

# CDP SOUTH AFRICA 2016 HIGH LEVEL FINDINGS AND KEY MESSAGES



The ratification of the Paris Agreement is an extremely strong global economic decarbonisation signal

## THE PARIS AGREEMENT SETS LONG-TERM CLIMATE TARGETS FOR THE GLOBAL ECONOMY



- TEMPERATURE GOAL**  
To hold global warming below 2°C above pre-industrial levels while pursuing an ambitious 1.5°C\*
- FINANCIAL GOAL**  
To direct global finance flows (including private finance) towards low greenhouse gas and climate resilient investment\*
- RESILIENCE GOAL**  
To increase the resilience of communities and businesses to the impacts of climate change, understanding that emission reductions will lower the cost of future climate impacts\*

**AMBITION LEVEL:**  
Ratcheting mechanisms in the agreement guarantee progressive ambition

### INTERNATIONALLY, BUSINESS IS RESPONDING

As of September 2016, 1056 commitments have been made by international businesses through

### WE MEAN BUSINESS

- 184 companies committed to setting Science Based Targets
- 76 companies committed to putting a price on carbon
- 81 companies committed to 100% Renewable Energy
- 126 committed to engaging with policy makers on climate issues
- 188 report climate change information in mainstream reports

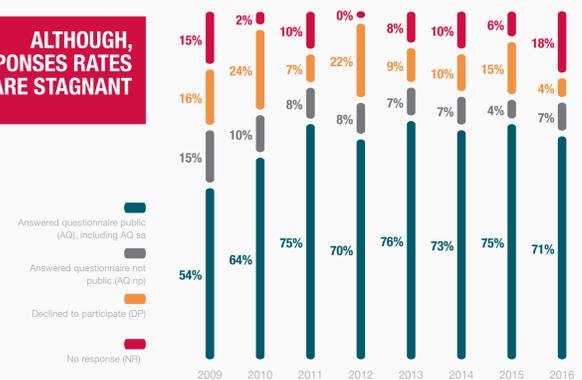
76% of all risks disclosed to CDP in 2016 are perceived to be medium-high impact and high likelihood. It is clear that South African companies need to act.

## SOUTH AFRICAN COMPANIES HAVE A STRONG HISTORY OF DISCLOSURE

| Response rates (%)    | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-----------------------|------|------|------|------|------|------|------|------|------|
| South Africa          | 58   | 69   | 74   | 83   | 78   | 83   | 80   | 79   | 78   |
| Australia             | 48   | 52   | 47   | 50   | 50   | 50   | 44   | 47   | 43   |
| Brazil                | 83   | 76   | 72   | 67   | 65   | 56   | 57   | 62   | 56   |
| China                 | 5    | 10   | 11   | 11   | 23   | 19   | 45   | 9    | 10   |
| India                 | 19   | 18   | 21   | 28   | 26   | 27   | 30   | 26   | 24   |
| United States S&P 500 | 64   | 66   | 70   | 68   | 69   | 68   | 69   | 67   | 67   |



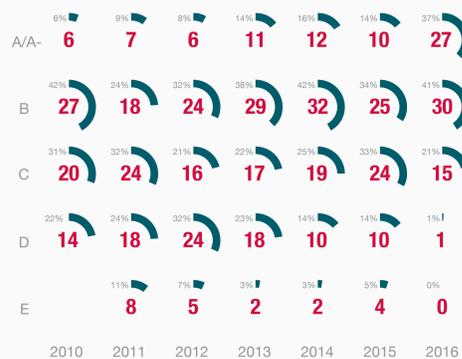
ALTHOUGH, RESPONSES RATES ARE STAGNANT



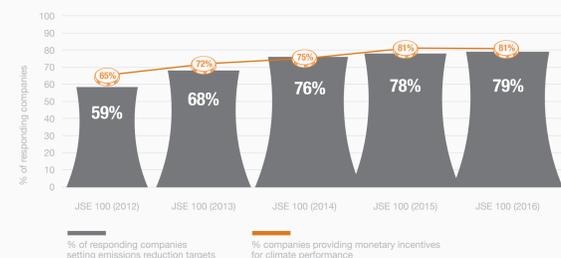
## JSE 100 PERFORMANCE SCORES HAVE MARKEDLY IMPROVED\*\*

South African companies are improving performance, and, in particular, strongly integrating climate change into governance

