

Six key ESG issues in energy credits

- The energy sector is faced with significant ESG challenges
- We have identified six material ESG factors for energy credits
- We incorporate them into our valuation of company credit profiles

ESG information provides credit investors with valuable information on companies' ability to manage their assets, repay debt holders and avoid situations in which their operations can be impaired. In this article, we will address the six main ESG issues in the energy sector and what they tell us as credit investors.

The energy sector is the totality of all companies involved in the production and sale of energy, including fuel extraction, production, transportation, processing, refining, marketing and distribution. The sector contains a diverse number of activities along the value chain, but for credits we primarily invest in the following types of issuers:

- International oil companies (IOCs), which integrate upstream (searching for and extracting oil and gas), midstream (transportation) and downstream operations (refining, marketing and distribution) and which are interesting for their generally high credit quality; most IOCs combine conventional operations with a varying degree of exposure to unconventional onshore operations, mainly in North America and Australia
- Independent exploration & production (E&P) companies with a focus on upstream unconventional North American onshore operations
- National oil companies (NOCs), which have integrated business models and which run both commodity and sovereign risk



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'We need to know how companies address the challenges the energy sector faces'

The six key ESG issues in the energy sector

Looking through the lens of a credit investor, we identify six key sustainability issues in the energy sector that can have a material financial impact on a company's long-term business position. Incorporating this type of information in addition to purely financial data allows us to make better investment decisions. Using the RobecoSAM ESG materiality framework as an important source, we define the following six issues:

1. Energy use and greenhouse gas emissions
2. Water management
3. Health & safety
4. Community relations
5. Bribery and corruption
6. Corporate governance

We will review each of them, their impact on the valuation of the companies we cover, their magnitude, and how we expect company management to mitigate or diversify these risks.

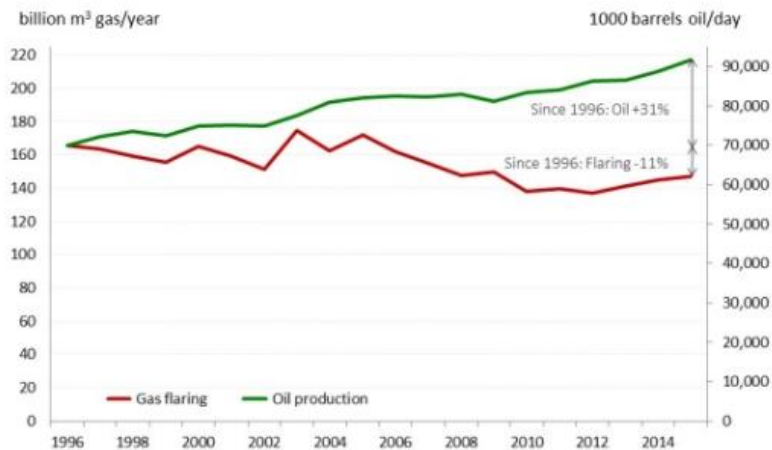
1. Energy use and greenhouse gas emissions

Upstream carbon emissions are driven by the nature of the reserves, which affects energy use and the volume of gas flared (burnt) or vented. In this part of the value chain, direct emissions mainly consist of flared natural gas (carbon dioxide) and natural gas (methane) that is vented or lost through leakage. Additionally, indirect emissions are caused by the energy required to lift or extract hydrocarbons. Oil sands operations and aging conventional fields generally demonstrate higher carbon emissions per unit of production.

In recent years, the upstream oil & gas industry has invested in the reduction of methane emissions and flaring through greater capture of natural gas. The development of Liquefied Natural Gas has improved the route to market for what was previously stranded natural gas, which would typically be flared at the well site. As a result, flaring has declined, while production has increased, as shown in Figure 1. A number of oil & gas companies are seeking to further reduce flaring as part of the Global Gas Flaring Reduction Partnership, a public-private initiative comprising international and national oil companies, national and regional governments, and international institutions.¹

¹ <http://www.worldbank.org/en/programs/gasflaringreduction>

Figure 1 | Global flaring and oil production 1996-2015



Source: <http://www.worldbank.org/en/programs/gasflaringreduction#7>. Note: Flaring data based on new satellite image system and calibration from 2013 (VIIRS satellite – Visible Infrared Imaging Radiometer Suite)

In the downstream segment, oil refineries are also significant contributors to direct greenhouse gas (GHG) emissions. Some IOCs report around half of their total GHG emissions as coming from their downstream operations. Direct GHG emissions in oil refineries come from the flaring of methane released during processing as well as produced carbon dioxide.

