

Helping Solve Global Environmental Issues

Summary of our initiatives

Panasonic has long addressed global environmental issues as a public entity of society, beginning with the establishment of our Environmental Charter in 1991. In tackling the issue of climate change, in 2017 we formulated the Panasonic Environment Vision 2050 and then in May 2021 we newly committed to achieving zero CO₂ emissions at all operating companies by 2030 as a milestone towards realizing the 2050 vision. We aim to be the top runner from the perspectives of both our inherent value of our products and the environment, thus becoming a global leader in making huge contributions to solving issues of climate change. Taking up this challenge will also lead to a further improvement of Panasonic's business competitiveness.

Panasonic Environment Vision 2050 (announced June 2017)

To achieve "a better life" and "a sustainable global environment," Panasonic will work towards the creation and more efficient utilization of energy which exceeds the amount of energy used, aiming for a society with clean energy and a more comfortable lifestyle.

Energy used < Energy created

Energy used

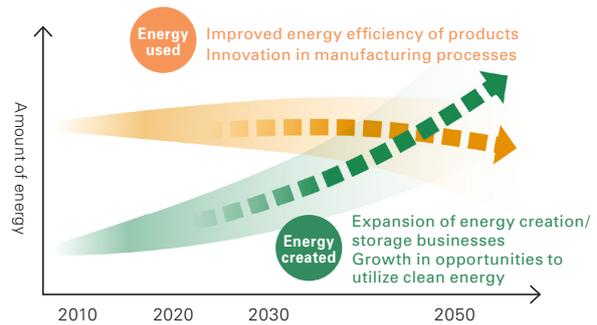
Energy used in business activities and by products and services made from such activities

Energy created

Clean energy created and used in business activities and by products and services made from such activities (photovoltaic power generation, fuel cells*, automotive batteries*, stationary storage batteries*, etc.)

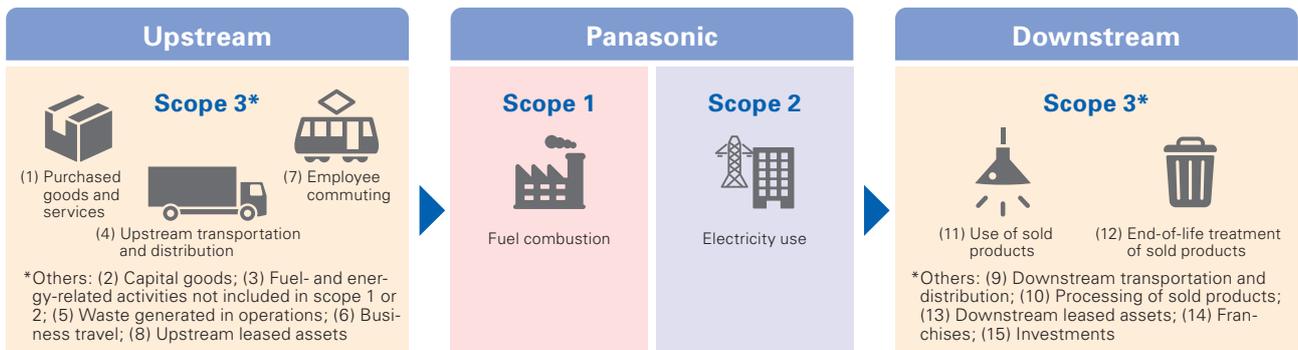
*We anticipate that hydrogen and electricity storage will be used in the future as a source of clean energy that emits no CO₂

Image of realizing the Environment Vision



The Panasonic Environment Vision 2050 applies to all business activities related to Panasonic; namely, the three scopes based on the classifications of the GHG Protocol, a greenhouse gas emission accounting and reporting standard. We have set goals using the indicator "amount of energy," which can be tied to our own businesses, unlike "CO₂ emissions" that fluctuate depending on the mix of power sources and other factors in the electricity supply.

Scope of Panasonic Environment Vision 2050 (scopes 1-3)



Scope 1: Direct GHG emissions by the Company (fuel combustion)

Scope 2: Indirect emissions from the use of electricity or heat and steam supplied from another company

Scope 3: Indirect emissions outside of scopes 1 and 2 (emissions of other companies related to the Company's activities)

Source: Compiled by Panasonic, based on Ministry of the Environment data. *Items (1) through (15) in the charts above represent the scope 3 categories established by the GHG Protocol.

