

Mitsubishi UFJ Securities: Project Highlights

Host Country	Project Type	Client	CDM or JI	Methodology	Est. CERs (ERUs) / year	Project Description
Argentina	Waste heat recovery	Confidential	CDM	t.b.c.	t.b.c.	Support a technology provider to develop a CDM project for their client's project which recovers and utilizes waste heat at a steel making factory.
Brazil	Biomass heat generation	GEEA	CDM	AMS-I.D. AMS-III.E.	19,486	A 5 MW Biomass Thermal Plant will be installed. The main fuel will be rice husks, which are currently left to decay in the open air. CERs are claimed for displacement of grid electricity and also for avoidance of methane emissions. REGISTERED July 2008
Brazil	Biomass thermal treatment	GEEA/SBS	CDM	ACM0002, AMS-I.D, AMS-III.E, AMS-III.G	19,223	A biomass thermal treatment plant will be installed to produce high quality silica using rice husk as fuel. The rice husk is currently left to decay in the open air. CERs are claimed for avoidance of methane emissions. REGISTERED September 2007
Brazil	Fuel switch	CENIBRA	CDM	ACM0009	50,615	A major industrial plant will switch its boilers from fuel oil to natural gas.
Brazil	Renewable energy (hydro)	Companhia Energética Integrada Ltda.	CDM	AMS-I.D	6,325	The project involves the construction of two small hydroelectric power stations on the Macaubas River in Minas Gerais state. After the installation of all units it is expected that the project will generate approximately 34,000 MWh/year.
Brazil	Biomass cogeneration	Confidential	CDM	ACM0006	35,340	The project involves the expansion of a distillery and its cogeneration system in order to provide power to the grid.
Bulgaria	Energy efficiency	Confidential	JI	Baseline and monitoring plan determined on project-specific basis	75,000	The project involves the installation of a new 135 MW circulating fluidized bed (CFB) boiler to replace four of the existing five pulverized coal (PC) boilers. Emission reductions will be claimed for the reduced CO2 emissions per unit of thermal energy generated by the new boiler.
Cambodia	Biomass power generation	Angkor Bio	CDM	AMS-I.A. AMS-III.E.	51,620	A 2 MW generator will be installed, to be powered by rice husks. The rice husks are currently left to decay in the open air. CERs are claimed for displacement of grid electricity and also for avoidance of methane emissions. REGISTERED August 2006
Cambodia	Methane extraction from animal waste	Samrong Thom Animal Husbandry	CDM	AMS-I.A, AMS-III.D	5,593	Liquid waste from a pig farm will be treated in a covered lagoon to extract methane. The methane will be used to power a 200 kW gas engine, which will provide electricity for the piggery, and for the local rural electricity distribution enterprise. REGISTERED December 2008
Chile	Waste heat recovery	Confidential	CDM	t.b.c.	t.b.c.	Support a technology provider to develop a CDM project for their client's project which recovers and utilizes waste heat at a steel making factory.
China	Landfill gas to energy project	Confidential	CDM	ACM0001	35,000	Landfill gas will be collected from sanitary landfills, and used to generate thermal energy. Projects will be implemented at three separate locations.
China	Cogeneration from MSW and sludge	CECIC Blue-Sky Investment Consulting & Management Co., Ltd	CDM	AM0025	127,909	Co-generation from combustion of MSW and sludge in Shaoxing City. Methane emissions from the disposal of the MSW at landfill will be avoided. Generated electricity will be exported to the grid. REGISTERED December 2009
China	Renewable energy (hydro)	Mitsubishi Corporation	CDM	ACM0002	65,569	The project involves the installation and operation of a 25.2 MW (6.3MWx4) run-of-river-type hydropower station along the Beiliu River, in the Guangxi Zhuang Autonomous Region in China. REGISTERED February 2009

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China	Waste heat recovery and power generation	SDIC Hainan Cement	CDM	ACM0004 & ACM0002	41,548	Low temperature waste heat from the clinker production process at a cement plant will be used as the energy source for a waste heat recovery boiler. The boiler will power an 8MW turbine. The project will displace approximately 48,000 MW per annum of electricity currently consumed by the cement plant from the Hainan grid. REGISTERED March 2008
China	Renewable energy (wind)	Jiangsu Dongling Wind Power Development Co. Ltd.	CDM	ACM0002	138,145	This wind farm, with 70.5MW capacity, will involve the installation of 47 sets of generators along the coastline of the Yellow Sea in Jiangsu Province. Generated electricity will be supplied to the East China Grid.
