

ENV1: Produce or Use Renewable Energy

Time of Effectiveness	Mid-Term Long term
Repeatability	90% (18 reports out of 20)
Level of Confidence	9.05/10
Category	Environment
Outcomes	<ul style="list-style-type: none"> Reduced CO2 emissions (Scope 1 and 2) Empower renewable energy producer
Metrics	<ul style="list-style-type: none"> Scope1 CO2 emissions (tons/year) Part of renewable energy in the energy mix (%) kWh of renewable energy purchased (kWh/year) kWh of renewable energy produced (kWh/year)
Problematic	<ul style="list-style-type: none"> Paris Agreement Article 2.b Paris Agreement Article 2.c UN SDG 7: Affordable and clean energy UN SDG 8: Economic growth UN SDG 13: Climate action
Additional Components	NONE

Description

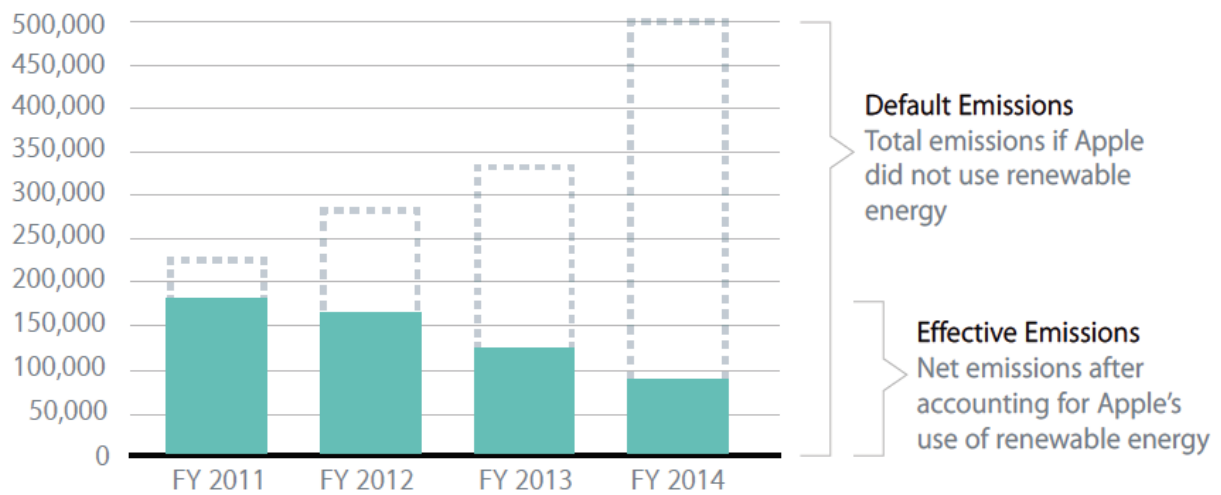
According to all the reports investigated, energy consumption of the IT industry is one of their major issues since it is averagely growing every year for most of them. Moreover, renewable energy production is not democratized around the world, which make their energy consumption becoming the biggest origin of their CO2 emissions.

Therefore, in order to reduce their CO2 emissions, 90% of the companies oriented themselves into renewable energy usage. Most of them are producing it directly on site through solar panel farms for example. If production on site is not possible, then they buy their renewable energy from recognized producers.

Example: Apple (p. 3,6,7,12-16)

In order to reduce their Scope 1 and 2 CO2 emissions, Apple decided to implement a renewable energy consumption policy. This policy consists in producing their own renewable energy on site and allows them to power 100% of their datacenter with 100% of renewable energy, using wind, solar panels, geothermal or fuel cell energy depending on the localization of their datacenter. They provide the energy mix for their datacenter in the report. Their next objective is to power 100% of their retail store with renewable energy as well. On the table below, we can see the outcomes of the implementation of this renewable energy strategy regarding the CO2 emissions of Apple.

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CO2 emissions at Apple per year. Visualization of the outcomes of renewable energy usage