenzhou Jietong Auto Co., Ltd.	Bentley Wenzhou	4S+Showroom	Electricity, gasoline	3.61	70.13	73.74
38	Dalian Hebin Motor Sales Co., Ltd.	Bentley Dalian	4S	Electricity, gasoline, diesel	5.61	61.85	67.46
39	Guizhou Xinguixing Automobile Sales & Service Co., Ltd.	Bentley Guiyang	Showroom+Shared Workshop	Electricity, gasoline	0.19	66.52	66.71
40	Shanxi Binchi Automotive Sales & Service Co., Ltd.	Bentley Taiyuan	Showroom+Workshop	Electricity, gasoline, liquefied petroleum gas	7.39	53.05	60.44
41	Hefei Hebin Motor Sales Co., Ltd.	Bentley Hefei	4S	Electricity, gasoline	6.78	49.91	56.69
42	Shijiazhuang Hexie Binchi Automobile Sales and Service Co., Ltd.	Bentley Shijiazhuang	Showroom+Workshop	Electricity, gasoline	1.53	51.13	52.66
43	King Glory Motors Limited	Bentley Macau	Showroom+Workshop	Electricity, gasoline, diesel	4.35	41.42	45.77
44	Kunming Dongjie Automobile Sales & Service Co., Ltd.	Bentley Kunming	Showroom+Workshop	Electricity, gasoline	4.20	39.28	43.48
45	Total			/	357.52	5927.28	6284.80
46	Average			/	8.13	134.71	142.84
47	Prope	ortion (%)		/	5.69	94.31	100



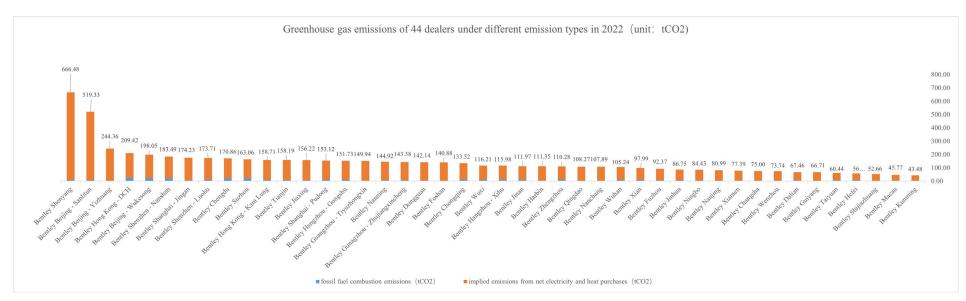


Figure 2-3 Greenhouse gas emissions of 44 dealers under different emission types in 2022



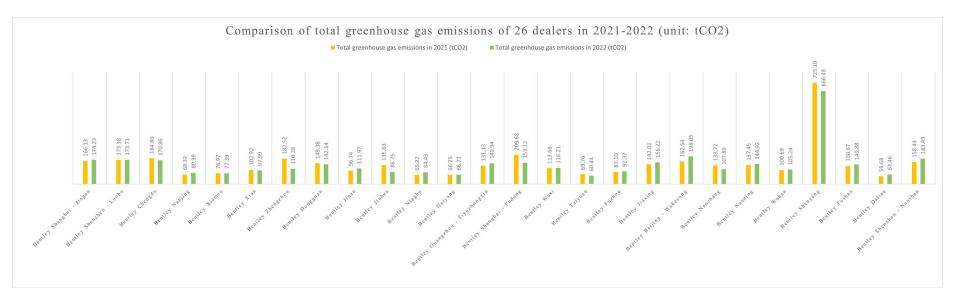


Figure 2-4 Comparison of total greenhouse gas emissions of 26 dealers in 2021-2022



2.2.2 Differential analysis of greenhouse gas emissions

Based on the analysis of the carbon inventory results, the factors causing the difference in greenhouse gas emissions are summarized as follows:

(1) Geographic environment factors

The energy consumption intensity of building heating and cooling is different in different geographical and climatic regions. Dealers in different provinces have different sunshine hours and temperature difference throughout the year, which leads to different energy consumption of public building lighting system and air conditioning system. For example, Bentley Shenyang, which has the largest greenhouse gas emissions, and Bentley Kunming, which has the smallest greenhouse gas emissions, have a more obvious impact on their greenhouse gas emissions.

