

Group Systems and Support Systems Division (GSSSD)										
Sub-programme/ project	Potential environmental impacts	Environmental objective	Applicable legislative requirement	Expected outcomes	Responsibility	2010/2011 Target	2011/2012 Target	2012/2013 Target	2013/2014 Target	Performance Indicator/measure
						use				
Accommodation services and space	Waste generation and minimization	Ensure the environmentally sound reuse/recycling/ disposal of waste generated by the dti's national and international offices in accordance with the waste hierarchy	NEMA 2. (4) (a) i-viii; (b); (e); (f) NEM: Waste Act: S16; S17; S18	Improved management of waste on the dti campus in accordance with the waste hierarchy	COO/DDG DEA and Business	Conduct audit to determine the volume of paper and waste paper generated on the dti campus	Ensure proper management of waste	Effective management of waste	Effective management of waste	Monitoring of paper consumption in place and achievement of review targets set based on current baseline
Procurement	Develop and implement green procurement strategy for the dti	Improved environmental footprint of the dti premises arising from green procurement		Improved environmental footprint of the dti premises arising from green procurement	COO/DDG DEA and CSIR	Develop a phased strategy for green procurement for the dti	Implement the phased green procurement strategy	Implement the phased green procurement strategy	Implement the phased green procurement strategy	Green procurement strategy developed and implemented maintenance and retrofitting programmes implement sustainable technologies
Procurement	Increased carbon footprint of the dti	Improved environmental footprint of the dti premises arising from green procurement		Improved environmental footprint of the dti premises arising from green procurement	COO/DDG DOT All Government Departments	Review of transport tender in consultation with DOT to incorporate technical requirements for green procurement	Review of transport tender in consultation with DOT to incorporate technical requirements for green procurement	Review of transport tender in consultation with DOT to incorporate technical requirements for green procurement	Review of transport tender in consultation with DOT to incorporate technical requirements for green procurement	Improve the environmental footprint of the dti

Group Systems and Support Systems Division (GSSSD)										
Sub-programme/ project	Potential environmental impacts	Environmental objective	Applicable legislative requirement	Expected outcomes	Responsibility	2010/2011 Target	2011/2012 Target	2012/2013 Target	2013/2014 Target	Performance indicator/measure
Information technology services	Waste generation and minimization	Promote avoidance and minimization of waste including ongoing use of a paperless system in the dti's national and international offices	NEM: Waste Act: S16; S17; S18	Improved natural resource use efficiency on the dti	COO/DDG SALGA, DEA and COGTA	ECM training and awareness sessions Formal endorsement of ECM by Executives. Roll out of the tool to all international offices	ECM Training and awareness	ECM Training and awareness	ECM Training and awareness	Service level agreement with waste removal service requiring appropriate reuse/recycling and safe disposal
Information technology services	Waste generation and minimization	Ensure the environmentally sound reuse		Improved natural resource use efficiency on the dti	COO/DDG Business	Donation of old computer equipment to schools, needy organisations, etc.	Donation of old computer equipment to schools, needy organisations, etc.	Donation of old computer equipment to schools, needy organisations, etc.	Donation of old computer equipment to schools, needy organisations, etc.	
Human Resources	Insufficient promotion of environmental awareness amongst employees at all levels within the dti will increase the environmental footprint of the dti and contribute to the degradation of the environment	Promote environmental awareness and understanding of all staff levels and in relevant divisions through targeted training programmes	NEMA 2.(4) (a) i-viii; (b); (e); (f)	Improved environmental awareness	COO/DDG	Liaison with academic institutions on development of course materials on trade & industry in relation to the environment	Liaison with academic institutions on development of course materials on trade & industry in relation to the environment	Liaison with academic institutions on development of course materials on trade & industry in relation to the environment	Liaison with academic institutions on development of course materials on trade & industry in relation to the environment	Documented ongoing liaison with academic institutions on the development of new course materials on trade & industry in relation to the environment

Table 43-3: Environmental impacts, objectives, timeframes and indicators for sub-programmes of the IDD

Industrial Development Division (IDD)									
Sub-programme/project	Potential environmental impacts	Environmental objective	Expected outcomes	Responsibility	2010/2011 Target	2011/2012 Target	2012/2013 Target	2013/2014 Target	Performance indicator/measure
Quality infrastructure and regulations for energy efficiency	Energy-expensive technologies and products can result in inefficient resource use which can cause impacts on the environment	Develop quality infrastructure and regulations for energy efficiency	Energy-efficient technical support and regulations	COO/DDG DoE/ NRCS	Finalize energy-efficient building regulations and compulsory specifications for energy-efficient lamps	Finalise compulsory specifications for appliances Facilitate and advocate for local government implementation of the new energy-efficient building regulations with the NRCS, Dept of Environmental Affairs and local government	Finalise compulsory specifications for equipment Facilitate and advocate for local government implementation of the new energy-efficient building regulations with the NRCS, Dept of Environmental Affairs and local government	Finalise compulsory specification for industrial Motors	Publication in the Government Gazette of energy-efficient building regulations for new buildings including: - Compulsory requirements solar water heaters in new buildings - Energy-efficient lamps - Household appliances and equipment

Industrial Development Division (IDD)									
Sub-programme/project	Potential environmental impacts	Environmental objective	Expected outcomes	Responsibility	2010/2011 Target	2011/2012 Target	2012/2013 Target	2013/2014 Target	Performance indicator/measure
Creation of Renewable and nuclear energy	Reduce reliance on fossil fuels	Reduce reliance on fossil fuels	Local production capacities created/identified and developed to support use of alternative energy sources	COO/DDG DoE, DPE, Eskom	Finalise strategies and source funding to support local production of identified components	Initiate local production of nuclear and renewable energy components	Roll out the local production of renewable and nuclear energy components	Roll out the local production of renewable and nuclear energy components	New industries created in the nuclear and renewable energy sectors
Implementation of Cleaner Production measures	Inappropriate technology is used by industry resulting in inefficient use of resources and higher volumes of pollution	Implementation of cleaner production measures	More industry sectors understanding and adopting cleaner production	COO/DDG DEA and DoE	105 audits in IPAP sectors	130 audits in IPAP sectors	170 audits in IPAP sectors	Continue implementing cleaner production measures	Cleaner production audits and advocacy

