



*Carbonergy Business Consultancy Services  
(CBCS)*

# **Profile**



### Track Record

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Carbonergy and its international partners have worked in a wide range of sectors with clients from the private sector, government, the UN and academia in all regions of the world. Key among our most recent international clients have been:

- Swedish Energy Agency;
- Standard Bank;
- World Bank;
- UNFCCC; and
- KfW.

The Carbonergy team is an international group of highly-qualified experts who collectively have developed, managed & implemented numerous energy-, environment- and carbon-related projects worldwide largely through the regulated Clean Development Mechanism (CDM) and the voluntary carbon markets. Our cumulative experience represents close to 100 years of work in these areas. The core group has, in addition, excellent professional qualifications including two members with PhDs and two with two Masters degrees.

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 (see our competencies list). 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. We have also developed and manage 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 (see our project activity list).

We have extensive experience with energy efficiency and renewable energy projects, general and project-specific capacity building, information systems and network development.

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 CDM/JI CDM project identification, and been project developers and/ or experts for several UN agencies (e.g. 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).



## Carbonenergy Business Consultancy Services (CBCS)

Our team members have been active in numerous countries in the Africa, Asia, Latin America and Eastern European regions as can be seen in our competencies and project activity lists. We have successfully managed energy, environmental and carbon consultancy organizations for many years.

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/ investment communities.

### Technical Capacity

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The Carbonenergy team has:

- Strong technical and analytical skills and lengthy experience with energy & environment 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 UN Framework Convention on Climate Change (UNFCCC) since its early years;
- Been active on the Kyoto Protocol, including its three 'flexible mechanisms' (Clean Development Mechanism (CDM), Joint Implementation (JI) and Emissions Trading (ET)) since their inception;
- Supported the 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
  - ▶ Liaising between producers and 'offtakers' of carbon credits (ERPA negotiations, sales/ purchases of carbon credits).

### Sectoral Scopes

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The Carbonenergy 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);



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- 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).

### *Services*

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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 CDM Programme of Activities;
- Increasing your cash flow. Marketing your carbon credits to get optimum prices;
- Methodologies. Developing & applying a methodology;
- Monitoring. Developing your monitoring protocol and monitoring your emission reductions;
- Offsetting. Sourcing carbon credits to help with your offsetting targets; and
- Projects. Taking them through the carbon credit generation processes.



## Carbonenergy Business Consultancy Services (CBCS)

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 sector but also in the business, industrial, commercial, agricultural, housing, service industry and transport sectors.

### Clients

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#### *Governments*

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

#### *Multilateral agencies*

Much of the work undertaken by the team has been through technical assistance projects of United Nations bodies such as the 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. Carbonenergy partners are also developers and reviewers of methodologies and have provided consultancy services to the UNFCCC Secretariat on the CDM process, equitable geographic distribution 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. The team has also worked with 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

Since 2007, partners in the consortium have been working with the private sector in the Philippines and have developed a Programme of Activities (PoA) in renewable energy.

### Regional Focus

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#### *Africa*

The team has worked on the CDM in 26 sub-Sahara (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.



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Our most recent 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.

### *Asia*

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

Carbonenergy BCS, located in the Philippines, is highly active in the renewable energy and carbon market there. With its partners, Carbonenergy has recently worked for the World Bank in Mongolia assisting the DNA by advising on revisions to the current governance framework, structure & procedures. As a follow-up, Carbonenergy 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 Carbonenergy and partners to include their hydropower and wind projects in the 'RE2Grid PoA' that was registered at the end of 2012.

### *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 the US office of one of our partners that has been working with CARICOM on various initiatives. In 2012, one of our partners submitted an oil-sector PoA in Trinidad and Tobago for registration, for which they will participate collaboratively with a local counterpart in the CME role.

A consortium partner worked on three registered CDM projects in the sugar industry in Brazil including development of one of the first approved methodologies, project design, registration and negotiation of ERPA's.