

## Part 1: Carbon Reduction Plan for Hangzhou JiaNeng Cable Co., Ltd.

### 1. Introduction

To actively respond to the national "Carbon Peaking and Carbon Neutrality" strategic deployment, align with global green and low-carbon development trends, and earnestly fulfill corporate environmental and social responsibilities, our company—as a cable manufacturer—has formulated this Carbon Reduction Plan. This plan strictly adheres to the Greenhouse Gas Protocol (GHG Protocol) framework across Scope 1, 2, and 3, aiming to systematically identify, quantify, and reduce carbon emissions throughout the company's operations and value chain.

### 2. Current Status & Emission Identification (Based on Three Scopes)

The cable industry has distinct emission characteristics, where **Scope 3 (Value Chain Indirect Emissions)** typically constitutes the vast majority of total emissions. Our company will focus its carbon inventory and management on the following dimensions:

- **Scope 1 (Direct Emissions):** Combustion from company-owned boilers/furnaces, canteen gas, and exhaust emissions from company-owned vehicles (fuel trucks).
- **Scope 2 (Energy Indirect Emissions):** Consumption of purchased electricity, steam, heating, and cooling for production workshops and office buildings.
- **Scope 3 (Other Indirect Emissions - Core Battlefield):**
  - **Upstream:** Embodied carbon emissions from procured raw materials (copper, aluminum, insulation plastics); logistics for raw material transportation; waste treatment from operations; employee commuting and business travel.
  - **Downstream:** Transportation and distribution of finished cables post-sale; energy consumption during the product's long-term use by customers (impacted by cable transmission efficiency); and recycling/harmless disposal at end-of-life.

### 3. Phased Emission Reduction Targets (SMART Criteria)

To ensure measurability, the company has set the following phased quantitative targets (using 2025 as the base year):

- **Short-Term Target (by 2028):**
  - Complete the first full value chain (Scope 1, 2 & 3) carbon inventory and establish a dynamic monitoring database.
  - Reduce Scope 1 & 2 greenhouse gas emission intensity by **15%** compared to the base year.
  - Reduce upstream raw material procurement carbon intensity by **10%**.
- **Mid-Term Target (by 2030):**
  - Achieve near-zero emissions for Scope 1 & 2 (reduction of **80%** or more).
  - Establish a comprehensive green supply chain system; **100%** of core suppliers sign Green Procurement Commitments.
  - Promote high-efficiency, low-loss cables to assist downstream users in reducing emissions by **20%**.
- **Long-Term Vision (by 2050):**
  - Achieve net-zero greenhouse gas emissions across the entire value chain (Scope 1, 2 & 3).

## 4. Action Roadmap by Scope

### 4.1 Scope 1 & 2 Actions (Operational Decarbonization)

- **Energy Structure Transformation:** Vigorously promote "Photovoltaic + Storage" projects. Utilize factory rooftops to build distributed PV power stations to increase self-sufficiency in green electricity. Actively participate in green power trading to gradually achieve 100% green replacement for production electricity.
- **Energy Efficiency & Process Innovation:** Phase out outdated high-energy-consuming equipment; introduce high-efficiency drawing and extrusion production lines; implement frequency conversion and energy-saving retrofits for general equipment (air compressors, transformers); optimize temperature and time control in key processes (plastic extrusion, cross-linking) to reduce unit product energy consumption.
- **Green Logistics:** Gradually replace company-owned fuel trucks with new energy logistics vehicles or switch from fuel forklifts to electric forklifts.

### 4.2 Scope 3 Upstream Actions (Source Control)

- **Green Procurement & Low-Carbon Materials:** Prioritize low-carbon raw materials such as hydropower-based aluminum and recycled copper; encourage insulation material suppliers to provide bio-based or recycled materials; establish a "Green Supplier Directory" and integrate carbon performance into supplier KPIs.
- **Lean Production & Circular Economy:** Implement precision batching systems to reduce cutting losses of metals like copper and aluminum; establish a comprehensive scrap recycling system to ensure 100% in-house remelting of production waste.
- **Digital Management:** Integrate ERP and MES systems to achieve full-process digital management from raw material warehousing to finished product delivery, minimizing material and energy waste.