Indirect GHG emissions are also significant, as downstream refining operations are typically large energy users with many refineries using hydrogen or steam from nearby third-party plants and electricity from the public grid. Energy costs may account for 30% of total refinery operating costs. Downstream carbon emissions are driven by energy use, which varies according to the type of feedstock (raw material) used and refinery complexity. Heavy crudes, refineries with a high Nelson complexity index, and the production of petrochemicals generally have a higher energy intensity.

In the midstream segment, GHG emissions are typically associated with methane leakage. In general this is the aggregate of small leakage events from a large number of highly dispersed sources.

The relevance for credit investors

Energy use and greenhouse gas emissions are relevant to credit investors because:

- A company's position relative to the industry-average carbon intensity is an indicator of its overall operational and energy efficiency, and its operating margin.
- Energy producers are subject to regulations, which may include natural gas emissions. In the US, for example, local or state level Specific Gas Emitters Regulations require companies to pay attention to energy use and GHG emissions.

Credit investors are interested in the extent to which companies are able to avoid, reduce or mitigate the overall risks arising from energy intensity and GHG emissions. For us key factors are the company's overall environmental management and its specific focus on GHG emissions. We obtain information from company reports and responses to the Carbon Disclosure Project questionnaires.

2. Water management

Water management is important for hydrocarbon producers. Some forms of hydrocarbon extraction and processing require significant amounts of water. Potential conflicts with other users over access to water increase in areas where water resources are less plentiful. Waste water disposal is another issue because of the need to dispose of 'produced water', which contains hydrocarbons.

In the upstream segment, the problem of water management is becoming more significant in North America, particularly for unconventional methods such as hydraulic fracturing production ('fracking') of shale oil and gas reserves. The overall environmental impact of water demand and waste water disposal is still subject to some uncertainty. The possible impacts of hydraulic fracturing on drinking water have been discussed by the US Environmental Protection Agency (EPA) in a draft paper².

A risk associated with waste water disposal is the issue of induced seismicity. When hydrocarbon producers extract oil and gas from wells in these regions, thousands of liters of salty water laced with heavy metals surface along with the fuel. The water is often injected back into special underground disposal wells under high pressure. The US government and academic researchers have found that this practice may help trigger movement along geologic fault lines, but more research is needed to link specific wells to specific incidents. Currently there is no industry-wide solution to this problem and energy producers may face a potential financial impact because of new regulations, such as restrictions on the energy production, or additional costs associated with this risk.

The downstream segment typically consumes substantial amounts of water primarily for processing and cooling. BP has disclosed that over 90% of its fresh water withdrawal is for downstream operations³. The US EPA has estimated that refineries use 1 - 2.5 gallons of water (3.8 - 9.5 liters) for every gallon of product. Not all of this water is consumed, however, and part of it has to be disposed as waste water. Costs of waste water treatment are also increasing. Companies are seeking to improve water efficiency and increase the proportion of recycled water.

² Assessment of the Potential Impacts of Hydraulic Fracturing for Oil and Gas on Drinking Water Resources, June 2015

³ BP, HSE Charting Tool 2014

The relevance for credit investors

Water management is relevant to credit investors because:

- A company's water intensity is an indicator of its overall operational and energy efficiency and, consequently, its operating cost base.
- Companies are subject to regulations and agreements on access to water. Changing regulations and alternative demands for access to water resources may increase costs.
- In waste water disposal, North American unconventional onshore producers in particular are facing increased risks of new regulations being introduced and an increase in costs associated with disposal wells due to concerns about environmental impact and induced seismicity.

