NS-305 - Industrial Energy Efficiency Improvement in South Africa

South Africa

NAMA for Recognition

	A Overview		
A.1 Party	South Africa		
A.2 Title of Mitigation Action A.3 Description of mitigation action	Industrial Energy Efficiency Improvement in South Africa		
A.3 Description of mitigation action	The project aims at contributing	to a sustainable transformation of industrial energy usage practices in South Africa by putting the system of Energy Management Standards (EMS) in place and ensuring that industries in agro-processing, chemical and liquid fuels, mechanical engineering, automotive and mining industry use it. In order to achieve this goal, it is planned to stimulate the demand of Energy Efficient services through formulation and implementation of an enabling policy framework including a supportive financial mechanism for EE, creation of institutional capacity to implement the EMS, awareness raising, energy audits, and demonstration projects. It is also planned to support the supply of Energy Efficient services by building the institutional capacities to accredit, certify EMS compliance, and by training local trainers and consultants in EMS implementation and energy system optimization, as well as in energy management in the targeted sub-sectors.	
A.4 Sector	Energy supply Residential and Commercial	Transport and its Infrastructure X Industry	
	buildings	Forestry	

	Agriculture			
	Waste management			
	Other			
	Other			
A.5 Technology	Bioenergy Cleaner fuels			
	X Energy Efficiency			
	Hydropower Geothermal			
	Wind Energy Solar Energy			
	Carbon Capture and Storage			
	I I ow fill / No fill			
	Land fill gas collection			
	Other			
A.6 Type of action	V National / Sectoral goal Project: Investment in			
	machinery			
	Strategy Project: Investment in			
	X National/Sectoral policy or infrastructure			
	program Project : other			
	Other Other			
A.7 Greenhouse gases covered by the action				
71.7 Greenhouse gases covered by the action	XCO2 CH4			
	N2O HFCs			
	PFCs SF6			
	Other			
B Nation	nal Implementing Entity			
B.1.0 Name	UNIDO and NCPC-SA			
B.1.1 Contact Person 1	James New			
B.1.2 Address	Wagramer Str. 5, 1220 Vienna, Austria / Meiring Naude			
D.1.2 Address				
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B.1.4 Email				
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B.1.5 Contact Person 2	Alfred Hartzenburg			
B.1.6 Address				
B.1.7 Phone				
B.1.8 Email	ahartzenburg@csir.co.za			
B.1.9 Contact Person 3				
B.1.10 Address				
B.1.11 Phone				
B.1.12 Email				
B.1.13 Comments				
	the implementaion of the mitigation action			
C.1 Number of years for completion 4				
, i				
C.2 Expected start year of implementation 2010 D Currency				
D.1 Used Currency				
	AED			
Conversion to USD: 1				
E Cost				
E.1.1 Estimated full cost of preparation 606891				
E.1.2 Comments on estimated full cost of ZAR14.00/USD				
preparation				

E.2.1 Estimated full cost of implementation 5275000 E.2.2 Comments on estimated full cost of The full project cost comprise a USD 3 357 000 contribution implementation from the South African Government and a USD 1 928 000 contribution from the Government of Switzerland through SECO. E.3.1 Estimated incremental cost of implementation E.3.2 Comments on estimated incremental cost of implementation F Estimated emission reductions F.1 Amount t 1 9 F.2 Unit MtCO2e F.3 Additional information (e.g. if available, Project emission reduction calculations were based on numerous information on the methodological approach sources of power generation and industrial use CO2e emission followed) conversion rates from the USA, UK and RSA and corresponding fuels with similar Carbon and Oxygen levels were identified. Other sources applied in the determination of CO2e emission factors were Energy Cybernetics in South Africa, the US Climate Registry Default Emission Factors released January 6 2012 and UNIDO Steam System Optimisation emission authored by Dr Greg Harrel, Riyaz Papar. G Other indicators G.1 Other indicators of implementation • 2 119 GWh saved • R1.7 B in energy cost saved / avoided • 384 Industrial and commercial plants engaged • 82 Demonstration plants developed • 58 Case studies produced • 220 Training workshops conducted • 3 200 delegates trained • 155 National EnMS / ESO experts qualified • 53 National EnMS / ESO trainers produced • 40 Lead auditors qualified in ISO 50001 H Other relevant information H.1 Other relevant information including co-Manufacturing production levels and employment restored, retained benefits for local sustainable development and increased. I Relevant National Policies strategies, plans and programmes and/or other mitigation action I 1 Relevant National Policies • National Development Plan • New Growth Path Framework • Industrial Policy Action Plan 2014/15 - 2016/17 • White Paper on the Energy Policy of the Republic of South Africa (1998) • National Energy Act (2008), Notice 259 relating to energy consumptions reporting and the submission of 5 year energy management plans to DoE. • Integrated resource plan (IRP) 2010 • National Energy Efficiency Strategy review 2 (2012) • National Energy Efficiency Action plan (2013) • Climate Change Response Policy White paper • Carbon tax discussion paper • Carbon tax offsets discussion paper I.2 Link to other NAMAs

J Attachments

J	Attachments	Title Description		
J.1	Attachment description	N/A		
J.2	File		Browse	