

GreenCo Rating for Small and Medium Enterprises (SME) - Checklist

Energy Efficiency (Max: 150 Points)

Credit	Credit Description	Points	Credit Requirement
EE Credit 1	Commitment and Action Plan	15	
EE Credit 1.1	Commitment and targets	5	1. Commitment from top management in terms of energy conservation and striving for improving energy efficiency 2. Set targets for reducing energy consumption in coming years
EE Credit 1.2	Action plan and financial allocation	5	1. List of projects identified to reduce energy consumption 2. Appropriate financial allocation for implementation
EE Credit 1.3	GreenCo implementation team	5	1. Establish GreenCo implementation team with a team leader whose role involves monitoring of resource consumption and implementation of improvement projects
EE Credit 2	Employee Involvement & Capacity Building	10	
EE Credit 2.1	Strategies adopted for employee involvement	5	Display posters, conduct competitions, awareness programs, environment day celebration, suggestion schemes, etc.
EE Credit 2.2	Training program and capacity building	5	Training programs from technology suppliers, participation in workshops, conferences on energy management, etc.
EE Credit 3	Energy Management System	15	
EE Credit 3.1	Energy monitoring for equipment (Electrical & thermal)	10	1. Monitoring of overall energy consumption of the plant 2. Energy monitoring of all major equipment/sections and daily recording of energy consumption 3. Regular monitoring for equipment contributing to 80% of overall energy consumption
EE Credit 3.2	Corrective actions for deviation	5	1. Analysis of recorded energy data 2. Take corrective actions for any deviation in energy consumption
EE Credit 4	Reduction in Specific Energy Consumption (SEC) in last 3 years	75	
Option 1 Reduction in SEC			
	> 8 % reduction	15	Option 1 - 1. Reduction in specific energy consumption (kWh/ton of product, kWh/number of equivalent product) in the last three years 2. List of energy saving projects implemented in the last three years with a. energy saving achieved b. investment made c. payback period
	> 16 % reduction	30	
	> 24 % reduction	45	
	> 32% reduction	60	
	> 40% reduction	75	
Option 2 Implementation of energy efficiency improvement projects			
	> 8% savings achieved with respect to annual energy consumption	15	Option 2 - 1. % energy savings achieved with respect to total energy consumption through implementation of energy saving projects 2. List of energy saving projects implemented in the last three years with a. energy saving achieved b. investment made c. payback period
	> 16% savings achieved with respect to annual energy consumption	30	
	> 24% savings achieved with respect to annual energy consumption	45	
	> 32% savings achieved with respect to annual energy consumption	60	
	> 40% savings achieved with respect to annual energy consumption	75	
EE Credit 5	Energy Efficiency Operational Practices	35	
	Energy Efficiency Operational Practices	5	1. Regular implementation of preventive maintenance practices in all major equipment : 3 Points 2. System for implementation of Predictive maintenance practices for all major equipment : 5 Points
		5	1. Periodic monitoring of equipment/system performance such as a. compressed air leakage monitoring b. steam leakage monitoring c. monitoring of O2 percentage in flue gas d. avoiding idle operation of machines, etc. 2. Periodic efficiency monitoring of major equipment - analysis of operating efficiency with rated efficiency
		5	1. Implementation of TPM, TQM, 5S practices
		10	2. Execution of identified Kaizens resulting in energy efficiency improvement
		10	1. Efforts to benchmark performance with other units 2. Efforts to carry out process wise benchmarking
Sub total		150	