Table.43-4: Environmental impacts, objectives, timeframes and indicators for sub-programmes of the CCRD

Consumer and Corporate Regulation Division (CCRD)									
Sub-programme/project	Potential environmental impacts	Environmental objective	Expected outcomes	Responsibility	2010/11 Target	2011/12 Target	2012/13 Target	2013/14 Target	Performance indicator/measure
Disposal and destruction of counterfeit goods by SAPS, with assistance of OCIPE Unit	Possibility of disposal or incineration in non-permitted disposal or incineration facility could impact the quality of air, soil and water	Inform waste disposal teams of the requirements for disposal of counterfeit goods in a suitably permitted waste disposal facility, and to advise them of where these are located	Identification of sites and permits Better controlled environment for disposals Compliance by well informed team	COO/DDG DEA and Municipalities	Allocation of permits and sites Enforcement	Monitoring and evaluation Enforcement	Monitoring and evaluation Enforcement	Monitoring and evaluation Enforcement	List of permitted waste disposal sites by category (dependant on hazard level of waste) and location
		Update the guidelines on responsible waste disposal and incineration for use by SAPS counterfeit goods division	Reduction in non-compliance Informed stakeholders	COO/DDG DEA and Municipalities	Adoption of guideline Consultations	Implementation	Implementation	Implementation	Updated guideline document submitted to SAPS
Consumer protection and awareness	By enhancing consumer protection and awareness, negative behaviours regarding consumption and production can be changed	Build the capacity of dti staff dealing with consumer protection and awareness regarding sustainable consumption and environmental responsibility	Better informed staff able to raise awareness and educate stakeholders	COO/DDG	Education and awareness	Education and awareness	Education and awareness	Education and awareness	Training module on sustainable consumption and environmental responsibility developed and implemented as part of staff induction programme

Consumer and Corporate Regulation Division (CCRD)									
Sub-programme/project	Potential environmental impacts	Environmental objective	Expected outcomes	Responsibility	2010/11 Target	2011/12 Target	2012/13 Target	2013/14 Target	Performance indicator/measure
	Without effective programmes aimed at consumer protection and awareness, people and the environment could be at risk (e.g. unsafe disposal of energy-saving light bulbs)	Ensure that are built into information – sharing and consumer outreach activities (especially to SMMEs)	Educated and compliant stakeholders	COO/DDG	Education and awareness Monitoring and evaluation Compliance	Education and awareness Monitoring and evaluation Compliance	Education and awareness Monitoring and evaluation Compliance	Education and awareness Monitoring and evaluation Compliance	Consumer sharing and outreach presentations include the principles and practices of sound environmental management

Table.4-5: Environmental impacts, objectives, timeframes and indicators for sub-programmes of the EEDD

Empowerment and Enterprise Development Division (EEDD)										
Sub-programme /project	Potential environmental impacts	Environmental objective	Applicable legislative requirement	Expected outcomes	Responsibility	2010/11 Target	2011/12 Target	2012/13 Target	2013/14 Target	Performance indicator/measure
Co-operatives Development Programme	Environmental impacts could result from the unsustainable operation of co-operatives	Co-operatives within the Development Programme are made more environmentally sustainable	NEMA S 2 (4) (f);(p); (q); (r)	Existing self-employment and income generation opportunities for under-privileged communities focus on green jobs and waste recycling	COO/DDG	Training material cooperatives to include a section on waste recycling	Training material cooperatives to include a section on waste recycling	Training material cooperatives to include a section on waste recycling	Training material cooperatives to include a section on waste recycling	Training material cooperatives to include a section on waste recycling
Foundation of African Business and Consumer Services (FABCOS) Academy	Environmentally unsustainable practices by enterprises will result in impacts on the environment	Provision of cleaner production on-site business skills training and mentoring	NEMA S 2 (4)(e); (f);(p); (q); (r)	Cleaner production incorporate into business skills training and mentoring	COO/DDG	Investigate the possibility of including cleaner production training in modules	Investigate the possibility of including cleaner production training in modules	Investigate the possibility of including cleaner production training in modules	Investigate the possibility of including cleaner production training in modules	Module available and up to date
Development of emerging franchise businesses	Environmental and health impacts could result from unsustainable farming and food production processes	Emerging organic food franchise developed	NEMA S 2 (4)(e); (f);(p); (q); (r)	Provision of support and development assistance to emerging franchise support programme	COO/DDG DAFF	Three year strategic and business plan incorporate organic food franchising and finding is sourced	Identify possible organic food franchise system	Identify possible organic food franchise system	Identify possible organic food franchise system	Functional emerging organic food franchise support programme

Empowerment and Enterprise Development Division (EEDD)										
Sub-programme /project	Potential environmental impacts	Environmental objective	Applicable legislative requirement	Expected outcomes	Responsibility	2010/11 Target	2011/12 Target	2012/13 Target	2013/14 Target	Performance indicator/measure
Support Programme for Industrial Innovation (SPII)	Environmentally unsustainable practices by industries will result in impacts on the environment	Enhance support for cleaner technology innovations via the SPII	NEMA S 2 (4)(a) i-viii; (b); (i)	Competitive innovations on cleaner technology assisted via the SPII	COO/DDG	Assist 2 new projects to the total value of R1 million SPII support to develop cleaner technology and green jobs4	Assist 2 new projects to the total value of R1 million SPII support to develop cleaner technology and green1 jobs1	Assist 3 new projects to the total value of R1.5 million SPII support to develop cleaner technology and green jobs1	Assist 3 new projects to the total value of R1.5 million SPII support to develop cleaner technology and green jobs1	Number of green jobs via SPII support Total value of SPII support to projects assisted with implementation of cleaner technology and green jobs
Technology and Human Resources for Industry Programme (THRIP)	Environmentally unsustainable practices by enterprises and industries will result in impacts on the environment	Implementation of THRIP to include green jobs and cleaner technology	NEMA S 2 (4)(a) i-viii; (b); (i); (j)	Projected outputs for THRIP environmental projects	COO/DDG	8 projects	10 projects	15 projects	20 projects	Number of projects
Technology and Human Resources for Industry Programme (THRIP)	Environmentally unsustainable practices by enterprises and industries will result in impacts on the environment	Implementation of THRIP to include green jobs and cleaner technology		Projected outputs for THRIP environmental projects	COO/DDG DEA/ DST and DED	80 students	100 students	150 students	200 students	Number of students

