



PATHWAY TO NET ZERO

At DSP Rail & Civils, we recognise the need to mitigate climate change and its impacts on future generations. As part of our commitment to sustainability, we have developed a comprehensive carbon reduction strategy to achieve net zero carbon emissions by 2050. Our approach focuses on actionable short-term, mid-term, and long-term goals across key areas such as energy efficiency, renewable energy, transportation, waste reduction, and education. Through collaboration, innovation, and accountability, we aim to lead by example in reducing our carbon footprint.

Our overarching goal is to achieve net zero emissions by 2050. Key targets include:

- 25% reduction by 2025
- 50% reduction by 2030
- 75% reduction by 2040

Baseline and Targets

Baseline Emissions (2023)

In 2023, we established the following baseline emissions:

- Scope 1 (Direct emissions): 18 tCO₂e
- Scope 2 (Indirect energy-related emissions): 35 tCO₂e
- Scope 3 (Other indirect emissions, including supply chain): 40 tCO₂e
- Total Baseline Emissions: 93 tCO₂e

Emissions Reduction Targets

- 2025: Achieve a 25% reduction in emissions to 23.25 tCO₂e
- 2030: Achieve a 50% reduction to 46.5 tCO₂e
- 2040: Achieve a 75% reduction to 69.75 tCO₂e
- 2050: Reach net zero emissions

Carbon Reduction Plan Focus Areas

Energy Efficiency: We will implement technology improvements and promote energy-conscious behaviour across the company to reduce our direct energy consumption:

Energy Audits: Conduct regular audits of our facilities to identify and rectify inefficiencies.

Lighting: Install energy-efficient LED lighting and motion sensors to ensure lights are only used when necessary.

Smart Energy Management Systems: Implement smart meters to track and optimise real-time energy usage.

Renewable Energy

Transitioning to renewable energy is a core part of our plan:

- **Solar Power:** Install solar panels on available rooftops to generate on-site renewable energy.
- **Green Energy Contracts:** Partner with energy suppliers that offer 100% renewable energy to cover our remaining electricity needs.
- **Battery Storage:** Explore energy storage solutions to ensure continuous energy supply during peak usage.
- **Waste Reduction and Circular Economy**
- Waste minimisation and recycling will help lower emissions associated with disposal and resource extraction:

Digital: Transition towards paperless operations, with electronic communication, digital assignments, and cloud-based systems.

Comprehensive Recycling: Implement a company-wide zero-to-landfill policy, ensuring proper recycling of plastics, paper, metals, and e-waste.

Composting and Food Waste: Introduced on-site composting programs to manage organic waste from campus food services.

Sustainable Transportation

We aim to drastically cut emissions from transportation by embracing greener mobility options:

Public Transport and Carpooling: Encourage staff, students, and parents to use public transport, carpool, or cycle to company by providing incentives and infrastructure like bike racks and electric vehicle (EV) charging points.

Electric Fleet: Begin transitioning to electric vehicles for company transport by 2030.

Remote Learning Capabilities: Offer remote learning opportunities to reduce the need for commuting and associated emissions.

Carbon Offsetting Initiatives

While reduction is our primary goal, we also plan to offset unavoidable emissions:

- **Tree Planting:** Partner with local initiatives to plant trees in urban areas and reforest deforested regions.
- **Certified Offsetting Projects:** Invest in verified carbon offset projects that support reforestation, renewable energy, and biodiversity preservation.

Education and Community Engagement

As a company, DSP Rail & Civils aims to embed sustainability principles in education:

Sustainability Curriculum: Integrate environmental science, climate change, and sustainability into the academic curriculum at all levels, providing students with the knowledge and skills to lead change.

Green Ambassadors: Create a Green Ambassadors program where students take leadership in organising sustainability events and raising awareness among their peers.

Community Partnerships: Build partnerships with local businesses, NGOs, and government agencies to collaborate on green initiatives such as tree planting, clean-up drives, and carbon footprint assessments.

Monitoring, Reporting, and Governance

We will track progress towards our targets through continuous monitoring:

Emission Tracking Software: Utilise advanced tools to monitor energy use, waste output, and transportation emissions in real time.

Sustainability Champions: Appoint a Sustainability Champion to oversee carbon reduction initiatives and ensure compliance with our reduction targets.

Our progress will be communicated transparently to all stakeholders:

- *Annual Reports:* Publish detailed annual carbon reduction progress reports, outlining the year's reductions, key achievements, and lessons learned.
- *Stakeholder Engagement:* Hold regular consultations with stakeholders, including students, staff, and community members, to inform and involve them in decision-making.

2023 Performance Snapshot

- Scope 1 Emissions: 15 tCO₂e (17% reduction)
- Scope 2 Emissions: 30 tCO₂e (14% reduction)
- Scope 3 Emissions: 35 tCO₂e (12.5% reduction)
- Total Emissions: 80 tCO₂e (14% overall reduction)

Review and Continuous Improvement

This plan will be subject to annual review and updated in response to changing environmental regulations, technological advancements, or new operational circumstances. These reviews will ensure we remain on track to achieve our targets and identify new opportunities for further reductions.

Next Review: January 2025