As credit investors, we look for company-specific information on water consumption and operations in water stressed areas, as well as water disposal methods. We are also interested in the extent to which companies are able to avoid, reduce or mitigate the overall risks arising from water. For us the key factors are the overall focus of a company's operations, its general environmental management and its specific focus on water management. An adequate water management program that focuses on efficiency gains to reduce water use or on water-efficient operations, including recycling, lowers costs, scarcity risk and waste water issues. We also look for a good track record in compliance with permits and regulations.

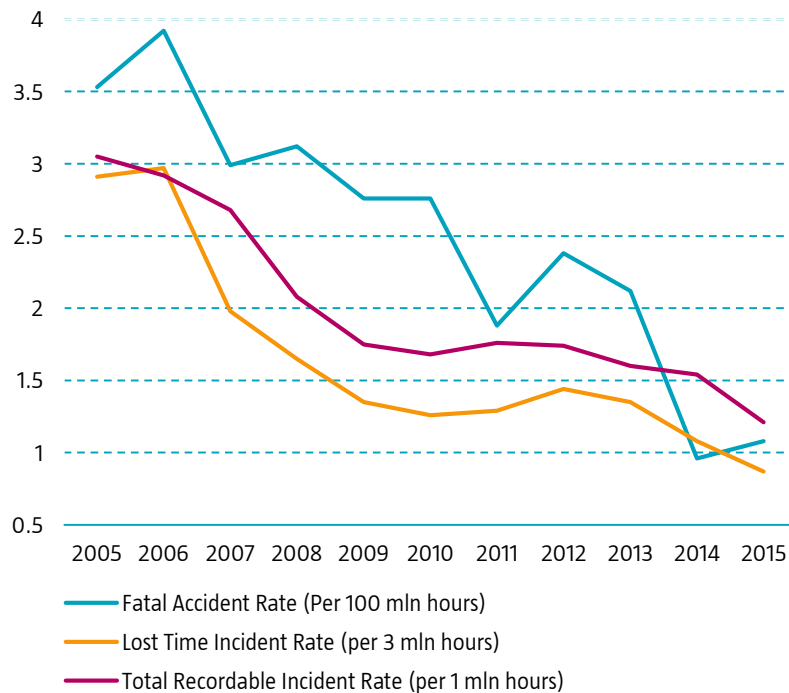
3. Health and safety

On top of the human costs, safety incidents can lead to disruptions, delays, oil spills and natural gas leakages, which impair the profitability of projects by lowering production and revenues, increasing operating costs, and giving rise to cleaning costs and other liabilities. This is particularly important for energy companies that operate in challenging conditions, such as deep-water offshore exploration and operations in the Arctic.

The most significant incident was BP's Gulf of Mexico spill in 2010, which led the company to put aside USD 61.6 billion to cover financial and environmental costs. Other significant costs include the Exxon Valdez tanker spill in 1991, which cost the company USD 3.8 billion, and Occidental Petroleum's Piper Alpha accident in 1988, which cost USD 1.6 billion.

Over the last ten years, the oil and gas industry has generally been successful in reducing occupational health & safety incidents. This has been the result of management focus on the safety of employees and contractors, establishment of a 'safety culture', and continuous improvement of operating practices. This is illustrated in the figure below.

Figure 2 | Occupational Health & Safety track record



Source: International Oil & Gas Producers

The relevance for credit investors

As credit investors, we use occupational health & safety and environmental data as a proxy for operational excellence. We therefore look for:

- The track record and disclosure of occupational health & safety indicators, including fatalities, injury rates and, increasingly, process safety events
- The disclosure on environmental impacts such as loss of containment incidents
- The proportion of assets located in challenging operating environments and the extent to which the company is able to manage the risks

We are concerned about how companies manage the health & safety of their employees and contractors. We want management to address situations in which their company is adversely positioned against peers, to look closely at individual cases of fatalities and injuries, and to address sequences of events that may suggest a failing safety culture.