(2) Building area factor

Due to variations in the management and operations of different dealers, the building area within their boundaries may differ. Different building areas can result in variations in the coverage and energy consumption of lighting systems, air conditioning systems, and ancillary systems. As the building area increases, there is a greater demand for heating, ventilation, and air conditioning, leading to differences in greenhouse gas emissions.

(3) Factors of energy use mode

The cooling and heating methods and operation management level of air conditioning in public buildings also affect its greenhouse gas emission level. For example, some dealers use split air conditioners to cool and heat the office and hospitality areas, while most dealers use central air conditioners to cool and heat the office and hospitality areas, leading to uneven levels of energy efficiency. Some dealers have the phenomenon of thermal auxiliary heating, such as Bentley Shenyang. Due to the large temperature difference in local winter, low overall temperature, and weak heating effect of central air conditioning, a combination of hot water and air conditioning is used to provide geothermal and hanging heating in 4S shop during the inventory.

(4) Energy structure factors

Most Bentley dealers primarily use electricity and gasoline as their energy sources. However, there are a few Bentley dealers that have certain differences in their energy structure. For example, some dealers use diesel-fired burners to heat fresh air in their paint baking room, employ diesel rescue vehicles for emergency response, use liquefied petroleum gas as fuel for their cafeteria stoves, and utilize hot water for winter heating. These variations in energy sources result in different carbon emission factors, which inevitably impact greenhouse gas emissions. For instance, Bentley Shenyang uses hot water for heating in their showroom and aftersales area. Bentley Hong Kong - DCH, Bentley Hong Kong-Kam Lung, and Bentley Macau use diesel as the energy source for their rescue vehicles. Bentley Chengdu - Gaoxin, Bentley Zhengzhou (January~March 2022), and Bentley Dalian (January 2022) all employ



diesel-fired burners for heating fresh air in their paint baking rooms. Bentley Chengdu - Gaoxin is equipped with diesel generators for emergency power supply. Bentley Chengdu - Gaoxin and Bentley Taiyuan use liquefied petroleum gas as fuel for their cafeteria stoves.

(5) Analysis of factors contributing to the changes from the previous year

According to the inventory results, comparing the carbon emission data of the first batch of 26 dealers in FY2021 and FY2022, it is found that the total greenhouse gas emissions of the first batch of 26 dealers in FY2022 decreased slightly compared with FY2021. Among them, the direct emissions from fossil fuel combustion by 26 Bentley dealers increased by 14.83% in FY2022 compared to FY2021, the frequency of use of test drives and official vehicles at 26 Bentley dealers increased, mainly due to the overall increase in vehicle sales and workshop service of each dealer in FY2022, which led to an increase in total direct greenhouse gas emissions. In FY2022, the total indirect emissions from the net purchase of electricity and heat by the 26 Bentley dealers decreased by 3.68% compared to FY2021. This can be attributed not only to a slight decrease of 1.84% in the average emission factor of the national power grid in FY2022 compared to FY2021 but also to an overall reduction in electricity and heat consumption by the Bentley dealers in FY2022. Therefore, it can be concluded that conducting carbon inventory and carbon neutrality certification can help the Bentley dealers identify and analyze energy waste, determine key areas for improvement and reduction of greenhouse gas emissions, identify potential for energy conservation and emission reduction, and optimize resource utilization efficiency.

