

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

2022 EDITION

Highlighting how sustainability factors influence investment decisions



MainePERS . . . considers material environmental, social and governance (ESG) risks and value creation opportunities for inclusion in our due diligence and ongoing monitoring of investments subject to our fiduciary duties, constitutional requirements and in accordance with local laws and regulations.

MAINEPERS ENVIRONMENTAL, SOCIAL AND GOVERNANCE POLICY.
ADOPTED ON JUNE 8, 2015.





CHIEF EXECUTIVE OFFICER

Dr. Rebecca M. Wyke

BOARD OF TRUSTEES

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December 1, 2022

MainePERS is pleased to present you with our 2022 Environmental, Social and Governance (ESG) Report in accordance with the requirements of 5 M.R.S.A. §1957 §§ 5.

Our ESG policy, adopted in 2015, considers material environmental, social and governance risks and value creation opportunities for inclusion in our due diligence and ongoing monitoring of investments subject to our fiduciary duties, constitutional requirements and in accordance with local laws and regulations.

At MainePERS, we understand our primary duty is to serve as responsible fiduciaries to our members. Our constitutional mandate requires "all of the assets and proceeds or income therefrom, of the Maine State Retirement System or any successor system and all contributions and payments made to the system to provide retirement and related benefits shall be held, invested or distributed as in trust for the exclusive purpose of providing for such benefits and shall not be encumbered for, or diverted to, other purposes." We are proud that Maine is one of the few states that protect pension funding in our state constitution.

Since 1942, the Maine Public Employees Retirement System (MainePERS) has helped public employees prepare for retirement. The System's contributing members include teachers, state, county, and municipal employees, legislators, judges, and those who work for other public entities. In addition to our active members, many public sector retirees and their beneficiaries receive monthly benefits from retirement plans offered by MainePERS. The System also administers Disability Retirement, Group Life Insurance, and MaineSTART, a tax-deferred retirement savings program. Administration of these programs includes financial administration, investment administration, recordkeeping of members' work and compensation data, and administration of retirement-related services provided to members, employers and retirees.

Additional information about MainePERS may be found on our website at www.mainepers.org.

www.mainepers.org

Sincerely,

Ør. Rebecca M. Wyke Chief Executive Officer

LOCATION

139 Capitol Street, Augusta, ME 04332

207-512-3100 **TOLL-FREE**

LOCAL

207-512-3101

MAINE RELAY

MAILING ADDRESS

1-800-451-9800

711

FAX

P.O. Box 349, Augusta, ME 04332-0349

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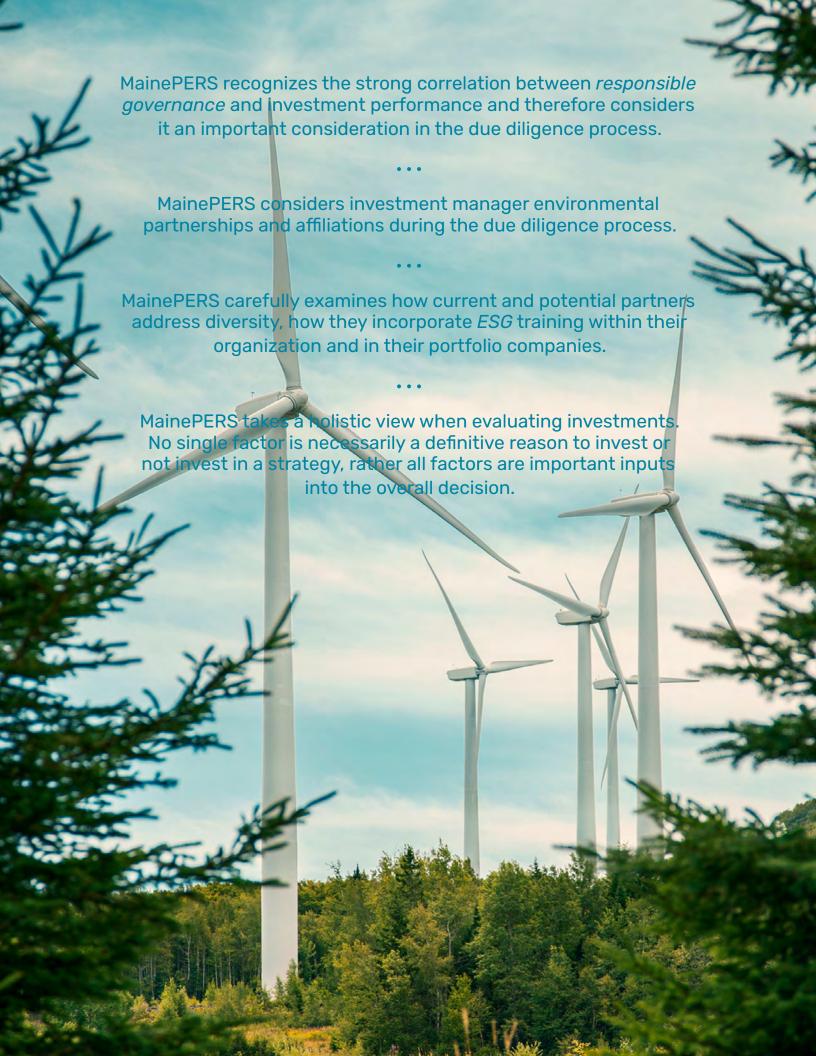
RISKS AND OPPORTUNITIES

