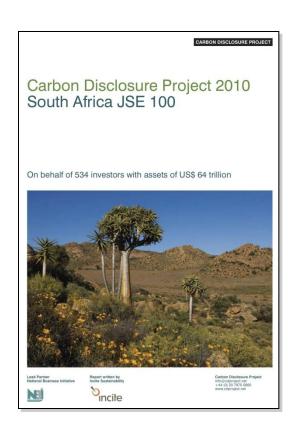
Lessons from the CDP for Treasury's policy process

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What role for the CDP (if any) in informing the policy process?

Carbon Disclosure Project 2010

534 financial institutions with assets of over US\$ 64 trillion were signatories to the CDP 2010 information request dated February 1st, 2010, including:

CDP Mission Statement

To collect and distribute high quality information that motivates investors, corporations and governments to take action to prevent dangerous climate change.







Reference to the CDP in the Treasury Document

The Carbon Disclosure Project is a voluntary international initiative that companies can participate in by submitting annual reports on their emissions profile. South Africa's first Carbon Disclosure Project report generated a high response rate from the top JSE-listed companies. Table 8 below shows that South Africa's carbon emissions are dominated by a few large players: Sasol, BHP Billiton and Anglo American, which are listed companies, and Eskom, a non-listed company. The Carbon Disclosure Project can play an important role in providing baseline company data on measured GHG emissions that should ideally feed into a future compulsory measuring, reporting and verification system, to be administered by the Department of Environmental Affairs in terms of the National Environmental Management: Air Quality Act (2004).





Reference to the CDP in the Treasury Document

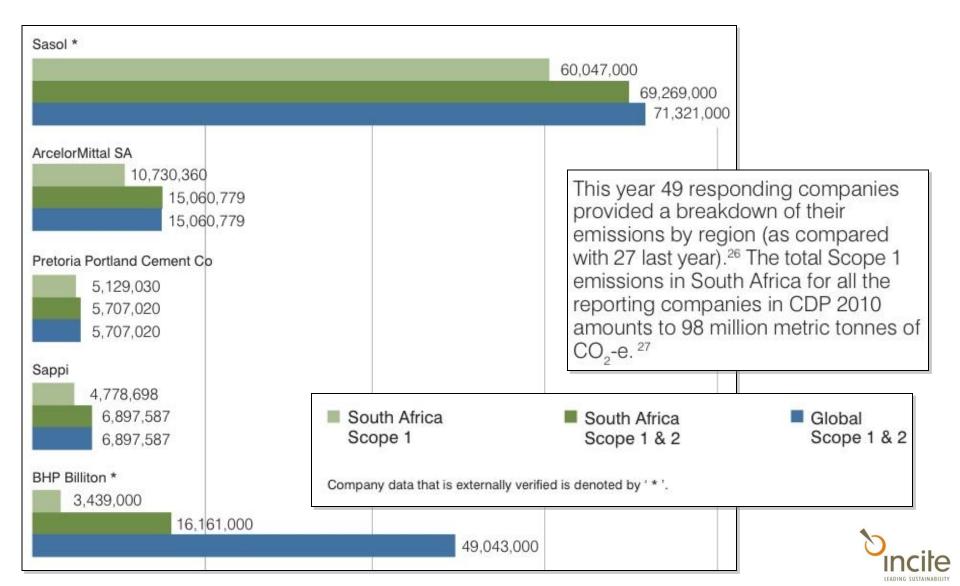
Table 7:South Africa: firm-disclosed carbon emissions estimates based on *Carbon Disclosure Projec* Report³⁰(2010)

Company	Scope1 tCO₂e	Scope2 tCO₂e
ESKOM	224,700,000	0
Sasol	61,678,000	9,553,000
BHP Billiton	21,355,000	27,688,000
ArcelorMittal SA	10,730,360	4,330,419
Anglo American	8,850,000	10,252,000
Pretoria Portland Cement Company	5,129,030	577,990
Sappi	4,778,698	2,118,889
Mondi	4,420,810	1,447,991
SAB Muller	1,449,442	1,182,614
Gold Fields	1,308,764	5,093,511
AngloGold Ashanti	1,183,000	3,489,000
Tongaat Hulett	787,711	309,388
Imperial Holdings	758,011	156,468
Impala Platinum Holdings	693,145	2,930,324





A few companies continue to dominate Scope 1 SA emissions



South African emissions

(Top 15 publicly responding companies – ranked by Scope 1&2)

Company Name	SA Scope 1 (t CO2-e)	SA Scope 2 (t CO2-e)	SA total (t CO2-e) (Scope 1 &Scope 2)
Sasol	60,047,000	9,222,000	69,269,000
BHP Billiton	3,439,000	12,722,000	16,161,000
Arcelor Mittal South Africa	10,730,360	4,330,419	15,060,779
Anglo American	3,051,000	7,763,000	10,814,000
Sappi	4,778,698	2,118,889	6,897,587
Gold Fields	966,728	4,886,693	5,853,421
Pretoria Portland Cement Co	5,129,030	577,990	5,707,020
Anglo Platinum	427,290	5,152,793	5,580,083
Harmony Gold Mining Co	28,117	3,444,406	3,472,523
AngloGold Ashanti	115,000	3,320,000	3,435,000
Impala Platinum Holdings	642,107	2,736,833	3,378,940
Exxaro Resources	537,385	2,192,666	2,730,051
African Rainbow Minerals	647,720	1,735,289	2,383,009
Mondi Group	1,074,439	1,118,825	2,193,264
Lonmin	81,277	1,488,755	1,570,032