2030 Environmental Target (announced May 2021)

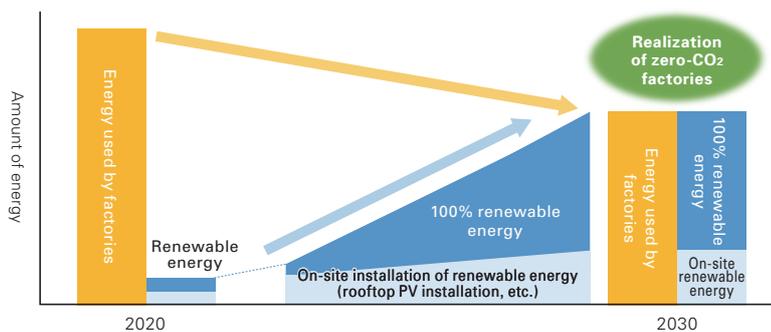
2030: Zero CO₂ emissions at all operating companies

As a milestone towards realizing the Panasonic Environment Vision 2050, we are committed to achieving carbon neutrality by the year 2030, first in scopes 1 and 2—areas in which we can directly control (mainly CO₂ emissions from energy consumption at our plants). We will aim to achieve zero CO₂ emissions by having each operating company step up their efforts to conserve energy, reduce the amount of energy they consume, and continue to expand their use and procurement of renewable energy sources.

In each global region we are working to create zero-CO₂

factories and we already have six factories in four sites with zero-CO₂ status. In addition, at our fuel cell factory in Japan (Kusatsu, Shiga Prefecture) we are promoting an “RE100 solution”; the power generated through a system combining hydrogen fuel cell generators, photovoltaic generators and storage batteries can supply the entire power required for the manufacturing process (full-scale operations will begin in April 2022). These factories will serve as model factories as we look to deploy the know-how across the Group and expand the number of zero-CO₂ factories.

Initiatives for creating zero-CO₂ factories



Key Initiatives

(1) Saving energy

Reducing operating losses

Automated energy control

(2) Utilizing renewable energy

Integrated energy creation-storage linkage system

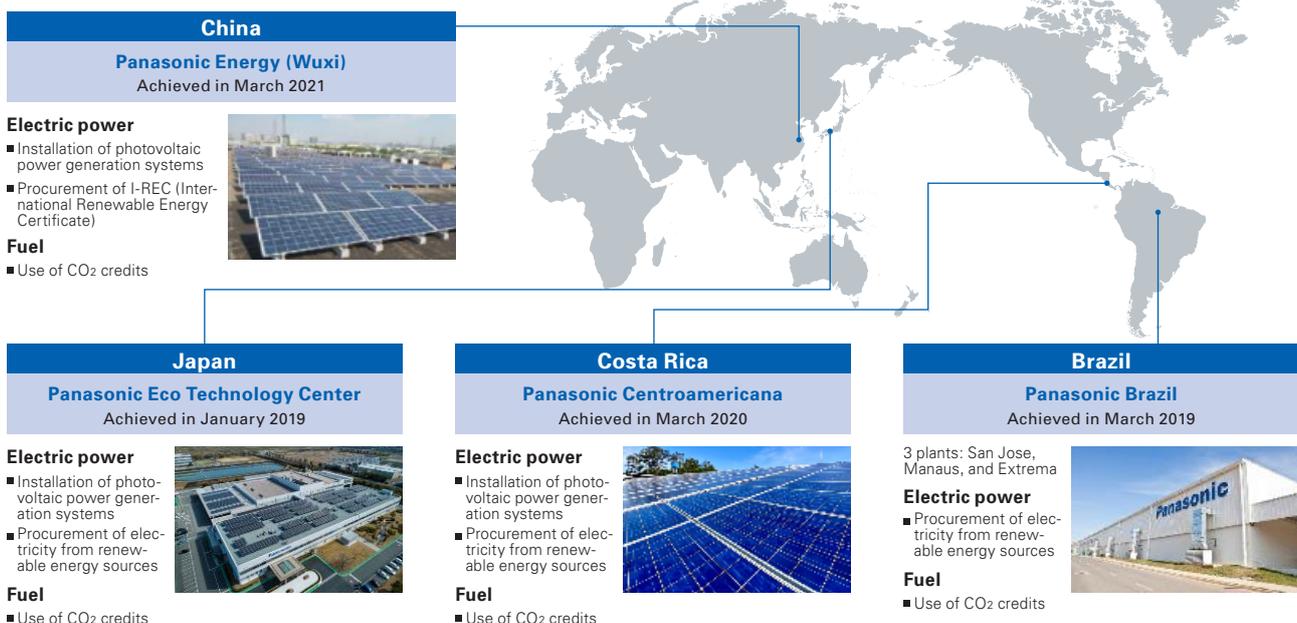
Hydrogen fuel cell solution

(3) Procuring renewable energy

Procuring electricity of 100% renewable energy

Procuring environmental value

Global zero-CO₂ factories



*The European consumer battery plants that were divested in June 2021 are not included.

Please visit the following link for information about the Task Force on Climate-related Financial Disclosures (TCFD) and the Science Based Targets (SBT) initiative.

<https://www.panasonic.com/global/corporate/sustainability/eco/governance/tcf.html>