Empowerment and Enterprise Development Division (EEDD)

Sub-programme /project	Potential environmental impacts	Environmental objective	Applicable legislative requirement	Expected outcomes	Responsibility	2010/11 Target	2011/12 Target	2012/13 Target	2013/14 Target	Performance indicator/measure
Equity Equivalent Investment Programme (EEIP)	Environmentally unsustainable practices by enterprises will result in impacts on the environment	Mainstream green jobs and cleaner production by multinational firms operating in South Africa	NEMA S 2 (4)(a) i-viii; (b); (i); (j); (n)	Increased participation of and compliance by multinational firms to implementing green jobs and cleaner production	COO/DDG DEA/ DST /DPE and DED	Provide information to multinational firms to focus them on green jobs and cleaner production	Provide information to multinational firms to focus them on green jobs and cleaner production	Provide information to multinational firms to focus them on green jobs and cleaner production	Provide information to multinational firms to focus them on green jobs and cleaner production	Number of multinational firms engaged
Isivande Women's Fund (IWF)	Environmentally unsustainable practices by enterprises will result in impacts on the environment	Financial support for women enterprises through IWF focuses on green jobs and cleaner production	NEMA S 2 (4)(a) i-viii; (b); (i); (j); (q)	Increased financial support from IWF for women enterprises focused on green jobs and cleaner production	COO/DDG DWCPD	Engaging the IDC as Fund manager to support one green project with funding	Engaging the IDC as Fund manager to support two green project with funding	Engaging the IDC as Fund manager to support three green project with funding	Engaging the IDC as Fund manager to support three green project with funding	Number of loans approved
Capacity- building for women in arts and crafts through the Bavumile Programme	Without implementing reuse of waste, there could be increased impacts on the environment	Provide capacity –building for women on use of waste in arts and crafts through the Bavumile Programme		Skilled women entrepreneur in arts and crafts through the Bavumile Programme	COO/DDG DWCPD	Include cleaner production in training material	Include cleaner production in training material	Include cleaner production in training material	Include cleaner production in training material	Training course to include cleaner production

Empowerment and Enterprise Development Division (EEDD)										
Sub-programme /project	Potential environmental impacts	Environmental objective	Applicable legislative requirement	Expected outcomes	Responsibility	2010/11 Target	2011/12 Target	2012/13 Target	2013/14 Target	Performance indicator/measure
Technology for Women in business (TWIB)	Current incubation for technology transfers pays little regard to cleaner process with potential hazardous results	Refine the program to incorporate environmentally friendly approaches.		TWIB Awards will include environmentally friendly criteria	COO/DDG DWCPD	2% of criteria weighting	4% of criteria weighting	6% of criteria weighting	8% of criteria weighting	Percentage of TWIB incubated projects environmentally friendly
Centre for Entrepreneurship Programme	Entrepreneurs who have not undergone training on environmental protection during their training at the Centre will not run companies that sustain the environment	Modify and expand the Centre for Entrepreneurship Programme to incorporate an environmental awareness programme in their curriculum	NEMA S 2 (4)(a) i-viii; (b); (h); (j); (q)	Centre for Entrepreneurship to produce entrepreneurs who are environmentally conscious and friendly		Investigate possibility to include environmentally friendly training programme in Entrepreneurship programme	Investigate possibility to include environmentally friendly training programme in Entrepreneurship programme	Investigate possibility to include environmentally friendly training programme in Entrepreneurs hip programme	Investigate possibility to include environmentally friendly training programme in Entrepreneurship programme	Amended Entrepreneurship programme

Empowerment and Enterprise Development Division (EEDD)										
Sub-programme /project	Potential environmental impacts	Environmental objective	Applicable legislative requirement	Expected outcomes	Responsibility	2010/11 Target	2011/12 Target	2012/13 Target	2013/14 Target	Performance indicator/measure
Workplace Challenge Programme	Environmentally unsustainable practices by industries will result in impacts on the environment	Strengthen the implementation of cleaner technologies and production via the Workplace Challenge Programme		Increased implementation of cleaner technologies and production via the Workplace Challenge Programme	COO/DDG Dept of Labour	Workplace Challenge programme to consider to include possible support for cleaner technologies and production , where appropriate	Workplace Challenge programme to consider to include possible support for cleaner technologies and production , where appropriate	Workplace Challenge programme to consider to include possible support for cleaner technologies and production , where appropriate	Workplace Challenge programme to consider to include possible support for cleaner technologies and production , where appropriate	Amendments to the Workplace Challenge

Table.4-6: Environmental impacts, objectives, timeframes and indicators for sub-programmes of TISA

Trade and Investment South Africa (TISA)									
Sub-programme/project	Potential environmental impacts	Environmental objective	Expected outcomes	Responsibility	2010/2011 Target	2011/2012 Target	2012/2013 Target	2013/2014 Target	Performance Indicator/measure
Investment promotion for advanced manufacturing	Manufacturing of technologies reliant on unsustainable energy sources results in pollution which caused impacts on the environment	Investment promotion for manufacturing of cleaner energy/ alternative energy technologies and generation of green jobs	Increased manufacturing of advanced alternative energy technologies Carbon credits	COO/DDG National Treasury and SARS	R6bn Develop strategy for implementation of carbon credits	R12bn Implement strategy for carbon credits	R15bn Implement strategy for carbon credits	R19bn Implement strategy for carbon credits	Value of the projects in the investment pipeline focused on advanced alternative energy sources Strategy for implementation of carbon credits developed and implemented
Investment promotion for manufacturing	Manufacturing of technologies reliant on unsustainable energy sources results in pollution which cause environmental impacts	Investment promotion for manufacturing of alternative energy technologies and generation of green jobs	Increased manufacturing of alternative technologies including solar heating systems and batteries for electric vehicles	COO/DDG	Develop strategy and targets for increased manufacturing of alternative technologies	Implement targets for increased manufacturing of alternative technologies	Implement targets for increased manufacturing of alternative technologies	Implement targets for increased manufacturing of alternative technologies	Value of the projects in the investment pipeline focused on alternative energy sources

