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080520 SCLAND

STRATEGIC OVERVIEW

Programme 2: Water Resources Management:

1.) National Water Resources Infrastructure

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Mission

National Water Resources Infrastructure (NWRI) Branch:

- *solicit or source funding to develop, operate and maintain, national water resources infrastructure (by strategically managing risks and assets)*

Augmentation of water trading account provides for:

- design, construction and commissioning of new water resources infrastructure; and
- Rehabilitation of existing infrastructure to ensure safety and functionality of departmental dams and related structures

ASGISA and the Medium Term Strategic Objectives:

supply of water is critical input into the economy

- beneficiary communities participate in planning, implementation and management of new infrastructure
- opportunities for BBBEE and SMMEs.
- social and environmental responsibilities for infrastructure development is based on social justice and community beneficiation;
- establishment and monitoring of PPP's (public-private-partnerships) for utilizing tourism and recreational opportunities

NEPAD: ensuring inter-basin transfers and compliance with SADC objectives

General Achievements

General achievements include:

- Establishment of the NWRIB
 - separate Policy and Regulatory functions from the Implementation and Management of Water Resources Infrastructure.
- Study on the Institutional Options towards a Business Case for establishment of proposed NWRI Agency.
- Cabinet approval for establishment of Agency
 - the drafting of South African National Water Resources Infrastructure Agency Limited Bill and appointment of a Project Manager.
- Implementation of the Berg Water Project to stimulate economic growth (*on time and within budget of R1553m*)
- Vaal River Eastern Sub-system Augmentation Project (VRESAP) to augment water supply to strategic industries Eskom and SASOL (*completion one year later than originally planned at a cost of R2 700million*).
- Adoption of a Socio-Economic Development Charter for promoting BBBEE objectives
- Enterprise Risk Management System commenced in 2007
- Dam Safety Rehabilitation Programme originally estimated to cost R1 250 million over 5 years was initiated in 2005/06 for DWAF owned dams
- Studies for business and recreational opportunities, including PPPS
- Opportunities for the development of small hydropower plants at existing dams were reviewed (done through co-operative arrangements with DME).
- Improved Infrastructure Asset Management Practice
 - *High value, high criticality infrastructure – potential economic, financial, safety, environmental and social impacts*
 - *Best international practice - more systematic, holistic, consistent, integrated and sustainable approach*
 - *Compliance (eg PFMA and GIAMA)*
 - *Inputs to Tariff Setting*

List of water resources infrastructure completed by 2007

Name	Value	Capacity	Use	Area (Local Municipality)
Nandoni Dam	R574 m	164 million m ³	Domestic water supply	Thulamela
Damani Dam	R14,6m		Domestic water supply	Thulamela
Raising of Flag Boshielo Dam	R197,7m	74 million m ³	Domestic, industrial and irrigation	Greater Marble Hall
De Hoop Dam	R1926,6m	347 million m ³	Domestic and irrigation	Thubatse
Dzanani Weir	R5,0m	N/A	Flood repair on irrigation abstraction weir	Thulamela
Raliphatswa Weir	R4,0m	N/A	Flood repair on abstraction weir	Thulamela

List of water resources infrastructure completed by 2007

Name	Value	Capacity	Use	Area (District Municipality)
Mooi-Mgeni Transfer Scheme Phase 1	R93,2 m	25million m ³ /a	To increase yield of the Mgeni System	Mpfona
Morgenstond-Jericho Emergency Pump station	R72,3m	3 m ³ /s	Double pumping capacity	Gert Sibande
Rehabilitation of Nieuwejaarspruit downstream of Sterkfontein Dam	R13,4m	N/A	Inhibit erosion	Thabo Mofupsanyane
DSRP Bulshoek	R12,4m	N/A	To stabilize foundations	Sederberg
Lower Olifants River Balancing Dam for LORWUA (Ebenaezer Dam)	R5,7m	140 000m ³	Domestic and irrigation	Weskus
Berg River Dam Access Road for TCTA	R24,2m	3.4km	Berg River Dam Access Road	Stellenbosch
Construction of La Motte for TCTA	R18,5m	80 stands	Construction village	Stellenbosch
Berg Water Project Supplement Scheme for TCTA	R263,1m	4 m ³ /s	To supplement water to the Berg River Dam	Drakenstein / Stellenboch
Shilo Irrigation Scheme	R23,3m	1175 m ³ /h pump capacity	Domestic and irrigation	Chris Hani

List of water resources infrastructure completed by 2007

Name	Value	Capacity	Use	Area (Local Municipality)
Didide & Tswinga Bridges	R14,8m	N/A	Part of Nandoni Dam relocation	Thulamela
Mulate Weir	R23,9m	1 million m ³	Domestic abstraction	Mutale
DSRP Tapane Dam	R16,7m	1,4 million m ³	Domestic supply	Tzaneen
Flood Damage Repair Work on Weirs	R137m	N/A	Gauging weirs	Limpopo, Mpumalanga, North West Provinces
Xikundu Weir and Bulk Distribution	R315m	20 mega liters/ per day	Domestic supply	Thulamela
DSRP Glen Alpine Dam	R2,4	21 million m ³	Domestic abstraction	Blouberg

List of water resources infrastructure completed by 2007

Name	Value	Capacity	Use	Area (Local Municipality)
Hoxane Water Treatment Wokrs	R19,5m	8 mega liters/ per day	Domestic abstraction	Bushbuckridge
Wilge Weir	R1,8m	N/A	Gauging structure	Elias Motsaledi
Inyaka Pumpstation	R21,8m	50 mega liter/ per day	Domestic abstraction	Bushbuckridge
Hluhluwe Phase 2	R117,9m	8 mega liters/ per day	Rural water supply	Umkanyakude District Municipality

List of water resources infrastructure completed by 2007

Name	Value	Capacity	Use	Area (Local Municipality)
Lambani Pipe Line	R10,2m	N/A	Domestic water supply	Thulamela
Orjanjedraai Hydro Weir	R18,7m	N/A	Gauging structure	Zastron
Malamulele Water Treatment Works Refurbishment	R10,3m	5 mega liters/ per day	Water treatment plant	Thulamela
Flag Boshielo – Sekhukhune irrigation Scheme Pipe Line	R51,5m	N/A	Supply of irrigation water	Marble Hall
DSRP Klipdrif Dam	R18,4m	N/A	Supply of irrigation water	Potchefstroom
Inyaka Phase 1B	R71,0m	25 mega liters/ per day	Domestic water supply	Etlazeni

OUTPUTS FOR 2008/09 (1)

Agency Establishment and Legislation in place

- Bill tabled and debated in Parliament
- Act Promulgated

Implementation of the Infrastructure Programme

- Nandoni Water Treatment Works
- VRESAP project
- De Hoop –construction of dam access progressed to 38% completion
- Inyaka Treatment Works – 65% complete
- Hluhluwe Regional Water Scheme – 61%
- Nandoni Bulk Distribution – 54%

OUTPUTS FOR 2008/09 (2)

Operation and maintenance of existing infrastructure

- Bulk Water Supply Agreements in place
- Bulk Water delivery performance to all major water users (ESKOM, SASOL, Agriculture, Municipalities)
- Bulk Water Volume Agreed to all major water users (ESKOM, SASOL, Agriculture, Municipalities)

Rehabilitation and Refurbishment of Dams

- Improved dam safety – 10 dams