China	Biogas extraction from wastewater	Confidential	CDM	AM0013	c.100,000	The project will capture methane from wastewater at an alcohol production plant. The captured methane will be used to generate steam and electricity for in-house consumption, displacing bunker oil, and for export to the grid.
China	Biogas extraction and injection to gas grid	Dalian Dongtai Organic Waste Treatment Co., Ltd	CDM	AM0025 / AM0053	25,919	Biogas will be extracted from sewage sludge, purified, and injected into Dalian City's natural gas grid.
China	Renewable energy (hydro)	Miyi County Wantan Water and Electric Power Development Co. Ltd.	CDM	ACM0002	131,420	A 32MW run-of-river hydropower project in Sichuan Province, with expected power generation of approximately 170,000 MWh of electricity annually. REGISTERED November 2009
China	Renewable energy (hydro)	Fugong Fuxin Co., Ltd.	CDM	ACM0002	73,665	The Project is a run-of-river hydropower project in Yunnan Province, China, that will supply electricity to the South China Power Grid. Two 12MW turbines will be installed to give a total installed capacity of 24MW. REGISTERED October 2009
China	Renewable energy (wind)	CECIC HKC Gansu Wind Power Co., Ltd.	CDM	ACM0002	407,521	The project involves the construction and operation of a 201MW wind power project in Gansu Province, with expected annual power generation of approximately 430GWh.
China	Coal mine methane utilization for power generation	Shanxi Xiyang Fenghui Coal Industry Co., Ltd. (China) & NEDO (Japan)	CDM	ACM0008	229,934	The project involves the reduction of greenhouse gas emissions by the combustion of coal mine methane and the displacement of fossil fuel generation by power plants connected to the grid.
China	Geothermal district heating system	Shaanxi Green Geothermal Energy Development Co., Ltd.	CDM	AM0072	c. 100,000	The project involves the expansion of geothermal district heating systems, displacing coal-fired heating systems in Xianyang City, Shaanxi Province
China	Renewable energy (hydro)	Confidential	CDM	ACM0002	36,400	The project involves the construction and operation of a hydropower plant in Genma, Yunnan Province
China	Renewable energy (hydro)	Gengma County Tiechan River Power Plant	CDM	AMS-I.D	36,400	A 12.6MW run-of-river hydropower plant in Yunnan Province, with expected annual power supply to the grid of 46,200MWh.
Egypt	Renewable energy (wind)	The Japan Bank for International Cooperation (JBIC)	CDM	ACM0002	248,609	The project is a 120MW wind power generation project in Zafarana, Egypt. It involves the construction and operation of 120 wind turbine units, each with 1MW capacity. The project is being developed by the New and Renewable Energy Authority (NREA) and is assisted by ODA loans from the Japan Bank for International Cooperation (JBIC). The PDD was released for NM0036 which was approved as part of AM0002. REGISTERED June 2007
India	Biomass heat generation	Confidential	CDM	AMS-I.C +WWF Gold Standard	3-4,000	The project developer will work with schools and other institutions to replace their cooking stoves. The new stoves will be run on biomass briquettes, sourced from agricultural waste. CERs will be claimed for replacing the current LPG fuel with carbon-neutral biomass.

