

Renew portfolio

100% renewable energy

Portfolio profile

This portfolio is made up of VERs (Verified Emission Reductions) from 100% renewable energy projects and verified to the Voluntary Carbon Standard (VCS). Renewable energy is a form of energy that is constantly and rapidly replenished by natural resources such as sunlight, wind, hydro, tides, waves, geothermal heat, and biomass.



Types of project included:

Renewable energy

Solar, wind, hydro, geothermal, ocean, and biomass.

Benefits of renewable energy projects:

- Renewable energy has a much lower environmental impact than conventional sources of energy. Unlike finite resources such as fossil fuels, renewable energy is generated from sustainable sources, which are replenished naturally on a scale that can support the consumption rate.
- Renewable energy can be particularly suitable for developing countries - in rural and remote areas, transmission and distribution of energy generated from fossil fuels can be difficult and expensive and using renewable energy locally offers a viable alternative.
- Renewable energy can directly contribute to poverty alleviation by providing the energy needed for creating businesses and employment, as well as energy for cooking, space heating, and lighting, especially in schools and hospitals.

Benefits of buying from a project portfolio:

- Cost effective carbon management
Buying from a mixed portfolio allows clients to invest in a range of emission reduction credits that combine to deliver a cost-effective plan for the management of their carbon offset strategy.
- Flexibility and variety
Choosing to buy from a project portfolio allows clients to offset their emissions through a selection of projects that deliver multiple environmental benefits across a variety of regions, alongside a diversity of sustainability stories that can be used to communicate with stakeholders.
- Breadth of choice
A portfolio approach enables clients to take advantage of our wide network of carbon credit suppliers in order to access the most innovative projects around the world. In addition, clients get the benefit of our buying power to procure the best prices.

Note: For any contracts under 1,000 tonnes, this portfolio may be fulfilled by only one project.

Erbaqu hydro power project

Standard: VCS (Voluntary Carbon Standard) and Green-e Climate

Location: China

Emission reductions:

Located along the Erba Channel of the Dongda River in the Northwestern province of Gansu, this project consists of six run-of-river hydro power stations. The project generates 9.6 MW of clean energy which is delivered to the local grid, displacing electricity which would otherwise have been derived primarily from fossil fuel fired power plants.

Regional background:

China's population is expected to reach nearly 1.4 billion by 2026 and its emissions of energy-related greenhouse gases will grow more than the rest of the world's combined increase by 2020. This project avoids the atmospheric pollution and fly ash disposal issues associated with coal which is the predominant source of energy in China.

Additional benefits:

Alongside the environmental benefits, 300 jobs have been created as a result of the project. The local community has also benefited from road upgrades as a consequence of the project's development. A number of initiatives have been introduced to increase safety and minimise landscape disturbances, including waste-water management during construction, post-construction tree planting and roadside improvements.



Rio ceramics biomass project

Standard: VCS (Voluntary Carbon Standard) and Social Carbon

Location: Brazil

Emission reductions:

This project replaces heavy oil with renewable biomass to generate energy at three ceramic brick manufacturing facilities in the state of Rio de Janeiro, Brazil.

Before the implementation of this project, these facilities were using 4.1 million litres of oil a year to produce around 60,000 tonnes of ceramics. The facilities now use two types of biomass to fuel their kilns: wood residue, such as sawdust, which is usually discarded as waste, and wood from sustainable afforestation sites. As this wood is supplied by plantations where the removed trees are replanted, it is considered a renewable energy source.

Regional background:

Brazil is the world's third highest emitter of greenhouse gases (GHGs) and its population has more than doubled in the last 40 years which has increased the demand for raw materials and energy. Sustainable manufacturing projects like this one are vital to help stem the GHGs from the increasing demands of Brazil's development.

Additional benefits:

Through this project a number of employment and training opportunities have been created including 36 temporary construction roles, nine permanent operating roles and training on the new equipment. In addition, the project owner supports a number of local charities and through an onsite well, makes water available to the local community.

