



Profile



Track Record

Carbonergy and its international partners (see image below) have worked in many countries of the world in the areas of energy, environment, mitigation of carbon emissions, and the carbon market. Our clients have come from the private sector, government, the United Nations (UN), and academia. The following (in alphabetical order) have been among our most recent international clients:

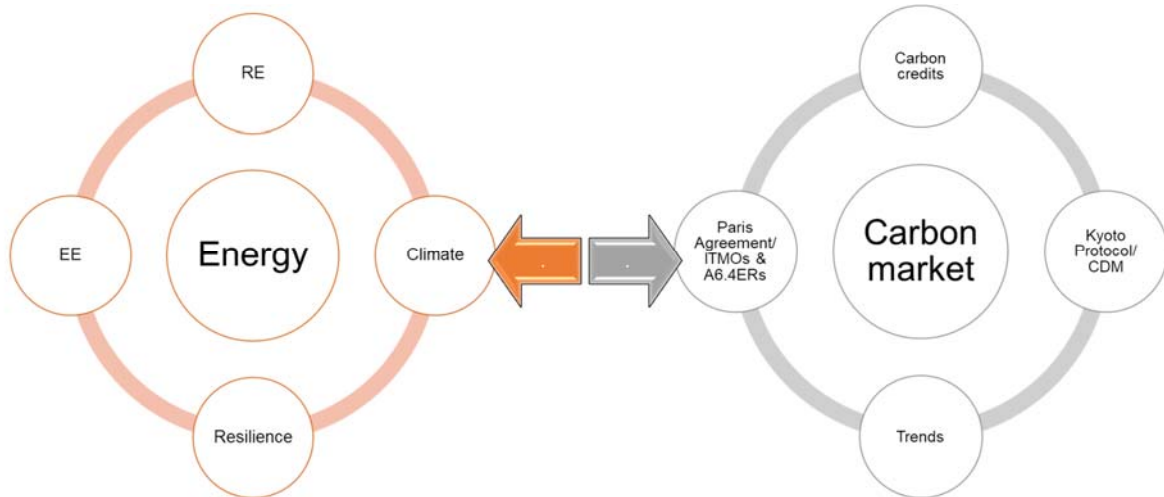
- Asian Development Bank (ADB);
- Kreditanstalt für Wiederaufbau (KfW)—German development agency
- Swedish Energy Agency (SEA);
- United Nations Development Programme (UNDP);
- World Bank; and
- United Nations framework Convention on Climate Change (UNFCCC).

Figure 1: Our international partners

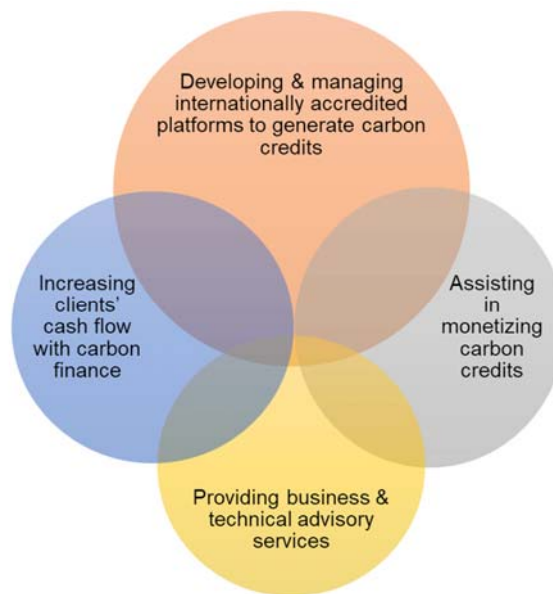


Carbonergy is a Philippines-based company that works closely with an international group of highly-qualified experts in the energy, environment, mitigation of carbon emissions, and carbon market areas. Collectively, we have developed, managed & implemented numerous programmes and projects worldwide on behalf of donor and UN agencies supporting: the Kyoto Protocol (Clean Development Mechanism (CDM)); Nationally Appropriate Mitigation Actions (NAMAs); Paris Agreement (Nationally Determined Contributions (NDCs) and Monitoring Reporting and Verification (MRV) systems); and the voluntary carbon markets. We have also provided technical support to the UNFCCC and the Intergovernmental Panel on Climate Change (IPCC).

Figure 2: Our strengths



We think globally but act locally



The team has *inter alia*: undertaken due diligence assessments/ analyses and provided technical and policy support services to clients on a range of projects in many developing countries. We have also assisted project developers to gain access to the carbon market by preparing their projects to generate carbon credits under various schemes, including the CDM and have developed and manage two CDM Programmes of Activity (PoAs) providing developers with business and technical support through all processes related to the generation, issuance and sale of carbon credits.