### 4.3 Scope 3 Downstream Actions (Product Lifecycle Extension)

- **Green Product Design:** Develop cable structures with low resistance and high conductivity to reduce line loss for downstream users; promote eco-friendly insulating materials that are low-smoke, halogen-free, and recyclable.
- **Improved Recycling System:** Establish a recycling network for used cables; collaborate with downstream clients on dismantling retired cables and regenerating materials to achieve a resource closed-loop.
- **Guiding Green Consumption:** Label product carbon footprint information on nameplates and manuals to provide customers with a basis for low-carbon procurement.

## 5. Safeguard Mechanisms

1. **Organizational Guarantee:** Establish a "Carbon Neutrality Committee" led by the General Manager and create dedicated carbon management positions.
  2. **Financial Guarantee:** Set up a special "Green R&D and Technical Renovation Fund" to ensure capital investment in emission reduction projects.
  3. **Talent & Culture:** Conduct regular energy-saving and emission-reduction training for all employees; promote paperless offices and an energy-conscious culture.
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## Part 2: Official Statement on Carbon Reduction

[Hangzhou JiaNeng Cable Co., Ltd.]

### OFFICIAL STATEMENT ON CARBON REDUCTION

#### In Response to the National "Dual Carbon" Strategy

**To:** All Employees, Respected Customers, Suppliers, and Members of the Community

In the face of increasingly severe global climate challenges, green and low-carbon development has become a consensus for all humanity. As a key enterprise in the cable industry, we are acutely aware of our responsibilities in ecological civilization construction. To proactively address climate change and promote high-quality sustainable development, our company hereby solemnly issues this official statement on carbon reduction.

#### I. Firm Commitment to Emission Reduction

Our company firmly integrates the concept of sustainable development into the core of our corporate strategy. We commit to taking all feasible measures to scientifically and systematically reduce greenhouse gas emissions generated by our operations and across the value chain. We are dedicated to fulfilling our economic responsibilities while actively shouldering environmental and social responsibilities.

#### II. Clear Quantitative Targets

To ensure our emission reduction efforts are measurable and traceable, and based on the Greenhouse Gas Protocol (GHG Protocol), our company has set the following legally and morally binding phased targets:

1. **Short-Term Target (by 2028):** Complete the full value chain (Scope 1, 2 & 3) carbon inventory; reduce Scope 1 & 2 emission intensity by **15%** compared to the base year.
2. **Mid-Term Target (by 2030):** Achieve a reduction of **80%** or more in Scope 1 & 2 emissions; significantly improve the carbon performance of core upstream suppliers.
3. **Long-Term Vision (by 2050):** Achieve net-zero greenhouse gas emissions across the entire value chain (Scope 1, 2 & 3).

#### III. Core Action Guidelines

To achieve these goals, our company will focus on implementing the following actions:

- **Operational Decarbonization:** Vigorously promote rooftop photovoltaic construction to increase the proportion of green electricity usage; implement energy-saving retrofits for high-energy-consuming equipment to enhance overall energy efficiency.
- **Deep Supply Chain Reduction:** Establish strict green supplier access and assessment mechanisms; prioritize low-carbon raw materials (e.g., recycled copper, low-carbon aluminum) to build a green supply chain ecosystem.
- **Full Product Lifecycle Management:** Increase R&D investment to produce high-conductivity, low-loss green environmental protection cables; establish a recycling system for used cables to help downstream clients achieve energy conservation and emission reduction.

#### IV. Call to Action & Outlook

Addressing climate change is a systematic project requiring the joint efforts of society as a whole. Our company sincerely calls upon all partners, upstream and downstream suppliers,



and customers to join us in building a green and low-carbon value chain. We will regularly disclose progress reports on carbon reduction to the public and welcome oversight from all sectors of society.

Let us work together for the sustainable future of our planet.

[Hangzhou JiaNeng Cable Co., Ltd.]

Date: May. 28, 2026

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