



SCIENCE
BASED
TARGETS

DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

SBTi Corporate Target Submission Form

Version 1.1 • April 2024

QUESTION	RESPONSE	EXPLANATIONS
Company name	SHUANGDENG GROUP CO., LTD.	Company name as you want it to be publicly displayed on the SBTi and its partner's websites, as well as in other communication materials. If you are using your company's legal designation, please make sure that the spelling, capitalization and punctuation of your company name is correct. If you are a CDP Responder and the name differs from how it appears in your CDP questionnaire response, please indicate how it differs.
Company ISIN	NA	An International Securities Identification Number (ISIN) is a code that uniquely identifies a specific securities issue. ISIN codes have a total of 12 characters consisting of both letters and numbers. If you do not have an ISIN, please write "NA".
Company LEI	NA	The Legal Entity Identifier (LEI) is a unique global identifier for legal entities participating in financial transactions. Also known as an LEI code or LEI number. The identifier is formatted as a 20-character, alpha-numeric code based on ISO 17442. It connects to key information that enables clear and unique identification of legal entities participating in financial transactions. If you do not have a LEI, please write "NA".
Organization type <small>Single choice question</small>	Company	Are you a state-owned enterprise, non-profit organization, international organization, or other type of organization? At the moment, the SBTi focuses on promoting corporate climate action and encourages companies from all sectors to demonstrate their leadership by committing to set targets and getting their targets validated by the SBTi. The initiative particularly welcomes companies from the highest emitting sectors as they play a crucial role in ensuring the transition towards a net-zero economy.
Headquarters' location (city)	Tai Zhou	Please indicate the city where your headquarters are located.
Headquarters' location (country) <small>Single choice question</small>	China	Please indicate the country where your headquarters are located.
VALIDATION SERVICE		
Active commitment <small>Single choice question</small>	Yes	Please indicate whether your company has an active commitment to set science-based targets.
Validation service option <small>Single choice question</small>	Near-term	Please select the target validation service option you are requesting. For more information on the target validation service, refer to our FAQs section entitled "Target Validation Service". Companies must already have approved near-term science-based targets in order to gain approval for long-term science-based targets. If you are submitting net-zero targets without having approved near-term targets in place that have been validated by the SBTi, please use the full service options.
Target update option <small>Single choice question</small>		Please indicate which targets you wish to update.
Validation service number <small>Single choice question</small>	First assessment	Please specify how many times your company has completed an assessment with SBTi. For further information on the benefits and costs of the target validation service, please refer to the FAQs.
Fee exemption <small>Single choice question</small>	Yes	Please specify if you are applying for a fee exemption, ensuring your eligibility for such an exemption. Please select yes if you are eligible for and wish to request a fee exemption. Companies eligible for an exemption are those with yearly revenue under \$1 billion USD, who need it and are headquartered in developing countries and economies in transition, as defined by the United Nations Secretariat's Department of Economic and Social Affairs. To see the list of these countries please go to our FAQs.
Near-term criteria version <small>Single choice question</small>	5.2	Please indicate which version of the SBTi criteria you are submitting under.
Net-zero criteria version <small>Single choice question</small>		Please indicate which version of the SBTi Net-Zero Standard you are submitting under.
SBTi PARTNERS		
CDP Investor Climate Change Questionnaire <small>Single choice question</small>	Yes	Is your company a responder for the CDP Investor Climate Change Questionnaire for the year in which you have submitted your SBT? If your company has responded or intends to respond to the CDP Investor Climate Change Questionnaire in the year in which your company has submitted targets to the SBTi, select "yes". For example, your company has submitted targets to the SBTi for validation in 2024 and your company is disclosing to the CDP 2024 Investor Climate Change Questionnaire, you would select "yes". If your company has also responded to that questionnaire in the past, please attach the responses for your targets' base year and the most recent response together with your submission, if available. Whenever possible, the information provided in this form should be consistent with the relevant information in your CDP Questionnaire Response. If there are any significant inconsistencies, please explain them in Question 1.3.4.