"There is now broad recognition that ESG factors are fully part of governance and of equal weight in evaluating the value and the risk of portfolio companies."



In implementing the Board of Trustees' ESG policy, the MainePERS Investment Team has developed a thoughtful process to monitor the level of ESG risk factors in the MainePERS investment portfolio. Before making any new investment, MainePERS completes a robust due diligence process considering a broad range of factors,

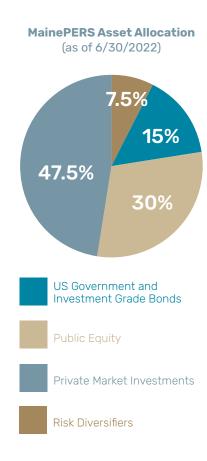
including ESG. Such factors include: whether an investment partner engages in profitable capital investment that also has a positive environmental impact; whether partners work constructively with deal stakeholders and are good community members themselves; and the degree of transparency an investment partner provides.



PUBLIC MARKET INVESTMENTS: ENGAGEMENT AND PROXY VOTING

Public Market Investments

MainePERS takes a passive approach to investing in public equity markets. Our public equity investments are "indexed", which simply means we seek to hold the entire stock market. This approach provides broad market exposure at extremely low cost and with little portfolio turnover. This approach means that we do not evaluate the merits, ESG or otherwise, of individual public companies or sectors in order to make buy or sell decisions. However, as a shareholder MainePERS is still able to actively engage with company management, particularly through the proxy voting process.



PUBLIC MARKET INVESTMENTS: ENGAGEMENT AND PROXY VOTING, CONTINUED

ACTIVE OWNERSHIP

"Active ownership refers to the practice of entering into a dialogue with companies on ESG issues and exercising both ownership rights and voice to effect change. Active ownership is in sharp contrast to the idea that investors should vote with their feet—that is, simply sell off the investments with questionable practices."

CFA Institute, Environmental, Social and Governance Issues in Investing: A Guide for Investment Professionals.

CLIMATE CHANGE SCENARIO ANALYSIS

In 2022 MainePERS and other institutional investors supported a successful shareholder proposal requiring ExxonMobil to provide an audited report on how the International Energy Agency's Net Zero 2050 pathway would impact the company's asset valuations and assumptions.

MainePERS owns both public and private equity investments, and recognizes that we cannot ensure any particular investment's commitment to ESG considerations, especially in cases where MainePERS is a minority owner and has limited ability to influence the organization. In the case of investments in large publicly traded securities, the MainePERS Investment Team selectively engages companies in which we currently invest where engagement can have meaningful impact relevant to ESG-related issues. Examples of this type of engagement activity include letters sent in 2022 to AbbVie, American Express, and General Motors concerning Board Chair Independence.

We view ourselves as an "active owner" of the companies in which we invest and will directly engage with company management as appropriate. MainePERS views such engagement as an important and effective means of managing long term risks. Additionally, as opportunities arise, MainePERS works collaboratively with other investors and ESG proponents to broaden our engagement reach and impact.