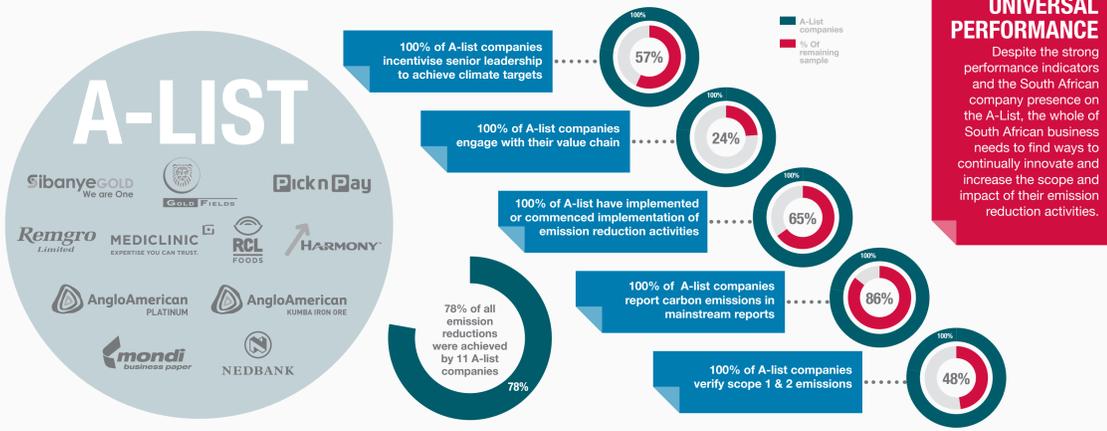
- 96% EMBED CLIMATE CHANGE INTO BUSINESS STRATEGY (2015: 95%)
- 96% OF ALL RESPONDING COMPANIES INTEGRATE CLIMATE CHANGE INTO BROADER RISK MANAGEMENT (2015: 95%)
- 99% OF SA COMPANIES HAVE BOARD-LEVEL OVERSIGHT FOR CLIMATE CHANGE (SAME AS 2015)
- 81% OF COMPANIES HAVE MONETARY INCENTIVES FOR CLIMATE PERFORMANCE (SAME AS 2015)



Governance and especially monetary incentives motivate companies to set targets and therefore take action



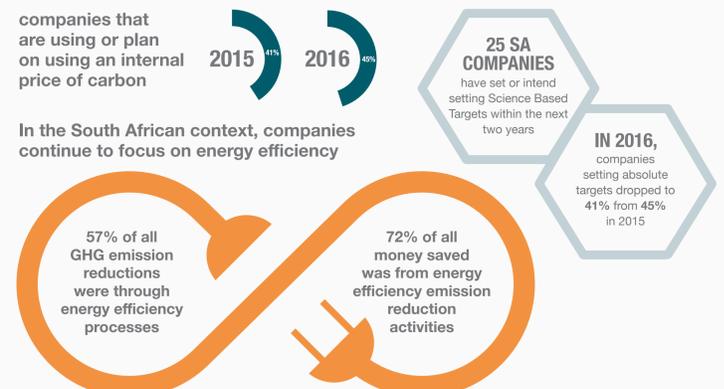
## THERE IS A RISK THAT LEADING COMPANIES PULL AHEAD OF THE PACK. PROGRESS IS NEEDED ON ALL FRONTS



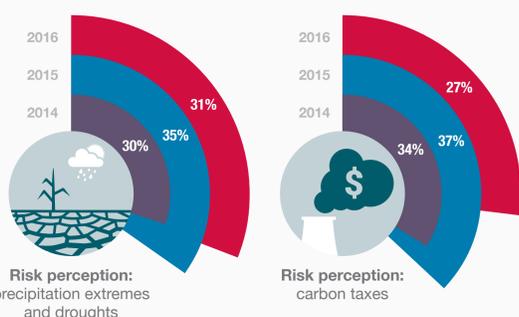
### UNIVERSAL PERFORMANCE

Despite the strong performance indicators and the South African company presence on the A-List, the whole of South African business needs to find ways to continually innovate and increase the scope and impact of their emission reduction activities.

