

# Clean Development Mechanism

## Sustainable Development co-Benefits Description Report<sup>1</sup>

CDM project activity information	
<b>Title</b>	Wind Energy Project in Maharashtra by M/s Shah Promoters & Developers
<b>Project activity reference no.</b>	4489
<b>Type</b>	Project Activity
<b>Sectoral Scope</b>	Energy industries (renewable - / non-renewable sources) (1)
<b>Host Party</b>	India

Report information	
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# Overview of sustainable development co-Benefits

## A. The extent of environmental co-Benefits:

		N/A	Partly	Slightly	Highly
Air	Reducing Sox	•			
	Reducing Nox	•			
	Reducing Fly ash	•			
	Reducing suspended particulate matter (SPM)	•			
	Reducing Non Methane Volatile Organic Compounds (NMVOCs)	•			
	Reducing Noise Pollution	•			
	Reducing Odors	•			
	Reducing Dust	•			
	Other air quality improvements	•			
Land	Preventing end of life products/equipment (solid waste)				•
	Producing/using compost	•			
	Producing/using manure, mineral fertilizer or other soil nutrients	•			
	Irrigation	•			
	Preventing soil erosion	•			
	Minimum tillage	•			
	Other means to improve land quality	•			
Water	Improving management/control of wastewater	•			
	Saving/conserving of water	•			
	Improving reliability/accessibility of water supply	•			
	Purification/cleaner water supply	•			
	Improving ecological state of water bodies	•			
	Other means to improve water	•			
Natural Resources	Protecting mineral resources	•			
	Protecting/enhancing plant life	•			
	Protecting/enhancing species diversity	•			
	Protecting/enhancing forests	•			
	Protecting/enhancing other depletable natural resources	•			

## B. The extent of social co-Benefits:

		N/A	Partly	Slightly	Highly
Jobs	New long-term jobs				•
	New short-term jobs				•
	New sources of income generation				•
	Other employment opportunities		•		
Health & Safety	Disease prevention	•			
	Reducing accidents	•			
	Reducing crime	•			
	Preserving food	•			
	Reducing health damaging indoor air pollution	•			
	Enhancing health services	•			
	Improving sanitation and waste management	•			
	Other health and safety improvement	•			

Education	Job-related training				•
	Enhanced educational services	•			
	Project-related knowledge dissemination				•
	Other educational benefits	•			
Welfare	Improving working conditions				•
	Community or rural advancement		•		
	Poverty alleviation (more people above poverty level)				•
	Improving wealth distribution/generation of income and assets		•		
	Increased municipal revenues	•			
	Optimized women's empowerment	•			
	Reduced traffic congestion	•			
	Other welfare benefits	•			

### **C. The extent of economic co-Benefits:**

		N/A	Partly	Slightly	Highly
Growth	New investments				•
	New industrial/commercial activities	•			
	New infrastructure				•
	Enhancement of productivity				•
	Reduction of production costs (services)	•			
	New business opportunities				•
	Other economic benefits	•			
Energy	Improvement in supply of energy				•
	Access to energy				•
	Affordability and/or reliability of energy		•		
	Other energy improvements	•			
Technology	Introducing/developing/diffusing imported technology	•			
	Introducing/developing/diffusing local technology	•			
	Adaptation of new technologies to local circumstances	•			
	Know-how activities for a technology	•			
	Other technological benefits	•			
Balance of payments	Reduction of foreign dependency				•
	Other macro-economic benefits	•			

### **D. Further information:**

	N/A	Partly	Slightly	Highly
	•			

## Detailed description

### A. Environmental co-Benefits

No co-benefits related to air, water, natural resources are described.

	Indicator	Specification	Extent
Land	The CDM project activity improves the soil quality and/or avoid soil pollution, waste disposal as follows:		
	Pollution prevention	<i>The activity avoids soil pollution. No waste nor anything that is harmful to the soil is generated or disposed by the activity.</i>	Highly
	Compost		N/A
	Manure, mineral fertilizer or other soil nutrients?		N/A
	Irrigation		N/A
	Soil erosion		N/A
	Tillage		N/A
	Other means to improve land quality		N/A

### B. Social co-Benefits

No co-benefits related to health and safety are described.

	Indicator	Specification	Extent
Jobs	The CDM project activity creates new job opportunities including income generation as follows:		
	New long term jobs	<i>Yes, The project activity generates long term jobs for Engineers and Technicians.</i> New long-term jobs > 1 year - 15	Highly
	New short term jobs	<i>The project creates short term jobs for contractual employees as well who work during activities like erection and commissioning etc.</i> New short-term jobs < 1 year - 6	Highly
	Income generation		Highly
	Other employment opportunities		Partly
Education	The CDM project activity facilitates education, dissemination of information, research or increases awareness as follows:		
	Job related training	<i>Awareness of renewable energy resources and its advantages is taught to trainees.</i>	Highly
	Project related knowledge dissemination	<i>Each employee working at site is given knowledge of project and site representatives regularly visit the site to evaluate performance of the Wind turbines.</i>	Highly
Welfare	The CDM project activity improves local living and working conditions as follows:		
	Improvement of working conditions	<i>Working place has many facilities which are provided to employees like good food and mineral water is provided. better transportation is there for them.</i>	Highly
	Community or rural upliftment		Partly

	Poverty alleviation	<i>locals are recruited in various jobs for site thus they are getting income and enhancing their lives</i>	Highly
	Changes in distribution and/or generation of income and assets		Partly
	Increased municipal revenues		N/A
	Empowerment of women		N/A
	Reduced traffic congestion		N/A
	Other welfare benefits		N/A

### **C. Economic co-Benefits**

No co-benefits related to technology transfer are described.

	Indicator	Specification	Extent
Growth	The CDM project activity supports economic development and/or stability as follows:		
	New investments	<i>The investment put in for the project activity contributes in economic growth and in establishment and maintenance of infrastructure which support economic development</i>	Highly
	New industrial/comercial activities		N/A
	New infrastructure	<i>Maintenance is done of all Wind turbines 2 times in a year, also Breakdown maintenance is done for the turbines having any fault. for which charges are paid to Maintenance company regularly</i>	Highly
	Enhancement of productivity	<i>A dedicated team works on enhancing productivity of Wind turbines and put efforts to minimize restoration time.</i>	Highly
	Reduction of production costs (services)		N/A
	New business opportunities		Highly
	Other economic benefits		N/A
Energy	The CDM project activity supports economic development and/or stability as follows:		
	Supply of energy	<i>The activity supports in reducing gap between Demand and Supply of Energy to it's consumers.it provides the cushion to distribution companies during peak load period</i>	Highly
	Access to energy		Highly
	Affordability and/or reliability of energy		Partly
	Other improvements to energy		N/A
Balance of payments	The CDM project activity results in improving the country's balance of payments as follows:		
	Reduction of the dependency on foreign sources of energy	<i>Import of coal used in thermal power plants is reduced in last few years due to more installations of Wind power plants across the country.</i>	Highly
	Other macroeconomic benefits		N/A