The MainePERS Investment Team believes that being active owners and making our voice heard by voting of proxies of publicly traded companies has economic value and can serve to reduce portfolio risk. Proxies are the vehicle by which boards of directors are elected, bylaws are changed, and other actions in which owners are involved are accomplished. In conjunction with our proxy agent, Glass Lewis, MainePERS votes on management and shareholder proxy proposals in a manner consistent with our Environmental, Social, and Governance Policy as articulated in the MainePERS Engagement Policy (2.7). During the most recent fiscal year, MainePERS voted in favor of ESG-related shareholder proposals in a majority of cases.

MainePERS casts ballots on over 10,000 proxy items every year.



PRIVATE MARKET INVESTMENTS

ESG CONSIDERATIONS

While ESG considerations are never an exclusive reason to pursue an investment, in many cases attractive investments are also attractive from an ESG perspective. An example is an infrastructure investment in Edinburgh Airport which added solar energy and other low carbon improvements to reduce Scope 1 & 2 emissions by 90% since 2016.

UN SUSTAINABLE DEVELOPMENT GOALS

Established in 2015 by the United Nations, the UN SDG's target 17 sustainability goals to be met by 2030. Many managers within MainePERS portfolio invest in companies that are aligned with these goals. MainePERS invests in a number of private "alternative" asset classes, such as Natural Resources, Private Equity, Infrastructure, and Real Estate. Prior to investing with any particular private asset manager, the MainePERS Investment Team completes a thorough due diligence process. This process is designed to assist the Team in the identification and monitoring of risk factors, including the evaluation of a number of ESG-specific items, and a review of a prospective manager's internal ESG policy. Governance and labor practices are crucial concerns in our due diligence process. Appropriate governance and alignment of interests is a prerequisite for any MainePERS investment. We also study labor practices of both the fund and the companies they manage. The due diligence process provides our Investment Team with a road map of strengths and weaknesses that allows us to make an informed investment recommendation to the Board of Trustees. Our holistic approach means we rarely make an investment decision based on a single issue (ESG-related or otherwise). Bringing all these factors into consideration, MainePERS looks to partner with asset managers that operate in an environmentally responsible manner, foster a fair and meritocratic work environment, and provide responsible corporate citizenship. Our Investment Team also believes that conducting due diligence into the ESG practices of potential managers is itself an important act and can serve to alert managers to a need to improve their ESG practices and disclosures. The improvements to ESG practices are beginning to take root, and we have noticed an increasing number of managers incorporating climate risk into investment decisions each year.

MainePERS invests in firms that demonstrate wise-use principles and seek to ensure observance of ESG best practices.

PRIVATE MARKET INVESTMENTS, CONTINUED

WATER SUPPLY AND WASTE

MainePERS invests in Suez, which provides drinking water to 66 million people worldwide, and generates renewable energy from waste, allowing customers to avoid 4.2 million tons of CO2 in 2021.

SUSTAINABILITY LINKED LOANS

A recent Alternative Credit investment included a loan with payment terms linked to ESG targets such as carbon intensity reduction and health and safety improvements.

Energy Transition

Energy storage is becoming a critical component required for a successful transition to a lower carbon energy future. Efficient large scale storage is needed to enable renewable energy produced when demand is low to be used during periods of higher demand. For example, excess solar energy produced during daylight hours must be stored until demand peaks in the evening. Similarly, since wind energy production typically peaks after midnight when energy demands are low, excess energy must be stored until needed. An additional source of battery demand will stem from the transition away from internal combustion engines in favor of electric vehicles (EV), which by itself will require a massive increase in battery production.

MainePERS has invested in a number of companies seeking to enable this transition. Examples include Stations-e and Allego, two European electric vehicles (EV) charging companies, as well as Twelve, a California based company focused on using carbon capture to produce consumer products without fossil fuels.

Fossil Fuels

While MainePERS has exposure to fossil fuels-based energy producers in both its public and private market investments, these investments have come to represent a smaller proportion of our overall investments over time for two reasons. First, because of our passive index-based approach to investing in public equities, the value of our public holdings of fossil fuel stocks generally mirrors the role these companies play in the broader economy. As this role shrinks, these public companies naturally become a smaller part of the MainePERS portfolio. The second reason resides in our private market investments and is related to market opportunities. MainePERS is an investor in a number of actively managed private market funds that allow the managers to invest wherever they find the most attractive opportunities. Our experience over the last several years is that these opportunities have generally been found in renewables and industries related to clean power, rather than in fossil fuel-related industries.