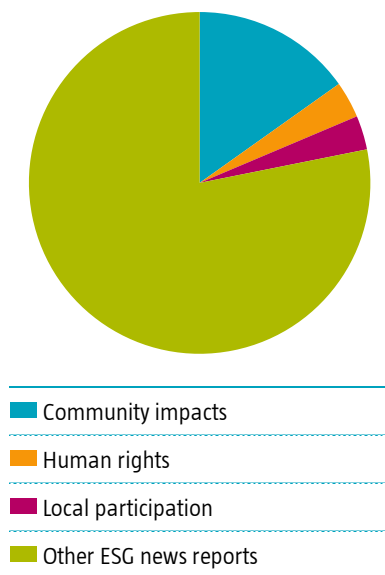
4. Community relations

Management of community relation risk is important to both the development and the operation of energy assets. IPIECA, the upstream industry association for environmental and social considerations, notes that “understanding and addressing the interests of societies, different social groups and communities that may affect, or be affected by, oil and gas

operations, is often an important component of designing and executing successful and sustainable oil and gas projects".⁴ In practice, the community interaction footprint is generally larger for onshore activities such as conventional and hydraulic fracturing production, midstream pipelines and associated infrastructure, and downstream processing plants.

Noise, light, traffic, spills and perceived differences in benefit and burden sharing may all create tensions between operators and communities. The importance of community relations can be seen from the data of RepRisk⁵, the leading business intelligence provider specializing in ESG risk analytics and metrics. RepRisk also identifies impacts on communities as one of the top 5 ESG issues for the sector. From inception in 2007 to the end of 2016, a quarter of the press articles on oil & gas companies relate to impacts on communities, as well as corporate complicity in human rights abuses, and local participation issues.

Figure 3 | Press articles on oil & gas companies per ESG topic



Source: RepRisk

The community relation issue has mainly been associated with emerging markets. For instance, in Nigeria, a complex social situation caused elevated spill rates for Shell, Total and Eni, driven by sabotage on pipelines. However, community risk is now also becoming more evident in developed countries such as the US and Canada, where community protests have caused delays to the proposed large-scale pipelines.

⁴ Source: Oil and gas industry guidance on voluntary sustainability reporting, 2015

⁵ RepRisk ESG Business intelligence (www.reprisk.com) is a global research and business intelligence provider specialized in dynamic ESG risk analytics and metrics. To assess the risk, RepRisk's research focuses on capturing and analyzing data from media, stakeholders, and other third-party sources external to the company.

The relevance for credit investors

As credit investors, we look for reassurance that companies are able to manage their community interactions and prevent reputational risks. Examples include incorporation of community relations into operating management systems, and country level stakeholder engagement programs. We also require companies to provide good disclosure on the community relations issues they are exposed to, as well as on how these are managed across the company and in individual examples.

5. Bribery and corruption

Large energy companies work together with national oil companies and national state officials in emerging markets. These companies are involved in large projects requiring negotiation with public officials on production and return sharing agreements. The investment returns can be significant. In the energy sector corruption may be associated particularly with access to resources as well as the procurement of services contracts.

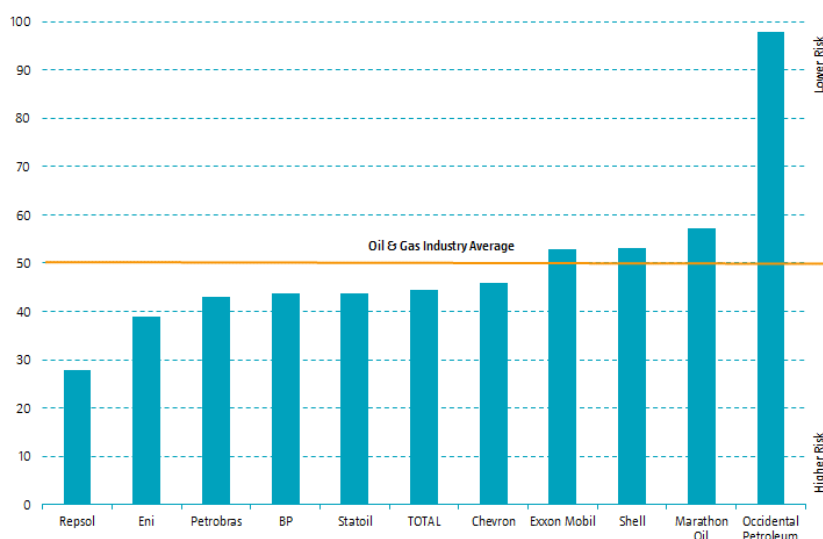
There have been a number of large corruption cases in the energy industry. While the absolute scale of such incidents is eye-catching, it is extremely rare for the penalties to be big enough to impair the credit quality of the companies involved. Nevertheless, such incidents point to risk exposure and weaknesses in management and internal governance.