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India	Biomass power generation	Nuchem Limited	CDM	AMS-I.D	21,357	This project will be carried out at a mid-sized hardboard plant. A 10MW generator will be installed for export to the Northern Grid. The plant will be fuelled with agricultural residues, including mustard stalks, rice husk and cotton plants.
India	Composting of MSW	Confidential	CDM	AMS-III.F	25,000	This project will increase production of compost from MSW, enabling the supply of a greater amount of organic compost to farmers. CERs will be claimed for avoidance of methane emissions, as MSW is disposed in a landfill in the baseline.
India	Biomass power generation	Shree Nakoda Ispat Ltd.	CDM	AMS-I.D	56,807	This 12 MW Biomass based Power Generation project is being developed by a Sponge Iron manufacturer. The project will use Rice husk as the main biomass for power generation. The power generated by the project will displace grid electricity.
India	Renewable energy (wind)	KL Rathi Steels Ltd	CDM	AMS-I.D	2,710	This small scale, 1.5MW wind power generation project in the Kutch District will provide power to the Indian grid. REGISTERED October 2009
India	Biomass power generation	Confidential	CDM	AMS-I.D	55,000	This 10 MW Biomass based Power Generation project is being developed by a Spring Steel manufacturer. The project will use Rice husk as the main biomass for power generation. The power generated by the project will displace grid electricity.
India	Waste heat recovery & power generation	Confidential	CDM	ACM0012	22,000	The project involves the installation and operation of a 4MW waste heat recovery based power generation plant as part of a 30MW power generation plant. The remaining 26MW of power will be generated using coal. The provide power to the manufacturing plant and export the excess to the grid.
India	Biomass power generation	Deepak Spinners Limited	CDM	AMS-I.D	17,500	The project activity involves the construction and operation of a 3 MW biomass based power generation plant in India which replaces the use of diesel used in small diesel generator sets for power generation. MUS has been hired to advise the project developer on the monitoring and issuance process.
India	Renewable energy (wind)	Confidential	CDM	AMS-I.D	8,442	This small scale project will involve the installation of three wind turbines for a total generation capacity of 4.5MW. The project will provide power to the Indian grid.
Indonesia	Integrated solid waste management and energy utilization	PT Navigat Organics Energy	CDM	AM0025	123,423	The Project will recover energy from a landfill waste site in Bali through: collection of landfill gas (methane); gasification of solid waste; and anaerobic digestion of liquid waste. The biomass fuel collected will power a 9.6MW generator. CERs are to be claimed for avoidance of methane emissions from decomposing landfill waste, and displacement of grid electricity. The new methodology developed for this project was approved as part of AM0025. REGISTERED May 2007
Indonesia	Biomass power generation	PT Pelita Agung Agrindustri	CDM	ACM0006	180,000	This methodology is developed for a Biomass CHP plant that replaces conventional steam generation and avoids grid electricity import for a captive user
Indonesia	Biomass power generation	PT Nubika Jaya	CDM	ACM0006	45,000	The project involves the construction of a biomass fired CHP power plant utilizing decayed EFB from captive plantation for captive user
Indonesia	Biomass power generation	PT Victorindo Alam Lestari	CDM	ACM0006	45,000	The project involves the construction of a biomass fired CHP power plant utilizing decayed EFB from captive plantation for captive user

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Indonesia	Biomass power generation	PT Nagamas Palm Oil Lestari	CDM	AMS-ID, AMS I-C	77,471	The project involves the construction of a biomass fired CHP power plant utilizing palm kernel and fibre. Both steam and electricity is supplied to captive users. REGISTERED November 2007