Trade and Investment South Africa (TISA)									
Sub-programme/project	Potential environmental impacts	Environmental objective	Expected outcomes	Responsibility	2010/2011 Target	2011/2012 Target	2012/2013 Target	2013/2014 Target	Performance Indicator/measure
Promotion of investment	Regulatory environment not conducive to promotion of sustainable technologies and practices can prolong and promote technologies and practices which are harmful to the environment	Identify and address South African issues which regulatory is preventing environmental targets from being met, and put in place strategy to address these barriers	Improved regulatory environment to allow environmental targets to be met	COO/DDG National Treasury	Identify regulatory issues in south Africa preventing environmental targets from being met, and formulate policy to address these	Roll out of policy	Roll-out of policy	Roll-out of policy	Strategy for addressing barriers to implementation of environmental targets produced and implemented
Promotion of resource-based industries (including mining and metal-based industries, agro-processing and bio-fuels)	Reliance on natural resources can result in natural habitat destruction, as well as pollution of, as well as soil, air, surface and ground – water.	Evaluation of the environmental costs and benefits of potential resource-based projects. Improved application of cleaner production	Full accounting, including of opportunity costs, needs to be taken into account during evaluation of investment potential. Increased implementation of cleaner production during manufacturing	COO/DDG DAFF	Conceptualise procedure for accounting of costs and benefits of resource-based industries	Implement targets	Implement targets	Implement targets	Number of potential investors evaluated using procedure which includes evaluation of environmental risk
	It can further result in	Number of	Shift to green	COO/DDG	Develop strategy	Implement targets for	Implement targets for	Implement targets for	Number of companies implementing cleaner production Number of green jobs

Trade and Investment South Africa (TISA)									
Sub-programme/project	Potential environmental impacts	Environmental objective	Expected outcomes	Responsibility	2010/2011 Target	2011/2012 Target	2012/2013 Target	2013/2014 Target	Performance Indicator/measure
	reduced land-use potential , for example, due to generation of mine dumps a	green jobs created	economy and Increased number of and jobs in course of promotion of resource-based industries		and targets for generation of green jobs	creation of green jobs	creation of green jobs	creation of green jobs	created
Promotion of services including tourism, logistics and infrastructure, as well as information, communication and technology	Risk of facilitating investment in services including tourism that is not environmentally compliant or sustainable	Improved awareness of the environmental legislative requirements nationally and internationally	Companies and potential investors are aware of the environmental legislative requirements nationally and internationally Increased value of environmentally sustainable projects committed	COO/DD DOT COO/DDG	Develop capacity-building strategy on national and international environmental requirements Conceptualise requirements for promotion of environmentally sustainable projects Brochure on South Africa and sustainable technologies developed and targets for	Implement targets for capacity-building Implement promotional activities Targets for distribution of brochure implemented	Implement targets for capacity-building Implement promotional activities Targets for distribution of brochure implemented	Implement targets for capacity-building Implement promotional activities Targets for distribution of brochure implemented	Presentations and customised sector profiles include national and international environmental legislative requirements Number of promotional activities based on cleaner technology, green jobs, sustainable procurement and environmentally sustainable

Trade and Investment South Africa (TISA)									
Sub-programme/project	Potential environmental impacts	Environmental objective	Expected outcomes	Responsibility	2010/2011 Target	2011/2012 Target	2012/2013 Target	2013/2014 Target	Performance Indicator/measure
					distribution set				practices Number of brochures distributed
Provision of Investment Information: General	Risk of facilitating investment including technology transfer that is not environmentally compliant or sustainable	Publications covering obligations and policy on cleaner technology, green jobs, and environmentally sustainable practices printed and distributed to South African missions, Provincial Investment Promotion Agencies and potential investors	Improved awareness among South African missions, Provincial Investment Promotion Agencies and potential investors	COO/DDG Provincial Economic developments	Environmental obligations incorporated into: Investors Handbook, publication Cost of doing business in South Africa, publication Geared for growth publication Emerging market series by March 2011	Distribution of publications containing environmental obligations	Distribution of publications containing environmental obligations	Distribution of publications containing environmental obligations	Proof of incorporation of environmental obligations into publications and number of these publications distributed

Trade and Investment South Africa (TISA)									
Sub-programme/project	Potential environmental impacts	Environmental objective	Expected outcomes	Responsibility	2010/2011 Target	2011/2012 Target	2012/2013 Target	2013/2014 Target	Performance Indicator/measure
National Pavilion participation	Jobs generated through promotion of unsustainable technologies increase pollution and result in environmental impacts	Generate green jobs through the National Pavilion	Increased number of green jobs generated through the National Pavilion	COO/DDG DIRCO	8 green jobs generated	9 green jobs generated	10 green jobs generated	10 green jobs generated	Total number of green jobs generated
Financial assistance to companies	Support of companies using unsustainable technologies will cause pollution which results in impacts on the environment	Provide financial assistance to companies implementing cleaner production	Increased financial assistance to companies implementing cleaner production	COO/DDG National Treasury	8 companies implementing cleaner production assisted	9 companies implementing cleaner production assisted	10 companies implementing cleaner production assisted	11 companies implementing cleaner production assisted	Number of companies assisted with implementing cleaner technologies
Promotion of South African products	Risk of facilitating employment, trade and industry that is not environmentally sensitive and skilled	Promote South African products manufactured through cleaner technology by conducting 4 Trade Missions	4 Trade Missions focused on cleaner technology and production	COO/DDG Proudly South African	1 environmentally focused trade mission	1 environmentally focused trade mission	1 environmentally focused trade mission	1 environmentally focused trade mission	Number of committed cleaner technology/production projects
Export Credit Reinsurance	Risk of SA enterprises involved in	Environmental compliance	Reduced risk of SA enterprises	COO/DDG	Develop strategy for reduction of risk of	Implement strategy for reduced risk	Implement strategy for reduced risk	Implement strategy for reduced risk	Inclusion of environmental compliance

