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**DEPARTMENT OF ENERGY  
DEPARTEMENT VAN ENERGIË**

No. 25

29 January 2010

## ELECTRICITY REGULATION ACT, 2006

DETERMINATION REGARDING THE INTEGRATED RESOURCE PLAN AND  
NEW GENERATION CAPACITY

I, Dipuo Peters, Minister of Energy hereby approve the attached Integrated Resource Plan (IRP1 in **Schedule A**) for implementation as per the requirement of the electricity regulations on new generation capacity (Regulation No. 9116, dated 05 August 2009). The attached IRP also takes into account energy efficiency and demand side management projects.

In line with the IRP, I hereby determine that new generation capacity is required in accordance with Section 34 of the Electricity Regulation Act (Act No. 4 of 2006). The required new generation capacity must be met through the projects listed in the IRP. In respect of energy efficiency, demand side management and renewable energy, **Schedule B** outlines the framework for implementation of such projects.



Ms. Dipuo Peters  
MINISTER OF ENERGY

DATE: 16/12/2009

## Schedule A

### Integrated Resource Plan (IRP 1)

The IRP 1 gives effect to the following policy objectives:

- (i) 10 000 Gwh (approximately 4% of the energy mix) of renewable energy by 2013;
- (ii) The implementation of Energy Efficiency and Demand Side Management through a financial incentive scheme (the standard offer); and
- (iii) Installation of one million solar water heaters.

In respect of (i), this will be met by licensing the projects in IRP 1 below under the "MTPP", "REFIT" and "Sere and CSP" programmes.

In respect of (ii) and (iii), this will be met through the standard offer programme ("Demand Side Management programmes" in IRP 1) in accordance with the implementation rules developed by the National Energy Regulator of South Africa.

In addition, projects in IRP 1 below ("Current Programmes") that predate the electricity regulations on new generation capacity may be licensed.

Projects listed in IRP 1 must comply with the codes and rules prescribed by the National Energy Regulator of South Africa.

### IRP 1

	Current Programmes									Total	Total System Capacity	Peak Demand (net sent-out) forecast	Demand Side Management programmes	Net peak demand forecast (after DSM)	Annual energy (net sent-out) forecast	Demand side management programmes	Annual Energy (net sent-out) forecast
	RTS Capacity	Medupi	Kusile	Igula	DoE OCGT IPP	MTPPP, REFIT	Sere, CSP	Other capacity and decommissioning	MW								
	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	GWh	GWh	GWh
2009	772	0	0	0	0	0	0	0	772	44157	37845	432	37413	248,517	428	248,089	
2010	683	0	0	0	0	343	150	30	1206	45393	39432	923	38509	258,705	1,864	256,840	
2011	404	0	0	0	1020	518	0	55	1997	47360	40914	1343	39571	267,771	3,453	264,840	
2012	0	738	0	0	0	284	0	0	1022	48382	42373	2118	40255	276,705	6,561	270,145	
2013	0	738	723	666	0	300	0	0	2427	50809	44238	3056	41182	288,086	10,642	277,444	

The Department will initiate a process of reviewing this IRP to allow for consultation with stakeholders. The process of developing IRP 2 will commence in January 2010.

**Schedule B**

<b>Project</b>	<b>Initiatives</b>	<b>Time frame</b>
Demand Management Programmes	Side Installation of 1 million solar water heaters in selected areas and in accordance with the Solar Water Heating Framework.	To commence on 1 March 2010
	Implementation of the Standard Offer Framework to provide incentives for demand side management and energy efficiency projects initiated by various developers.	To commence on 1 March 2010
New generation capacity based on the REFIT programme (Construction of new generation plants based on renewable energy technologies)	REFIT programme in respect of the following technologies for which NERSA shall determined the tariffs: (i) concentrated solar (ii) solar photovoltaic (iii) wind (iv) landfill gas (v) solid biomass (vi) small hydro.	To commence on 1 March 2010
New generation capacity base on the IPP Bid programme	Note that a determination in respect of other new generation capacity initiatives will be done in due course.	

**WITHDRAWAL**

Note: The Department of Energy withdraws notice number 1243 of 2009, (Gazette number 32837) promulgated in the Government Gazette on the 31 of December 2009.