

**carbon**  
**services**

**F A C T O R**

SUCCESS IN CARBON BUSINESS



**Factor AG & Carbon Services:**

**CDM Projects in the Sugar  
Sector**

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# Factor AG

We advise on emissions trading – since 1999



**Carbon Financing**



**Carbon Asset Development**



**Carbon Risk Management**



• Offices / Partners



# Factor Consulting + Management



## Success in Carbon Business

[CARBON ASSET DEVELOPMENT](#)

[CARBON FINANCING](#)

[CARBON RISK MANAGEMENT](#)

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### CARBON ASSET DEVELOPMENT

Realise your emission reductions under the Kyoto Protocol's project based mechanisms. We guide your innovative project through the registration process for CDM and JI. [More >>](#)



### CARBON FINANCING

Find a buyer for your emissions reductions and secure financing for your projects. We facilitate transactions between carbon sellers and buyers, procure emissions reductions all over the world and commit resources to organise financing for your projects. [More >>](#)



### CARBON RISK MANAGEMENT

Assess your company's exposure to carbon-related risks. We advise you on the implications of greenhouse gas regulation and market-based policies, and we support you in developing strategies and tools to manage your carbon risks. [More >>](#)

**FACTOR**  
SUCCESS IN CARBON BUSINESS

# Factor Team

- Over 100 full time CDM and Carbon Finance Experts at Factor AG
- Operations include
  - Headquarters in Zurich, Switzerland
  - Subsidiaries and Partner offices in:
    - China
    - India
    - Brazil
    - Romania
    - Pakistan
    - Germany
    - USA
    - Chile
    - Russia

# Track Record in a Nutshell (as of June 2007)

## Carbon Financing

- Executed transactions from initial offering to final contract
- Transacted with the most credible Buyers in the market
- **Over 15 Mt CO<sub>2</sub> transacted** since 2004 with a market value exceeding € 100 million

## Carbon Asset Development

- **Over 20 registered** CDM Projects
- Over 20 more at validation
- Over 60 projects under development
- Total pipeline exceeding 20 Mt CO<sub>2</sub> to 2012

# We do business with leading global firms...



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## Additionality clause

**A project is additional, if it would not have happend without the incentive from the CERs**

- Identification of alternatives to the project activity;
- Investment analysis to determine that the proposed project activity is not the most economically or financially attractive;
- Barriers analysis; and
- Common practice analysis.

**Investment barriers are the strogest argument for the additionality!!**

# Sources for CERs

- **Renewable power production with biomass**
  - On site power usage
  - Power sales to the grid
- **Renewable heat production**
  - On site heat and steam demand
- **Methane avoidance**
  - From effluent storage in lagoons
  - From high COD-effluent released directly to the runoff ditch
  - From press mud, if it is stored in a lagoon or on piles and left for decay

# Applicable Methodologies

## Renewable power production with biomass

- Small scale
  - **AMS I.D „Grid connected renewable electricity generation“** (no cogeneration)
    - Eligibility limit of 15MW for a small-scale CDM project activity applies only to the renewable component
  - **AMS II.D „Energy efficiency and fuel switching measures for industrial facilities“** (if cogeneration is involved)
    - The aggregate energy savings of a single project may not exceed the equivalent of 60 GWhe per year, equivalent to savings of 180 GWth per year in fuel input
- Large scale
  - **ACM0006 “Consolidated methodology electricity generation from biomass residues”**
    - This methodology is applicable to biomass residue fired electricity generation project activities, including cogeneration plants (greenfield power projects or replacement of existing power production)

# Applicable Methodologies

## Renewable heat production with biomass

- Small scale
  - **AMS I.C “Thermal energy for the user with or without electricity”**
    - The capacity of the project in this case shall be the thermal energy production capacity i.e., 45 MWth;
    - Addition of renewable energy units at an existing renewable energy facility: total capacity of the units added should be lower than 45 MWth and should be physically distinct from the existing units.
- Large scale
  - **AM0036 “Fuel switch from fossil fuels to biomass residues in boilers for heat generation”**
  - Applicable for
    - Retrofit of existing boilers
    - Replacement of existing boilers
    - Installation of new boilers
    - Installation of new boilers and retrofit and/or replacement of existing boilers

