



Climate Action Plan for Wireless Crafters Devices Co., Ltd.

Objective:

To align Wireless Crafters Devices Co., Ltd. with global climate action goals by reducing greenhouse gas (GHG) emissions, promoting sustainable practices, and fostering innovation for a low-carbon future. This plan aims to integrate climate-conscious strategies into all facets of operations, product development, and corporate culture.

1. Vision and Commitment

Vision: To be a leader in sustainable industrial-grade wireless device manufacturing, creating solutions that contribute to a greener, smarter, and more resilient world.

Commitment: Wireless Crafters Devices Co., Ltd. is committed to reducing carbon emissions by 50% by 2030 and achieving net-zero emissions by 2050, in line with the Paris Agreement.

2. Climate Goals

- **Short-Term (2025):**
 - Reduce energy consumption in manufacturing by 15%.
 - Source 25% of electricity from renewable sources.
 - Launch at least one eco-friendly product line.
 - **Mid-Term (2030):**
 - Achieve a 50% reduction in Scope 1 and Scope 2 GHG emissions.
 - Implement a circular economy framework for product lifecycle.
 - Transition to 100% renewable energy in operations.
 - **Long-Term (2050):**
 - Reach net-zero GHG emissions.
 - Establish partnerships for industry-wide sustainable practices.
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3. Key Climate Actions

3.1 Energy Efficiency

- Conduct energy audits for manufacturing facilities to identify areas of improvement.

- Upgrade machinery to energy-efficient models, including pick-and-place machines (NeoDen YY-1) and reflow ovens (T-962C).
- Implement IoT-based monitoring systems for real-time energy tracking.

3.2 Renewable Energy Adoption

- Install solar panels at the manufacturing facility to offset grid electricity usage.
- Partner with renewable energy providers to meet electricity needs sustainably.

3.3 Sustainable Product Design

- Design products using eco-friendly materials and modular designs to enable easy repair and recycling.
- Develop energy-efficient wireless devices that consume less power during operation.
- Implement design validation processes that prioritize sustainability metrics.

3.4 Green Supply Chain

- Partner with suppliers committed to sustainable practices.
- Include carbon footprint criteria in supplier evaluations.
- Reduce logistics emissions by optimizing shipping routes and using low-emission transportation options.

3.5 Waste Management

- Implement a "Zero Waste to Landfill" initiative by 2035.
- Recycle manufacturing waste, including solder paste, PCBs, and electronic components.
- Offer take-back programs for end-of-life products.

3.6 Employee and Stakeholder Engagement

- Launch a Green Employee Program to encourage sustainable practices among staff.
- Provide training on sustainability and energy conservation.
- Collaborate with customers to promote sustainable use and disposal of products.

4. Reporting and Transparency

4.1 Climate Metrics

- **GHG Emissions:**
 - Monitor Scope 1 (direct emissions) and Scope 2 (electricity usage) emissions monthly.
 - Begin tracking Scope 3 emissions (supplier and customer activities) by 2025.
- **Energy Consumption:**
 - Track energy use per unit of production.

- **Waste Reduction:**
 - Measure waste diversion rates.

4.2 Reporting Framework

- Publish annual sustainability reports aligned with the Global Reporting Initiative (GRI) standards.
 - Disclose climate progress through platforms such as CDP (Carbon Disclosure Project).
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5. Partnership and Advocacy

- Collaborate with industry groups, such as the Climate Group's EP100 initiative, to share best practices.
 - Advocate for government policies that support renewable energy and sustainable electronics.
 - Engage in community projects to promote awareness and resilience against climate change.
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6. Governance

- **Climate Action Committee (CAC):**
 - Chaired by the Managing Director and includes representatives from R&D, Operations, HR, and QA teams.
 - Responsible for overseeing climate initiatives and ensuring alignment with company goals.
 - **Periodic Review:**
 - Conduct semi-annual reviews of the Climate Action Plan.
 - Update strategies based on technological advancements and regulatory changes.
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7. Budget and Investments

- Allocate 10% of annual R&D funding for sustainable product innovation.
 - Set aside a dedicated budget for renewable energy installations and energy efficiency projects.
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8. Monitoring and Accountability

- Use Key Performance Indicators (KPIs) to track progress, such as:
 - Percentage reduction in GHG emissions.



- Share of renewable energy in total electricity consumption.
 - Waste diversion rates.
 - Appoint a Sustainability Officer to ensure accountability and drive initiatives.
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Conclusion:

Wireless Crafters Devices Co., Ltd. recognizes its responsibility to contribute to global climate goals. By integrating sustainability into operations and product design, the company not only mitigates environmental impact but also strengthens its market position as a forward-thinking, eco-conscious innovator in the wireless device industry.

Next Steps: Launch internal awareness campaigns and prioritize quick wins, such as energy audits and supplier engagement, to kickstart the climate action journey.