PRIVATE MARKET INVESTMENTS, CONTINUED

Agriculture

MainePERS agriculture investments contribute to the growing demand of food consumption while integrating sustainability factors. Examples include tech enabled services to increase efficiency and minimize inputs¹, as well as production of biological pesticides which eliminates the use of chemicals on crops².

Transportation

MainePERS private market infrastructure portfolio includes transportation investments, including the Purple Line³ project which is estimated to take 17,000 cars off the road each day, and save 1 million gallons of gas over the next 20 years.

- 1 Sustainable Development Goal #2
- 2 Sustainable Development Goal #15
- 3 Sustainable Development Goals #8, 9, 11, 13

Water

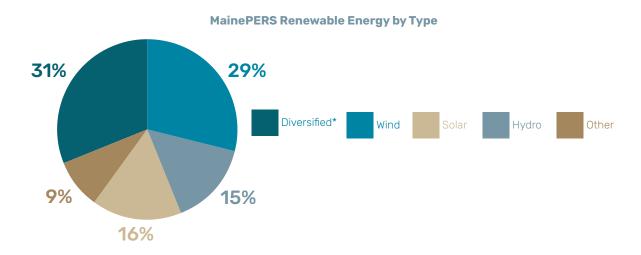
MainePERS understands that many of the sustainability issues facing humanity revolve around the use of water. Critical water-related risks exist for large populations in both developed and undeveloped countries, and MainePERS supports partners that are helping develop solutions to these problems. Among these problems is water quality. One solution, among many others, that MainePERS has supported in this arena are water treatment solutions.

Renewable Energy

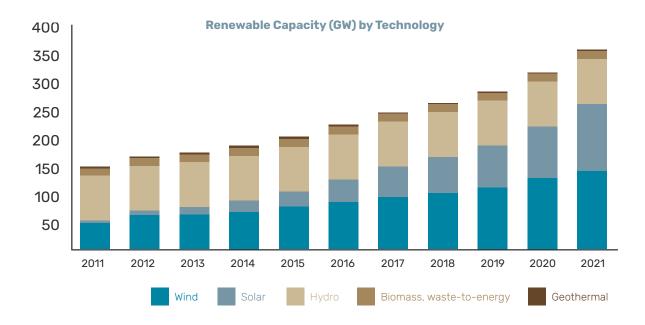
MainePERS invests in renewable energy across its portfolio. Recent private market investments include hydro, solar, biomass, geothermal and wind projects around the world. Over the past 15 years MainePERS has invested \$365 million in renewables through private market investments. This includes an investment in Hornsea, the world's largest offshore wind project located in England, as well as Bluepoint Wind, an offshore wind project that will provide power to New York and New Jersey.



PRIVATE MARKET INVESTMENTS, CONTINUED



The largest growth in private MainePERS renewable energy investments since 2012 has been in wind energy, followed by solar. This is consistent with US trends for installation of new renewable energy generation capacity:



^{*} The Diversified category contains investments that comprise of multiple types of renewable energy.



ESG IN ACTION

Mansell Village is a 90,000 square foot grocery store-anchored retail property built in 2003 located in Roswell, Georgia, owned by an Invesco-managed fund in which MainePERS is a founding investor. The property received the Institute for Real Estate Management's Certified Sustainable Property Certification in 2021. As part of the certification, the property has demonstrated a 30% reduction in energy consumption and a 23% reduction in water consumption compared to a 2018 baseline. The property installed white roofs in 2019, which reduced cooling loads, and installed LED lights in parking areas in 2020, which further reduced electricity use. The property has also planted drought-resistant landscaping to reduce the need for irrigation water consumption.

As part of the due diligence and monitoring process for real estate investment partners who buy, hold, and sell commercial and residential real estate, MainePERS examines the following ESG factors:

Environmental

These factors include the degree to which building energy, water, and waste practices support renewable energy innovation and lead to energy conservation and expense savings. Additionally, many of these properties achieve "LEED", "ENERGY STAR", or such measures of green building practices, and some have earned recognition as major achievements. Many of MainePERS' real estate partners have begun to review and assess the resilience of properties to climate risks.

Social Impact

These factors include the degree to which regular engagement with stakeholders such as employees, tenants, and the community result in strong stakeholder relations.