Have you paid any of the SBTi partners (CDP, UN Global Compact, WRI, WWF, WMB) to receive technical advice to model your targets? <small>Single choice question</small>	No	You should only consider payments made to any of the partners (CDP, UN Global Compact, WRI, WWF or WMB) in exchange of technical advice, support or guidance to develop science-based targets or evaluate targets against the SBTi criteria other than payments for the target validation service (see FAQs).
Which partner(s) did you receive support from?	<input checked="" type="checkbox"/> CDP <input type="checkbox"/> UN Global Compact <input type="checkbox"/> WRI <input type="checkbox"/> WWF <input type="checkbox"/> WMB	If you selected "Yes", please state which partner(s) you obtained the service from.
What was the nature or scope of that service?		Please describe the nature and/or scope of the service provided by the above SBTi partner(s). This information is requested to prevent conflicts of interest when assigning members of our technical team to review targets. A conflict of interest is triggered when a company provides any significant amount of funds to any of the SBTi partner organizations (e.g., through a partnership, service offering, donation). Any SBTi partner organization with a conflict of interest (COI) must be excluded from the assessment process.
BUSINESS ACTIVITIES AND OPERATIONS		
Company sector(s)	Development, production and sales of mercury-free alkaline manganese batteries, lithium-ion batteries and charging devices, electronic equipment, valve-regulated batteries, power system integrated products, electronic power supply equipment UPS, battery backup, transfer storage, high-frequency switching power supply, communication room base station energy-saving products.	Please list the main sector(s) your company operates in. No specific classification system is prescribed here, but if possible, we recommend the use of the SBTi sector classification. If your company is involved in multiple sectors, please estimate the percentage of activity in each sector. If your company is a real estate investment trust (REIT), please specify if it is an equity REIT or a mortgage REIT (mortgage REITs will have to validate targets using the SBTi framework for Financial Institutions). Furthermore, financial institutions will need to follow the SBTi framework for Financial Institutions and submit targets using the SBTi Target Submission Form and Guidance for Financial Institutions. For a definition of financial institutions, please see the financial institution sector homepage. Note that the SBTi cannot officially validate or approve certain sectors' targets due to lack of an available methodology to assess the company's target(s) in a credible manner.
SBTi sector classification <small>Single choice question</small>	Electrical Equipment and Machinery	Based on the sector(s) you have listed above, please select the SBTi sector that is most representative of your company's business activities.
Employees	1,589	Please enter the total number of employees.
Company structure	Development, production and sales of mercury-free alkaline manganese batteries, lithium-ion batteries and charging devices, electronic equipment, valve-regulated batteries, power system integrated products, electronic power supply equipment UPS, battery backup, transfer storage, high-frequency switching power supply, communication room base station energy-saving products.	Please outline the main business segments that exist within your company, and provide an overview of the business activities that take place within each division.
Products and services	Research, development, production, and sales of meResearch, development, production, and sales of mekaline manganese batteries	Please provide a description of the products and/or services sold by your company.
Geographies		Please provide an overview of the the various locations operated in.
Additional information	https://www.shuangdeng.com.cn/	Please provide additional information, if any. You may also wish to provide links to webpages with additional information, or attach further supporting documentation with your submission.
WEBSITE LINKS		
Company website	https://www.shuangdeng.com.cn/	Please include a link to the English language version of your company's website.
Sustainability report	https://www.shuangdeng.com.cn/	Please include a link to the English language version of your company's most recent sustainability report.
Annual report	https://www.shuangdeng.com.cn/	Please include a link to the English language version of your company's most recent annual report or financial report.
PARENT/SUBSIDIARY INFORMATION		
Is your company a subsidiary of a larger holding company? <small>Single choice question</small>	No	Please select from dropdown.
Does your company have any subsidiaries? <small>Single choice question</small>	Yes	Please select from dropdown.
Does your parent company and/or any of your subsidiaries have approved SBTs, or commitment(s) to set SBTs? <small>Single choice question</small>	No	Please select from dropdown.
What science-based targets do these organizations have, or plan to have, in place?		Please indicate the name of the parent company and/or subsidiary companies, a short description of the relationship with your company, and any plans for their submission to SBTi.
Is your company is involved in the sale, transmission, and distribution of fossil fuels? <small>Single choice question</small>	No	Please select from dropdown.