# Applicable Methodologies

## Methane avoidance

- Small scale
  - **AMS III.F „Avoidance of methane production in wastewater treatment through replacement of anaerobic lagoons by aerobic systems“**
    - Avoidance of the production of methane from biomass or other organic matter that would have otherwise been left to decay anaerobically in a solid waste disposal site without methane recovery. Prevention through aerobic treatment by composting and proper soil application of the compost, no combustion
  - **AMS III.I „Avoidance of methane production in wastewater treatment through replacement of anaerobic lagoons by aerobic systems“**
    - Anaerobic lagoons (without methane recovery), are substituted by aerobic systems. The Project activity does not recover or combust methane in wastewater treatment facilities (unlike III.H);
  - **AMS III.H. „Methane Recovery in Wastewater Treatment“**
    - Measures that recover methane from biogenic organic matter in wastewaters and utilization of the recovered methane.

# Applicable Methodologies

## Methane avoidance

- Large scale
  - **ACM0014 „Mitigation of greenhouse gas emissions from treatment of industrial wastewater“**
    - This methodology is applicable to project activities that aim at reducing methane emissions from industrial wastewater treatment
  - **AM0025 „Avoided emissions from organic waste through alternative waste treatment processes“**
    - The project activity involves one or a combination of
      - a) a composting process in aerobic conditions;
      - b) gasification to produce syngas and its use;
      - c) anaerobic digestion with biogas collection and flaring and/or its use;
      - d) mechanical/thermal treatment process to produce refuse-derived fuel (RDF)/stabilized biomass (SB) and its use;
      - e) incineration of fresh waste for energy generation, electricity and/or heat.

# Applicable Methodologies

## Methane avoidance

- Large scale
  - **AM0039 “Methane emissions reduction from organic waste water and bioorganic solid waste using co-composting”**
    - The methodology is applicable to project activities that avoid methane emissions resulting from
      - a) anaerobic degradation of the organic wastewater in open lagoons or storage tanks; and
      - b) natural decay of bioorganic solid waste in landfills.

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## Factor Track Record: CDM Projects

Volume t CO2e	Vintages	Host Country	Project Type
300'000	2005-11	India	Biomass energy
61'000	2005-12	India	Biomass energy
500	2004-13	Costa Rica	Biomass energy
960'000	2008-12	Costa Rica	Landfill gas
5'000	2005-11	India	Solar energy
1'900'000	2005-12	Brasil	Landfill gas
1'300'000	2005-12	Brasil	Landfill gas
1'300'000	2006-12	Brasil	Landfill gas
162'000	2004-12	India	Hydro
105'000	2004-12	India	Hydro
200'000	2005-12	India	Hydro
120'000	2005-12	India	Hydro
840'000	2007-12	India	Hydro
90'000	2005-12	India	Biomass energy
50'000	2006-12	India	Hydro
210'000	2007-12	India	Hydro
21'000	2008-12	India	Hydro
150'000	2008-12	India	Hydro
180'000	2007-12	India	Hydro
210'000	2007-12	India	Biomass energy
810'000	2006-12	India	Biodiesel
360'000	2007-12	India	Energy efficiency
189'000	2007-12	India	Biodiesel
90'000	2007-12	India	Energy efficiency