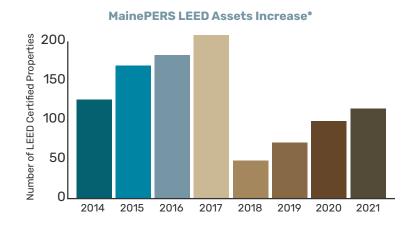
Governance

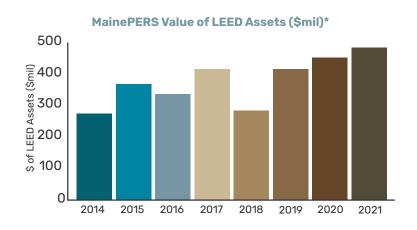
These factors include the degree to which company management reflects good governance principles including transparency in disclosing and managing potential conflicts of interest and accountability to investors and stakeholders.

REAL ESTATE, CONTINUED

MainePERS tracks participation in the Global Real Estate Sustainability Board (GRESB), a reporting framework for ESG performance. Currently, all five of MainePERS' open-end real estate equity partners are reporting members of GRESB.

Another recent Real Estate example is Aventura Industrial Center, a 303,000 square foot warehouse property, originally acquired in 2012 by MainePERS partner Stockbridge. One factor in the Fund's decision to market the asset for sale were concerns that its location in Miami, Florida would expose it to increased flooding risks related to climate change. The property received strong interest from investors and was sold in December 2021 at a price in excess of Stockbridge's entry basis and most recent carrying value.





^{*} In 2018, MainePERS reallocated capital in the Real Estate portfolio, and consolidated the number of managers used. This resulted in a drop in the number of individual properties held, including properties with LEED certification.

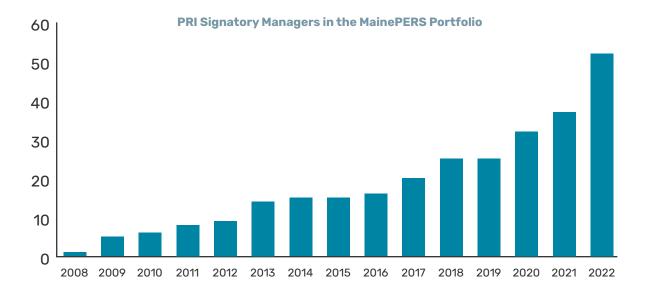


PRI | Principles for Responsible Investment

PRI is a UN-supported organization that works with investors and asset managers around the world. PRI signatories commit to incorporating ESG issues into investment analysis and asset ownership and to appropriate levels of ESG-related disclosures.

As shown below, the number of managers in the MainePERS portfolio that have signed on to these Principles for Responsible Investing has grown steadily over time.

As of fiscal year end 52 managers, with investment responsibility for over 81% of MainePERS assets, were PRI signatories, up from 37 managers and 70% last year.



ESG METRICS, CONTINUED

Environmental Metrics

The development and reporting of ESG-related metrics continues to evolve, and such metrics are primarily available only for publicly listed companies. In this section we provide environmental metrics for the public equity portion of MainePERS' portfolio. This reporting will be expanded in future years as these metrics become more widely available for additional asset classes.

As discussed earlier, MainePERS employs an indexing approach to its public equity investments. This approach allows MainePERS to obtain broad exposure to global stock markets at very low cost. By "buying the market", MainePERS is invested in the shares of over 5,000 companies spread across 50 developed and emerging markets. As a

result, the characteristics of MainePERS' equity holdings mirror those of the benchmarks that the portfolio tracks. For example, the US Equity portion of the portfolio is indexed to the Russell 3000 Index. This means that the features and characteristics of MainePERS' US equity holdings match those of the index. For example, if aggregate price-to-earnings (P/E) ratio of the index equals 23, then the US portion of Maine-PERS' equity holdings will also have a P/E ratio of 23. This correspondence also holds for other features, including ESG-related metrics.

The below table contains commonly available environmental metrics for those global equity benchmarks to which MainePERS's equity portfolio is indexed.

	Russell 3000 Index	MSCI All Country World Index ex U.S.
Total CO2 Emissions / \$1m invested ¹	95	209
Emissions Intensity ²	175	263

- (1) Annual tons of Scope 1 and Scope 2 CO2 equivalent emissions per \$1m invested value.
- (2) Annual tons of Scope 1 and Scope 2 CO2 equivalent emissions per \$1m revenue.