What percentage of your company's revenue comes from the sale, transmission, and/or distribution of fossil fuels?		Please enter the percentage of overall revenue that is generated by these activities. Please also provide the source of this information (e.g., financial report).
Is your company involved in financial institution related activities? <small>Single choice question</small>	No	The initiative defines a financial institution as one that engages in investment activities as part of its core functions. These include, but are not limited to, the following: Asset management/asset owners, retail and commercial banking activities, insurance companies (when functioning as asset managers), mortgage real estate investment trusts (REITs).
What percentage of your company's revenue comes from financial institution related activities?		Please enter the percentage of overall revenue that is generated by these activities. Please also provide the source of this information (e.g., financial report).

QUESTION		RESPONSE				GUIDANCE								
Does your inventory follow the GHG Protocol Corporate Standard?		Yes				Please indicate if your inventory is in accordance with The Greenhouse Gas Protocol, A Corporate Accounting and Reporting Standard and the Corporate Value Chain (Scope 3) Accounting and Reporting Standard.								
Has the company accounted for 100% of emissions-generating activities across the supply chain, either in the GHG inventory figures or exclusions figures provided?		Yes				All emissions must be represented in the data provided, regardless of magnitude or perceived immateriality.								
What level of third-party assurance was performed, if any?		<p>Applicant Shuangdeng Group Co., Ltd Address: No 999, Tianmu West Road, Jiangyan Economic Development Zone, Taizhou City, Jiangsu Province Verification object: Shuangdeng Group Co., Ltd Address: No 999, Tianmu West Road, Jiangyan Economic Development Zone, Taizhou City, Jiangsu Province Verification rules: June 1, 2024 ISO 14064-1:2018, ISO 14064-3:2019 Inventory Report Release Date: Organizational boundaries: Determine organizational boundaries based on operational control, including Shuangdeng Group Co., Ltd.'s production and office premises located at No 999 Tianmu West Road, Jiangyan Economic Development Zone, Taizhou City, Jiangsu Province. Direct GHG emissions within organizational boundaries. Indirect GHG emissions from imported energy. Indirect GHG emissions from transportation. Indirect GHG emissions from products used by an organization. Indirect GHG emissions associated with the use of products from the organization. Report Period: Reasonable</p> <p>Verification of the level of assurance: 2% Substantive threshold: January 1, 2023 - December 31, 2023 After verification, the greenhouse gas emissions of Shuangdeng Group Co., Ltd is 507951.09 tCO2e</p>				<p>Assurance is a process performed by an independent third-party accredited to perform verification and assurance of GHG emissions data.</p> <p>If you have obtained third-party assurance, or third-party assurance is underway, please provide details including: the name of the assurance provider(s), the relevant competencies of the assurance provider(s), the type of assurance, the scopes and proportions to which assurance has been provided, and the opinion issued by the assurance provider(s).</p> <p>Third-party assurance is best practice in emissions reporting as this ensures the quality of the calculation methods and underlying disclosed data and processes. The SBTi is developing a Standard that will provide guidance and recommendations for the verification of progress and achievement of science-based targets. More information available on the SBTi MRV website.</p>								
Consolidation approach <small>Single choice question</small>		Operational control				Please indicate the consolidation approach used to define the organizational boundary for your company's GHG inventory. For more information on this please refer to Chapter 3 "Setting Organizational Boundaries" of the GHG Protocol Corporate Standard.								
Justification		The organization is responsible for all greenhouse gas emissions and/or removals from facilities over which it has financial or operational control.				Please explain the reason for choosing the selected consolidation approach.								
Deviations		no				Please explain any deviations from the selected consolidation approach, if any.								
Financial accounting <small>Single choice question</small>		Yes				Please confirm whether the selected consolidation approach aligns with your company's financial accounting.								
Financial accounting exceptions						If the consolidation approach does not align with your company's financial accounting, please outline any inconsistencies.								