The team has assisted many government agencies, academic institutions, NGOs and businesses in developing countries through the processes of general awareness-raising, and reviews of capacity needs and project opportunities.



We have, in addition, provided advisory and consulting services, *inter alia* to the European Union and the Austrian, Portuguese and Swedish governments in climate policy development, the development of the CDM mechanism and related project identification, and been project developers and/ or experts for several UN agencies (e.g. ADB, UNFCCC, IPCC, World Bank, UNIDO, UNEP, UNDP), other agencies (e.g. REEEP, Stockholm Environment Institute, IETA, CTI), and educational institutions (Chalmers University of Technology, Lund University, the Swedish Foundation for Strategic Environmental Research, and the Institute for the Rational Use of Energy in Stuttgart).

Our team members have been active in numerous countries in the Africa, Asia, Latin America and the Caribbean, and in Eastern Europe. We have successfully managed our own energy, environmental and carbon consultancy companies for many years.

We have extensive experience with energy efficiency and renewable energy projects, general and project-specific capacity building, information systems and network development and our cumulative experience represents over 100 years of work in the energy-environment-climate change-carbon market nexus. Core group members have excellent professional qualifications including team members with PhD and Masters' degrees. In addition, the team can call upon the expertise and knowledge of a global network of experts from the energy, environmental, carbon and climate change sectors, as well as from the financing and investment communities.

Technical Capacity

The Carbonergy team has:

- Strong technical and analytical skills and lengthy experience with energy, environment and carbon market-related issues;
- A significant track record providing clients with due diligence services on their and third party projects offered for financial support;
- Undertaken research and prepared studies & publications on a range of relevant issues;
- Been involved with the UNFCCC since its early years supporting;
 - The Kyoto Protocol's three 'flexible mechanisms' (CDM, Joint Implementation (JI) and Emissions Trading (ET)) since their inception;
 - Development of the CDM in developed and developing countries at the project as well as at the policy levels through
 - ▶ Training in general and on specifics of the mechanism as well as through 'learning-by-working' CDM project development
 - ▶ Preparing all parts of CDM documentation and assisting in validation and verification
 - ▶ Advising business, government & academia
 - ▶ Identification and development of CDM project opportunities and



- ▶ Liaising between producers and ‘offtakers’ of carbon credits (ERPA negotiations, sales/ purchases of carbon credits); and more recently
- Post-Kyoto developments and technical assistance related to NAMAs and the Paris Agreement (NDCs, MRV).

Sectoral Scopes

The Carbonergy team has technical capacities *inter alia* in the following areas (alphabetical order):

- Biofuels/ waste-to-energy (including liquid fuels, biogas & biomass);
- Carbon footprinting & emission offsetting;
- Climate policy;
- Co- and tri-generation/ combined heat & power (CHP);
- Corporate & project finance advisory and capital raising for the energy sector;
- Data management;
- Due diligence assessments;
- Energy efficiency (industrial and commercial e.g. lighting);
- Environmental impact assessment;
- Financial & economic analysis;
- Grid emission factors;
- Landfill/ municipal solid waste management;
- Methodology development & review;
- Negotiation of carbon purchases/ sales;
- Oil & gas industry;
- Project development & management;
- Renewable energy (hydropower, wind and solar energy);
- Solar PV advisory services and installation with EPC partners.

Services

With our multi-faceted team, we can assist you in (alphabetical order):

- Baseline. Developing your project baseline;
- Capacity building. 'Learning-while-working'/ developing actual projects;
- Carbon credits. Negotiating contracts to sell carbon credits;
- Carbon footprint. Determining what it is;



- Carbon neutrality. Designing measures for you to become carbon neutral;
- CSR. Increasing the value of your business through sustainable development investments;
- Due diligence. Assessing the ability of a project to generate reported returns to an investor;
- Environmental impact assessment. Reviewing the impact of your project on the environment;
- Financial and economic appraisal. Assist in the IRR analysis of your project ;
- Grid emission factors. Preparing GEFs to determine emission reduction potential.
- Inclusion in our PoA. Preparing your projects for inclusion in our RE2 Grid CDM Programme of Activities;
- Increasing your cash flow. Marketing your carbon credits to get optimum prices;
- Methodologies. Developing & applying a methodology;
- MRV. Developing your monitoring protocol and monitoring and reporting on your emission reductions;
- Offsetting. Sourcing carbon credits to help with your offsetting targets;
- Projects. Taking them through the carbon credit generation processes; and
- Solar PV. Providing economic & business advice + EPC services for installations.