^{**}Light yellow = emissions have been verified



South African emissions

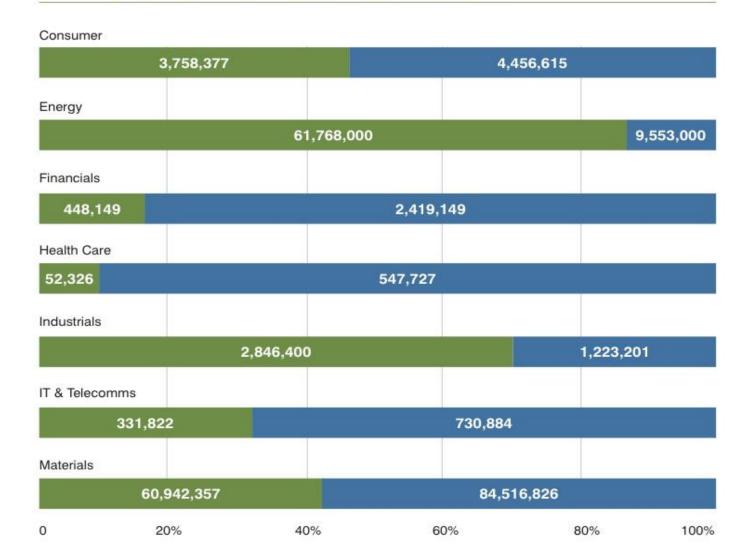
(Top 15 publicly responding companies – ranked by Scope 1)

Company Name	SA Scope 1 (t CO2-e)	SA Scope 2 (t CO2-e)	SA total (t CO2-e) (Scope 1 &Scope 2)
Sasol	60,047,000	9,222,000	69,269,000
Arcelor Mittal South Africa	10,730,360	4,330,419	15,060,779
Pretoria Portland Cement Co	5,129,030	577,990	5,707,020
Sappi	4,778,698	2,118,889	6,897,587
BHP Billiton	3,439,000	12,722,000	16,161,000
Anglo American	3,051,000	7,763,000	10,814,000
Mondi Group	1,074,439	1,118,825	2,193,264
Gold Fields	966,728	4,886,693	5,853,421
Group Five	799,393	185,462	984,855
Imperial Holdings	758,011	156,468	914,479
Tongaat Hulett	686,108	276,044	962,152
African Rainbow Minerals	647,720	1,735,289	2,383,009
Impala Platinum Holdings	642,107	2,736,833	3,378,940
Exxaro Resources	537,385	2,192,666	2,730,051
Tiger Brands	468,678	268,347	737,025

^{**}Light yellow = emissions have been verified



Fig. 8: Contribution of Scope 1 & 2 emissions to total emissions in each sector (absolute emissions and percentage)







Data provided on energy consumption

Table 10: Examples of total reported energy consumption

A: Companies with data for 2009 and 2010	2009 (MWh)	2010 (MWh)	Change
Consumer	10,443,130	3,812,910	- 6,630,220
Nampak	573,025	488,972	-84,053
New Clicks Holdings	100,788	94,467	-6,321
Pick n Pay Holdings	613,000	569,192	-43,808
Rainbow Chicken	300,975	311,714	10,739
SABMiller	7,297,948	1,532,271	-5,765,677
Tongaat Hulett	1,209,747	424,018	-785,729
Truworths International	46,782	72,836	26,054
Woolworths Holdings	300,865	319,440	18,575
Energy	8,823,669	9,417,000	593,331
Sasol	8,823,669	9,417,000	593,331





Improvements in emissions intensity reporting

Table 9: Examples of reported GHG per square metre of floor or trading space

Sector	Company	t CO ₂ -e per m ² floor space	
Consumer	Truworths International	0.34	
	Massmart Holdings	0.26	
	New Clicks Holdings	0.23	
	Pick n Pay Holdings	0.42	
	Woolworths Holdings	0.67	
Financials	Capital Shopping Centres	0.04	
	Remgro	0.44	
	Liberty Holdings	0.38	
	Discovery Holdings *	0.63	
	Nedbank	0.32	
Health Care	Adcock Ingram	0.40	
	Medi-Clinic Corporation	0.29	
Materials	Nampak 0.51		

^{*} Discovery Holdings suggests that these figures may not be relevant for the following reasons: electricity consumption figures may not be accurate, and Discovery operations include a 24 hour call centre, and therefore hours of operations may be significantly longer when benchmarking on a per meter squared basis alone.