Relevant entities		Shuangdeng Group Co., Ltd Located at No. 999, Tianmu West Road, Jiangyan Economic and Technological Development Zone, Taizhou City, Jiangsu Province, the production and office premises specifically include: Production Plant 1#, Production Plant 2#, Production Plant 3#, Production Plant 4#, Production Plant 5#, Testing Technology Center, Fire Water Pump Room, Substation, Wastewater Treatment Pond, and Canteen				Please provide a list of entities captured in the GHG inventory accounting as per the organizational boundary approach chosen. This can be written here, or a link provided to a list or visual representation (such as SEC filing, or a diagram/organogram).								
Can you please confirm that you have included the scope 1, scope 2 and scope 3 categories 1-14 emissions from all subsidiaries in accordance with the chosen consolidation approach?		No				<p>Per GHG Protocol Corporate Standard, parent companies, with the ability to direct the financial and operating policies of the subsidiaries, shall include 100% of subsidiaries' emissions under operational or financial control approach. If the equity share approach is chosen, equity share of subsidiaries' emissions shall be included in the parent company's inventory.</p> <p>If subsidiaries already have their targets approved by SBTi, the parent company's target must still include the emissions of the subsidiary if it falls within the parent company's emissions boundary given the chosen inventory consolidation approach.</p>								
Which subsidiaries have you not included and why?		The greenhouse gas inventory only includes the group companies.				Please outline the reasons why any subsidiaries, if they are inside the organizational boundary as per the consolidation approach chosen, have been omitted from the GHG inventory.								
Can you please confirm that you have included the scope 1, scope 2 and scope 3 categories 1-14 emissions from all joint ventures, associates, affiliates and/or any other equity holdings, in accordance with the chosen consolidation approach?		Yes				As per GHG Protocol Corporate Standard, companies with the ability to direct the financial and operating policies of joint ventures, associates, affiliates and/or any other equity holdings, shall include 100% of these joint ventures' emissions under operational or financial control approach.								
Do you have any subsidiaries, joint ventures, associates, affiliates and/or any other equity holdings, that occur outside your organizational boundary?		No				Please select from dropdown.								
For any transport-related emissions, have they been calculated on a well-to-wheel (WTW) basis?		Yes				Transport-related emissions should follow the relevant sector guidance wherein emissions are reported on a well-to-wheel basis – this includes both the direct use emissions from fuel combustion (Tank-to-Wheel) but also upstream emissions related to fuel production and distribution (Well-to-Tank). Any transport-related emissions within the value chain, including subcontracted transport and other transportation outside the organizational boundaries should also follow the relevant sector guidance.								
Have WTW emissions been included in scope 3 category 4?		Yes				Please select from dropdown.								
Have WTW emissions been included in scope 3 category 6?		Yes				Please select from dropdown.								
Have WTW emissions been included in scope 3 category 7?		No				Please select from dropdown.								
Why have all transport-related emissions in the GHG inventory not been accounted for on a WTW basis?		Accounted for by transportation weight and distance.				If any of the above categories have not been accounted for on a well-to-wheel basis, explain these deviations and the reasons for them. Since WTW accounting is mandatory, please ensure that any omissions have been estimated and disclosed as exclusions from the GHG inventory.								
Does your company have Forest, Land and Agriculture (FLAG) related emissions?		No				Please note that many companies operating in non-designated FLAG sectors, will still have FLAG emissions. Common FLAG emissions existing in the value chains of non-FLAG designated sectors include emissions from the procurement of FLAG commodities such as paper, cotton, any food-based commodities, or any relevant LUC emissions from conversion of lands (e.g. various actors in the buildings sector).								
What is the reason for your response?		The company primarily manufactures batteries.				Please explain the FLAG emissions present in your GHG inventory, or provide a justification as to why your company does not have FLAG emissions.								
Year type		Calendar				The choice of a calendar year or a financial year is applied consistently across base years for scopes 1, 2 and 3.								
Scope 1 and 2 base year		2023				Please enter the scope 1 and 2 base year. Base years must cover a complete past calendar or financial year and should be the year for which your company has the most accurate data available.								
Scope 1 and 2 most recent year		2023				The SBTi permits most recent years of up to two years prior to the date of								
Is the base year and most recent year the same for scope 3?		Yes				Please select from dropdown.								