## Factor Track Record: CDM Projects

Volume t CO <sub>2</sub> e	Vintages	Host Country	Project Type
300'000	2007-12	India	Hydro
300'000	2007-12	India	Hydro
84'000	2007-12	India	Hydro
315'000	2008-12	India	Energy efficiency
105'000	2008-12	India	Fuel switch
270'000	2008-12	India	Hydro
840'000	2007-12	India	Hydro
350'000	2006-12	India	Hydro
450'000	2006-12	India	Hydro
1'015'000	2007-12	India	Hydro
560'000	2007-12	India	Biomass energy
280'000	2009-12	India	Biomass energy
280'000	2008-12	India	Biomass energy
105'000	2008-12	India	Hydro
140'000	2009-12	India	Hydro
0	2006-12	India	Fuel switch
315'000	2009-12	India	Hydro
525'000	2009-12	India	Hydro
400'000	2008-12	Mali	Fuel switch
92'000	2007-12	Switzerland	Biomass energy
150'000	2007-12	China	Hydro
400'000	2008-12	China	Hydro
120'000	2007-12	Brazil	Fuel switch
50'000	2008-12	Indonesia	Energy efficiency
50'000	2007-12	Indonesia	Landfill gas
300'000	2008-12	Argentina	Biomass energy
20'000	2007-2012	Nepal	Solar energy

## Factor Track Record: CDM Projects

139'000	2008-12	Romania	Fuel Switch, En.eff.
60'000	2008-12	Romania	Energy efficiency
150'000	2008-12	Romania	Energy efficiency
500'000	2008-12	Romania	Energy efficiency
200'000	2008-12	Romania	Biomass energy
5'000'000	2008-12	Romania	N2O
300'000	2008-12	Estonia	Methane recovery
200'000	2008-12	Estonia	Biomass energy
1'000'000	2008-12	Bulgaria	Biofuel, transportation
175'000	2008-12	Bulgaria	Biofuel, energy efficiency
600'000	2008-12	Bulgaria	Landfill gas
200'000	2008-12	Bulgaria	Methane recovery
650'000	2008-12	Czech Republic	Dist. Heating, Geotherm
238'000	-	Czech Republic	Fuel Switch, En.eff.
247'000	2008-12	Slovak Republic	Energy efficiency
40'000	2008-12	Poland	Energy efficiency
140'000	2008-12	Poland	Energy efficiency
145'000	2008-12	Lithuania	Energy efficiency

## Factor Track Record: CDM Projects

139'000	2008-12	Romania	Fuel Switch, En.eff.
60'000	2008-12	Romania	Energy efficiency
150'000	2008-12	Romania	Energy efficiency
500'000	2008-12	Romania	Energy efficiency
200'000	2008-12	Romania	Biomass energy
5'000'000	2008-12	Romania	N2O
300'000	2008-12	Estonia	Methane recovery
200'000	2008-12	Estonia	Biomass energy
1'000'000	2008-12	Bulgaria	Biofuel, transportation
175'000	2008-12	Bulgaria	Biofuel, energy efficiency
600'000	2008-12	Bulgaria	Landfill gas
200'000	2008-12	Bulgaria	Methane recovery
650'000	2008-12	Czech Republic	Dist. Heating, Geotherm
238'000	-	Czech Republic	Fuel Switch, En.eff.
247'000	2008-12	Slovak Republic	Energy efficiency
40'000	2008-12	Poland	Energy efficiency
140'000	2008-12	Poland	Energy efficiency
145'000	2008-12	Lithuania	Energy efficiency