## WHAT TRENDS DO WE SEE IN BUSINESS ACTION THAT WILL SUPPORT CONTINUAL IMPROVEMENT?



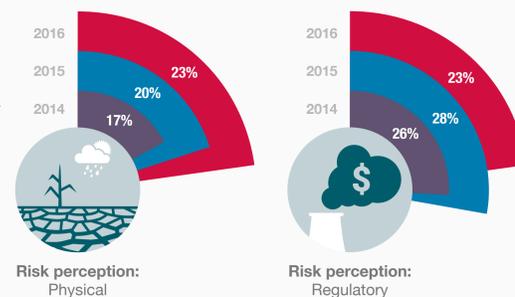
The percentage of companies reporting specific risk with a high likelihood to occur and high magnitude of impact



The predominate regulatory risk is the carbon tax, and the predominant physical risk is precipitation extremes and droughts. It is significant that a physical risk is the risk companies worry about most.

For the first time in 3 years companies are reporting an equal amount of high magnitude risks for both physical and regulatory risk. This upward trend in physical risk impact suggests a further focus on adaptation is required.

The percentage of companies reporting risks



The Paris Agreement was significant in its requirement for an equal focus on adaptation and mitigation, and this is reflected in South African risk perception data. Therefore action needs to equally focus on adaptation.

\*Wei, D.; Cameron, E.; Harris, S.; Pratico, E.; Scheerder, G.; and Zhou, J. (2016) The Paris Agreement: What it Means for Business; We Mean Business; New York.

\*\*More detail can be found in the executive summary. [www.nbi.org.za](http://www.nbi.org.za)

\*\*\*It is important to note that CDP's scoring methodology has changed since 2015 and comparisons should be treated with caution. <https://vimeo.com/162087170>

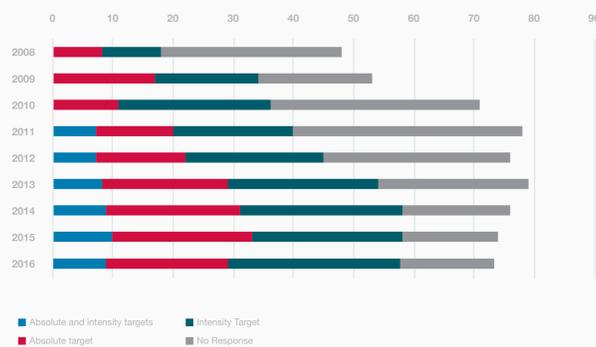
# CDP SOUTH AFRICA 2016 TARGETS AND PROGRESS



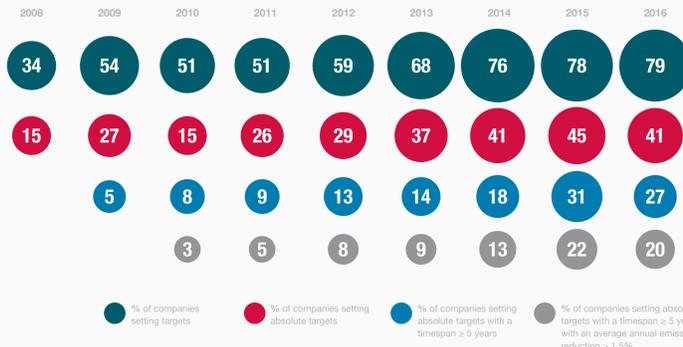
To meet the shared global goal of keeping temperatures below 2°C, SA needs to strengthen efforts to reduce emissions. There are real challenges in implementing more impactful emission reduction activities and in needing to align targets with science and with longer-term timelines

## SETTING TARGETS IS A KEY STEP IN TAKING ACTION

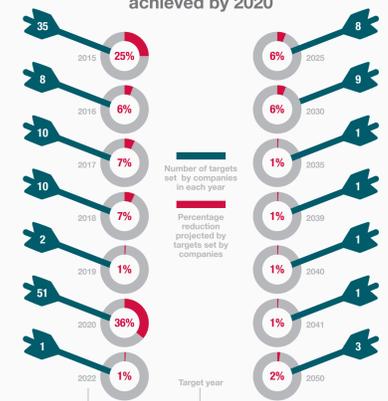
The number of companies with active targets in place



More companies need to set longer-term, more ambitious targets



82% of targets are set to be achieved by 2020



## RISKS AND OPPORTUNITIES AND THEIR FINANCIAL IMPACTS

Companies are still focused on quantifying the impact of risks and less so of opportunities

### RISKS AND THEIR FINANCIAL IMPACTS

**HIGH RANKING RISKS 2016**

- Change in precipitation extremes and droughts
- Carbon tax
- Reputation
- Change in precipitation pattern
- Change in mean (average) temperature

### OPPORTUNITIES AND THEIR FINANCIAL IMPACTS

**COMMONLY DISCLOSED OPPORTUNITIES:**

- Reputation
- Changing consumer behaviour
- Other driver
- Fuel/Energy taxes & regulation
- Change in precipitation extremes and drought

