

Energy Efficiency Financing Policy:

AUTAZAS ABSESSION

South Africa's Standard Offer Scheme

Country Energy Policies

7 December 2011

Research has been undertaken into the market potential for energy savings per technology

Technology	Resid	Comm	Indus	Total
Efficient Lighting	939	115	116	1,170
Solar Water Heating	3,713			3,713
Domestic Cooking Conversion	2,144			2,144
Infra red heating	766			766
Heat Pumps	960	224	569	1,753
Showerheads & Restrictors	240	160		400
Load Management		9	200	209
Heating, Ventilation & (HVAC)		14	70	84
Agricultural Initiatives		144		144
Efficient Compressed Air			1,255	1,255
Motor Efficiency			408	408
Variable Speed Drivers			417	417
Fan / Pumps			530	530
TOTAL	8,762	666	3,565	12,933

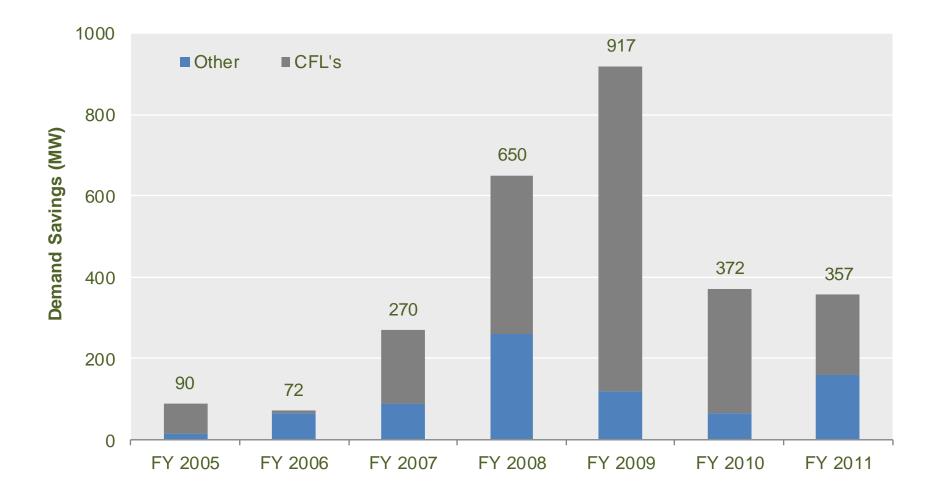
- The market's total potential is the estimated maximum amount of demand savings that can be achieved in each technology class.
- The market potential was estimated in a recent research study conducted by EEDSM.
- In setting targets, the market penetration in any of the technology classes did not exceed 50% of the research finding's maximum market potential.
- The above conservative target settings approach allows for market estimation accuracy, customer own projects and supply chain constraints.

(≹) €skom

• As part of the MYPD2, NERSA approved a total of R 5,445m for Energy Efficiency and DSM. *"These funds will be applied for project implementation and administrative costs for DSM, energy efficiency and demand-reduction programmes, including a portion of the solar water heating (SWH) initiated by the Department of Energy (DoE)."*

	Demand Savings (MW)					
	Current Year					
	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Eskom EEDSM	301	313	459	502	656	2231
MYPD2 NERSA Approved	289	301	447			1037
IRP2	252	242	315	501	656	1966

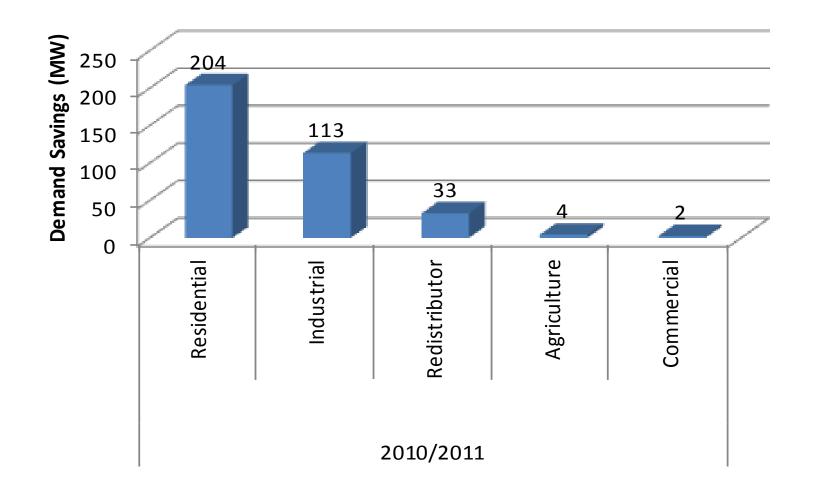
Demand Savings (MW) Claimed Since Inception Of IDM Programme



