



Supplier Clean Energy

Program Update

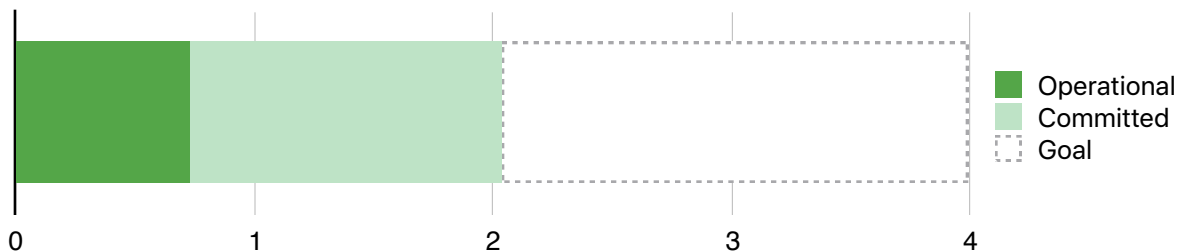
April 2017

We launched Apple's supplier clean energy program in October 2015. Our aim is to reduce the carbon footprint of our manufacturing by helping our partners become more energy efficient and by transitioning our entire supply chain to 100% clean energy.

Our 2020 Goal

As part of our clean energy program, Apple and our suppliers will generate and source from more than 4 gigawatts of new clean energy worldwide by 2020. This includes bold commitments by manufacturing partners to power all of their Apple production with 100 percent renewable energy, other clean energy projects by suppliers who have not yet committed to 100 percent clean energy, and Apple projects. To date, Apple has installed 485 megawatts of wind and solar projects across six provinces of China to address upstream emissions that are beyond the influence of our direct suppliers. Below is a snapshot of progress to date by Apple and our suppliers.

Progress toward 4 GW



To date, seven suppliers have committed to 100 percent clean energy for Apple production. In addition, Apple has installed 485 megawatts of wind and solar projects across six provinces of China.

Supplier Commitments

The following suppliers have demonstrated significant leadership by committing to 100 percent renewable energy for all Apple production by 2018. Some have already implemented projects that are generating clean energy today, while others are making great progress constructing new projects or identifying power purchase options to meet their commitments. We will update this list as new suppliers make 100 percent renewable energy commitments.

- Biel Crystal Manufactory Ltd.
- Catcher Technology
- Compal Electronics
- Ibiden
- Lens Technology
- Solvay Specialty Polymers
- Sunwoda Electronics

Supplier Projects

We're working with our suppliers to ensure that the projects they select have the greatest potential for impact. For these projects, we aim to displace fossil fuel-based energy sources, demonstrate additionality—meaning create new clean energy that adds to the energy sources already delivering to the grid—and, wherever possible, require stringent accountability to ensure no double-counting. The most additional and impactful solutions often take time to build, and each supplier is making great progress toward meeting its commitment to 100 percent renewable energy for all Apple production by the end of 2018. The following describes the commitments made to date.

Biel Crystal Manufactory Ltd.

Biel, one of Apple's major glass suppliers, has committed to 100 percent renewable energy by year end 2018. It has already contracted 50 percent of its energy to come from wind and solar and will increase this to 100 percent in 2018. Going one step further, Biel is also building out a 5MW onsite roof-top solar system in 2018. And, in the long term, it is planning to build a 100 MW offsite renewable energy system.

Catcher Technology

Catcher is one of Apple's largest aluminum enclosure suppliers. Its target is to power 100 percent of its production of Apple components with renewable energy by 2018. This will avoid nearly 600,000 metric tons of greenhouse gas emissions each year, equivalent to removing nearly 125,000 passenger vehicles from the road every year.

Compal Electronics

Compal will achieve its goal of 100 percent renewable energy for Apple production by 2018. Compal, which produces iPad, is starting with constructing rooftop solar on its facilities across China starting in Nanjing. These projects are expected to total over 12 MW across 224,000 square meters of rooftop.

Ibiden

Ibiden, a provider of integrated circuit substrates, is investing in more than 20 new renewable energy facilities, including one of the largest floating solar photovoltaic systems in Japan. The state-of-the-art 12 MW floating system is constructed on a converted lumber yard to maximize land use in the country.

Lens Technology

Lens, one of Apple's major glass suppliers, has committed to power all of its glass production for Apple with 100 percent renewable energy by 2018. Lens plans to meet its goal through an unprecedented power purchase agreement with local wind projects. Wind energy will cover 100 percent of the energy consumed producing Apple products at Lens facilities by 2018, avoiding nearly 450,000 metric tons of carbon dioxide each year, equivalent to the energy use in 380,000 Chinese homes.

Solvay

Solvay Specialty Polymers, a business unit of Solvay and supplier of materials used on antenna bands in iPhone, has committed to 100 percent renewable energy for Apple production across 14 manufacturing facilities in seven countries: China, Belgium, France, Germany, Italy, India, and the United States. Solvay recently entered a purchase agreement for 15 years from a 70 MW solar farm in South Carolina. Once the project is completed, it will be the largest solar farm in the state.

Sunwoda

Sunwoda is Apple's first battery supplier committed to achieving 100 percent clean energy for Apple production by 2018. Sunwoda has built a 50 MW solar farm in central Henan Province, China, of which a portion will be dedicated to Apple manufacturing. Sunwoda pursued this investment because of the environmental and economic benefits of clean energy.