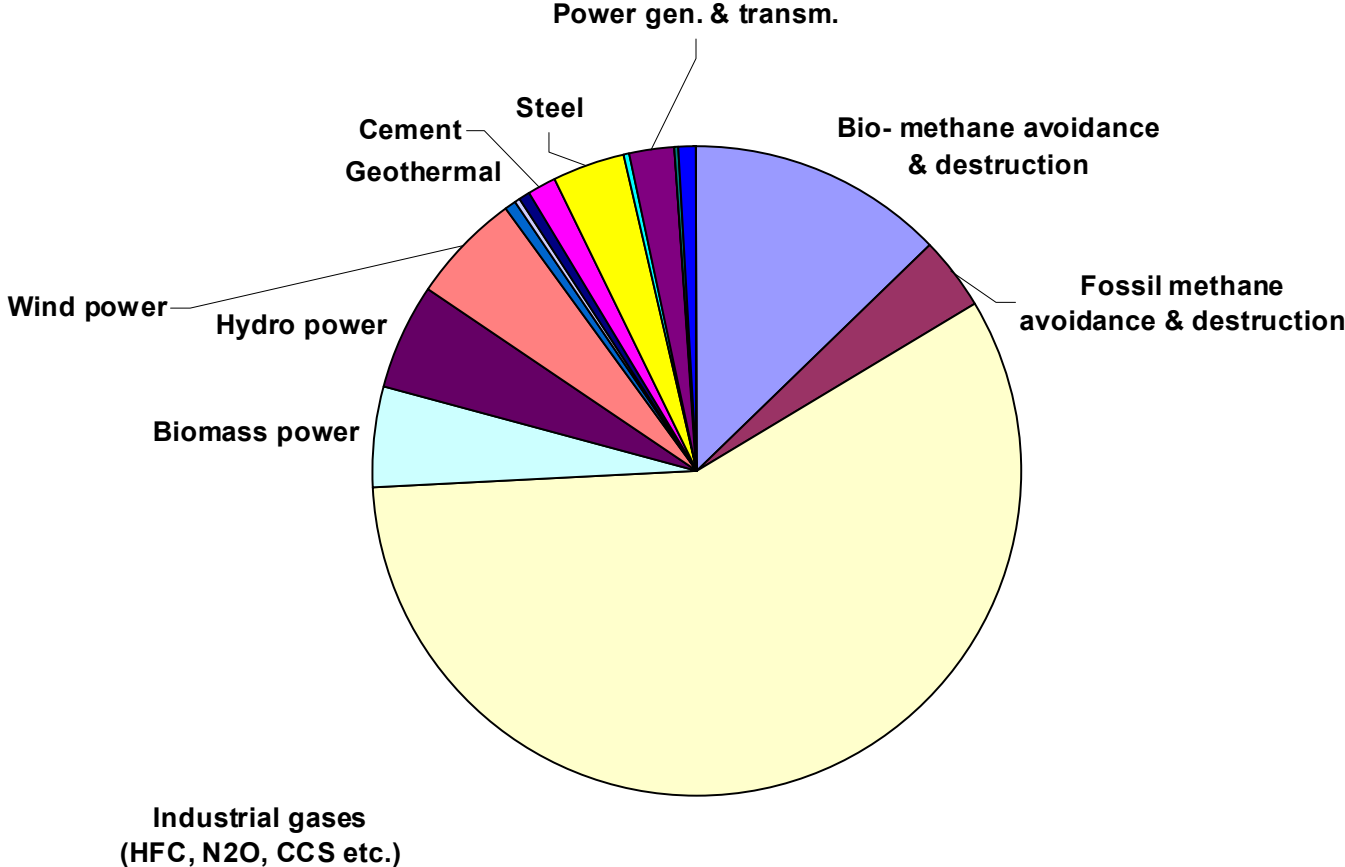
## Factor Track Record: CDM Projects

1'380'000	2004-12	Russia	Methane recovery
1'800'000	2008-12	Russia	Methane recovery
2'700'000	2008-12	Russia	Methane recovery
600'000	2008-12	Russia	Flaring
2'800'000	2008-12	Russia	Flaring
780'000	2008-12	Russia	Industrial energy efficiency
465'000	2008-12	Russia	Dist. Heating, fuel switch
280'000	2008-12	Russia	Energy efficiency
960'000	2008-12	Russia	Gas capture
2'200'000	2008-12	Ukraine	Gas capture
990'000	2008-12	Ukraine	Power, energy efficiency
590'000	2008-12	Ukraine	Gas capture
620'000	2008-12	Ukraine	Wind energy
200'000	2008-12	Ukraine	Industrial energy efficiency
500'000	2004-12	Belarus	Energy efficiency
350'000	2008-12	Kazakhstan	Hydro power
50'000	2008-12	Kazakhstan	Solar energy