ESG METRICS, CONTINUED

As of 6/30/22, MainePERS held \$2.8 billion of U.S. equities and \$1.8 billion of non-U.S. equities, which represents approximately 0.007% of the total value of these indexes. Applying these dollar amounts to the benchmark metrics contained above allows us to estimate the total CO2 equivalent emissions (Scope 1 and 2) related to MainePERS public equity investments as 642,200 metric tons. MainePERS' portfolio metrics, both environmental and otherwise, should be viewed as being in line with global benchmarks, since we are invested in benchmarks that effectively comprise all companies listed in global markets other than "frontier" markets.

MainePERS ESG Practices

MainePERS participates in numerous ESG initiatives and organizations:

Ceres: A leading nonprofit promoting a sustainable future.

Thirty Percent Coalition: A coalition working to increase diversity on corporate boards.

Principles for a Responsible Civilian Firearms Industry: Established in 2018, MainePERS supported development of five principles encouraging companies in the civilian firearms industry to address gun safety issues.

International Corporate Governance Network (ICGN): an organization that sets industry standards for corporate governance and investor stewardship.

Carbon Disclosure Project (CDP): a nonprofit disclosure platform that allows companies, cities, and states to report on climate change, water, and deforestation data.

2022 HIGHLIGHTS:

Two members of the MainePERS Investment Team began working toward the CFA Institute's Certificate in ESG Investing. The program educates candidates on how to incorporate Environmental, Social, and Governance factors into investment analysis.





Board Responsibilities - Investments and Administration 2.6 - Environmental, Social and Governance Policy

Date Adopted. 1/8/15

Date Amended: May 11, 2017; November 18, 2021

Policy

The MainePERS Board of Trustees considers material environmental, social, and governance (ESG) risks and value creation opportunities critical for inclusion in its due diligence and ongoing monitoring of investments subject to its fiduciary duties, constitutional requirements and in accordance with laws and regulations. The MainePERS Board of Trustees directs the Chief Executive Officer and MainePERS Investment Team to incorporate ESG considerations into all investments considered or made by MainePERS following the adoption date of this policy, and to examine opportunities for ESG integration in existing investments.

MainePERS acknowledges that it will not always be feasible to ensure a particular investment's integration of ESG considerations, especially in cases where MainePERS is a minority owner and has limited ability to influence the organization. In these cases, the MainePERS Investment Team shall engage organizations with which it currently invests to strongly consider relevant ESG-related issues. In addition, MainePERS will consider its ability to influence ESG considerations when weighing prospective investments.

The MainePERS Board of Trustees shall annually review implementation of this policy and update or revise this policy as appropriate.

This policy shall also apply to investment consultants hired by MainePERS to provide guidance on investment due diligence matters.

Statutory/Legal Provisions

- Me. Const. art. IX § 18
- 5 M.R.S. §§ 1957, 17102 and 17103

ESG POLICY, CONTINUED

Roles and Responsibilities

The Chief Executive Officer shall ensure that the MainePERS Investment Team integrates this policy into the investment due diligence process. The MainePERS Chief Investment Officer and Deputy Chief Investment Officer shall ensure that material ESG issues are continually reviewed, revised and integrated by the investment team in the due diligence process. A report describing the implementation of this policy, including recommendations for updates or revisions to this policy, will be provided to the Trustees at the December Board meeting each year. The report must also include commonly available environmental performance metrics on the environmental effects of MainePERS' investments.

ESG Due Diligence

MainePERS believes that organizations that understand the benefit of and openly practice sound environmental, social and governance business practices create strong business models and investment opportunities. Consistent with its fiduciary duties, constitutional requirements and in accordance with laws and regulations, MainePERS shall:

- 1. Maintain awareness of new and existing key ESG considerations and their impact on investment valuation, and update the due diligence process used to identify material ESG issues accordingly.
- 2. Examine and understand each potential or existing investment's material ESG risk exposure and use this knowledge when evaluating potential investments and during the duration of investment ownership.
- 3. Be accessible to, and engage with, relevant stakeholders.
- 4. Encourage and support the adoption and implementation of sound environmental, social, and governance practices by companies and managers in which MainePERS invests.
- 5. Encourage governance structures that provide appropriate levels of oversight in the areas of audit, risk management, and potential conflicts of interest.
- 6. Encourage MainePERS investments, and MainePERS business partners to commit to aligning their operations and strategies with the United Nations Global Compact's principles regarding human rights, labor, environment, and anti-corruption.
- 7. Provide timely and transparent information accessible by stakeholders on the matters addressed in this policy.