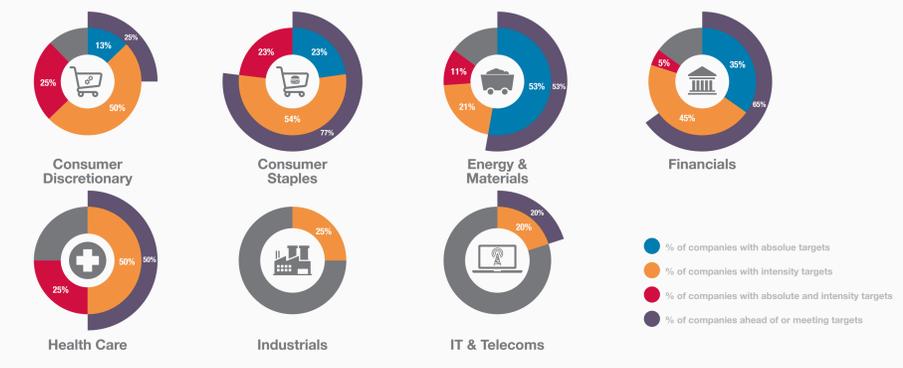
56% of companies quantified the potential financial impacts of climate change risks

- Carbon tax = R300 million (n=35) over a period ranging from 1 to over 6 years, making up 0.028% of 2016 tax revenues
- Reputation = R6.9 billion (n=19), calculated as a devaluation of the market capital over a period ranging from 1 to over 6 years
- Changes in precipitation extremes and droughts = R2 billion (n=18) calculated as production interruptions and/or increased insurance costs over a period ranging from 1 to over 6 years.

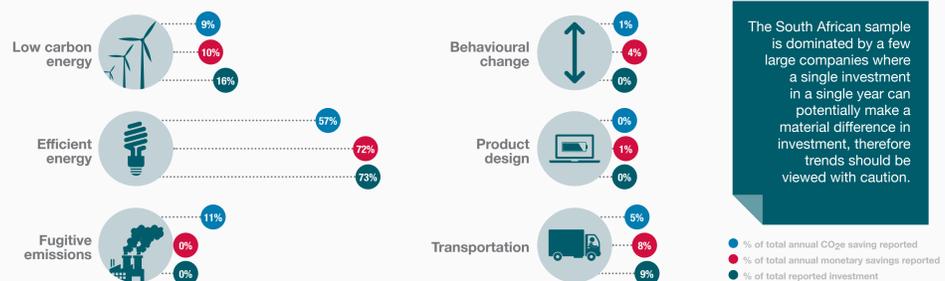
39% of companies quantified the potential financial impacts of climate change opportunities

- Changing consumer behaviour = R763 million (n=11) over a period ranging from 1 to over 6 years
- Reputation = R1.6 billion (n=14) calculated as a devaluation of the market capital over a period ranging from 1 to over 6 years

## SETTING TARGETS UNLOCKS THE OPPORTUNITY OF COST SAVINGS THROUGH EMISSION REDUCTIONS



In 2016, investments made into energy efficiency continue to provide the highest GHG and monetary savings



The South African sample is dominated by a few large companies where a single investment in a single year can potentially make a material difference in investment, therefore trends should be viewed with caution.

## THERE IS ALSO OPPORTUNITY IN WORKING WITH VALUE CHAIN PARTNERS

### TOP 3 HIGH IMPACT INDIRECT RISKS

- Reduction/disruption in production capacity
- Increased operational costs
- Reduced demand for goods/services

### TOP 3 HIGH IMPACT INDIRECT OPPORTUNITIES

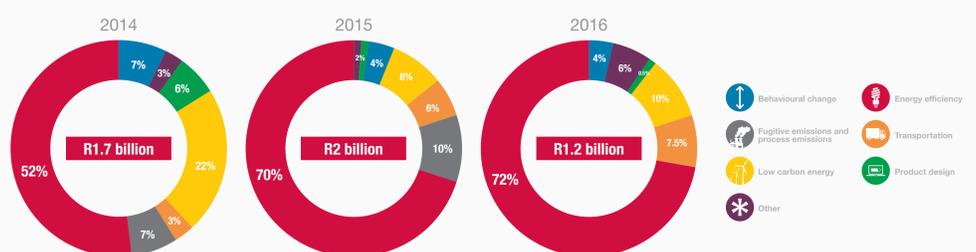
- Reduced operational costs
- Increased demand for existing goods/services
- New products/business services

**41% OF COMPANIES VERIFY THEIR SCOPE 3 EMISSIONS**

Companies are not reporting the scope 3 categories where the cost and GHG reduction opportunities lie.