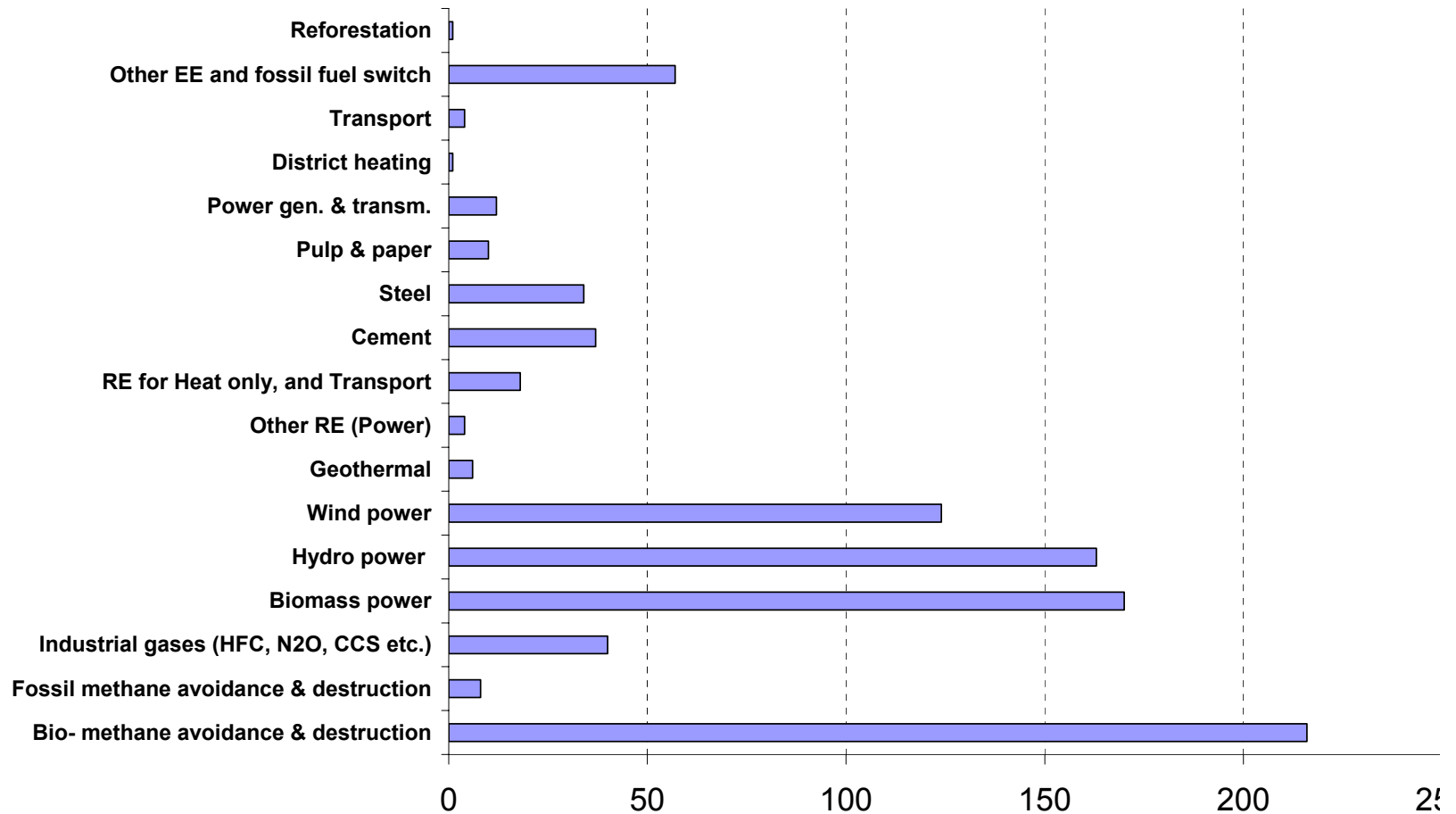
## Factor Track Record: CDM Projects

500'000	2006-12	Tajikistan	Hydro
350'000	2005-12	Tajikistan	Hydro
0	2007-12	Moldova	BioEthanol
1'000'000	2006-2012	Uzbekistan	Hydro
1'800'000	2006-2012	Uzbekistan	Power, energy efficiency
120'000	2006-2012	Uzbekistan	Heating, energy efficiency
900'000	2006-2012	Uzbekistan	Hydro power
500'000	2006-2012	Uzbekistan	Lightning efficiency
500'000	2006-2012	Uzbekistan	Transportation, fuel switch
350'000	2006-2012	Uzbekistan	Dist.Heating, energy efficiency
20'000	2005- 2012	Kyrgyz Republic	Energy efficiency
100'000	2006-2012	Kyrgyz Republic	Housing
300'000	2006-2012	Kyrgyz Republic	Biomass energy
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51'118'500			

# Expected Emission Reductions from registered Projects (per January 2008)



# 905 Registered CDM Projects (per January 2008)



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## References

- **100 MW Renewable Energy Project China:** Support in generating and selling 1,200,000 certified emission reductions (CERs) until 2012, from a Wind Power Project
- **26 MW Renewable Energy Project China:** Support in generating and selling 400,000 certified emission reductions (CERs) until 2012, from a biomass based power generation project
- **40 MW Renewable Energy Project China:** Support in generating and selling 600,000 certified emission reductions (CERs) until 2012, from a Hydro Power Project
- **37MW Middle and Lower Kolab Hydroelectric projects:** Meenakshi Power Ltd India 2005: Development of Project Design Document (PDD) and support in generating and selling 800,000 CERs from 2 run-of-the-river hydroelectric schemes .

## References

- **China:** Developed 3 CDM projects for power generation from kiln waste heat, and purchased the resulting carbon credits (ongoing).
- **My Home Cement, India:** Developed CDM-PDD for fly ash blending project and supported sale of carbon credits (ongoing).
- **Wietersdorfer + Peggauer Cement (Austria):** Prepare comprehensive strategy on CO2 emissions trading in Europe, including: Analysis of impacts of EU ETS on Austrian and European cement and lime markets; evaluation of a planned capacity expansion project; establishment of CO2 abatement cost curve; recommendations for policy lobbying.