Indonesia	Biomass power generation	Listrindo Kencana	CDM	AMS-I.D	49,529	The project involves the construction of a 12MW biomass fired power plant utilizing decayed EFBs and exporting power to the grid. REGISTERED December 2008
Indonesia	Biogas extraction from wastewater	PT Nubika Jaya	CDM	AMS-III.H and AMS-I.O	44,181	The Project involves the installation of biogas extraction and purification system for captive production of bio-hydrogen supporting oleo chemical production. MUS submitted, and gained approval for, a new small scale methodology in association with this project. REGISTERED June 2009
Indonesia	Biogas extraction from wastewater	Sumitomo Corporation	CDM	AM022	271,436	Installation of a closed anaerobic wastewater treatment and biogas extraction system at an existing tapioca starch manufacturing plant, which is currently treated at an open lagoon based system, which is further utilised for electricity generation. Location: Lampung Province. REGISTERED November 2007
Indonesia	Energy efficiency	Manunggal Energi Nusantara	CDM	AMS-II.H	30,665	The project will implement energy consumption reduction measures in its textile woven facility in the City of Bekasi, Province of West Java, Indonesia. The Project activity reduces the energy consumption by 65GWh per year or equivalent to 27.5% of total energy consumed without the Project. This saving improves the energy utilization efficiency from 64% to 88%. REGISTERED February 2009
Indonesia	Natural gas co-generation	Manunggal Energi Nusantara	CDM	AM0014	42,622	The Project will generate of 13.6MW of electricity and 9.5tonnes per hour of high quality steam for industrial users who are currently using grid electricity and generating steam from fuel with higher carbon intensity than natural gas. REGISTERED February 2008; CERs issued to date: 17,154
Indonesia	Methane avoidance	Confidential	CDM	ACM0014	56,000	The project involves the capture of methane from wastewater, and the utilization of the methane to generate steam, thereby displacing the consumption of fossil fuel.
Indonesia	Biogas extraction from wastewater	PT. BUDI ACID JAYA (Indonesia), Sumitomo Corp. (Japan)	CDM	AMS-I.D & AMS-III.H	64,288	Install a closed anaerobic wastewater treatment and biogas extraction system with electricity generation at the BAJ Pakuan Agung Factory in Lampung Province.
Indonesia	Biogas extraction from wastewater	PT. BUDI ACID JAYA (Indonesia), Sumitomo Corp. (Japan)	CDM	ACM0014	66,898	The purpose of the project activity is to reduce the amount of methane that would have otherwise been emitted from the existing anaerobic open lagoons, and also to use the extracted biogas for electricity generation at the BAJ Tulang Bawang Factory, Lampung Province.
Indonesia	Biogas extraction from wastewater	PT. BUDI ACID JAYA (Indonesia), Sumitomo Corp. (Japan)	CDM	AMS-I.D & AMS-III.H	63,114	Install a closed anaerobic wastewater treatment and biogas extraction system with electricity generation at the BAJ Gunung Agung Factory in Lampung Province. REGISTERED October 2009
Indonesia	Biogas extraction from wastewater	Confidential	CDM	AMS-I.D & AMS-III.H	25,000	Wastewater from a palm oil mill will be treated using an Upwards Anaerobic Sludge Blanket system. Extracted biogas will be used for energy generation.
Indonesia	Biogas extraction from wastewater	Confidential	CDM	AMS-I.D & AMS-III.H	25,000	Wastewater from a palm oil mill will be treated using an Upwards Anaerobic Sludge Blanket system. Extracted biogas will be used for energy generation.

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Korea	Biomass power generation	G&G Consultant FDI	CDM	AMS-I.D, AMS-III.E	4,752	The project involves the construction and operation of a biomass power plant. The Project will use gasification technology to generate electricity from forestry related biomass waste.
Korea	Fuel switch	LG Chem	CDM	AMS-III.B	19,635	Switching fuel from bunker fuel oil C to natural gas in the process of production of octanol, plasticizers and acrylic acid at LG Chem's Naju plant. REGISTERED June 2009
Korea	Fuel switch	SeAH Besteel	CDM	AMS-III.B	27,728	Switching fuel from bunker fuel oil C to natural gas in the process of production of besteel at SeAH's Gunsan plant.