There has been a decline in annual financial savings as a result of emissions reductions activities

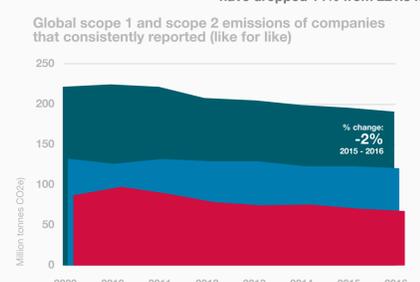
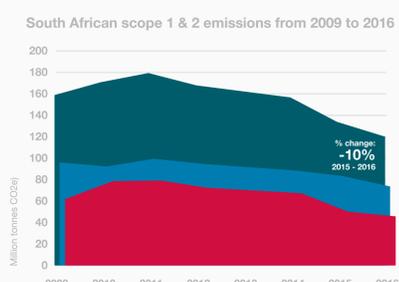
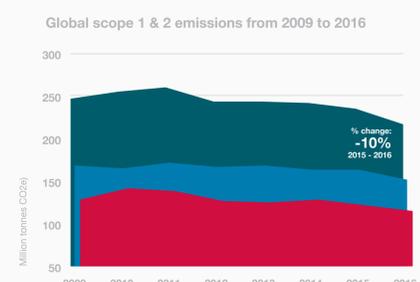


The reported emissions reduction activities have mostly been implemented. Current and future reported emissions reduction activities are only adding a small additional reduction. As such, companies need to improve emission reduction activities



## THE REPORTED SCOPE 1 AND 2 EMISSIONS AND % CHANGE OVER THE YEARS

Sample variances, acquisitions, methodological changes, operational and output changes, divestment and emission reduction activities all contribute to variances in the reported emissions each year



A like for like comparison of 45 companies reporting their GHG emissions since 2009 reveals gross scope 1 (direct emissions) and scope 2 (indirect emissions from electricity purchases) have dropped 14% from 221.8 million tCO2e in 2009 to 191.4 million tCO2e in 2016

However, the comparison of like-for-like reporting companies (n=63) between 2015 and 2016 show South African scope 1 and 2 emissions increasing by 3%

# CDP SOUTH AFRICA 2016 WE MEAN BUSINESS AND SOUTH AFRICAN ACTIVITY



The Paris Agreement ratification is an extremely strong global decarbonisation signal and international businesses are taking action through a mega-coalition called We Mean Business.



In the context of a requirement for continued, increasingly effective performance from global businesses

## WE MEAN BUSINESS

advocate for action through a set of evolving solution clusters

- Net Zero Goals – Science Based Targets**
- Energy Systems – Renewable Energy, Energy Efficiency and Energy Productivity**
- Built Environment and Transport Systems – Buildings Energy Efficiency, Electric Vehicles, Low Carbon Fuels, Aviation, Road Freight and Shipping**
- Finance Systems – Investor Platform for Climate Actions**
- Land Systems – Deforestation, Food and Agriculture**
- Industrial Solutions – Industrial Sectors (chemicals, cement), Non-CO2 Gases (short-lived climate pollutants)**
- Resilience – Water, Resilience and Adaptation**
- Enablers – Carbon Pricing, Responsible Policy Engagement and Fiduciary Duty**

The implementation of the Paris Agreement and economic transition will happen at a national level and each country will implement differently considering their context and historical contribution to climate change. In South Africa the NBI is (in the short term) therefore focussing on: **Science Based Targets, Energy Systems, Resilience and Enablers**. CDP is a clear contribution to finance systems.