- **Holcim:** Study on CO2 emissions associated with global freight transport of clinker and cement.
- **Holcim:** Study GHG emissions intensity of different building materials, taking into account differences in amount of material required per construction unit.
- **Holcim:** Supported PDD development for projects in Costa Rica, Indonesia

## References

- **Cembureau:** Supported comprehensive CO2 benchmarking exercise for all cement plants in Europe (ongoing).
- **Cembureau, Heidelberg Cement, Holcim, Italcementi, Lafarge:** Evaluation of mechanisms for allocation of CO2 emissions allowances in the EU emissions trading scheme. Quantitative analysis of allowance mechanisms with respect to impacts on European cement markets.
- **WBCSD Cement Sustainability Initiative (CSI): Cement CO2 Protocol.** Factor AG was responsible for developing the CO2 Protocol guidance document and Excel-based calculation tool in accordance with the decisions taken by the CSI group. The Protocol is available at [www.ghgprotocol.org](http://www.ghgprotocol.org).
- **Confidential Client:** Benchmarking of 700 cement companies worldwide with respect to emissions of local air pollutants, using publicly available data.

## References

- **25 MW Keshava Hydro Power Project Keshava Power Corporation Limited India:** Development of Project Design Document (PDD) and support in generating and selling 450,000 CERs
- **5 MW Dehar Grid-connected Small Hydro Project in Himachal Pradesh, India Astha Projects:** Project Design Document (PDD) and support in generating and 120,000 selling certified emission reductions (CERs) until 2012 from a small-scale hydro energy project in Dehar Khad in Himachal Pradesh state and exporting the generated electricity to Himachal Pradesh State Electricity Board (HPSEB), a state owned power utility company.
- **10.25MW Chunchi Doddi Grid-connected Small Hydro Project in Karnataka, India Sai Spurthi Power (P) Ltd:** Development of Project Design Document (PDD) and support in generating and 200,000 selling certified emission reductions (CERs) until 2012 from a small-scale hydro energy project in river Arkavathi near Chunchi Doddi village in Karnataka state and exporting the generated electricity to the state owned power utility company Karnataka Power Transmission Corporation Ltd. (KPTCL).