2.3 Inventory conclusion

2.3.1 Compliance conclusion

Through the carbon inventory of 44 dealers in FY2022, the following compliance conclusions are drawn:

- (1) The report format of 44 dealers' carbon inventory reports conforms to the relevant requirements of ISO 14064-1 2018 Greenhouse gases-Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals and Guidelines for Accounting Methods and Reporting of Greenhouse Gas Emissions of Public Building Operating Units (Enterprises) (Trial);
- (2) The basic information of the 44 dealers is true and effective, and the identified accounting boundaries and emission sources conform to the actual situation;
- (3) The accounting methodologies adopted by the 44 dealers meet the requirements of the Guidelines for Accounting Methods and Reporting of Greenhouse Gas Emissions of Public Building Operating Units (Enterprises) (Trial), and the greenhouse gas emissions are calculated



accurately;

- (4) The activity data and emission factors of 44 dealers are true and accurate, with complete and effective supporting evidence;
- (5) The 44 dealers all have a preliminary foundation for carbon emission management. The carbon emission management personnel basically have the knowledge and ability related to carbon emission management, and have preliminarily mastered the statistics and calculation methods of greenhouse gas emissions.

2.3.2 Statement of greenhouse gas emissions in the current year

Through inventory, the direct and indirect emissions of 44 Bentley dealers in FY2022 are shown in Table 2-2.

Table 2-2 Summary of Greenhouse Gas Emissions of 44 Distributors in 2022

	Emission type	Greenhouse gas emissions (tCO _{2 eq.})	Proportion (%)
Direct emissions	Greenhouse gas emissions from fossil fuel combustion	357.52	5.69
Indirect emissions	Implied greenhouse gas emissions from net purchases of electricity and heat	5927.28	94.31
	Total greenhouse gas emissions	6284.80	100

It can be seen from table 2-2 that the total direct emissions from fossil fuel combustion of 44 dealers are 357.52 tCO₂eq., accounting for 5.69% of the total greenhouse gas emissions. The total implied indirect emissions from net purchased electricity and heat consumption is 5927.28 tCO₂eq., accounting for 94.31% of the total greenhouse gas emissions. The total greenhouse gas emissions are 6284.80 tCO₂eq.

3. Analysis and conclusion of future energy conservation and emission reduction measures

Through the site inventory and inquiry of 44 dealers, the inventory team has now provided feasible suggestions on energy conservation and emission reduction for dealers from the management and technical aspects.

3.1 Analysis and conclusion of management problems

3.1.1 Carbon emission management and construction level

According to the site inventory and communication, each dealer has preliminarily established



a carbon emission management system, established a carbon emission leading group, formulated carbon emission management objectives, clarified carbon emission responsibilities and work contents, and proposed a series of improvement measures for energy conservation and carbon reduction, but there are generally problems such as loose management and inadequate implementation.

Therefore, the strengthening and improvement of carbon emission management has become an urgent problem for dealers. It is suggested that dealers should further clarify the responsible departments and persons in charge, establish clear, specific and feasible assessment management methods and indicators, actively implement the energy conservation and carbon reduction measures proposed in the carbon emission management system, establish and improve the performance indicators of energy conservation and carbon reduction, and improve and refine the reward and punishment system to further strengthen carbon emission management.

3.1.2 Allocation and management level of energy measuring instruments

Through the site inventory, it is found that the allocation rate of energy measuring instruments of each dealer is generally low. Only a few dealers are equipped with Level 2 energy measuring instruments, and the energy consumption data statistics are not detailed and accurate enough to conduct classified accounting and analysis of greenhouse gas emissions of each energy consumption system. All dealers generally fail to establish a standardized account for energy measuring instruments. The readings of energy measuring instruments are not recorded separately, resulting in errors in activity data, single data source and other problems. A few dealers share the same electricity meters with other automobile sales companies. The electricity consumption is calculated by the methods of proportional distribution and conservatism, which leads to some errors in the data of electricity consumption.

Therefore, in order to improve the management level of energy measuring instruments of each dealer, the following suggestions are made:

- (1) Leaders at all levels should fully understand the importance of energy measurement management, attach importance to the construction of energy measurement management system, pay close attention to the implementation, and continue to strengthen the division of responsibilities and training management of energy measurement personnel.
- (2) Strengthen the construction of energy measurement management system. The establishment of energy and measurement management system can restrict the work behavior of energy measurement management staff.
- (3) Establish energy statistics and measuring instrument accounts, arrange special personnel to regularly count the status and readings of measuring instruments, and form a standardized and



unified energy data statistics account.