Trade and Investment South Africa (TISA)									
Sub-programme/project	Potential environmental impacts	Environmental objective	Expected outcomes	Responsibility	2010/2011 Target	2011/2012 Target	2012/2013 Target	2013/2014 Target	Performance Indicator/measure
Scheme	contracts that are not environmentally compliant	There should be an element of each contract	involved in contracts that are not environmentally compliant		environmental non-compliance	of environmental non-compliance	of environmental non-compliance	of environmental non-compliance	requirements in contracts
Export development and promotion	Risk of facilitating exports that are potentially harmful to the environment and which are not compliant with national and international legislation, norms and standards (including Multilateral Environmental Agreements)	Ensure that export products and services that are being promoted are compliant with national and international legislation, norms and standards (including Multilateral Environmental Agreements)	Improved level of environmental compliance by exporting industries Liaison with Team Exports South Africa (TESA) and Export Council Movement	COO/DDG ITAC	Develop and implement strategy for database on environmental compliance for exports Brochures developed and disseminated	Maintain database Brochures distributed, presentations given and articles published	Maintain database Brochures distributed, presentations given and articles published	Maintain database Brochures distributed, presentations given and articles published	Maintain database of quality information about environmental requirements guiding export of products and services, and their specifications Number of brochures presentations and articles produced on environmental requirements for dissemination to exporters
International operations	International operations (foreign economic offices) of the dti can cause carbon emission and	Ensure that foreign economic offices are run in an environmentally efficient	Improved level of environmental sustainability of foreign economic offices	COO/DDG DIRCO	Conceptualize approach for ensuring minimized travel, waste generation and improved energy efficiency	Implement approach for improved environmental efficiency	Implement approach for improved environmental efficiency	Implement approach for improved environmental efficiency	Report on environmental performance of operations

Trade and Investment South Africa (TISA)									
Sub-programme/project	Potential environmental impacts	Environmental objective	Expected outcomes	Responsibility	2010/2011 Target	2011/2012 Target	2012/2013 Target	2013/2014 Target	Performance Indicator/measure
	waste	manner, including minimization of travel, waste avoidance and energy efficiency							
National and international operations	Local and international travel by dti personnel and their visitors has a significant impact on carbon emissions which can contribute to climate change	Institute alternative means of communication to minimize travel wherever possible, and determine means of offsetting carbon emissions from travel	Reduced carbon footprint for national and international operations	COO/DDG DIRCO	Carbon footprint analysis undertaken Develop policy on prioritizing travel	Roll-out of policy Offset project for carbon emissions identified	Roll-out of policy Offset project for carbon emissions implemented	Roll-out of policy Offset project for carbon emissions implemented	Guideline on prioritizing travel Carbon footprint analysis undertaken Verifiable implementation of offset project for carbon emissions

Table.4-7: Environmental impacts, objectives, timeframes and indicators for sub-programmes of ITED

Sub-programme/project	Potential environmental impacts	Environmental objective	Expected outcomes	Responsibility	2010/2011 Target	2011/2012 Target	2012/2013 Target	2013/2014 Target	Performance indicator/measure
Africa economic relations	Insufficient consideration of environmental costs and benefits in the selection/identification of priority areas of trade and investment can lead to inappropriate nature and location of enterprises. This can increase the risk of environmental impact.	Alignment of, and coordination on sustainable development and trade in Africa in combination with common approach to SDC regional integration and Minimum Integration Programme	Increased alignment of sustainable development in Africa	COO/DDG DED	Develop a joint strategy for incorporating environmental considerations into the South Africa position paper on the establishment of the Trilateral FTA, and NEPAD Spatial Development Programme (SDP)	Apply environmental strategy to projects implemented for the FTA and NEPAD SDP	Apply environmental strategy to projects implemented for the FTA and NEPAD SDP	Apply environmental strategy to projects implemented for the FTA and NEPAD SDP	A joint strategy on sustainable development and trade in Africa is developed and applied to FTA and NEPAD SDP projects
		Identification and planning of regional spatial development initiatives (SDIs) is informed by strategic environmental assessment	SDIs informed by SEA	COO/DDG	Commission strategic environmental assessments as part of reprioritisation of SDIs in SADC	Implementation of SDI projects in line with SEAs	Implementation of SDI projects in line with SEAs	Implementation of SDI projects in line with SEAs	Strategic environmental assessments are completed prior to detailed planning and infrastructure development
		Promote eco-labelling initiatives amongst African trade partners	Increased application of eco-labelling amongst African trade partners	COO/DDG Indalo Yethu/DEA	Develop strategy for promotion of ecolabelling amongst African trade partners	Apply strategy for eco-labelling	Apply strategy for eco-labelling	Revise and apply strategy for eco-labelling	Number of eco-labelling projects

Table. 4-8: Environmental impacts, objectives, timeframes and indicators for sub-programmes of TEO

Sub-programme/project	Potential environmental impacts	Environmental objective	Expected outcomes	Responsibility	2010/11 Target	2011/12 Target	2012/13 Target	2013/14 Target	Performance indicator/measure
New incentive developments	If environmental issues are not considered at the earliest stage (prefeasibility), impacts may not be avoided or minimized. This could be costly to mitigate in the later phases of project development	Enterprise Investment Programme (EIP) provides for investments in clean technology and creation of green jobs	Policy for incentives incorporate IEM Investments in clean technology Green jobs generated	COO/DDG National Treasury	Conceptualize Incentives for investments in clean technology and creation of green jobs	R0,447bn 600 jobs	R0,447bn 600 jobs	R0,447bn 600 jobs	Policy for incentives incorporates IEM Projected investment leveraged No. of green jobs created
		Automotive Investment Scheme (AIS) provides for investments in clean technology	Policy for incentives incorporate IEM Investments in clean technology and production	COO/DDG	Conceptualize incentives for investments in clean technology and production	R0,2bn	R0,2bn	R0,2bn	Policy for incentives incorporate IEM Projected investment leveraged
Industrial Development Zones	Environmental impacts could result from IDZ's being developed without proper environmental	Ensure that the funding model for IDZ's factors in environmental risk management	Management of environmental risk	COO/DDG	Conceptualise framework for the IDZ funding model to integrate environmental risk	Business plan analysis	Business plan analysis	Business plan analysis	Quarterly reports and financial statements