Our prime objective is to help you to develop projects that reduce greenhouse-gas emissions, and to generate added value wherever possible through carbon credits. Such opportunities can be found not only in the energy supply/ utility sector but also in the business, industrial, commercial, agricultural, housing, service industry and transport sectors.

Clients

National donors

Carbonergy and partners have worked with many government donor agencies worldwide and have *inter alia* assisted Austrian, German, Japanese & Swedish clients to undertake due diligence and technical assessment of projects offered to them for financial support and to provide capacity development services to counterparts in developing countries.

Multilateral agencies

Much of the work undertaken by the team has been through technical assistance projects of UN bodies such as the ADB, World Bank, UNDP, UNIDO & the Global Environment Fund.

The team is closely affiliated with the UNFCCC and one partner in the team has served as a member of the CDM Executive Board. Carbonergy and its partners are also developers and reviewers of methodologies and have provided consultancy services to the UNFCCC Secretariat on the CDM process (establishing procedures for the CDM Registry and registration and issuance of carbon



credits (CERs)), as well as the equitable geographic distribution of CDM projects and the Nairobi Framework.

Private sector

The majority of the work however, has been assisting the private sector in the development & submission of energy-related projects, mostly renewable energy, as well as in facilitating the generation, sale & purchase of carbon credits from those projects.

The team has worked *inter alia* with: Standard Bank to support development of CDM components of their clients' projects in Africa; major corporate members of the Business Leader's Initiative on Climate Change (Sweden) to increase their CSR value through carbon footprinting, design and implementation of greenhouse-gas mitigation measures, and carbon offsetting; the private sector in the Philippines developing the RE2Grid Programme of Activities (PoA) in renewable energy. Carbonergy has also initiated a programme providing advice to private sector clients on the costs & benefits of installing solar PV (small- and medium-scale businesses and industry, resorts, residences) and, through engineering partners providing EPC and ESA services.

Regional Focus

Africa

The team has worked on the CDM in 26 sub-Saharan (Anglophone and Francophone) African countries since 1998. Much of the early work focused on creating awareness of the potential for CDM but, in the process, numerous CDM projects were sourced, reviewed and developed to various stages.

Our capacity building activities in Kenya and Tanzania reversed the focus, concentrating on developing CDM projects while 'mentoring' domestic project developers through to the stage of validation readiness. We are currently developing several CDM projects and assisting clients to develop new methodologies and grid emission factors in other countries of the region.

More recently, the team assisted the Nigerian government to address issues (policy, financial & institutional) related to market readiness for NAMAs.

Asia

The team has been similarly active on the CDM in ten Asian countries, including China, India and six in Southeast Asia.

Carbonergy BCS, located in the Philippines, is active in the renewable energy and carbon market there. With its partners, Carbonergy has recently worked for the World Bank in Mongolia assisting the DNA by advising on revisions to their earlier governance framework, structure & procedures. As a follow-up, Carbonergy and partners prepared a project proposal to assist in readying Mongolia for new carbon market mechanisms under a NAMA framework.



Work was also undertaken for KfW in India and the Philippines respectively looking into the market potential for energy efficiency measures in rice mills and hog farms under a CDM Programme of Activity (PoA). Comprehensive PINs were prepared in both cases.

Corporate clients have engaged Carbonergy and partners to include their hydropower and wind projects in the 'RE2Grid PoA' that was registered at the end of 2012 and discussions are ongoing with others interested in the potential of carbon credits from end-user solar PV installations which are being provided through Carbonergy.

In addition, Carbonergy recently initiated a solar PV programme for rooftop installations for small- (e.g. household), medium- (e.g. resorts), and large-scale (e.g. industry) clients in the Philippines, providing business, technology, and monitoring/ reporting advisory services. Our partners provide the engineering, procurement and construction services.

Latin America & the Caribbean

The consortium has been active in seven Latin America/ Caribbean countries so far and is now gearing up its work in the region through our partner company in Grenada (Carbon Finance Solutions) that has been working with CARICOM on various initiatives. In 2012, one of our partners registered an oil-sector PoA in Trinidad and Tobago, for which they will participate collaboratively with a local counterpart in the CME role.

Another partner registered three CDM projects in the sugar industry in Brazil (developed one of the first approved methodologies, designed and registered the projects) and negotiated the sale of carbon credits.

More recently, team members have assisted the government of Trinidad and Tobago through training on NAMA development, and development of an MRV system and were contracted to build capacity and enable investments in renewable energy and energy efficiency as part of supporting implementation of Caribbean NDCs.