(4) Further improve the allocation rate of energy measuring instruments, so as to achieve effective management of the collection, processing and use of energy measurement data, and give full play to the quantification and detection of energy measurement data in the statistical analysis of energy balance and energy utilization during the company's operation.

3.2 Analysis and conclusion of technical problems

3.2.1 Analysis and conclusion of energy structure

According to the carbon inventory results and the site inventory, the proportion of indirect greenhouse gas emissions of each dealer in the total greenhouse gas emissions is far more than 80%. On the average of greenhouse gas emissions, the proportion of indirect greenhouse gas emissions is as high as 94.31%. Some dealers use diesel oil and liquefied petroleum gas, such as the paint baking room uses diesel engines to burn diesel oil to heat fresh air, rescue vehicles using diesel drive, diesel generators for emergency power supply, and canteens using liquefied petroleum gas stoves, etc.

Therefore, it is suggested to focus on reducing power and heat consumption and adjusting the energy structure.

- (1) Dealers with construction and construction conditions for the main building body can consider building roof distributed photovoltaic panels, using clean renewable energy instead of non-renewable energy to reduce greenhouse gas emissions.
- (2) Under the condition that the technical conditions are met, appropriate amount of green electricity shall be purchased to reduce the implied greenhouse gas emissions from electricity and provide renewable energy utilization.
- (3) For dealers who use diesel combustion as fresh air heating in the paint baking room, diesel drives rescue vehicles, and diesel generators are used for emergency power supply, it is recommended to change the heating method of the paint baking room to electric heating, and gradually replace diesel rescue vehicles with gasoline rescue vehicles or power-hungry rescue vehicles, so as to reduce the consumption of non-renewable energy diesel and further optimize the energy structure.

3.2.2 Analysis and conclusion of energy-consuming systems

According to the results of carbon inventory and remote inventory, the main emission sources of power consumption of each dealer are air conditioning systems, lighting systems and equipment and facilities in maintenance workshops. Due to its geographical location, Bentley Shenyang adopts a combination of hot water heating and central air-conditioning heating in winter heating and ventilation system. The indirect implied greenhouse gas emissions from net



purchased heat account for 68.69%. Therefore, the indirect greenhouse gas emissions generated by net purchase of electricity and heat can be reduced by increasing the energy conservation and carbon reduction transformation of major energy consumption systems. The suggestions for energy-saving transformation are summarized as follows:

(1) Energy consumption optimization of HVAC system

Through site investigation, it is found that Bentley Shenyang adopts a combination of hot water heating and central air-conditioning heating. It can take a series of measures to fully reduce heat consumption, thereby reducing implied indirect greenhouse gas emissions from net purchased heat. Specific suggestions are as follows:

- ① Strengthen the heat insulation of heat supply pipeline, and select the thermal insulation materials with low thermal conductivity and good thermal insulation performance;
- ② During the heating period, select a time period with sufficient sun for air exchange, reduce the air exchange frequency and reduce the heat loss in the heating area.
- ③ During the non-working period, the floor heating and closing temperature shall be lowered to maintain the low temperature operation. During the working time, the temperature shall be adjusted to the room temperature to reduce the floor heating heat output when no one is working.
- 4 The floor heating temperature shall be set reasonably to save energy effectively.
- (5) Make strategies such as external wall and internal insulation to improve indoor insulation performance and fundamentally reduce energy consumption.
- (2) Energy consumption optimization of air conditioning system

It is found through the remote inventory that the dealers' showrooms, reception areas and office areas all use central air conditioners for cooling and heating, only the reception area and office area of individual dealers adopt cabinet/hanging air conditioning, and some areas that do not have the conditions for central air conditioning coverage are equipped with hanging air conditioners. The operation time of the air conditioning system is basically more than 5 months. Therefore, in order to further reduce the energy consumption of the central air-conditioning system, dealers can further optimize the operation mode of the air-conditioning system and set the temperature (such as the 1 °C temperature plan) to reduce the energy consumption of the air-conditioning system. Specific suggestions are as follows:

- ① Strictly implement the standards related to indoor temperature control, and set the operating range of air conditioning temperature;
- ② Except for special purposes, the room temperature in offices, meeting rooms and other office areas shall not be $10 \, ^{\circ}\text{C}$ $30 \, ^{\circ}\text{C}$, and the air conditioning temperature shall not be lower than $26 \, ^{\circ}\text{C}$ in summer and higher than $20 \, ^{\circ}\text{C}$ in winter;
- 3 Select an appropriate air outlet angle. For example, the air outlet is upward during refrigeration and downward during heating;



- ④ Cooperate with electric fan and sunshade to reduce the impact on room temperature caused by solar radiation during cooling in summer;
- ⑤ Sunshade is set for the external unit of the air conditioner to avoid overheating of the external unit of the air conditioner due to direct sunlight, which will affect its own heat dissipation effect;
- ⑥ Turn off the air conditioner in time when no one is in the room, and do not open doors and windows during the operation of the air conditioner;
- The Clean the filter screen of the air conditioner regularly to improve the energy efficiency of the air conditioner.

For dealers equipped with cabinet/hanging air conditioners, a set of air conditioning equipment accounts should be formulated to do a good job in the operation and management of the air conditioning system. At the same time, the following measures can be taken to ensure the economic operation of the air conditioning system.

- ① Use of energy-efficient air conditioners: according to the equipment ledger, formulate an air conditioning update plan, and gradually replace low-efficiency air conditioners with high-efficiency air conditioners; When purchasing air conditioners, cabinet/hanging air conditioners with high energy efficiency levels should be preferred, usually the higher the energy efficiency level, the lower the energy consumption.
- ② Regular cleaning and maintenance: Regular cleaning and maintenance of cabinet/hanging air conditioners, including cleaning filters, condensers and evaporators and other components, to maintain the normal operation of air conditioners and reduce energy consumption.
- 3 Reasonable use of air conditioning: when using air conditioning, you can appropriately increase the temperature, avoid excessive cooling or heating, adjust the angle of air outlet, try to choose natural ventilation, and reduce the use time of air conditioning.
- ④ The use of indoor and outdoor shading materials: increase the use of indoor and outdoor building insulation materials, sunshades and shutters, reduce the transmission of indoor and outdoor temperatures, reduce the load of air conditioning, and reduce energy consumption.
- (3) Energy consumption optimization of lighting system

In the process of site inventory of each dealer, the inventory team found that there were situations such as using non-LED lights, still providing lighting when no one was operating at the work station, and not strictly implementing the control of lighting partitions.

In view of this situation, the suggestions given by the inventory team are summarized as follows:

① Accelerate the energy-saving transformation of lighting system, and complete the replacement of non-energy-saving lamps for conventional lighting as soon as possible (except for special lighting);



- ② The lighting system in the public area shall be equipped with automatic control switch, and the office and meeting room shall take full advantage of natural lighting;
- ③ Strengthen the power management, and consciously turn off the lighting equipment and various electrical appliances after work.
- (4) Energy efficiency improvement of equipment and facilities

The inventory team found in the document review that the equipment and facilities management accounts of most dealers were not complete. During the remote inventory, it was found that most dealers generally used electromechanical facilities in non-economic operation, such as low energy efficiency of air compressors, old equipment motors, non-frequency conversion control of lifts and other equipment. The dealers equipped with paint baking room did not fully recycle the waste heat generated by the heating of the paint baking room.

Therefore, the suggestions are summarized as follows:

- ① The main power consumption equipment and facilities can be considered to install frequency converter to reduce the excess power consumption caused by no-load and low load operation of equipment;
- ② Replace mechanical and electrical equipment with high energy efficiency labels to improve the energy efficiency level of equipment, such as replacing the air compressor with level 2 energy efficiency with level 1 energy efficiency;
- ③ The exhaust system of the paint baking room is equipped with a heat exchange core to fully recycle the waste heat of the waste gas;
- 4 Reasonably set the opening time of the electronic display screen and TV.