Korea	SF6 abatement	Samsung Engineering Co. Ltd.	CDM	AM0078	784,448	The project involves the installation and operaton of SF6 abatement devices at a Samsung Electronics LCD production plant.
Macedonia	Renewable energy (hydro)	Elektrani na Makedonija	VER	ACM0002	202,344	The Project involves the rehabilitation of six hydropower plants (HPP) in the Republic of Macedonia and is a part of a larger project for improvement of the power system in Macedonia
Malaysia	Methane recovery and utilization	Bumibiopower	CDM	AM0013	55,000	Palm oil mills discharge an organically rich liquid effluent, whose treatment in open ponds results in major emissions of methane. The pond treatment will be replaced by a closed anaerobic digester. The methane collected from the digester will be used to power a 1.5MW generator. CERs will be claimed for avoidance of methane emissions and displacement of grid electricity. The methodology developed for this project was approved.
Malaysia	Biomass power generation	Bumibiopower	CDM	AMS-I.D. & III.E.	95,079	The Bumibiopower project will combust empty fruit bunches, a major waste-stream from the palm-oil industry, to generate biomass power. The generator will supply up to 10MW of power to the Malaysian grid. Methane emissions from the rotting EFBs will be prevented by their controlled combustion.
Malaysia	Biomass power generation	Kina Biopower	CDM	AMS-I.D. & III.E.	230,019	This project will combust empty fruit bunches, a major waste-stream from the palm-oil industry, to generate biomass power. The 11.5MW turbine will supply power to the Malaysian grid. Methane emissions from the rotting EFBs will be prevented by their controlled combustion. REGISTERED July 2006
Malaysia	Biomass power generation	Seguntor Bioenergy	CDM	AMS-I.D. & III.E.	230,019	This project will combust empty fruit bunches, a major waste-stream from the palm-oil industry, to generate biomass power. The 11.5MW turbine will supply power to the Malaysian grid. Methane emissions from the rotting EFBs will be prevented by their controlled combustion. REGISTERED July 2006
Malaysia	Landfill gas recovery	Confidential	CDM	ACM0001	100,000	The project will collect landfill gas from a municipal waste site. The captured LFG will be flared and/or used for power generation.
Malaysia	Biomass power generation	Mas Gading Green Energy, Mukah Green Energy, Agritech Marketing Co. Ltd.	CDM	ACM0006	295,410	This project will involves the construction of two biomass power plants that will combust empty fruit bunches and generate 10MW of power for export to the grid. The project reduces emissions by displacing generation at fossil-fuel power plants connected to the grid, and by preventing the release of significant amounts of raw methane to the atmosphere due to the anaerobic decomposition of EFBs at SWDS. Therefore the project reduces methane emissions, as well as producing renewable energy.
Malaysia	Biogas extraction from wastewater	Confidential	CDM	AMS-I.D & AMS-III.H	25,000	Wastewater from a palm oil mill will be treated using an Upwards Anaerobic Sludge Blanket system. Extracted biogas will be used for energy generation.

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Malaysia	Biogas extraction from wastewater	Confidential	CDM	AMS-I.D & AMS-III.H	25,000	Wastewater from a palm oil mill will be treated using an Upwards Anaerobic Sludge Blanket system. Extracted biogas will be used for energy generation.
Mexico	Waste heat recovery	Confidential	CDM	t.b.c.	t.b.c.	Support a technology provider to develop a CDM project for their client's project which recovers and utilizes waste heat at a steel making factory.
Moldova	Biofuel	Confidential	CDM	t.b.c.	30,000	This project will involve the production of biodiesel and bioethanol, for utilisation by an agricultural cooperative.
Moldova	Fuel switch	Confidential	CDM	AMS-III.B	20,000	This project will involve a fuel switch from oil to natural gas at an industrial facility.
