# Demonstrating Global Leadership in Sustainability

How Intel® Is Making an Impact

A vast majority of companies are reflecting—and acting—on sustainability initiatives, and with good reason. Climate change is accelerating, and it will take significant changes to existing sustainability processes to make a real difference in our environment.[1] In fact, Forrester found that sustainability is a top goal for most company decision makers.[2]

IT decision makers (ITDMs) also play a critical role in executing on sustainability goals for their companies. Nearly 60% are tasked with evaluating the sustainability of vendors they work with.[3] ITDMs are looking to device vendors like Intel to meet their requirements, even assigning a "green team" to help define PC device choices.

A Holistic Approach to Sustainability

To meet sustainability goals of limiting emissions and improving energy efficiency, reducing waste, and protecting our water supplies, companies need to look at their entire business. At Intel, we've been setting holistic sustainability goals long before sustainability became popular. Today, there's a renewed urgency to our efforts.

Sustainability is considered in everything we do. Since we manufacture most of our products in our own wafer fabrication facilities, we can embed sustainable practices within our manufacturing processes. We consider environmental impact when we select sites, design buildings, and set performance levels for manufacturing tools and goals for production processes, all while responding to our stakeholders' needs.

We are reimagining the way we design, develop, source, and deliver Intel products, tools, and services. Intel infuses sustainability into every role in the company, including linking a portion of executive and employee compensation to corporate responsibility factors. We recently named a chief sustainability officer (CSO) to lead initiatives and drive continuous improvements with our suppliers.

We also believe we can't achieve sustainability goals alone. We work on forming strategic alliances with governments, other companies, suppliers, nonprofits, and those who use Intel products as we invest in conservation projects that help them reduce their environmental footprint.

Intel's goal is to be a global leader in sustainability. And, in turn, enable our customers and others to reduce their environmental impact through our actions and technology.

Don't take our word for it. Learn how Intel has made significant progress toward our RISE sustainability goals in the critical areas of water, climate, and waste.[4]

INTEL'S 2030 RISE GOALS

✓ Net positive water

✓ 100% renewable energy

✓ Zero waste to landfill

Water

Our Goal

Net positive water globally by 2030.

Our Results So Far

In 2021, Intel conserved 9.3 billion gallons of water in its operations and enabled restoration of 2.3 billion gallons through watershed restoration projects.[5]

Our Approach

One part of our net positive water initiative is to form strategic alliances with local communities and municipalities to fund projects that restore water to watersheds such as these:

- **Wicklow Mountains National Park Blanket Bog**
  Intel plans to re-wet close to 150 acres of degraded peat bog in Ireland and aim to increase water storage levels by an estimated 13 million gallons per year.

- **Agua Tica Forest Protection**
  Intel will help restore up to 46 million gallons of water per year in Costa Rica by offering incentives to landowners to avoid converting forests and enable natural and assisted regeneration, sustainable agricultural practices, agroforestry systems, and reforestation.

- **15-Mile Reach Flow Restoration**
  Intel restored 226 million gallons of water in Colorado by passing water through hydropower turbines.[6] The project supports fish and wildlife, and the flow helps run a hydroelectric power plant.

Climate

Our Goal

Run 100% on renewable energy by 2030.

Our Results So Far

We've achieved 80% renewable electricity globally (100% in the U.S., Europe, Israel, and Malaysia) and purchased 30 billion kWh of renewable electricity— enough to power 2.8 million U.S. households for one year.[7]

Our Approach

Part of our green energy strategy is to operate on-site alternative electricity projects and enhance our products to use less energy. Here's a few of our successes:

• We power our buildings using a variety of technologies, such as solar hot and cooling water systems, solar electric photovoltaic-covered parking lots, and mini bio-energy, geothermal energy, and micro wind turbine array systems.
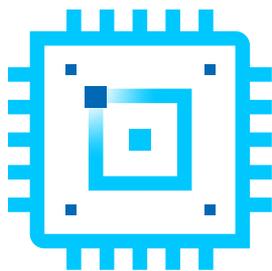
• We continue to build energy efficiency into products to produce higher performance per watt and reduce Scope 3 emissions, including increasing product energy efficiency 10-fold for Intel client and server microprocessors.

• We are developing advanced liquid cooling technologies that reduce the burden on data center air conditioners and reuse exhaust heat.

Waste

Our Goal

Zero total waste to landfill by 2030.

Our Results So Far

In 2021, we sent only 5% of total waste to landfill.[8]

Our Approach

We focus on reuse, recovery, or recycling by applying circular economy practices to 65% of our manufacturing waste streams. That's about 133,000 metric tons. Here's how we're aiming at getting to zero waste:

- We're investing in segregating constituents of our spent solvent waste to help make it easier for our waste vendors to refine high-value solvent and resell it as a raw material. This will also reduce the amount of fossil fuel combustion required for the distillation process by more than 50%.

- We send sulfuric acid wasted from manufacturing operations to an off-site facility to turn it into technical grade sulfuric acid that we use in on-site wastewater treatment systems.

- By 2025, we aim to make 95% of the materials used in our new product packaging designs recyclable or reusable.

Pushing the Limits of Circular Design: Concept Luna

Reuse, recovery, and recycling have a significant impact on the amount of waste sent to landfills. But what if we used circular design principles to build products that could be reused multiple times and then recycled when the material is no longer usable in its current form?

Concept Luna is a proof-of-concept design that revolutionizes how we manufacture products and could potentially reduce the overall product carbon footprint by 50%.[9] It's just one of the innovations that we're exploring to accelerate our timeline to meet our sustainability goals.
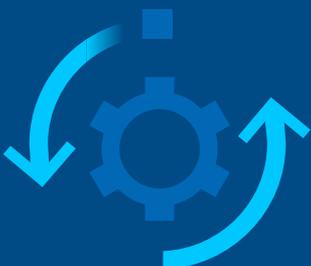
While we've made significant progress toward our RISE sustainability goals, we recognize that there's more work to do. We pledge new process technology and architecture improvements to deliver green products. We will continue to reuse, recover, and recycle waste. And we will continue to return more water to the environment than we use.

Intel® is committed to incorporating sustainable practices at every level of the supply chain. Learn more:
Corporate Responsibility and Strategy Goals.

Sources

[1] Intergovernmental Panel on Climate Change/United Nations, "**IPCC Sixth Assessment Report**," 2021.

[2,3] Forrester Consulting, "**Sustainability Priorities Resonate Throughout Corporate IT Strategy, Operations, and Purchasing**," January 2022. Intel commissioned Forrester Consulting to conduct an online survey of 607 respondents at the director level and up for organizations in North America, EMEA, and APAC with responsibility for technology selection strategy and PC device investment at their organization. All organizations surveyed had an environmental, social, and corporate governance (ESG) program and 95% had ESG criteria for purchasing end-user devices.

[4-8] Intel, "**Corporate Responsibility Report 2021-22**," January 22, 2022. Intel prepared this report in accordance with the **Global Reporting Initiative** (GRI) Standards: Comprehensive option. A GRI Content Index is provided on its **Report Builder** website. Intel also uses other recognized frameworks to inform the content of this report, including the Sustainability Accounting Standards Board Standards, the Task Force on Climate-Related Financial Disclosures framework, the UN Global Compact, and the UN Sustainable Development Goals.

[9] Dell Technologies, "**Pushing the Boundaries of Sustainable PC Design: Concept Luna**," December 14, 2021. Baseline used for comparison is Dell Latitude 7300 Anniversary Edition.