4. Summary and conclusion of carbon neutrality certification results

4.1 Purchase and cancellation of CERs

On the basis of the implementation of emission reduction measures and in accordance with the requirements of PAS2060 *Specification for the demonstration of carbon neutrality*, JCC confirmed the types of certified emission reductions (CERs) that can be used to offset the remaining emissions for 44 Bentley dealers, and reconfirmed the CERs that 44 Bentley dealers need to purchase and cancel based on scientific accounting methodology.

44 Bentley dealers completed the carbon emission offset in FY2022 by purchasing and canceling CERs generated by the following Clean Development Mechanism (CDM) certified projects:(1)"Shenmu County Hengsheng Coal Chemical Co., Ltd. 30MW Semi-coke Waste Gas Power Generation Project" (Project No.: 4140, CERs cancellation volume: 4494 tCO₂eq.),



(2)"Laiwu Iron Steel Group Laigang Inc. 25MW Waste Gas Power Generation Project" (Project No.: 1657, CERs cancellation volume: 641 tCO₂eq.),(3)"Yinshan Profiled Iron Co., Ltd. 25 MW Waste Gas Power Generation Project of Laiwu Iron Steel Group Corp" (Project No.: 1658, CERs cancellation volume: 562 tCO₂eq.), (4)" Sichuan Wanyuan Baiyangxi Hydropower Station Project" (Project No.: 1984, CERs cancellation volume: 608 tCO₂eq.). The total amount of the cancelled certified emission reduction is 6305 tCO₂eq. The coverage period is from January 1, 2022 to December 31, 2022.

4.2 Carbon neutrality certification

Based on the requirements of PAS2060:2014 Specification for the demonstration of carbon neutrality, JCC issued carbon neutralization certificates for 44 Bentley dealers who have completed the carbon emission offset in FY2022. See Table 4-1 for the carbon neutralization certification results.



Table 4-1 Summary of Certified Emission Reduction Cancellation and Carbon Neutrality Certification Results of 44 Distributors in 2022

No.	Dealer Name	Dealer Abbreviation	Facility type	Cancellation of CERs (tCO ₂ eq.)	Conclusion	Carbon neutrality certificate number
1	Shenyang Binchi Automobile Sales Service Co., Ltd.	Bentley Shenyang	4S	667	Complete cancellation	JCC-NEO-069
2	Beijing Meihe Zhenyong Automobile Trade Co., Ltd.	Bentley Beijing - Sanlitun	Showroom+Workshop	520	Complete cancellation	JCC-NEO-045
3	Beijing Haojunhang Automobile Sales Service Co., Ltd.	Bentley Beijing - Yizhuang	4S	245	Complete cancellation	JCC-NEO-042
4	Dah Chong Hong Motors (Binli) Limited	Bentley Hong Kong - DCH	Showroom+Workshop	210	Complete cancellation	JCC-NEO-041
5	Beijing Binjie Automobile Sales and Service Co., Ltd.	Bentley Beijing - Wukesong	Showroom+Workshop	199	Complete cancellation	JCC-NEO-046
6	Shenzhen Kamlung Deli Motor Trading Co., Ltd.	Bentley Shenzhen - Nanshan	Showroom+Popup +Workshop	184	Complete cancellation	JCC-NEO-064
7	Shanghai DCH Zhongbin Motors Sales Service Co., Ltd.	Bentley Shanghai - Jingan	Showroom+Workshop	175	Complete cancellation	JCC-NEO-048
8	Shenzhen Haoyu Automobile Sales & Service Co., Ltd.	Bentley Shenzhen - Luohu	Showroom+Workshop	174	Complete cancellation	JCC-NEO-065
9	Sichuan Dongjie Automobile Sales Service Co., Ltd.	Bentley Chengdu- Gaoxin	4S	171	Complete cancellation	JCC-NEO-071
10	Suzhou Binjie Automobile Sales & Service Co., Ltd.	Bentley Suzhou	Showroom+Workshop	164	Complete cancellation	JCC-NEO-038
11	Kam Lung Motor BM Limited	Bentley Hong Kong- Kam Lung	Showroom+Workshop	159	Complete cancellation	JCC-NEO-034