Water Conservation (Max: 100 Points)				
WC Credit 1	Commitment and Action Plan	10		
WC Credit 1.1	Commitment and targets		5	1. Commitment from top management in terms of water conservation and striving for improving water efficiency 2. Set targets for reducing water consumption
WC Credit 1.2	Action plan and financial allocation		5	List of projects planned for - 1. reducing water consumption 2. substituting fresh water with treated water 3. rain water harvesting
WC Credit 2	Employee Involvement & Capacity Building	5		
	Awareness sessions for all employees every year and training program to relevant personnel		5	Display posters, competition, awareness program, environment day celebration, kaizen, drawing/slogan competition, conferences/workshops, etc.
WC Credit 3	Metering & Overall Monitoring	10		
	Water Metering at critical locations, accounting 80% total water consumption		10	1. Overall metering of water consumption for domestic and industrial application 2. Sub-metering of major water consumers within domestic and industrial application 3. Water Balance Diagram
WC Credit 4	Reduction in Specific Fresh Water Consumption in Last 3 years	35		
	≥ 7% reduction		7	Option 1 - 1. Reduction in specific water consumption (m3/ton of product, m3/number of equivalent product) in the last three years 2. List of water saving projects implemented in the last three years with a. water saving achieved b. investment made c. payback period
	≥ 14 % reduction		14	
	≥ 21% reduction		21	
	≥ 28% reduction		28	
	≥ 35% reduction		35	
WC Credit 5	Rain water harvesting in roof and non-roof areas	30		
WC Credit 5.1	Rain water harvesting system	25		1. Implementation of rain water harvesting system within the premises 2. Use of harvested rain water - a. to recharge the ground water table b. in substituting the overall fresh water consumption
	Atleast one project		5	
	≥ 25% potential captured		10	
	≥ 50% potential captured		15	
	≥ 75% potential captured		20	
	≥ 90% and above potential captured		25	
WC Credit 5.2	Use of captured water for domestic/industrial application	5		
WC Credit 6	Beyond the fence water conservation initiative	10		
	Initiatives on water conservation beyond the fence through awareness creation, contributing to water conservation projects e.g. rain water harvesting, construction bunds in nearby areas		10	1. Conducting awareness creation programs in nearby villages, schools 2. Contributing to water conservation projects beyond the fence
	Sub total	100		
Renewable Energy (Max: 75 Points)				
RE Credit 1	Commitment and Action Plan	10		
RE Credit 1.1	Commitment and targets		5	1. Commitment from top management in terms of utilizing renewable energy to substitute conventional sources of energy 2. Set targets for increasing the percentage of renewable energy
RE Credit 1.2	Action plan and financial allocation		5	1. List of projects identified to increase use of renewable energy 2. Appropriate financial allocation for implementation
RE Credit 2	Total Renewable Energy Substitution (Both Electrical & Thermal Energy)	65		
	Atleast one project implemented		5	Electrical and thermal energy substitution through implementation of onsite and/or offsite renewable energy projects
	≥15% substitution		10	
	≥30% substitution		20	
	≥45% substitution		30	
	≥60% substitution		40	
	≥75% substitution		50	
	≥90% substitution		60	
	Sub-Total	75		

