



**China-Denmark Bio-energy CDM  
Provincial Level Capacity Building Project**



# **Project Introduction**

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12 June. 2009



# Outline

1. Background and Objectives
2. Main Activities
3. Project Management
4. Project Outputs
5. General Progresses

# Background

- ◆ The development of CDM projects in China
- ◆ Bio-energy technology and resources in China (600 mt/year)
- ◆ The utilisation of Bio-energy in Denmark (world leading)
  1. Explore potential CDM project resources;
  2. Build capacity for the pilot provinces and regions to develop CDM projects;
  3. Facilitate the utilisation of bio-energy and reduce the dependence on fossil fuel;
  4. Increase farmer's income while narrowing the rich-poor gap and promoting economic growth;
  5. Reduce pollution caused by the usage of coal and other fossil fuels and reduce the hazardous gas released from decomposing and burning biomass.

# Project Objectives

1. Training activities in bio-energy field including the selection of CDM projects, development and managing projects and improving the capacity of project development for relevant stakeholders;
2. Capacity building for relevant national authorities and organisations in applying CDM baseline methodologies and monitoring methodologies to develop bio-energy CDM projects based on the current situation in China;
3. Trainings targeted for government officials and research institutes in the pilot provinces to enhance their capacity to identify and develop bio-energy CDM projects.

# Project Activities (Part I)

1. Surveys on the current technical level;
2. Surveys on current resources;
3. Capacity building needs assessment;
4. Report on the application of CDM methodologies in China;
5. Development of project identification and selection tools;
6. CDM training (PIN and PDD in Chinese and English) and international and domestic project evaluation processes, including validation requirements;
7. Bio-energy project management training (bio-energy project development, international and domestic experiences and key issues in project management, including project selection, location selection, resources management, etc.).

# Project Activities (Part II)

1. Identify and confirm provincial partners;
2. Identify and confirm the main bio-energy resources and potential in the province;
3. Detailed needs assessment for capacity building;
4. Provide trainings to the relevant government officials and research institutes, relevant professionals in organisations engaging in bio-energy, CDM project development professionals in pilot provinces and other relevant stakeholders;
5. CDM advanced courses to introduce the relationship between CDM projects and bio-energy;
6. Opportunities to introduce CDM projects to the local public;
7. Develop plans to attract the local public to participate in the project and to provide the projects with bio-energy raw materials;
8. Project identification and selection;
9. Training on relevant CDM issues;
10. Training on bio-energy project management.

# Project Management

- ◆ Steering Committee: NDRC, Denmark Embassy, MOFCOM
- ◆ Project Authorities: Department of Climate Change, NDRC
- ◆ Financial Management: CICETE, MOFCOM
- ◆ Implementing Authorities :
  - ERI, NDRC; Danish Technology Institute
  - 3 Project provinces: Hunan, Guizhou and Xinjiang

# Project Outputs (Part one: National level)

1. Technical Evaluation Report
2. Bio-energy Resource Evaluation Report
3. Capacity Building Needs Assessment Report
4. Report on the Application of Bio-energy Methodologies
5. Project Identification and Selection Tools
  - Report on the application of the tools and the results (potential projects)
6. Outputs of CDM trainings
  - Training materials
  - Trainee contact list
  - Develop 4 PINs
  - PDD of one project
  - Questionnaire and analysis to evaluate whether the training meets the prospective goal
  - Training impact evaluation 3 months after
7. Bio-energy Project Management Training

# Project Outputs

## (Part two: Provincial level)

1. 3 Technical Evaluation Reports
2. 3 Resource Evaluation Reports
3. 3 Capacity Building Needs Assessment Reports
4. 3 Trainings on Basic Courses
  - 3 sets of training materials on basic courses
  - 3 contact lists of trainees attending basic courses
  - 3 sets of questionnaires on basic courses
5. 3 Trainings on Advanced Courses
  - 3 sets of training materials on advanced courses
  - 3 contact lists of trainees attending advanced courses
  - 3 sets of questionnaires on advanced courses
6. One training manual for the local public to introduce the CDM project opportunities
  - 3 activity planning reports to encourage the local public's participation in projects