## References

- **Industrial Waste to Energy Project - Sai Renewable Power Pvt. Ltd. India:** Development of Project Design Document (PDD) and support in generating and 180,000 selling certified emission reductions (CERs) until 2012. The project will reduce CO2 emissions by combusting palm waste for electricity generation instead of relying on coal-fired power generation, and supplying this electricity to the grid.
- **Methane capture from biodegradable waste and use for on-site thermal applications Jain Irrigation Systems Ltd India:** New Baseline Methodology submitted for approval, and Project Design Document (PDD) as well as support in generating and selling 185,000 certified emission reductions (CERs) until 2012. The project comprises 12 small sized anaerobic digesters which are fed with biodegradable organic waste generated in the food processing plants of JISL. The anaerobic digesters will generate biogas that will be used as a fuel for cooking or heating applications that are presently provided by the combustion of fossil fuels like LPG and fuel oil.

## References

- **150 TPD Biodiesel Plant in Maharashtra, and Irrigation Systems (MIS) - Jain Irrigation Systems Ltd India:** New Baseline Methodology submitted for approval and PDD as well as support in generating and selling 1,425,000 CERs until 2012. The project will reduce CO2 emissions by replacing petro-diesel with bio-diesel in transport vehicles and by using bio-diesel for stationary applications.
- **Landfill Gas Project Brazil:** Developing a project to reduce greenhouse gas emissions under the Kyoto Protocol's Clean Development Mechanism (CDM), capturing methane emissions from the landfill for flaring and electricity generation. Preparation of the PDD, the baseline study and monitoring protocol; Marketing of the CERs to potential buyers, and structuring of the CER sales transaction.
- **CDM in the coffee sector Swiss contact Foundation Costa Rica:** PDD for small scale project activities in the coffee sector in Costa Rica. The implementation of a newly developed project technology shall enable to convert solid process residues (coffee husks, currently dumped and producing methane) into a combustible fuel, thereby substituting firewood currently used for coffee bean drying. In parallel, methane from the anaerobic waste water treatment lagoons shall be captured.

## References

- **Process Optimization in Coffee Processing Plants Swisscontact Services AG Costa Rica:** Elaboration of a business plan for an Energy Service Company in Costa Rica. The company (to be established) aims at promoting a newly developed process technology, which enables to produce a combustible fuel from the large amounts of coffee husks arising during the coffee processing season. This biomass fuel then would replace the significant amounts of firewood currently used for drying the coffee beans, as well as methane emissions associated with current waste disposal.
- **CDM capacity building program in India Deutsche GTZ India:** GTZ has mandated Factor to implement its 3-year CDM capacity development program in India. The program is designed and implemented in close cooperation with the Indian DNA (Designated National Authority for the CDM). A special focus lies on training programs for selected industries (e.g. power generation, steel, cement).

## References

- **CDM capacity building in Vietnam: Deutsche GTZ:** Design and implementation of a support programme for the Vietnamese Designated National Authority (DNA) for the CDM. The programme has a threefold target: establishing transparent sustainability criteria for CDM projects; implementing an efficient approval process; and involving the Vietnamese private sector in CDM project development.
- **CDM capacity building program in India Deutsche GTZ India:** GTZ has mandated Factor to implement its 3-year CDM capacity development program in India. The program is designed and implemented in close cooperation with the Indian DNA (Designated National Authority for the CDM). A special focus lies on training programs for selected industries (e.g. power generation, steel, cement).
- **Vision 2050: Long-term strategy for sustainable energy use in Switzerland Swiss Federal Office for Energy Switzerland:** Pilot study of a 1.2 million EURO research project. The pilot study defined sustainability targets; identified research gaps (technical, economic, environmental, social); and formulated terms of reference for the subsequent studies of the overall project.