Improvements in emissions intensity reporting

Table 6: Examples of reported GHG per ounce of gold or PGM

Sector	Company	t CO ₂ -e per ounce gold or PGM
Materials - PGM	Northam Platinum	2.13
	Lonmin	2.30
	Impala Platinum	2.13
	Anglo Platinum	1.17





It is essential to consider the qualifying remarks before relying on the data

Sector / Company	A selection of Exclusions and Qualifying Remarks	
Financials		
Growthpoint Properties	Scope 1 & 2: Excludes mobile fuels, stationary fuels, refrigerants, electricity in satellite offices and common area, and HVAC refrigerants from other buildings (only three regional offices included).	
Nedbank	Scope 1 & 2: Excludes offshore operations. Scope 2: Excludes ATM (automated teller machines), SST (self Service terminals) and POS (point of sale) devices (no reliable data for electricity consumption); Excludes Bancassurance and Wealth Financial Advisors; Excludes approximately 100 units of Pick n-Pay instore Nedbank outlets (separate electricity meters are not installed).	
Standard Bank Group	Scope 1 & 2: Excludes branches (information not readily available). Scope 1 excludes: Combustion of fuel boilers or furnaces (no equipment)	
Santam	Scope 1 & 2: Excludes everything except the head office; Namibia also excluded (considered immaterial, data not available).	
Materials		
Exxaro Resources	Scope 1: Excludes coal discard dumps (in process of assessing, especially Grootgeluk due to size).	
Gold Fields	Scope 1: Excludes mine methane at all operations except Beatrix (small, variable, difficult to obtain).	
Kumba Iron Ore	Scope 1 & 2: Excludes head office (electricity used and business travel at head office considered immaterial); Scope 1 & 2: Excludes Kolomela Mine (new mine).	

Many companies are still battling to report reliable data

- Many companies report that changes in their year-on-year emissions are a primary result of changes in accounting practices or are a function of historic calculation errors, resulting in either over-estimation or under-estimation of previous data.
- Some examples:

Remgro's reported emissions have decreased significantly (by 81%) as last year there was the "incorrect inclusion of emissions from the burning of bagasee for the generation of renewable electricity." They have restated last year's figures, and suggest that this year's data is an accurate reflection.

Murray and Roberts revised last year's emissions calculation downwards by 34%, following methodological corrections; the restated figures are now more comparable to their 2010 figures (given the boundary increases).

The Bidvest Group report a 21.8 % increase in emissions and only a 2% increase in turnover: "The increase in reported emissions is as a result of more accurate data due to better measurement processes, more rigorous auditing and improved controls."





Testing the ambition of corporate targets – some examples

Material	s		
2014	2004	Scope 1 & 2	10% reduction per unit of production from baseline. (4,869,000 t CO ₂ -e reported in base year).
	2007	Scope 1 & 2	30% reduction of $\rm CO_2$ -e per ounce of gold produced in the medium to long term.
2020	2007	Scope 1, 2 & 3	8% reduction from base year. (16,330,621 t CO ₂ -e reported in base year).
2012	2006	Scope 1 & 2	6% reduction from base year in tonnes of GHG emissions per unit of product. (100 t CO ₂ -e reported in base year).

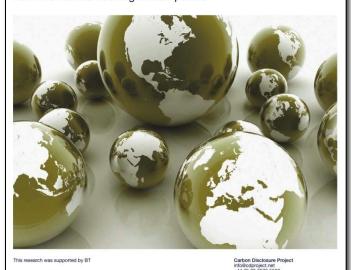
Financia	Financials				
2011	2008	Scope 1, 2 & 3	A reduction of the average of the metric tonnes of CO ₂ -e per capita per permanent employee equivalent to 8.6 metric tonnes in target year.		
2020	2008	Scope 1, 2 & 3	A reduction of the average of the metric tonnes of CO_2 -e per permanent employee equivalent to 5.7 t by target year. Baseline average = 10.1 t.		
2015	2007	Scope 1, 2 & 3	12% reduction per full-time employee equivalent (FTE) relative to base year. 9 t CO2-e in base year.		
2015	2005	Scope 2	12% reduction per FTE relative to base year.		
2010	2007	Scope 3	10% reduction per FTE relative to base year. Target achieved.		

Utilising the CDP study effectively to inform the policy debate

CARBON DISCLOSURE PROJECT

Carbon Disclosure Project The Carbon Chasm

Based on Carbon Disclosure Project 2008 responses from the world's 100 largest companies



Current Global 100 targets will not achieve scientific requirements

Key Findings:

We are facing a Carbon Chasm – to cut emissions in developed economies by the required 80% by 2050, we need to see a minimum annual global reduction rate of 3.9% per annum. However, analysis of reduction targets from the Global 100 companies shows they are currently on track for an annual reduction of just 1.9% per annum. If we were all to continue on that trajectory we will not achieve the required reductions until 2089, 39 years too late. The consequences for the climate could be dramatic.



BT



A final thought

"Governments have to stop pretending that they can exhort people to make changes when the prices people pay tell them otherwise."

Simon Upton – OECD

"Setting proper prices for environmental resources will be one of the hardest political tasks in the coming century; a whole civilisation has grown up with bad 'genes' - wrong signals from the market about the proper way to value the environment."

The Economist





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