# Project Outputs

## (Part two: Provincial level) cont.

7. Develop a plan to attract local public participation in projects and to provide the projects with bio-energy raw materials;
  - 3 reports on the application of the tools
  - 3 sets of training materials
  - 3 contact lists of trainees
  - 5 PINs every province
  - At least 1 PDD every province
  - Questionnaire and analysis, to evaluate whether the training meets the targets
  - Training impact evaluation 3 months after the training
8. Project identification and selection, complete 12 PIN and 3 PDD;
  - 3 sets of training materials
  - 3 contact lists of trainees
  - Questionnaires and analysis to evaluate whether the training meets the prospective goals
  - Training impact evaluation 3 months after

# Project Outputs (Part two: Hunan)

- ◆ Landfill Gas Recovery and Utilization Project of municipal waste landfill site in Shaoyang City;
- ◆ Pengyang Large-scale Biogas Power Generation Project in Xiangtan ;
- ◆ Guanxin Bio-technology Project: Bio-diesel Production from Waste oil and fat in Yueyang City;
- ◆ 3 bundling projects:
  - Hengyang Yinong Biogas Power Generation Project
  - Hengyang Aiping Biogas Power Generation Project
  - Hengdong Xiangtai Biogas Utilisation Engineering Project
- ◆ Wugang Power Generation Using Straw Project (develop PDD)

# Project Outputs (Part two: Guizhou)

- ◆ Integrated Biogas Utilization Project from Hongda Breeding Farm in Kaili City, Guizhou Province
- ◆ Integrated Biogas Utilization Project from Large-scale pig farm at Huaxilei Zhuang, Yangguang Jianta Meat Foodstuff Company in Guizhou City, Guizhou Province
- ◆ Integrated Biogas Utilization Project from Large-scale pig farm at Xingye Husbandry Development Company in Wengan County, Guizhou Province
- ◆ Integrated Biogas Utilization Project of Xingwang Breeding Promotion Farm in Wengan County, Guizhou Province
- ◆ Integrated Biogas Utilization Project of Taiwan Breeding Farm at Zunyi (finished PDD)

# Project Output (Part two: Xinjiang)

- ◆ Biogas Generation Demo Project of BoNing Husbandry Development Company
- ◆ Biogas Power Generation Demo Engineering Project of Hutubi Cattle Farm
- ◆ Eco-agriculture Pilot Project at the Lantian Technology Zone
- ◆ Power Generation Using Straw Project at Manasi
- ◆ Integrated Utilization of Animal Manure from Taikun Scaled-up Chicken Farm in Xinjiang

# Project Tasks and Schedule (Part I)

Tasks	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.1 Technical Evaluation	■	■	■	■	■	■				
1.2 Resources Evaluation	■	■	■	■	■	■				
1.3 Capacity Building Needs Assessment			■	■	■	■				
1.4 Report on the Application of CDM Methodologies				■	■	■	■			
1.5 Development of Project Identification and Selection Tool				■	■	■	■	■		
1.6 CDM Training ( develop PIN and PDD in Chinese and English), international and domestic project evaluation procedure, including approval requirements					■	■	■	■		
1.7 Bio-energy project management training							■	■	■	

# Project Tasks and Schedule (Part II)

Tasks	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.1 Technical Evaluation	■	■	■	■						
1.2 Resources Evaluation	■	■	■	■						
1.3 Capacity Building Needs Assessment			■	■						
1.4 Report on the Application of CDM Methodologies				■	■					
1.5 Development of Project Identification and Selection Tools				■	■	■	■	■		
1.6 CDM Training (develop PIN and PDD in Chinese and English), international and domestic project evaluation procedure including approval requirements					■	■	■	■		
1.7 Bio-energy project management training							■	■	■	

# Major Progress

- ◆ National Level: the PDD of Sanjiang 12MW Biomass GHP Project in Heilongjiang Province has been submitted; will submit to DNA and DOE for approval;
- ◆ Xinjiang: 4 PINs, 1 PDD;
- ◆ Hunan: 6 PINs, 2 PDDs;
- ◆ Guizhou: 5 PINs, 1 PDD
- ◆ International Project Activities: with Danish Technology Institute and RISO Center; BARCELONA Carbon Expo



# Thank you

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