

EMBARGOED UNTIL 9th JULY, 00.01 BST

Shell underestimates risk for up to \$77 bln of high cost oil projects

Responding to Shell: An Analytical Perspective

London, July 9th 2014 --The Carbon Tracker Initiative (CTI) and Energy Transition Advisors (ETA) have today jointly published a thorough response to [Shell's stranded assets statement](#) published on May 16th. The think tanks' reply is based on a detailed technical analysis of Shell's argument. Overall, we welcome the engagement with these issues, but Shell's approach is based on dismissing potentially weaker demand for its oil due to tougher climate policies, technological advances and slower economic growth. CTI and ETA have also found that the company selectively applies different timelines to fit its business strategy. For example, Shell:

- Highlights conventional projects with short lead times and lower capital costs rather than its growing unconventional and deepwater portfolio which will be more capital intensive, have longer lead times and extended payback periods. Many of the latter will not pay out until well into the next decade.
- Only considers its proven oil and gas reserves that equate to 11.5 years of production at current rates - adding existing discoveries extends that period to 25 years, and possibly longer.
- Acknowledges the need for urgent action on climate change, but states that the world will fail to meet the internationally agreed global warming target of 2 degrees Celsius..
- Dismisses the likelihood of political action on climate change, ignoring the growing list of national and regional emissions measures being legislated and the growing calls and potential for greater energy efficiency worldwide.
- Prefers to focus on today's energy realities, but relies on Carbon Capture & Storage as a panacea to combat climate change, which CTI's 2013 research

shows can only provide a limited extension (14%) of the carbon budget to 2050.

Shell's response selectively focuses on producing oil fields and projects that are nearest to completion. Our analysis examines a broader range of its assets than in Shell's letter. Over the next 10 years, we estimate that Shell could invest some \$77 billion in high-risk, high-cost projects (needing over \$95 per barrel for sanction). If Shell invests the proceeds from its producing assets into resources such as these, it will be at a progressively greater risk to changes in demand caused by measures to cut pollution. Focusing solely on carbon risk over the next 11.5 years rather than its true resource life of several decades is therefore short sighted.

Anthony Hobley, CEO of CTI, said: *"With this combative stance, Shell has missed an opportunity to explain to its shareholders how its capital expenditure plans are resilient to the impending energy transition. Acknowledging the seriousness of the climate challenge whilst at the same time asserting no effective action will be taken until the end of the century is as classic a case of Orwellian double think as you are likely to find."*

Shell's response also misrepresents the IPCC by stating on the first page of its public response that *'there is a high degree of confidence that global warming will exceed 2 degrees Celsius by the end of the 21st century'*. In fact, this is only one stated outcome if there is no action to reduce global emissions.

Unlike Shell, we believe that climate regulation and related environmental policy is gathering pace, while other economic forces such as efficiency are also affecting demand. Mark Fulton, ETA Founding Partner and Advisor to CTI, said: *"We believe that by stress testing more aggressively Shell's future assumptions about demand and climate policy that this will lead to a productive dialogue with investors on capital management and capital discipline in relation to high-price high-carbon investments."*

As a result we would like Shell to heed the following advice for the sake of their shareholders:

- “Stranded asset” risk, in terms of high cost, low return investments leading to shareholder value destruction, is a real and current issue for oil producers to address, due to (1) the potential for global oil demand to decline within the next 10-15 years (even without a global deal); and (2) the 15-20 year lead times required to bring many newly-discovered resources to market.
- Oil companies should examine and disclose demand/price/carbon risks to all potential future production, rather than restricting focus to proven reserves alone..
- Shell should provide more detail on the role its internal carbon price of \$40 per tonne plays in hitting demand for its oil.
- Shell's \$77 billion of potential capex (2014-25) on new high-cost (above a market price of \$95 per barrel) oil production ought to be a focal point for engagement with investors.
- To help shareholders to assess risk, oil companies ought to disclose estimated breakeven oil prices (BEOPs) of all new projects
- Shareholders should use the CTI/ETA analysis to engage with management to ensure that capital is not allocated to high breakeven oil price (BEOP) projects that appear marginal in a BAU environment and value destroying in a low-carbon scenario.
- Rather than dismissing low-carbon outcomes as unlikely, Shell's long-term energy outlooks ought to more seriously consider the implications of a 2°C climate scenario.

Link to the full report and executive summary:
<http://www.carbontracker.org/shell-response/>

Background to Shell's letter

On May 16th 2014 Royal Dutch Shell issued a 20-page public [letter](#) "in response to enquiries from shareholders regarding the 'carbon bubble' or 'stranded assets' issue." This was prompted by the Carbon Asset Risk engagement initiative co-ordinated by CTI and CERES. Investors with over \$3 trillion in assets raised these issues with 45 of the largest fossil fuel companies. More information on the Carbon Asset Risk initiative is available [here](#).

Shell's letter was released a week after the think tanks jointly published a major report, entitled [*Carbon Supply Cost Curves: Evaluating Financial Risk to Oil Capital Expenditures*](#). The study allows investors to identify the highest-risk, highest-cost oil projects, to help them avoid the destruction of shareholder value in the context a range of factors, including potential lower demand for fossil fuels, more ambitious emissions regulation at all levels, technological advances and improved efficiency.

About the Carbon Tracker Initiative

The [Carbon Tracker Initiative](#) (CTI) is a team of financial specialists making climate risk real in today's financial markets. CTI is partnering with Mark Fulton and Paul Spedding of [Energy Transition Advisors](#) to produce a global research series on the theme "Carbon Supply Cost Curves".

For a glossary of key definitions go to

<http://www.carbontracker.org/site/key-terms>

Press contacts:

Margherita Gagliardi, Communications Officer	Stefano Ambrogi International Communications Manager
T: +44(0) 203 713 9610	T +44 (0)203 478 1147
M: +44 (0)7 771 57 7310	M +44 (0)7 557 91 6940
E: mgagliardi@carbontracker.org	E: stefano.ambrogi@europeanclimate.org