2.7 - Engagement

Date Adopted: February 11, 2016 Date Amended: October 11, 2018

Policy

MainePERS is the fiduciary for funds it is assigned to manage. MainePERS shall be a good steward for the funds entrusted to it, managing and investing these funds as a "prudent investor" in accordance with the "exclusive benefit rule" and the laws and Constitution of the State of Maine. MainePERS shall also promote the long-term success of companies with which the System invests through engagement activities.

Statutory/Legal Provisions

- Me. Const. art. IX, § 18.
- 5 M.R.S. §§ 17102, 17103, 17435; 18-B M.R.S. § 801, et seq. (Maine Uniform Trust Code); 18-B M.R.S. § 901, et seq. (Maine Uniform Prudent Investor Act).
- 5 M.R.S. §§ 17153(4).
- Restatement (Third) of Trusts § 78(1) (2007) (the "sole interest rule").
- The Employee Retirement Income Security Act ("ERISA"), codified at 29 U.S.C. § 1002, et seq., provides a description of the standard of care that applies to trustees of private sector retirement plans. Although the System as a public retirement plan is not specifically governed by the fiduciary duty standard set forth in ERISA, courts will often consider the standard set forth in ERISA when addressing public pension plan issues. Under ERISA, a fiduciary must act with the care, skill, prudence and diligence under the circumstances then prevailing that a prudent person (expert) acting in a like capacity would act. This statutory standard is derived from the common law of trusts, which is applicable in the State of Maine.

ENGAGEMENT POLICY, CONTINUED

Engagement

Engagement is encouraging long-term success and growth of publicly traded companies with whom MainePERS invests through activities such as:

- Direct engagement
- Participating in or sponsoring shareholder litigation
- Proxy voting

DIRECT ENGAGEMENT

MainePERS will maintain a direct engagement effort consistent with the need for and resources available to encourage the publicly traded companies in its portfolio to achieve long term growth and success, balancing the long term focus of good stewardship with the short term challenges the company faces. Direct engagement opportunities may be based on continuous monitoring of its investments including investment analysis, trade publications, trade organizations, or coordination with other institutional investors.

Direct engagement includes written and oral communication to companies, including attending shareholder meetings and sponsoring shareholder resolutions in unusual circumstances.

SHAREHOLDER LITIGATION

MainePERS will participate in shareholder litigation only to the extent that participation is likely to benefit MainePERS members as pension beneficiaries. MainePERS generally will not assume the role of lead plaintiff in a securities class action unless no other investor with interests similar to MainePERS and sufficient resources to support the litigation is willing to serve as lead plaintiff and the System otherwise will lose the benefit of the litigation to members.

PROXY VOTING

MainePERS will vote its proxies in the best interests of its members as pension beneficiaries. This will generally mean focusing on good stewardship by the companies with which MainePERS invests, including:

- Voting to optimize each company's value to shareholders, balancing the long-term focus of good stewardship with the short-term challenges the company faces. Good stewardship includes establishment of effective governance and management practices, responsibility to employee and customer welfare, and responsibility to the environment;
- When there is a conflict between long- and short-term interests, voting shall be in favor of proposals that maximize shareholder control consistent with effective business operations of the company;
- Refraining from voting to further the interests of any group other than the best interests of MainePERS members as pension beneficiaries.

ENGAGEMENT POLICY, CONTINUED

The Executive Director and Chief Investment Officer shall implement this direction by engaging a proxy voting agent to vote shares of stock owned by MainePERS. The MainePERS investment team shall create, maintain, and update general guidance in the following areas that the proxy voting agent can use to map to proxy votes available to MainePERS:

- Management resolutions
 - Elections of officers
 - Ratification of auditors
 - Governance structure and shareholder rights
 - Compensation
- Shareholder proposals
 - Environment
 - Social matters
 - Governance
 - Compensation
- Mergers and proxy contests

The MainePERS Investment team shall work with the proxy voting agent to determine Maine-PERS' position on proxies not directly covered by the implementation guidance. The Investment team shall monitor the proxy voting agent's implementation of the MainePERS guidance and report semi-annually to the Board of Trustees. The Board may meet with the proxy voting agent from time to time to discuss MainePERS' votes.

