



# MODERN TOOLING SOLUTION

## GHG REDUCTION POLICY

### 1. Purpose and Scope

#### 1.1 Purpose

This policy outlines Modern Tooling Solution's commitment to reducing greenhouse gas emissions across all operations. We aim to minimize our carbon footprint, improve energy efficiency, and contribute to climate change mitigation through sustainable practices and continuous improvement.

#### 1.2 Scope

This policy applies to:

- All operations, processes, equipment, and vehicles under the control of Modern Tooling Solution
- All employees, contractors, and third-party service providers
- All direct (Scope 1) and indirect (Scope 2 and Scope 3, where relevant) emissions

### 2. GHG Reduction Objectives

- Identify and measure our GHG emissions regularly
- Set achievable reduction targets in line with national and global climate goals
- Improve operational energy efficiency and transition to cleaner energy sources
- Promote awareness among employees and stakeholders

### 3. GHG Emission Categories

#### Scope 1 – Direct Emissions

- From on-site fuel combustion, boilers, furnaces, and company-owned vehicles

#### Scope 2 – Indirect Emissions

- From purchased electricity, heat, or steam

#### Scope 3 – Value Chain Emissions *(where applicable)*

- From business travel, outsourced logistics, raw material production, and waste disposal
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## 4. Key Commitments

### 4.1 Emission Monitoring

- Conduct annual or periodic GHG assessments using accepted methodologies (e.g., ISO 14064 or GHG Protocol)
- Maintain an emissions inventory for transparency and performance tracking

### 4.2 Energy Efficiency

- Upgrade to energy-efficient machinery, motors, and lighting systems
- Optimize process parameters to reduce energy and fuel consumption

### 4.3 Renewable and Cleaner Energy

- Explore the use of solar, wind, or other renewable energy sources
- Reduce dependency on fossil fuels over time

### 4.4 Sustainable Logistics

- Optimize transportation routes and vehicle loads
- Promote low-emission or electric vehicles where feasible

### 4.5 Material and Waste Management

- Reduce, reuse, and recycle materials to minimize process-related emissions
- Improve waste segregation and treatment to reduce methane and CO<sub>2</sub> emissions

### 4.6 Employee Engagement

- Conduct awareness campaigns, trainings, and green initiatives like tree plantation, no-idling zones, etc.
- Encourage staff to report ideas for energy and emission reduction

## 5. Roles and Responsibilities

- **Top Management:** Approve GHG targets and allocate resources
- **Environment or Sustainability Officer:** Monitor emissions, coordinate reduction programs, report data
- **All Employees:** Follow energy-saving practices and report issues or suggestions



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## 6. Step-by-Step Instructions

### 6.1 GHG Inventory Assessment

- Identify emission sources across all scopes (Scope 1: Direct, Scope 2: Indirect from purchased electricity, Scope 3: Supply chain, waste, etc.)
- Measure baseline GHG emissions using standard methodologies like GHG Protocol.

### 6.2 Target Setting

- Set science-based reduction goals aligned with global standards .
- Define interim milestones

### 6.3 Implementation Plan

- Retrofit old equipment with energy-efficient models.
- Shift to renewable energy sources where feasible.
- Optimize logistics and production to minimize fuel/electricity use.
- Introduce carbon offset programs if necessary.

### 6.4 Monitoring & Reporting

- Install real-time energy monitoring systems.
- Track key performance indicators (KPIs) monthly.
- Prepare and submit annual GHG Emissions Report.

## 7. Resources and Tools

- Smart meters and IoT-based monitoring systems.
- Government incentive schemes (e.g., Perform, Achieve and Trade - PAT).
- Renewable energy consultants and service providers.

## 8. Compliance Standards

- Environment Protection Act, 1986 (India)
- Energy Conservation Act, 2001
- Tamil Nadu Pollution Control Board (TNPCB) norms
- UNFCCC guidelines
- ISO 14064 & ISO 50001
- Science-Based Targets initiative (SBTi)



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## 9. Time Frame and Deadline

- GHG Baseline Inventory: Within 6 months of policy adoption.
- Target Setting: Within 3 months of baseline completion.
- Annual GHG Reduction Review: Every 12 months.
- Monitoring: Monthly reviews of emissions data

## 10. Documentation and Record

Required Documents:

- Emission Reduction Target Logs
- Energy Audit Reports
- Compliance Certificates
- Internal and External Audit Reports
- Employee Training Logs

## 11. Authorization and Approval

Policy drafted by: Maintenance Manager

Reviewed by: Safety officer

Approved by: Managing Director