

The Clean Energy Investment Gap

In order to limit global warming to 2°C and avoid the worst effects of climate change, the world needs to invest an additional \$44 trillion in clean energy—more than \$1 trillion per year for the next 36 years. In 2012, the total global investment in clean energy was only \$281 billion—far short of what is needed. In 2013, that number was likely even lower.

Annual Investments in Clean Energy to Reach 2°C Goal:

Goal by 2030: \$1T

Quadruple to \$1 Trillion

Goal by 2020: \$500B

Double to \$500 Billion

2012: \$281B

2012 Global Investment in Clean Energy (Source: Bloomberg New Energy Finance)

The Clean Trillion* Opportunity

Investing in clean energy can be a pathway to profit and prosperity, boosting global economic growth and creating jobs while providing competitive returns to investors and strengthening companies' bottom lines. And most importantly, investing in clean energy will accelerate our critical transition to a low-carbon economy.

Our Goal

Ceres envisions a low-carbon future—a future that does not require making a choice between protecting the environment and growing the economy. Closing the clean energy investment gap will require:

- Doubling investments in clean energy to \$500 billion per year by 2020
- Quadrupling investments in clean energy to \$1 trillion per year by 2030

Meeting the clean energy goal will only be possible if businesses, investors and policymakers join forces to make the Clean Trillion a reality.

^{**} Clean Trillion defines the clean energy universe based on the definition used by Bloomberg New Energy Finance (BNEF), which includes the following sectors: all electricity-generating renewables (wind, solar, marine and small hydro, geothermal, biomass & waste), biofuels, energy smart technologies (including digital energy, power storage, hydrogen, fuel cells, advanced transportation and energy efficiency on both the demand and supply side), as well as clean energy services and carbon capture and storage technology.

Clean Trillion Opportunities for Leadership

Businesses must invest in clean energy solutions throughout their operations, such as:



- ◆ Reducing greenhouse gas emissions by 25% by 2020
- ◆ Reducing electricity demand by at least 15% by 2020
- ◆ Obtaining at least 30% of energy from renewable sources by 2020
- ◆ Supporting policies that expand investment in clean energy

These goals are consistent with the Ceres Roadmap for Sustainability. For details, download the Roadmap at www.ceres.org/roadmap

Investors must increase investments in clean energy & accelerate the transition to a clean energy economy by:



- ◆ Doubling annual investments in clean energy by 2020 and quadrupling annual investments by 2030
- Managing climate risks in their portfolios
- 1 Investing in clean energy opportunities that offer competitive risk-adjusted returns across asset classes
- ◆ Developing capacity to boost clean energy investments and consider setting a goal such as 5 percent portfolio-wide clean energy investments
- Engaging with companies to improve their practices on clean energy and climate change
- ✓ Supporting policies that expand investment in clean energy

For detailed recommendations related to clean energy investment, download Ceres' whitepaper "Investing in the Clean Trillion" at www.ceres.org/cleantrillion

Policymakers must level the playing field by adopting policies that accelerate & expand investment in clean energy. Companies & investors should advocate for:



- ◆ Policies that stimulate investment in energy efficiency, renewable. energy and clean transportation
- Policies that put a limit and price on greenhouse gas emissions
- ◆ A new global climate change agreement by 2015

Learn more about how Ceres is working with companies and investors to close the clean energy investment gap at: www.ceres.org/cleantrillion