## References

- **Vestas RRB India Ltd. and Ind-Barath Energies Ltd India - 7.5 MW biomass power project, Maharashtra and 14.45 MW wind power project, Tamil Nadu:** Vestas RRB India Ltd. and Ind-Barath Energies Ltd: Managed the submission of CER offers to the Dutch Certified Emission Reduction Procurement Tender (CERUPT). Consulting on all related aspects, Project Design Document, CER offer, and obtained host country approval and managed the validation of the project.
- **Pamir Hydropower Project Aga Khan Foundation Tajikistan:** Ongoing Development of Project Design Document (PDD) and support in generating and selling certified emission reductions (CERs) from a large scale hydro energy project.
- **20 MW Chamal Hydro Power Project Chamal Power Corporation Limited India:** PDD Development and support in generating and selling 300,000 certified emission reductions (CERs) until 2012 from a 20 MW run of the river hydro power project that will sell power to the grid.
- **18 MW Chalaput Hydro Power Project Chalaput Power Corporation Limited India:** PDD Development and support in generating and selling 105,000 certified emission reductions (CERs) until 2012 from a 18 MW run of the river hydro power project that will sell power to the grid.

## References

- **€250 million European Energy Fund Swiss Reinsurance Company (Swiss Re) European Union:** Ongoing Project management and consulting for a € 250 million fund launched by Swiss Re to invest in European energy projects that are environmentally beneficial and/or generate carbon credits. Examples include wind energy, solar energy, biomass, gas, cogeneration, district heating, and electric efficiency retrofit. Consultancy on structuring of the fund and coordination of carbon finance activities, trading of emission reduction certificates.
- **Multilateral Carbon Credit Fund (MCCF) European Bank for Reconstruction and Development (EBRD) Global:** In collaboration with Swiss Reinsurance Company (Swiss Re) Carbon Credit Management: Procurement of carbon credits (EUAs, ERUs, CERs) from EBRD projects; Development and management of associated Emission Reduction Purchase Agreements (ERPAs); Monitoring of delivery and contract fulfillment until 2012.

## References

- **Review of CDM Baseline Methodologies - CDM Executive Board / UNFCCC:** The rules for the Kyoto Protocol's Clean Development Mechanism (CDM) require that the baseline methodologies for large-scale projects must be approved by the CDM Executive Board. This approval process includes reviews of the methodologies by two independent experts. Staff of Factor has provided several of these reviews over the last years.
- **Baseline Study Bucharest District Heating European Bank for Reconstruction and Development (EBRD) and Swiss State Secretariat for Economic Affairs (seco) Romania:** The Romanian capital Bucharest features one of the world's largest district heating systems. The proposed investment project of about US\$ 50 million aims to increase the system's energy efficiency and cost-effectiveness through improved control and automation of the substations. Factor is responsible for quantifying the GHG savings (baseline study, monitoring protocol) as well as for the contractual design of the transfer of the certificates.

## References

- **CDM and Environmental Strategy Afghanistan - United Nations Environment Program (UNEP) Afghanistan:** Support of the Afghan Government in developing a strategy towards international environmental conventions, especially the UN Framework Convention on Climate Change. Cost-benefit evaluation of various conventions from the perspective of Afghanistan. Identification of possible measures and sources of funding. Formulation of institutional requirements for implementing projects under the Kyoto Protocol's Clean Development Mechanism (CDM). Identification and description of potential CDM projects under the national development plan. Training of local experts.
- **National Strategy Study for Greenhouse Gas Mitigation and JI in the UkraineWorld BankUkraine:** National strategy study for greenhouse gas mitigation and Joint Implementation in the Ukraine. Support of the local project team with respect to: Quantifying the greenhouse gas mitigation potential; Introducing JI and emissions trading methodology; Developing proposals for the institutional implementation of JI in the Ukraine; Assessing strategic options for Ukraine with regard to JI and ET; Identifying and describing possible JI projects.

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# THANK YOU