

Climate Change Risk Oversight Framework For Directors

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Key Takeaways

- State Street Global Advisors (SSGA) believes that boards should regard climate change as they would any other significant risk to the business and ensure that a company's assets and its long-term business strategy are resilient to the impacts of climate change.
- SSGA has developed a framework to help directors evaluate potential climate-related risks that may impact companies within a sector.
- The three primary climate-related risks we have identified are physical risk, regulatory risk and economic risk.
- Climate change will continue to be a priority for our asset stewardship and company engagement program in 2016 as we seek to promote effective environmental and sustainability practices and better company performance on behalf of our clients and other stakeholders.
- Our guidance for directors is based on over 80 climate-related engagements we have had with companies over the past two years.

Background

The success of the COP21 climate negotiations has brought a sense of urgency to the global transition towards a low carbon economy. This new global direction agreed upon by heads of 195 countries, encompassing 95% of global emissions in Paris, presents challenges and opportunities to boards and companies across all sectors. The challenges come in the way of possible changes to strategy to meet specified goals; allocating capital in technology and/or infrastructure; and managing reputation based on corporate practices that demonstrate a company's climate consciousness. The opportunities are presented through proactively identifying new business lines; mitigating future regulatory risk; and leveraging sustainability practices as a differentiator to enhance brand/firm reputation.

In this paper SSGA contextualizes the implication of COP21 on a sector and provides a framework for directors to oversee risks pertaining to climate change. In addition, through a set of guidance questions, we clarify investor expectations of board members on their responsibilities with regards to climate change related matters at their companies.

SSGA's Framework For Overseeing Climate Change Risk

Climate change has been a priority engagement issue since 2014. Over the course of the past two years, we have held over 80 climate-related engagements with companies on topics such as disclosure, practices, risk management and the impact of climate change on the company's long-term strategy.

Based on our discussions, SSGA has developed a framework to capture and evaluate different types of risks associated with climate change facing companies within specific sectors. These risks, which can impact a company's assets and its long-term strategy, include:

Physical Risk Captures the tangible risks of climate change that could manifest itself through a rise in sea levels, droughts, flooding, extreme temperatures, and increased frequency of extreme weather events. These climate phenomena could damage infrastructure, cause supply chain disruption, result in raw materials scarcity, or harm human health.

Regulatory Risk Captures the changes in regulatory landscape that can impact existing business operations or could increase the cost of operations.

Economic Risk Captures the risks of changing consumer habits and a growth in climate consciousness as individuals recognize their role in aiding climate change, and reputational risk stemming from a company’s sustainability practices relative to stakeholder expectations. It also includes investment allocation decisions in companies and sectors that are better suited for a low carbon economy.

The impact of these risks goes beyond the traditional high emitting sectors of energy, utilities and transportation, and creates opportunities and challenges to any company in any sector. Below, SSGA has provided a table that identifies how each of these risks can affect a company within a specific sector.

Examples of Potential Impact of Climate Risk by Sectors

GICS	Physical Risk	Regulatory Risk	Economic Risk
Energy/Utilities	<ul style="list-style-type: none"> • Damage to physical infrastructure. • Quality and availability of water for operations. 	<ul style="list-style-type: none"> • Company’s preparedness to comply with national regulations. 	<ul style="list-style-type: none"> • Sensitivity to carbon pricing or tax that impact returns. • Potential decrease in net present value of reserves leading to stranded assets.
Materials/Industrials	<ul style="list-style-type: none"> • Obsolescence or innovation required to existing products to withstand changing climate conditions and extreme weather events. 	<ul style="list-style-type: none"> • Potential for industry to be targeted as future INDC sector given high emissions associated with sector. • Conservation efforts could pose a risk to the company’s supply chain. 	<ul style="list-style-type: none"> • Change in product preferences as consumers and businesses demand materials that enhance energy efficiency and facilitate environmental certifications such as LEED.¹
Consumer Discretionary/Staples	<ul style="list-style-type: none"> • Availability and quality of raw materials that are susceptible to changing climate conditions. • Disruption of existing supply chain due to changing climate conditions and extreme weather events. 	<ul style="list-style-type: none"> • Increase in costs and margins from changes to fuel/energy taxes and regulations. 	<ul style="list-style-type: none"> • Increase in cost of raw materials. • Decrease in quality of finished products due to the impact risk of climate change on quality of raw materials. • Changing consumer behavior may impact demand for company products. • Reputational risk to the company as its products and sustainability practices are evaluated by environmentally conscious consumers.
Health Care	<ul style="list-style-type: none"> • Impact of changing climate conditions on human health — for example increase in asthma and vector borne diseases, and nutrition. 		<ul style="list-style-type: none"> • Capitalizing on growth opportunities from impact of changing climate conditions on human health.
Financials	<ul style="list-style-type: none"> • Financial investment/exposure to properties, infrastructure and businesses vulnerable to impact risks of climate change. 	<ul style="list-style-type: none"> • Financial exposure to sectors that are vulnerable to changing regulations. 	<ul style="list-style-type: none"> • Credit risk implications. • Larger insurance payouts due to climate related events.
Information Technology/Telecommunication Services	<ul style="list-style-type: none"> • Disruption in services as climate events potentially impact infrastructure. 	<ul style="list-style-type: none"> • Regulation on reporting of company’s climate preparedness given sector’s critical infrastructure status. 	<ul style="list-style-type: none"> • Change in consumer preferences for energy efficient products. • Reputational risk as environmentally conscious consumers assess a company’s sustainability practices.

Guidance for Directors on Evaluating Climate Risk and Preparedness of a Company

- Analyze sector and company exposure to the different climate risks, inquire if the company has adequately mitigated potential risks, and assess the potential impact on the company's long-term strategy under different scenarios on a periodic basis.
- Review capital allocation and direct investment into technology and programs that may mitigate risks and/or give the company a competitive advantage amongst its peers.
- Keep abreast with regulation to understand impacts of potential policy changes on long-term strategy.
- Be conversant with the company's strategy to deal with the evolving climate change-related risks. Be prepared to discuss company's climate change strategy with investors.

- Companies in high-risk sectors should assess board composition and director expertise in relation to climate competence of the board; establish mechanisms such as access to climate experts to help educate directors on evolving climate-related risks.
- Review shareholder proposals that the company receives and evaluate the spirit of proposals in the context of the business risk.

We hope board members of our portfolio companies find this guidance useful. Any questions or comments regarding this guidance may be directed to Rakhi Kumar, Managing Director and Head of ESG Investments and Asset Stewardship, SSGA at Rakhi_Kumar@SSGA.com or Michael Younis, Principal, ESG Analyst, Asset Stewardship at Michael_Younis@SSGA.com

¹ Leadership in Energy and Environmental Design (LEED) is a certification program established by the US Green Building Council for optimizing a building's sustainability related efficiencies.

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