Emissions sources		Description of business		Absolute emissions, tCO2e		Total, tCO2e								
Stationary combustion fuels and Mobile combustion fuels and vehicle		Natural Gas, Liquefied Natural Gas		783.67		2,293.71								
Fugitive emissions		Gasoline, Diesel		75.17										
		Refrigerant R22, Septic Tank		1,434.87										
Which method will the company use to track		Market				State whether you plan to use the location-based or the market-based method								
Emissions sources		Description of business		Absolute emissions, tCO2e		Total, tCO2e								
Electricity		Purchased electricity - Grid		53,292.82		60,967.93								
District heating		Purchased steam		7,675.11										
Other heating/cooling														
What market-based instruments is your company		Purchased electricity - Grid electricity Purchased steam				Please provide a description of the market-based instruments you are								
How do these instruments meet the Scope 2		Electric meters are regularly calibrated annually. Flow meters are calibrated by the supplier. Thermometers and pressure gauges				Please provide information demonstrating how the above instruments meet								
General description		As a construction firm, the majority of our purchased goods and services emissions originate from building materials. We work with our most significant suppliers to obtain primary data for steel, cement, fabricated metal, stone and some others, and utilize a number of secondary databases for the remainder of our purchased items.						Total 1,404,887.00						
Key goods and services		Extrapolation, %		Representativeness		Emission factor source		Assumptions		Absolute emissions,				
Cement		<input checked="" type="checkbox"/> Primary data - supplier-specific <input type="checkbox"/> Primary data - product-specific <input type="checkbox"/> Secondary data - financial/spend <input type="checkbox"/> Secondary data - industry average		Less than 10% Local/supplier-specific		Tier 1 supplier		All cement produced by our primary cement supplier has consistent emissions intensity.		650,785.00				
Steel		<input checked="" type="checkbox"/> Primary data - supplier-specific <input type="checkbox"/> Primary data - product-specific <input type="checkbox"/> Secondary data - financial/spend <input type="checkbox"/> Secondary data - industry average		More than 25% Local/supplier-specific		Tier 1 supplier		NA		456,712.00				
Outsourced construction		<input type="checkbox"/> Primary data - supplier-specific <input type="checkbox"/> Primary data - product-specific <input type="checkbox"/> Secondary data - financial/spend <input checked="" type="checkbox"/> Secondary data - industry average		NA Country/regional		National GHG Emissions Conversions, DEFRA		Outsourced construction emissions intensity in Northern Europe matches intensity in UK.		23,054.00				
Architectural engineering and testing		<input type="checkbox"/> Primary data - supplier-specific <input type="checkbox"/> Primary data - product-specific <input checked="" type="checkbox"/> Secondary data - financial/spend <input type="checkbox"/> Secondary data - industry average		NA Global		Ecoinvent		Factors have been adjusted for inflation using Consumer Price Index from the Office for National Statistics.		68,691.00				
Glass and ceramics		<input type="checkbox"/> Primary data - supplier-specific <input type="checkbox"/> Primary data - product-specific <input checked="" type="checkbox"/> Secondary data - financial/spend <input type="checkbox"/> Secondary data - industry average		NA Country/regional		Ecoinvent		50:50 split of spend on tinted and patterned glass.		45,907.00				
Other		<input checked="" type="checkbox"/> Primary data - supplier-specific <input checked="" type="checkbox"/> Primary data - product-specific <input checked="" type="checkbox"/> Secondary data - financial/spend <input type="checkbox"/> Secondary data - industry average		10% to 25% Global		Various, including direct suppliers, UK GOV purchasing EEIO factors and IEA Emissions Factors		NA		159,738.00				
Please confirm that this is consistent with the GHG Protocol minimum boundary.		Confirmed.												
Please confirm that the emissions are reported on a cradle-to-gate basis.		Confirmed, all primary and secondary datasets used to calculate emissions include the extraction, production, and transportation (from tier-1 suppliers and beyond) of all goods and services purchased.												
Please confirm that all purchased services have been captured in the reporting.		Confirmed, PG&S includes 100% of activities in the base year of 2021, including the purchase of services such as marketing, accounting, legal, IT and other service types.												