Sub-programme/project	Potential environmental impacts	Environmental objective	Expected outcomes	Responsibility	2010/11 Target	2011/12 Target	2012/13 Target	2013/14 Target	Performance indicator/measure
	planning and assessment	Evaluation report to include status of EIA, and EMP implementation	Designation of suitable IDZs dependent on environmental authorization	COO/DDG DEA	IDZ applications for Mafikeng, Bloemfontein, Durban, Saidana, OR Tambo and Secunda have approved EIAs	Implementation according to environmental management programme as incorporated into the EIA	Implementation according to environmental management programme as incorporated into the EIA	Implementation according to environmental management programme as incorporated into the EIA	Environmental impact assessment reports for IDZs
		IDZs provide for investments in clean technology and creation of green jobs	Policy for incentives incorporate IEM clean Investments in technology Green jobs generated	COO/DDG Municipalities/ Business	Conceptualize incentives and targets for investments in clean technology and creation of green jobs	Business plan analysis	Business plan analysis	Business plan analysis	Policy for incentives incorporates IEM Projected investment leveraged No. of green jobs created
Critical Infrastructure Programme with focus on rural, labour-intensive and green projects	Environmental impacts could result from the development of infrastructure without proper environmental planning and assessment	Ensure that funding for CIP factors environmental risk management	Management of environmental risk	COO/DDG DEA	Conceptualise framework for the CIP funding model to integrate Environmental risk	Business plan analysis	Business plan analysis	Business plan analysis	Quarterly reports and financial statements

Sub-programme/project	Potential environmental impacts	Environmental objective	Expected outcomes	Responsibility	2010/11 Target	2011/12 Target	2012/13 Target	2013/14 Target	Performance indicator/measure
		Evaluation report to include status of EIA, and EMP implementation	Designation of suitable CIPs dependent on environmental authorization	COO/DDG	CIP applications to have approved EIAs	Implementation to approved EIAs according to environmental management programme as incorporated into the EIA CIP applications to have approved EIAs	Implementation according to environmental management programme as incorporated into the EIA CIP IDZ applications to have approved EIAs	Implementation according to environmental management programme as incorporated into the EIA CIP IDZ applications to have approved EIAs	Environmental impact assessment reports for CIPs
		CIP provides for investments in clean technology and creation of green jobs	Policy for incentives incorporate IEM Investments in clean technology Green jobs generated	COO/DDG DST	Conceptualize Incentives and targets for investments in clean technology and creation of green jobs	Business plan analysis R0,2bn 105	Business plan analysis R0,2bn 105	Business plan analysis R0,2bn 105	Policy for incentives incorporates IEM Value of investment No. of green jobs created
Enterprise Investment Programme guidelines		Enhancement of green jobs in the Enterprise Investment Programme guidelines and align with industry outputs	Investment for green jobs leveraged Green jobs creation	COO/DDG DEA/ NDPW	Submission of revised guidelines for Ministerial Approval	Implement and monitor	Continued implementation and monitoring	Continued implementation and monitoring	Collate internal policy proposal, submission for approval by minister, technical support

Table. 4-8: Environmental impacts, objectives, timeframes and indicators for sub-programmes of TEO

Sub-programme/project	Potential environmental impacts	Environmental objective	Expected outcomes	Responsibility	2010/11 Target	2011/12 Target	2012/13 Target	2013/14 Target	Performance indicator/measure
New incentive developments	If environmental issues are not considered at the earliest stage (prefeasibility), impacts may not be avoided or minimized. This could be costly to mitigate in the later phases of project development	Enterprise Investment Programme (EIP) provides for investments in clean technology and creation of green jobs	Policy for incentives incorporate IEM Investments in clean technology Green jobs generated	COO/DDG National Treasury	Conceptualize Incentives for investments in clean technology and creation of green jobs	R0,447bn 600 jobs	R0,447bn 600 jobs	R0,447bn 600 jobs	Policy for incentives incorporates IEM Projected investment leveraged No. of green jobs created
		Automotive Investment Scheme (AIS) provides for investments in clean technology	Policy for incentives incorporate IEM Investments in clean technology and production	COO/DDG	Conceptualize Incentives for investments in clean technology and production	R0,2bn	R0,2bn	R0,2bn	Policy for incentives incorporate IEM Projected investment leveraged
Industrial Development Zones	Environmental impacts could result from IDZ's being developed without proper environmental	Ensure that the funding model for IDZ's factors in environmental risk management	Management of environmental risk	COO/DDG	Conceptualise framework for the IDZ funding model to integrate environmental risk	Business plan analysis	Business plan analysis	Business plan analysis	Quarterly reports and financial statements

Sub-programme/project	Potential environmental impacts	Environmental objective	Expected outcomes	Responsibility	2010/11 Target	2011/12 Target	2012/13 Target	2013/14 Target	Performance indicator/measure
	planning and assessment	Evaluation report to include status of EIA, and EMP implementation	Designation of suitable IDZs dependent on environmental authorization	COO/DDG DEA	IDZ applications for Mafikeng, Bloemfontein, Durban, Saidana, OR Tambo and Secunda have approved EIAs	Implementation according to environmental management programme as incorporated into the EIA	Implementation according to environmental management programme as incorporated into the EIA	Implementation according to environmental management programme as incorporated into the EIA	Environmental impact assessment reports for IDZs
		IDZs provide for investments in clean technology and creation of green jobs	Policy for incentives incorporate IEM clean Investments in technology Green jobs generated	COO/DDG Municipalities/ Business	Conceptualize Incentives and targets for investments in clean technology and creation of green jobs	Business plan analysis	Business plan analysis	Business plan analysis	Policy for incentives incorporates IEM Projected investment leveraged No. of green jobs created
Critical Infrastructure Programme with focus on rural, labour-intensive and green projects	Environmental impacts could result from the development of infrastructure without proper environmental planning and assessment	Ensure that funding for CIP factors environmental risk management	Management of environmental risk	COO/DDG DEA	Conceptualise framework for the CIP funding model to integrate Environmental risk	Business plan analysis	Business plan analysis	Business plan analysis	Quarterly reports and financial statements