12	Tianjin Xinchang Taifu Trade Development Co., Ltd.	Bentley Tianjin	Showroom+Workshop	159	Complete cancellation	JCC-NEO-035
13	Jiaxing He Bing Automobile Sales and Service Co., Ltd.	Bentley Jiaxing	4S	157	Complete cancellation	JCC-NEO-067
14	Shanghai Yongdabincheng Automobile Sales & Service Co., Ltd.	Bentley Shanghai - Pudong	4S	154	Complete cancellation	JCC-NEO-052
15	Hangzhou Tong Xie Bin Jie Automobile Sales and Service Co., Ltd.	Bentley Hangzhou - Gongshu	4S	152	Complete cancellation	JCC-NEO-037
16	Guangzhou Hongyuekaiyu Automobile Sales & Service Co., Ltd.	Bentley Guangzhou - Tiyuzhongxin	Showroom+Workshop	150	Complete cancellation	JCC-NEO-063
17	Nanning Bincheng Automobile Co., Ltd.	Bentley Nanning	4S	145	Complete cancellation	JCC-NEO-068
18	Guangzhou He Yi Auto Trade Co., Ltd.	Bentley Gunagzhou - Zhujiangxincheng	Showroom+Workshop	144	Complete cancellation	JCC-NEO-031
19	Dongguan Huabin Automobile Sales and Service Co., Ltd.	Bentley Dongguan	48	143	Complete cancellation	JCC-NEO-053
20	Foshan Jinlong Automobile Trade Co., Ltd.	Bentley Foshan	4S	141	Complete cancellation	JCC-NEO-057
21	Chongqing Dongjie Automobile Sales Service Co., Ltd.	Bentley Chongqing	4S	134	Complete cancellation	JCC-NEO-044
22	Suzhou Binjie Automobile Sales & Service Co., Ltd. (Wuxi Branch)	Bentley Wuxi	Showroom only	117	Complete cancellation	JCC-NEO-047
23	Zhejiang Hebin Auto Sales Service Co., Ltd.	Bentley Hangzhou - Xihu	Showroom+Workshop	116	Complete cancellation	JCC-NEO-039
24	Jinan Haoyu Automobile Sales and Service Co., Ltd.	Bentley Jinan	48	112	Complete cancellation	JCC-NEO-061



25	Harbin Yuntong Binshi Automobile Sales and Service Co., Ltd.	Bentley Harbin	Showroom+Shared Workshop	112	Complete cancellation	JCC-NEO-029
26	Zhengzhou Binchi Auto Sales Services Co., Ltd.	Bentley Zhengzhou	4S	111	Complete cancellation	JCC-NEO-055
27	Qingdao Better Life Automobile Co., Ltd.	Bentley Qingdao	48	109	Complete cancellation	JCC-NEO-036
28	Jiangxi Hexie Binchi Automotive Sales & Service Co., Ltd.	Bentley Nanchang	4S	108	Complete cancellation	JCC-NEO-050
29	Wuhan Huazheng Automobile Sales & Service Co., Ltd.	Bentley Wuhan	4S+Showroom	106	Complete cancellation	JCC-NEO-054
30	Shaanxi Sunfonda Yingbin Auto Sales Services Co., Ltd.	Bentley Xian	Showroom+Workshop	98	Complete cancellation	JCC-NEO-056
31	Fuzhou Lu Pu Automobile Sales and Service Co., Ltd.	Bentley Fuzhou	Showroom+Workshop	93	Complete cancellation	JCC-NEO-060
32	Jinhua Yuntong Huibin Automobiles Sales and Service Co., Ltd.	Bentley Jinhua	48	87	Complete cancellation	JCC-NEO-049
33	Ningbo Hebin Motor Sales Co., Ltd.	Bentley Ningbo	4S	85	Complete cancellation	JCC-NEO-051
34	Jiangsu Hebin Auto Co., Ltd.	Bentley Nanjing	4S	81	Complete cancellation	JCC-NEO-070
35	Xiamen Haoyu Automobile Sales & Service Co., Ltd.	Bentley Xiamen	Showroom+Workshop	78	Complete cancellation	JCC-NEO-058
36	Hunan Zhongte Automobile Sales & Service Co., Ltd.	Bentley Changsha	4S	75	Complete cancellation	JCC-NEO-030
37	Wenzhou Jietong Auto Co., Ltd.	Bentley Wenzhou	4S+Showroom	74	Complete cancellation	JCC-NEO-043