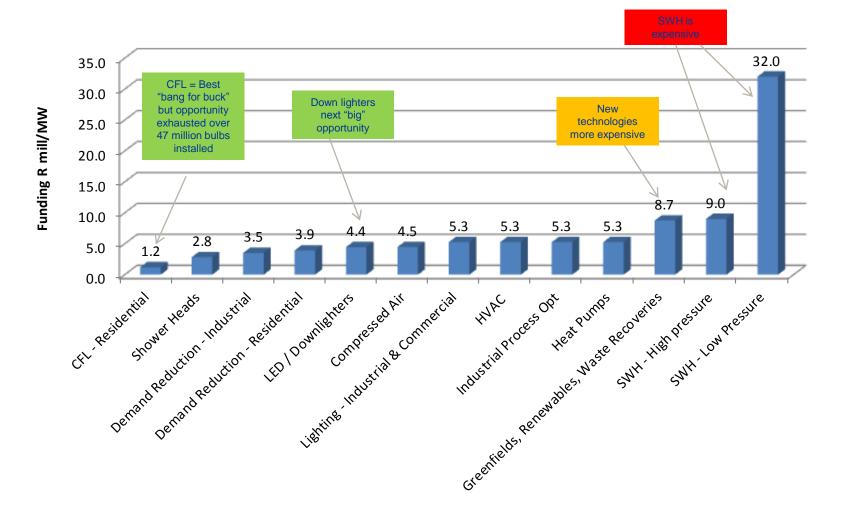
Lets change this picture....



Demand Savings = 355 MW



Funding Of Technologies – R mill/MW



The IDM energy savings target for 2011/12 could power a city for a year



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Gigawatt hours

either of

Buffalo City

(1,305 GWh consumed during 2006)

Mangaung (1,397 GWh consumed during 2006)

for ~1 year

or

Sol Plaatjie

(514 GWh consumed during 2006)

for 21/2 years

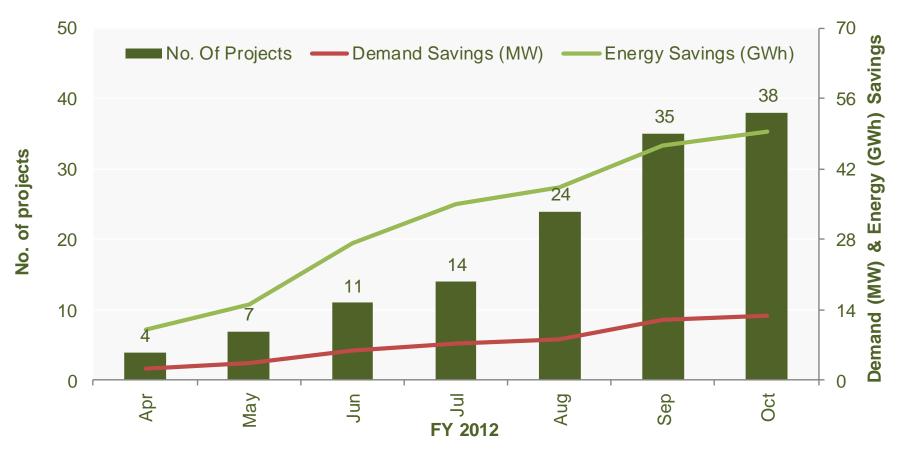


Source: Annual electricity consumption/sales as reported in the State of Cities 2006, City Energy Support Unit, Sustainable Energy Africa, 2006

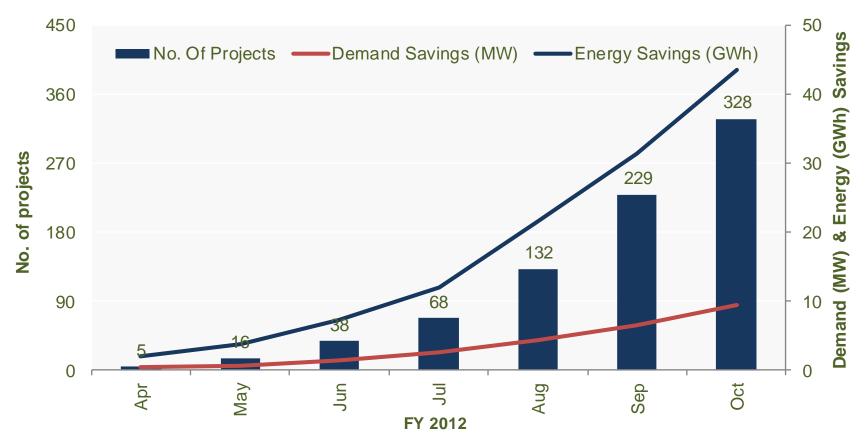
Current Funding Mechanisms and Inititatives