General description		As a battery manufacturing company, the majority of emissions from our purchased goods and services primarily stem from metal materials. We collaborate with our most significant suppliers to obtain primary data for lead ingots, lead alloys, copper bars, copper cores, Ks-10 graphite, N220 carbon black, foam, foam padding blocks, cardboard boxes, PE packing straps, separators, shells, red lead, sulfuric acid, and some other materials. Additionally, we utilize several secondary databases to supplement data for the remainder of our purchased items.						Total 429,124.86						
Key goods and services		Extrapolation, %		Representativeness		Emission factor source		Assumptions		Absolute emissions,				
Lead Ingot		<input checked="" type="checkbox"/> Primary data - supplier-specific <input type="checkbox"/> Primary data - product-specific <input type="checkbox"/> Secondary data - financial/spend <input type="checkbox"/> Secondary data - industry average		More than 25% Local/supplier-specific		Tier 1 supplier		The lead ingots produced by our primary lead ingot supplier have consistent emissions intensity.		120,787.15				
Lead Alloy		<input checked="" type="checkbox"/> Primary data - supplier-specific <input type="checkbox"/> Primary data - product-specific <input type="checkbox"/> Secondary data - financial/spend <input type="checkbox"/> Secondary data - industry average		10% to 25% Local/supplier-specific		Tier 1 supplier		The lead alloys produced by our primary lead alloy supplier have consistent emissions intensity.		85,488.00				
Separator		<input checked="" type="checkbox"/> Primary data - supplier-specific <input type="checkbox"/> Primary data - product-specific <input type="checkbox"/> Secondary data - financial/spend <input type="checkbox"/> Secondary data - industry average		10% to 25% Local/supplier-specific		Tier 1 supplier		The Separator produced by our primary Separator supplier have consistent emissions intensity.		52,654.79				
Flux		<input checked="" type="checkbox"/> Primary data - supplier-specific <input type="checkbox"/> Primary data - product-specific <input type="checkbox"/> Secondary data - financial/spend <input type="checkbox"/> Secondary data - industry average		10% to 25% Local/supplier-specific		Tier 1 supplier		The flux produced by our primary flux supplier has consistent emissions intensity.		50,294.43				
N220 carbon black		<input checked="" type="checkbox"/> Primary data - supplier-specific <input type="checkbox"/> Primary data - product-specific <input type="checkbox"/> Secondary data - financial/spend <input type="checkbox"/> Secondary data - industry average		10% to 25% Local/supplier-specific		Tier 1 supplier		The N220 carbon black produced by our primary N220 carbon black supplier has consistent emissions intensity.		68,348.80				
Other		<input checked="" type="checkbox"/> Primary data - supplier-specific <input type="checkbox"/> Primary data - product-specific <input type="checkbox"/> Secondary data - financial/spend <input type="checkbox"/> Secondary data - industry average		10% to 25% Local/supplier-specific		Tier 1 supplier				51,551.69				
Please confirm that this is consistent with the GHG Protocol minimum boundary.		Confirmed.												
Please confirm that the emissions are reported on a cradle-to-gate basis.		Confirmed.												
Please confirm that all purchased services have been captured in the reporting.		Confirmed.												
NEAR-TERM TARGETS OVERVIEW														
Target ID	Autogenerated target wording	Do you consent to this target wording?	Company's proposed target wording	Target type	Target value	Base year	Most recent year	Target year	Activity unit	Base year activity	Most recent year activity	Target year activity	Non-emission target option	Base year RE/supplier level
1	SHUANGDENG GROUP CO., LTD. commits to reduce absolute scope 1, 2 and 3 GHG emissions 54.60% by 2033 from a 2023 base year.	Yes	Absolute	Absolute	54.60%	2023	2023	2033						
2	SHUANGDENG GROUP CO., LTD. commits to reduce absolute scope 1, 2 and 3 GHG emissions 54.60% by 2033 from a 2023 base year.	Yes	Absolute	Absolute	54.60%	2023	2023	2033						
3	SHUANGDENG GROUP CO., LTD. commits to reduce 61.07% per. by 2033 from a 2023 base year.	Yes	Intensity	Intensity	61.07%	2023	2023	2033						