Green House Gases (Max: 75 Points)				
GHG Credit 1	GHG emission inventorization	10		
GHG Credit1.1	Inventorisation of Scope 1 and Scope 2		5	1. Inventorization of Scope 1 emissions (Direct emissions through fuel consumption in boilers, DG Sets, furnaces, etc.) for the last three years 2. Inventorization of Scope 2 emissions (Indirect emissions from electricity purchased from the grid) for the last three years
GHG Credit1.2	Inventorisation of Scope 3		5	1. Inventorisation of Scope 3 emission (Indirect emissions from Employee commute, business travel, raw material and product transport) for minimum three emission categories
GHG Credit 2	GHG Emission Intensity Reduction in the last three years	40		
GHG Credit 2.1	Emission reduction for Scope 1 and Scope 2			
	15% GHG emission intensity reduction		10	
	30% GHG emission intensity reduction		20	
GHG Credit 2.2	Emission reduction for Scope 3			1. Reduction in GHG emission intensity (CO ₂ e/Ton of product, CO ₂ e/ equivalent product) in the last three years 2. List of GHG emission reduction projects implemented in the last three years
	10% GHG emission intensity reduction		10	
	20% GHG emission intensity reduction		20	
GHG Credit 3	Carbon Neutral Approach	15		
	25% of GHG emission		5	
	50% of GHG emission		10	
	75% of GHG emission		15	1. Offset of GHG emission through renewable energy projects or carbon sequestration
GHG Credit 3	Product level GHG emission monitoring	10		1. Calculation of carbon emission of the product and sharing it with customers/OEMs 2. Even if the product is directly sold in the market, SMEs are encouraged to evaluate their carbon footprint
	Sub total	75		
<i>Note: If the SME is carbon neutral/postive through renewable energy projects or carbon offset, then the SME is eligible for maximum</i>				
Waste Management (Max: 75 Points)				
WM Credit 1	Waste Collection, Segregation, Inventorisation, Storage & Disposal of Waste	10		
WM Credit 1.1	Inventorisation for Hazardous & Non-Hazardous Waste		5	1. Inventorisation of hazardous waste 2. Inventorisation of non-hazardous waste
WM Credit 1.2	Collection, segregation, storage & disposal mechanism		5	1. Proper systems for collecting, segregating and storing of solid waste 2. Appropriate drainage lines/ pipelines for sewage and effluent generated within the premises
WM Credit 2	Employee Involvement & Capacity Building	5		
	Awareness sessions for all employees every year and training program to relevant personnel			Display posters, formal training programs for workers on different types of wastes (hazardous/non-hazardous), environment day celebration, kaizen, etc.
WM Credit 3	Solid Waste Management	20		
WM Credit 3.1	Hazardous Waste Management - Percentage reduction in specific waste disposed to landfill	10		
	≥ 20% reduction in specific waste disposal		5	1. Reduction in the quantity of hazardous waste sent to the landfill 2. Provide list of projects implemented to reduce the hazardous waste generation at source, reuse and recycle
	≥ 40% reduction in specific waste disposal		10	<i>Note: For those SMEs that do not generate any hazardous waste, points will be re-distributed under Credit 3.2 - non-hazardous waste</i>
WM Credit 3.2	Non-Hazardous Waste Management - Percentage reduction in specific waste disposed to landfill	10		
	≥ 20% reduction in specific waste disposal		5	1. Reduction in the quantity of non-hazardous waste sent to the landfill 2. Provide list of projects implemented to reduce the non-hazardous waste generation at source, reuse and recycle
	≥ 40% reduction in specific waste disposal		10	
WM Credit 4	Liquid Waste Management	25		
WM Credit 4.1	Reduction in effluent & sewage disposal	20		
	≥ 25% reduction in process effluent disposal		10	
	≥ 50% reduction / Zero Effluent Discharge		20	1. Reduction in generation of effluent
WM Credit 4.2	On-site STP/ETP plant	5		1. Installation of on-site STP or ETP to reduce pollution load on CETPs and use treated water for process, toilet flushing, gardening
WM Credit 6	Gaseous waste Management (Other than GHG emission)	15		
	Regular monitoring of stack emissions and ensuring below norms		5	
	≥ 20% reduction over and above the norms / reduction in absolute emission per unit of production		10	
	≥ 30% reduction over and above the norms / reduction in absolute emission per unit of production		15	1. System to monitor the stack emissions regularly and meeting the emission norms 2. Stack emission monitoring reports to demonstrate reduction over and above norms
	Sub total	75		