38	Dalian Hebin Motor Sales Co., Ltd.	Bentley Dalian	4S	68	Complete cancellation	JCC-NEO-062
39	Guizhou Xinguixing Automobile	Bentley Guiyang	Showroom+Shared	67	Complete	JCC-NEO-066
	Sales & Service Co., Ltd.	, ,g	Workshop		cancellation	
40	Shanxi Binchi Automotive Sales & Service	Bentley Taiyuan	Showroom+Workshop	61	Complete	JCC-NEO-059
	Co., Ltd.				cancellation	
41	Hefei Hebin Motor Sales Co., Ltd.	Bentley Hefei	48	57	Complete	JCC-NEO-032
41				31	cancellation	
42	Shijiazhuang Hexie Binchi Automobile	Bentley Shijiazhuang	Showroom+Workshop	53	Complete	JCC-NEO-028
42	Sales and Service Co., Ltd.				cancellation	
43	King Glory Motors Limited	Bentley Macau	Showroom+Workshop	46	Complete	JCC-NEO-033
43					cancellation	JCC-11EO-033
44	Kunming Dongjie Automobile Sales & Service	Doubles: Vyymaine	Showroom+Workshop	44	Complete	JCC-NEO-040
	Co., Ltd.	Bentley Kunming		cancellation	cancellation	JCC-INEO-040
45	Total			6305	Complete	1
43				0303	cancellation	



5. Conclusion

5.1 Carbon inventory conclusion

All 44 BMC dealers have completed the carbon inventory in FY2022. Among them, the total direct emissions from fossil fuel combustion are 357.52 tCO_{2 eq.} The total implied indirect emissions from net purchased electricity and heat consumption are 5927.28 tCO_{2 eq.} The total greenhouse gas emissions are 6284.80tCO_{2 eq.}

5.2 Conclusion of recommendations on energy conservation and emission reduction

Aiming at the energy consumption and carbon emission type of each dealer, JCC has proposed targeted energy conservation and emission reduction measures from the management and technology levels to further implement emission reduction actions.

5.3 Carbon neutrality certification conclusion

Under the deployment of "BMC Dealer Carbon Neutrality Project" of Volkswagen (China) Sales Co., Ltd., 44 dealers of BMC have completed the carbon neutrality certification in FY2022, covering the period from January 1, 2022 to December 31, 2022. The project's carbon emissions are offset by purchasing and cancelling CERs generated by the following Clean Development Mechanism (CDM) certified projects:(1)"Shenmu County Hengsheng Coal Chemical Co., Ltd. 30MW Semi-coke Waste Gas Power Generation Project" (Project No.: 4140, CERs cancellation volume: 4494 tCO₂eq.), (2)"Laiwu Iron Steel Group Laigang Inc. 25MW Waste Gas Power Generation Project" (Project No.: 1657, CERs cancellation volume: 641 tCO2eq.),(3)"Yinshan Profiled Iron Co., Ltd. 25 MW Waste Gas Power Generation Project of Laiwu Iron Steel Group Corp" (Project No.: 1658, CERs cancellation volume: 562 tCO₂eq.), (4)" Sichuan Wanyuan Baiyangxi Hydropower Station Project" (Project No.: 1984, CERs cancellation volume: 608 tCO₂eq.). The total amount of the cancelled certified emission reduction is 6305 tCO₂eq. The certification process and procedures are in accordance with the requirements of PAS 2060:2014 Specification for the demonstration of carbon neutrality, JCC-LSDT-001 Guidelines for Enterprise Carbon Neutralization Certification and relevant certification emission reduction standards.