National oil companies have not proven to be immune. The largest corruption case in the sector in recent years has revolved around Petrobras in Brazil and the overpricing of procurement contracts, with excess payments subsequently circulating into the political arena.

The relevance for credit investors

In order to get more insight into corruption risks in the energy sector, we look at the exposure of energy companies to countries associated with higher levels of corruption. We use, among other sources, RobecoSAM's Country Sustainability Ranking for this. For an even closer look we also combine reported production data and the Transparency International Corruption Perception Index (TICPI) to develop a 'production weighted TICPI score' for individual oil & gas companies. An illustration of the outcomes of this calculation is given in the chart below. We use this to understand how well companies diversify their general corruption risks and to identify specific risk exposures.

Figure 4 | Upstream Production Weighted Transparency International Corruption Perception Index, 2014



Sources: Company Data, Transparency International Corruption Perception Index, BP World Energy Statistics, RobecoSAM estimates. Country-based corruption: High numbers mean lower risk: most have more risk exposure than the industry average.

We are concerned with how companies mitigate their corruption risk exposure through their country choices, the standards they set in their codes of business ethics and the ways in which they implement them.

6. Corporate governance

As with all companies, good corporate governance is a means to ensuring optimum decision-making and alignment of interests on strategy, investments, allocation of capital investments and cash flows, and financial stability. National oil companies bring their own set of corporate governance challenges. In these instances company strategy and investment decisions risk being run as instruments of national policy and to the detriment of credit investors. A recent example is the way in which Petrobras has priced its products in the domestic market such that the company has become an instrument of fuel subsidy in Brazil. We have been encouraged by the efforts of the current management team to put an end to this practice.

The relevance for credit investors

In understanding corporate governance in the energy sector we look at:

- Company ownership and the presence of government or other shareholders with the potential to influence management
- Board quality, including independence, directors with appropriate skills and diversity

- Close alignment of the remuneration of executives with the interests of investors, including credit investors

As credit investors, we expect companies to meet good practice standards of corporate governance based on the International Corporate Governance Network (ICGN) principles.

Conclusion

At Robeco we incorporate financially material ESG factors into the final valuation of the credit profile of the companies we cover, as these issues can have a material impact on an issuer's ability to repay its debt. They provide us with a more thorough understanding of the ESG risks and how management addresses them. ESG information is often a proxy for how well companies are being managed.

Understanding these risks also helps us with our active ownership engagement programs which, in recent years, have covered industry specific topics such as deepwater drilling, controversial regimes, unconventional operations, and climate change strategies.

The energy sector is moving fast towards the adoption of new technologies for developing and finding new hydrocarbon resources and improving operating efficiency. At the same time the sector is also facing large challenges from various regulatory changes, including those relating to climate change. We use our ESG perspective to monitor the impact of such new developments on the companies we cover with the aim to making better informed investment decisions.

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The sale of the fund qualifies as a private placement pursuant to section 2 of Uruguayan law 18,627. The fund must not be offered or sold to the public in Uruguay, except in circumstances which do not constitute a public offering or distribution under Uruguayan laws and regulations. The fund is not and will not be registered with the Financial Services Superintendency of the Central Bank of Uruguay. The fund corresponds to investment funds that are not investment funds regulated by Uruguayan law 16,774 dated September 27, 1996, as amended.

Additional Information for US offshore investors

The Robeco Capital Growth Funds have not been registered under the United States Investment Company Act of 1940, as amended, nor the United States Securities Act of 1933, as amended. None of the shares may be offered or sold, directly or indirectly in the United States or to any US Person. A US Person is defined as (a) any individual who is a citizen or resident of the United States for federal income tax purposes; (b) a corporation, partnership or other entity created or organized under the laws of or existing in the United States; (c) an estate or trust the income of which is subject to United States federal income tax regardless of whether such income is effectively connected with a United States trade or business.