Sub-programme/project	Potential environmental impacts	Environmental objective	Expected outcomes	Responsibility	2010/11 Target	2011/12 Target	2012/13 Target	2013/14 Target	Performance indicator/measure
		Evaluation report to include status of EIA, and EMP implementation	Designation of suitable CIPs dependent on environmental authorization	COO/DDG	CIP applications to have approved EIAs	Implementation of approved EIAs according to environmental management programme as incorporated into the EIA CIP applications to have approved EIAs	Implementation according to environmental management programme as incorporated into the EIA CIP IDZ applications to have approved EIAs	Implementation according to environmental management programme as incorporated into the EIA CIP IDZ applications to have approved EIAs	Environmental impact assessment reports for CIPs
		CIP provides for investments in clean technology and creation of green jobs	Policy for incentives incorporate IEM Investments in clean technology Green jobs generated	COO/DDG DST	Conceptualize incentives and targets for investments in clean technology and creation of green jobs	Business plan analysis R0,2bn 105	Business plan analysis R0,2bn 105	Business plan analysis R0,2bn 105	Policy for incentives incorporates IEM Value of investment No. of green jobs created
Enterprise Investment Programme guidelines		Enhancement of green jobs in the Enterprise Investment Programme guidelines and align with industry outputs	Investment for green jobs leveraged Green jobs creation	COO/DDG DEA/NDPW	Submission of revised guidelines for Ministerial Approval	Implement and monitor	Continued implementation and monitoring	Continued implementation and monitoring	Collate internal policy proposal, submission for approval by minister, technical support

Table. 4-8: Environmental impacts, objectives, timeframes and indicators for sub-programmes of TEO

Sub-programme/project	Potential environmental impacts	Environmental objective	Expected outcomes	Responsibility	2010/11 Target	2011/12 Target	2012/13 Target	2013/14 Target	Performance indicator/measure
New incentive developments	If environmental issues are not considered at the earliest stage (prefeasibility), impacts may not be avoided or minimized. This could be costly to mitigate in the later phases of project development	Enterprise Investment Programme (EIP) provides for investments in clean technology and creation of green jobs	Policy for incentives incorporate IEM Investments in clean technology Green jobs generated	COO/DDG National Treasury	Conceptualize Incentives for investments in clean technology and creation of green jobs	R0,447bn 600 jobs	R0,447bn 600 jobs	R0,447bn 600 jobs	Policy for incentives incorporates IEM Projected investment leveraged No. of green jobs created
		Automotive Investment Scheme (AIS) provides for investments in clean technology	Policy for incentives incorporate IEM Investments in clean technology and production	COO/DDG	Conceptualize Incentives for investments in clean technology and production	R0,2bn	R0.2bn	R0.2bn	Policy for incentives incorporate IEM Projected investment leveraged
Industrial Development Zones	Environmental impacts could result from IDZ's being developed without proper environmental	Ensure that the funding model for IDZ's factors in environmental risk management	Management of environmental risk	COO/DDG	Conceptualise framework for the IDZ funding model to integrate environmental risk	Business plan analysis	Business plan analysis	Business plan analysis	Quarterly reports and financial statements

Sub-programme/project	Potential environmental impacts	Environmental objective	Expected outcomes	Responsibility	2010/11 Target	2011/12 Target	2012/13 Target	2013/14 Target	Performance indicator/measure
	planning and assessment	Evaluation report to include status of EIA, and EMP implementation	Designation of suitable IDZs dependent on environmental authorization	COO/DDG DEA	IDZ applications for Mafikeng, Bloemfontein, Durban, Saldana, OR Tambo and Secunda have approved EIAs	Implementation according to environmental management programme as incorporated into the EIA	Implementation according to environmental management programme as incorporated into the EIA	Implementation according to environmental management programme as incorporated into the EIA	Environmental impact assessment reports for IDZs
		IDZs provide for investments in clean technology and creation of green jobs	Policy for incentives incorporate IEM clean Investments in technology Green jobs generated	COO/DDG Municipalities/ Business	Conceptualize Incentives and targets for investments in clean technology and creation of green jobs	Business plan analysis	Business plan analysis	Business plan analysis	Policy for incentives incorporates IEM Projected investment leveraged No. of green jobs created
Critical Infrastructure Programme with focus on rural, labour-intensive and green projects	Environmental impacts could result from the development of infrastructure without proper environmental planning and assessment	Ensure that funding for CIP factors environmental risk management	Management of environmental risk	COO/DDG DEA	Conceptualise framework for the CIP funding model to integrate Environmental risk	Business plan analysis	Business plan analysis	Business plan analysis	Quarterly reports and financial statements

Sub-programme/project	Potential environmental impacts	Environmental objective	Expected outcomes	Responsibility	2010/11 Target	2011/12 Target	2012/13 Target	2013/14 Target	Performance indicator/measure
		Evaluation report to include status of EIA, and EMP implementation	Designation of suitable CIPs dependent on environmental authorization	COO/DDG	CIP applications to have approved EIAs	Implementation of approved EIAs according to environmental management programme as incorporated into the EIA CIP applications to have approved EIAs	Implementation according to environmental management programme as incorporated into the EIA CIP IDZ applications to have approved EIAs	Implementation according to environmental management programme as incorporated into the EIA CIP IDZ applications to have approved EIAs	Environmental impact assessment reports for CIPs
		CIP provides for investments in clean technology and creation of green jobs	Policy for incentives incorporate IEM Investments in clean technology Green jobs generated	COO/DDG DST	Conceptualize Incentives and targets for investments in clean technology and creation of green jobs	Business plan analysis R0,2bn 105	Business plan analysis R0,2bn 105	Business plan analysis R0,2bn 105	Policy for incentives incorporates IEM Value of investment No. of green jobs created
Enterprise Investment Programme guidelines		Enhancement of green jobs in the Enterprise Investment Programme guidelines and align with industry outputs	Investment for green jobs leveraged Green jobs creation	COO/DDG DEA/ NDPW	Submission of revised guidelines for Ministerial Approval	Implement and monitor	Continued implementation and monitoring	Continued implementation and monitoring	Collate internal policy proposal, submission for approval by minister, technical support