Material Conservation, Recycling & Recyclability (Max: 75 Points)				
MCR Credit1	Employee Involvement & Capacity Building	10		
	Awareness creation & involvement of employees		10	Display posters, environment day celebration, kaizen, training program to reduce rejects and rework, etc.
MCR Credit 2	Raw Material Conservation	25		
	Percentage reduction in raw material consumption			
	≥ 5% reduction in raw material consumption		5	
	≥ 10% reduction in raw material consumption		10	
	≥ 15% reduction in raw material consumption		15	
	≥ 20% reduction in raw material consumption		20	
	≥ 25% reduction in raw material consumption		25	1. Yield improvement projects or projects implemented for raw material consumption reduction in the last three years
MCR Credit 3	Consumables Reduction	20		
	≥ 10% reduction		5	
	≥ 15% reduction		10	Reduction in consumables like
	≥ 20% reduction		15	a. paper
	≥ 25% reduction		20	b. lube oil c. maintenance spares & tools, etc.
MCR Credit 4	Management of Packaging Material	20		
MCR Credit 4.1	Reduction in Packaging Material	10		
	≥ 15% reduction in packaging material		5	
	≥ 30% reduction in packaging material		10	1. Projects taken to reduce packaging material intensity in the last three years
MCR Credit 4.2	Recycled content in Packaging Material	10		
	≥ 25% recycled content in packaging material		5	1. Substitution of packaging material with biodegradable or recycled packaging material
	≥ 50% recycled content in packaging material		10	2. Reuse of same packaging material
	Sub total	75		
Green Supply Chain (Max: 50 Points)				
GSC Credit 1	Green Purchasing Guidelines	20		
GSC Credit 1.1	Purchase guidelines		10	1. Development of green purchase guidelines for purchase of capital goods, energy efficient products, raw material, consumables, stationary, etc.
GSC Credit 1.2	Implementation of the guidelines		10	2. Implementation of green purchase guidelines
GSC Credit 2	Education and awareness creation	5		1. Basic awareness creation for suppliers through training program/e-mails/ social media
GSC Credit 3	Transport Optimization in supply chain	20		List the projects executed to reduce supply chain intensity that include - 1. adopting milk run model 2. localization of suppliers 3. transport optimization
GSC Credit 4	Supply Chain efficiency improvement	5		1. Working with suppliers for reduction in resource intensity
	Sub-Total	50		

Others (Max: 100 Points)				
Green Factory Building	To achieve IGBC Green Factory Building Rating, the unit/ facility has to either follow Credit 1 Or Credit 2, 3 and 4			
OS Credit 1	Achieve Green Building as per IGBC Green Factory Rating/ LEED	50		1. Green factories as per IGBC standards
OS Credit 2	Indoor Environment Quality	20		
OS Credit 2.1	Fresh Air Ventilation 20%, 30%		10	1. Meet minimum fresh air requirement 2. Maintain over and above requirement
OS Credit 2.2	Low VOC Paints		5	1. Use of low VOC/no VOC paints indoor
OS Credit 2.3	Eco friendly house keeping chemicals		5	1. Use of eco friendly house keeping chemicals indoor
OS Credit 3	Site Selection Planning	10		
OS Credit 3.1	Housing 40% of Employees within 5 km radius		5	1. Residence of employees within 5km radius
OS Credit 3.2	Access to Public Transport / Shuttle Services		5	1. Provision to accessible public transport to avoid vehicular emissions
OS Credit 4	Landscaping	20		
OS Credit 4.1	Maintain additional green belt ≥ 10 % of standard requirement		5	
	Maintain additional green belt ≥ 20 % of standard requirement		10	1. Maintain minimum green belt requirement 2. Maintain over and above requirement
OS Credit 4.2	Efforts to create and maintain bio-diversity by native & adoptive species		5	1. List of native and adaptive faunal and floral species
OS Credit 4.3	Unit / facilities having recreational and inspirational facilities, developed over green belt		10	1. List of available recreational & inspirational spaces within the premises
OS Credit 5	Innovation (exemplary performances in any of 9 parameters or other innovations)	20		
	4 Innovations @ 5 Points / Innovation		20	List innovative projects or excellent initiatives in any of the parameters (max 4 projects and 5 pts for each project)
OS Credit 6	Product Stewardship	20		
	Projects implemented along the principles of product stewardship		20	Projects implemented on - 1. Product Responsibility Management during transportation, storage & distribution 2. Reduction in toxicity in the product 3. Reduction in toxicity in the process 4. Product take back and recycling <i>Note: SMEs who do not have the option of product stewardship will be awarded points under OS Credit 5 - Innovation</i>
OS Credit 7	Accredited Green Professionals	10		Minimum one green professional Two internal auditor OR One Certified Energy Auditor/Lead auditor
	Sub total	100		
	Total	700		