

April 2025

ESG Integration policy

Introduction

As investment managers, we believe that an effective, sustainable global economy is essential to the creation of potential long-term value. We believe that transparency and reliability of information regarding all types of material investment topics benefit our clients and shareholders, and that consideration of relevant environmental, social, and governance (ESG) information can help contribute to fulfillment of our fiduciary duty.

Putnam's active, research-intensive investment approach inherently recognizes the importance of fundamental business operations to the investment process, including thoughtful assessment of environmental, social, and governance factors and the promotion of transparency and integrity of data and disclosures.

Putnam Investments became a signatory of the Principles for Responsible Investment (PRI) in April 2011 and is committed to sustainable investing, including a focus on understanding how ESG factors may influence performance, generate alpha, and/or mitigate risk in client portfolios. We believe that incorporating ESG considerations into the investment process has the potential to enhance what asset management can accomplish, and that ESG analysis can be an important component of the research process.

Approach

Putnam incorporates consideration of ESG elements in our investment research processes. As active managers, we are committed to conducting thorough research when pursuing investment opportunities for our clients. We consider ESG analysis as additive and complementary to the fundamental understanding that is at the center of our investment philosophy.

Examples of relevant and financially material ESG issues that we research might include energy sourcing and intensity; materials sourcing and lifecycle management; employee well-being, development and opportunity; data procurement, privacy, security and use; board independence or alignment of management incentives with the company's strategic sustainability objectives. Relevant factors for investments we make are considered within the operating context of the company or issuer. It is through this type of integrated research that we expect to continue to provide value for our clients.

As a fiduciary on behalf of our asset management clients, Putnam generally looks at the entire investment universe to identify potentially attractive securities. We do not require that portfolios limit their universe or their investments in any company, industry, or country based on ESG criteria (except as stated in a portfolio's mandate or as specifically agreed upon with a client). Rather, we expect sustainability-related

insights to be a component of the research processes that are used to arrive at investment decisions. Not every portfolio manager, strategy, or portfolio has the same approach, and specific considerations will vary. For some portfolios, ESG analysis is less important than for others, whether as a matter of investment approach, the asset class, or limitations on data. ESG issues, data, and analyses are all actively evolving, and likewise we expect our research and investment approaches to continue to develop in ways that are attuned to the contexts of various issuers, asset classes, and investment strategies.

Climate policy

Climate risk and environmental management is a key focus for Putnam because these issues present increasingly important risks and opportunities for businesses and investors. Consistent with our overall investment approach, we analyze climate-related factors where material and financially relevant to the individual issuer, and where the data is available and we believe it is sufficiently accurate. We also incorporate climate-related factors where expressly agreed with our clients, such as in response to their legal requirements or sustainable investment goals. We assess climate risk in a context-specific way where financially relevant, industry by industry and issuer by issuer. Key metrics and analyses referenced can include carbon intensity and GHG emissions, water use and exposure to water-stressed areas, assessment of key supply chain risks, and consideration of physical risk to facilities in various geographies.

Stewardship

At Putnam, our commitment to active investing goes beyond the research process. This includes frequent communication with corporate leadership teams, a custom proxy voting policy to promote best practices in governance, and a deep-rooted belief in corporate citizenship.

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ESG Integration: At Putnam, we define ESG integration as the systematic inclusion of financially material ESG issues (including sustainability risks) as additional inputs into investment analysis and investment decision-making, where possible and appropriate. By considering financially material ESG issues across asset classes, we believe that ESG integration can inform better long-term investment decision-making and may contribute to long-term financial returns. As ESG integration is an enhancement to achieving a financial goal, we believe it can be applied across a wide spectrum of strategies and portfolios. We believe that certain ESG issues are relevant and material to long-term business fundamentals and security values, and important to all investors. Because our goal is to focus research in areas that are most investment relevant, our approaches are guided by mapping financially material ESG issues. Our efforts were inspired by the work of the Sustainability Accounting Standards Board (SASB), which is now part of the International Sustainability Standards Board (ISSB). We have internally developed materiality maps to help structure our ESG-related research priorities, with a goal of adding investment-relevant insights. The relevance and materiality of other ESG issues in our process will differ from strategy to strategy, from sector to sector, and from portfolio manager to portfolio manager, and for some strategies, most notably those where we lack relevant ESG data, ESG considerations are not a material part of our process. Unless stated otherwise in a financial product's documentation, and included within its investment objective and investment policy, ESG integration does not change a product's investment objective or constrain Putnam's investable universe. ESG determinations may not be conclusive, and securities of companies/ issuers may be purchased and retained, without limit, regardless of potential ESG impact. The impact of ESG Integration on performance is not specifically measurable as investment decisions are discretionary regardless of ESG considerations.

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