

CARBON REDUCTION PLAN

H&R ENERGY SOLUTIONS LTD

Commitment to Net Zero

H&R Energy Solutions Ltd commits to achieving **Net Zero carbon emissions by 2050** in alignment with the UK Government's Climate Change Act 2008 and the Procurement Policy Note (PPN) 06/21.

The Current Emissions Baseline section for H&R Energy Solutions Ltd, data from the last calendar year (2023) is assumed, along with estimated values for carbon emissions based on typical organisational operations.

Current Emissions Baseline

Assessment Period: January 1, 2023 – December 31, 2023

Scope 1 Emissions:

Direct emissions from company-owned assets:

- Vehicle Fleet: Fuel consumption for delivery and business vehicles = 50 tCO₂e.
- On-site Activities: Emissions from gas usage for heating = 15 tCO₂e.

Total Scope 1 Emissions: 65 tCO₂e.

Scope 2 Emissions:

Indirect emissions from purchased energy:

- Electricity Consumption: 50 MWh purchased for offices and facilities = 20 tCO₂e.
- Cooling and Heating: Additional energy consumption = 10 tCO₂e.

Total Scope 2 Emissions: 30 tCO₂e.

Scope 3 Emissions:

Emissions from value chain activities:

- Upstream Transportation and Distribution:
 - Emissions from transportation of materials to offices and sites = 30 tCO₂e.
- Waste Generated in Operations:
 - Waste disposal and treatment from renovation projects and office activities = 20 tCO₂e.
- Business Travel:
 - Flights, train travel, and taxi usage by employees = 10 tCO₂e.

- Employee Commuting:
 - Commuting emissions based on car usage, public transport, and cycling = 10 tCO₂e.
- Downstream Transportation and Distribution:
 - Deliveries to customers or shipping of goods = 20 tCO₂e.

Total Scope 3 Emissions: 90 tonnes CO₂e.

EMISSIONS	TOTAL (tCO ₂ e)
Scope1	65.0
Scope 2	30.0
Scope 3	90.0
TOTAL EMISSIONS	165.00

Carbon Reduction Strategy

Immediate Actions (0-2 Years)

- **Energy Efficiency Upgrades:**
 - Replace incandescent bulbs with energy-efficient LEDs and install motion sensors to reduce unnecessary usage.
 - Optimize HVAC systems through regular maintenance and consider programmable thermostats to manage energy use effectively.
- **Transition to Green Energy:**
 - Begin sourcing energy from renewable providers.
 - Conduct feasibility study for on-site solar panel installation.
- **Promote Sustainable Transportation:**
 - Encourage telecommuting to decrease emissions from commuting.
 - Incentivize the use of public transportation or carpooling among employees to further reduce transportation-related emissions.
- **Waste Management:**
 - Establish comprehensive recycling for paper, plastics, and electronics.
 - Collaborate with environmentally responsible waste management companies.

Medium-Term Goals (3-5 Years)

- **Renewable Energy Expansion:**
 - Install solar panels to generate at least 50% of the organization's energy requirements.
 - Install Air Source Heat Pump to phase out all inefficient heating system.
- **Sustainable Supply Chain:**

- Conduct an environmental performance audit of suppliers and prioritize partnerships with low-carbon alternatives.
- **Vehicle Fleet Transition:**
 - Convert 50% number of the company's vehicle fleet to electric or hybrid models.
- **Digital Transformation:**
 - Transition to paperless operations and invest in digital tools for efficiency.

Long-Term Goals (5-10+ Years)

- **Achieving Carbon Neutrality:**
 - Offset residual emissions through certified carbon offset programs.
 - Support reforestation initiatives and invest in renewable energy projects.
- **Driving Innovation:**
 - Investigate the integration of carbon capture technologies into operations.
 - Champion local community sustainability initiatives to enhance collective impact.

4. Monitoring and Reporting

Review Process:

- Conduct an annual review of the Carbon Reduction Plan and update it within six months after the financial year-end.
- Ensure consistent reporting of Scope 1, 2, and 3 emissions using the GHG Protocol.

KPIs:

- Percentage reduction in annual emissions.
- Growth in renewable energy usage as a proportion of total energy consumption.
- Reduction in fleet emissions percentage.

Transparency:

- Display the Carbon Reduction Plan prominently on the company website.
- Maintain an archive of previous versions to uphold accountability.



Signed by:
Muhammad Riaz
Director
3rd January 2024