Appendix A

1. Alignment of policies, plans and programmes with environmental legislation

In the previous editions of the EIP, **the dti** viewed the EIPs as the main tool for ensuring that its policies, plans and programmes will comply with the NEMA principles, norms and standards envisaged under section 146(2)(b)(i) of the Constitution, as well as other relevant national and international environmental legislation. **the dti**, including the staff of the divisions where these policies are developed, has identified the need for new policies and programmes to be reviewed from an environmental point of view during the development of these policies. Due to limitations on capacity, this cannot be the case for existing policies but should be implemented in future. This 3rd Edition places emphasis on:

- The vital need for the development of a sound environment framework and policy for **the dti** to provide the context and direction ensuring that the EIP is aligned to national frameworks (notably the National Framework for Sustainable Development)
- The need to ensure that **dti** policy complies with legislative and requirements at the international, national, provincial and local levels (see Recommendations contained in Section 7)
- Most of **the dti**'s line function divisions are to a greater or lesser degree involved in policy formulation. No formally established system is in place to ensure that **the dti** policies will not carry unacceptable environmental risk, and thus pose potential environmental impacts. As identified in the 2nd Edition EIP, this results in uncertainty around appropriate measures that should be in place in order to avoid and mitigate potential environmental impacts resulting from **the dti** policies.
- The EIP as the key means for identifying impacts and setting environmental objectives, timelines and indicators. Based on review of the potential significant environmental impacts associated with **the dti**'s policies, programmes and projects, **the dti** proposes to implement the environmental objectives as outlined in the Tables 3-1 to 3-7 of this EIP. The Tables identify how the programmes and sub-programmes of **the dti** comply with the NEMA principles, Section 146(2)(b)(i) of the Constitution along with the objectives, timeframes and indicators (a quantitative or qualitative measurement of the implementation of the objective) for ensuring that these will be achieved. The objectives have been grouped according to **the dti**'s divisions

- Where **the dti**'s policies clearly have a major influence on the mandates of DEA and the nine provincial environmental authorities, **the dti** will continue, as it has done before, to consult with these authorities through the Committee for Environmental Coordination.

2. Co-operative governance

Cooperative governance is very important for establishing roles, responsibilities for activities which have a bearing on environmental programmes. It applies to both the public sector, as well as to public/ private partnerships and civil society. Requirements for cooperative governance include:

- Compliance with the NIPF which identifies that insufficient coordination around industrial initiatives amongst and between the three tiers of government, as well as uneven development and roll-out of high-quality industrial policy interventions has hampered implementation. It can also be argued that this is applicable to the development and implementation of environmental policy in **the dti**.
- Alignment with the EIPs of other departments, as well as provinces, necessary for ensuring cooperative governance.
- Identification of gaps on governance structures and ensuring that these are filled effectively and speedily.
- Alignment at the department (institutional) level to ensure mainstreaming and follow-through of environmental policy and objectives.
- Adherence to the King III Report on corporate governance in order to ensure compliance for sustainability reporting and responsible corporate governance throughout **the dti**.
- The NIPF identifies that intensive coordination across a range of government departments is necessary for promotion of trade and industry, in particular through the government's EIEC. The EIEC plays an important role with regard to coordination in relation to sector-specific policies and projects. Cooperation is further required for:
 - A strong and supportive macro economic and regulatory environment

- Development of skills education systems which are increasingly integrated with the needs of the industrial economy.
- Sufficient, reliable and competitively priced traditional and modern infrastructure.
- Adequate support for various forms of technological investment within the economy.
- Industrial growth and development strategies have been developed and implemented at the sub-national, provinces and in certain areas, as the local level. Provinces and metros (where applicable) need to be involved in industrial policy research and development processes, so as to ensure geographic spread of finance and non-financial services. Means of improving coordination within **the dti**, as identified in the NIPF, include the drawing in of sectoral capacity from COTI and the Industrial development Corporation (IDC), universities and research organizations, drawing on international expertise. This is also relevant to the building of the environmental sustainability component of trade and industry development. Synergies to maximize roll-out of environmentally sustainable innovation and technology, financing mechanisms as well as staff development need to be maximized.

3. Manner in which policies, plans and programmes will exercise integrated environmental management

IEM is an approach which sets out to balance development and the environment, and to ensure that the consequences of proposed development proposals are understood and appropriately considered. The DEA has published a set of guidelines on IEM in order to ensure that the environment is considered in all stages for the full life cycle (from 'cradle to grave') of a project, programme or policy. IEM is further written into NEMA, and as such has legal status. It further sets out to avoid or minimize negative environmental impacts and to enhance project benefits. The principles underpinning IEM will be carried out as follows:

- Proactive planning through processes such as the review of objectives contained in the EIP, and ensuring the alignment of, and coordination on sustainable development and trade in Africa.
- Informed decision-making through use of IEM tools and consultation with key stakeholders, including other government departments, and through such processes such as strategic environmental assessment used to inform identification and planning of SDIs.
- A participatory approach involving IAPs in the application of IEM tools.

- Accountability for decisions and the information upon which these are based. Practices such as the incorporation of environmental outputs in the service level agreements of senior management will enhance accountability for environmental decision-making. Careful documentation of processes including EIAs will further enhance accountability for decisions.

It is identified in the recommendations contained in Section 7 of this EIP that consideration should be given to the development of an Environmental Decision Support System in line with that developed as part of the IEM series produced by Department of Water Affairs. This will ensure a coherent and consistent application of IEM principles in the work of **the dti**. An outline of the tools including EIA, which can be applied to the practice of the IEM are outlined in Section 6 below. Recommendations are provided in Section 7 to further enhance and mainstream IEM and the application of sustainable technologies and practices within **the dti** and through the work of its agencies.