	ESCo Process	Rebates	Mass Roll- out	Standard Offer	Standard Product	Performance Contracting
Size	Projects > 1MW	Individual Products	Large Scale Roll- outs	50kW <project<5mw< th=""><th>Projects <100kW</th><th>Substantially larger than ESCo process >5MW</th></project<5mw<>	Projects <100kW	Substantially larger than ESCo process >5MW
Eskom Payment Value	Based on individual project calculation	Value per product based on savings potential	In line with MYPD benchmarks, with discretion	Standard value per kWh saved per technology. Focus on daytime hrs 6am – 10pm weekdays.	Standard value per item calculated based on savings potential	Competitive bidding process. Contract over 3 yrs.
Funding	Customer and Eskom (up to NERSA benchmark)	Customer and Eskom (up to NERSA benchmark)	Eskom or DoE	Market price per technology (up to 85% of NERSA benchmark)	Market price per technology (up to NERSA benchmark)	Customer and Eskom (up to NERSA benchmark)
Payment	Progress payments to ESCo's	Rebate claimed by consumer		70% on implementation, 10% pa based on M&V	100% on installation, based on M&V	Progress payments with retainer at a rate of 55c/kWh peak hrs.
Investment Decision	Individual IC approval	Once-off IC approval per technology	Individual IC approval	Bulk IC approval per technology	Bulk IC approval per technology	Bulk approval of individual projects
Procurement Decision	Price evaluation based on submitted approval	Rebate administration outsourced	Individual tender processes	Streamline individual project approvals Possibly no requirements if outsourced	Streamline individual project approvals Possibly no requirements if outsourced	RFI Tender



FY 2012 = 38 projects registered with a demand savings = 12.8MW Since inception (July 2010) - 52 projects registered with a demand savings of 16.4MW



FY 2012 - 328 projects registered with a demand savings = 9.4MW Since inception (Jan 2011) - 362 projects registered with a demand savings of 11.7MW



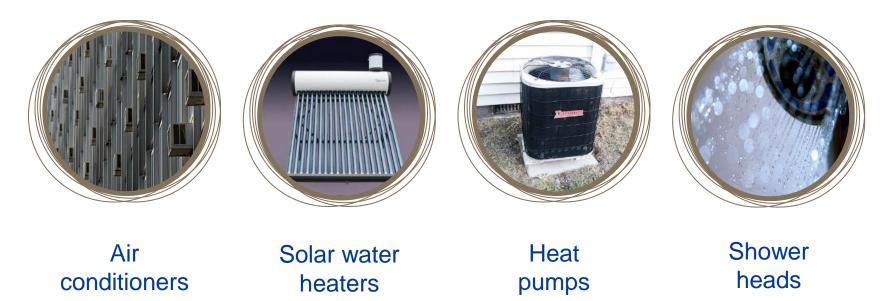
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Standard Products

We started with lighting



Extension of standard product offer to include:





For Industrial and large commercial customers

For projects that save more than 5MW

Pays 55c/kWh during 'peak' (06:00 – 22:00) Pays 10c/kWh off peak and weekends

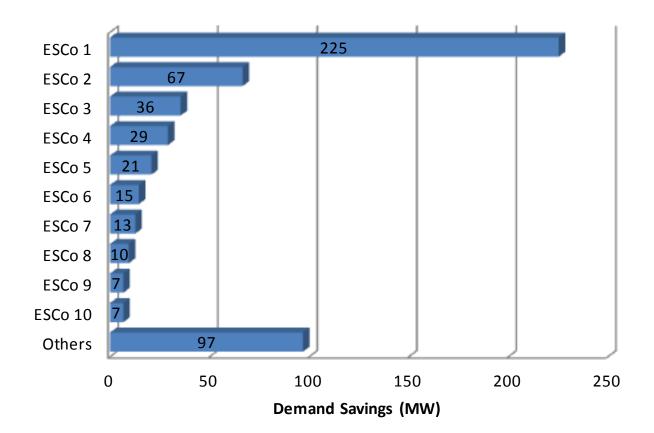


Published rate and invitation to tender

Contracts to value of R 750m awarded

Breakdown Of ESCOs In Industrial Sector

- Numerous ESCOs participate in the IDM programme
- To date the top 5 ESCOs have delivered 72% of the demand savings achieved

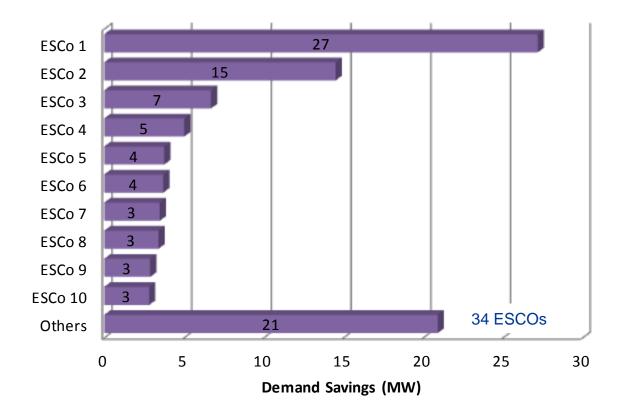


Breakdown Of ESCOs In Commercial Sector

 Many smaller ESCOs (44) participate in the IDM programme in the Commercial Sector

Eskom

• To date the top 5 ESCOs have delivered 61% of the demand savings achieved





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Thank you