## SCIENCE BASED TARGETS

25 companies have set or intend on setting a target aligned with science in the next two years, what are some of the challenges to pervasive Science Based Targets

The science based targets coalition have several eligibility criteria, 3 of which are:

- Targets must cover a minimum of 5 years and a maximum of 15 year**  
While companies are beginning to set science based targets, currently targets are short-lived  
**82% OF ALL TARGETS EXPIRE IN 2020**
- Targets must cover company wide scope 1 and 2 emissions**  
51% of companies have omitted to disclose emissions from their scope 1 & 2 reporting boundary  
26% of companies not disclosing all of their scope 1 emissions believe their excluded emissions to be material  
20% of companies not disclosing all of their scope 2 emissions believe their excluded emissions to be material

- Targets must cover an ambitious scope 3 reduction**  
20% of companies reported emission reduction activities that resulted in decreases in their scope 3 emissions  
In most sectors there is at least one company that is reporting scope 3 emissions making up 40% or more of their total emissions  
Number of companies with Scope 3 emissions greater than 40% of all emissions:  
Consumer Discretionary: 1, Consumer Staples: 4, Energy & Materials: 7, Financials: 6, Health Care: 0, Industrials: 1, IT & Telecoms: 1  
Few companies are meeting the eligibility criteria for science based targets assessment

## ENERGY SYSTEMS

In South Africa, a significant portion of our emissions come from coal fired power stations and therefore energy system transition needs to be a big business focus

Energy efficiency projects are vital to emissions reductions and projects undertaken provide the biggest cumulative monetary savings

The renewable energy annual increment required for sectors to achieve their renewable energy targets that individual companies within that sector that have set\*

Companies have reported a global production of renewable energy that is 2% of Eskom's distributed electricity\*\*

Woolworths is the only SA company to report a target of 100% renewable energy

## RESILIENCE

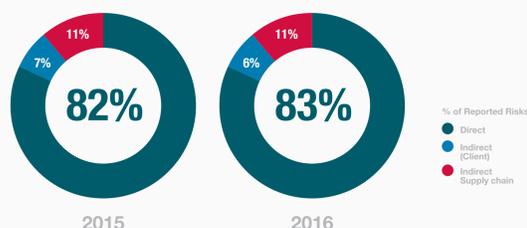
The Paris Agreement balances the emphasis on mitigation and adaptation

The likelihood and severity of physical risks (an indicator of adaptation risk) have steadily been increasing: 3 of the top 5 risks are physical risks

| Likelihood | Regulatory risks |        |                | Physical risks |        |                |
|------------|------------------|--------|----------------|----------------|--------|----------------|
|            | Low              | Medium | Magnitude High | Low            | Medium | Magnitude High |
| High       | 26%              | 34%    | 24%            | 5%             | 27%    | 24%            |
| Medium     | 5%               | 8%     | 3%             | 5%             | 20%    | 14%            |
| Low        | 0%               | 0%     | 0%             | 0%             | 3%     | 2%             |

Despite the identified magnitude of physical risk being higher there are challenges with how companies assess specific risk:

- Only 32% of all risks are reported with a time frame exceeding three years.
- Only 17% of reported risks refer to indirect risks that may occur in the value and supply chain
- Only 21% of all risks disclosed by responding companies relate to precipitation and water related issues
- Only 34% of the entire sample engages with their value chain on climate change risks



## ENABLERS SUPPORT PERFORMANCE

Given the challenge of maintaining high levels of performance, South African companies need to work with government and other market participants on an optimal enabling environment

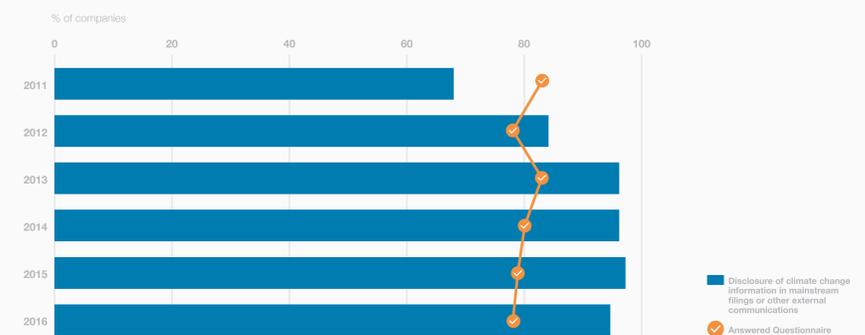
92% of responders engage with government on climate change issues, (2015:93%) of which 63% engage directly (2015:65%)

THIS IS WHAT THEY SPOKE ABOUT

45% OF COMPANIES USE OR INTEND TO USE AN INTERNAL PRICE ON CARBON

companies using an internal price of carbon: 26% (2015:25%)  
companies that intend on setting an internal price of carbon within the next two years: 19% (2015: 15%)

Disclosure of climate change information in mainstream reports remains static



\* This analysis is based on a very small sample of companies having set renewable energy targets  
\*\* Source: Eskom list of Fact Sheet, 2015