Mongolia	Energy efficiency	Anu Service	CDM	AMS-II.B	c.10,000	Anu Service, an ESCO company, will work with schools, hospitals and district heating providers to replace old inefficient boilers. The amount of coal consumed per energy unit will decrease, thus reducing the CO ₂ emissions associated with thermal energy production.
Mongolia	Renewable energy (hydro)	ERDC, Ministry of Fuel and Energy	CDM	AMS-I.D	29,600	The project will be a small hydroelectric power plant which will displace electricity produced by fossil fuel fired plants in Taishir, Mongolia. REGISTERED March 2007; CERs issued to date: 48
Mongolia	Renewable energy (hydro)	ERDC, Ministry of Fuel and Energy	CDM	AMS-I.D	28,880	The project will be a small hydroelectric power plant which will displace electricity produced by fossil fuel fired plants. REGISTERED March 2007
Mongolia	Renewable energy (hydro)	ERDC, Ministry of Fuel and Energy	CDM	New methodology under development	c. 400,000	The project will be a major hydroelectric power development which will displace electricity produced by fossil fuel fired plants. The new methodology submission accounts for GHG emissions from the reservoir and other leakage sources.
Pakistan	Energy efficiency	Bio Energy (Japan)	CDM	NM0171	153,000	The project will involve the introduction of Hydro Heavy Fuel Oil technology at a thermal power generation plant in Pakistan. The use of this oil/water emulsion technology will result in a 30% reduction of oil usage by increasing combustion efficiency.
Pakistan	Waste heat recovery and power generation	Bestway Cement Limited (Pakistan)	CDM	AMS-III.Q	48,060	The project activity involves the installation of a 15 MW waste heat recovery-based power generation facility at the Bestway Cement Ltd. factory in Chakwal, Pakistan
Paraguay	Forestry	Servicio Forestal Nacional (Paraguay), Japan Green Resources Agency (Japan)	ARCDM	AR-AMS0001	1,523	Afforestation/Reforestation of croplands and grasslands in low income communities. Temporary CERs will be requested (tCERs), with a 20-year crediting period. REGISTERED September 2009
Philippines	Renewable energy (hydro)	LGU Cantilan, UPP Associates, CaFiS Inc.	CDM	AMS I.D.	2,471	This small run-of-river hydro project will produce approximately 6,000MWh per year for the Mindanao grid, covering a significant amount of the power needs of local municipalities. The dam will be constructed from locally available rubble.
Philippines	Landfill gas recovery	BEST Inc.	CDM	ACM0001	c. 100,000	This project involves a number of bundled landfill sites. Methane will be collected and flared.

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Philippines	Waste heat recovery and power generation	JFE Steel	CDM	ACM0004	61,702	Philippine Sintering Corporation's sintering plant in Mindanao produces large quantities of hot air which is currently released to the atmosphere. In the project, this hot air will be used to power a boiler, producing around 117,000,000kWh / year, displacing fossil fuel power production from the Mindanao grid. REGISTERED May 2007
Philippines	Biomass thermal energy generation	Armadillo Holdings Inc.	CDM	AMS I.C & III.E	44,680	Two major laundries in Metro Manila will install new boilers which are capable of burning rice husk. Steam will also be available for use by other nearby users. Emission reductions will be achieved from the displacement of BFO. REGISTERED March 2009
Philippines	Methane recovery and utilisation	Mitsubishi Corporation	CDM	AM0013	95,896	The Project involves the installation of a digester at the anaerobic lagoon wastewater treatment system at Absolute Chemicals Incorporated's (ACI) ethanol production plant. The biogas collected from the reactor will be utilized as a fuel for the ethanol plant's boilers. REGISTERED October 2006
Philippines	Renewable energy (hydro)	Hedcor Sibulan Inc.	CDM	ACM0002	95,174	This bundled project involves the construction of 2 run-of-river hydro power plants in Mindanao and generated electricity will be exported to the Mindanao Grid. Sibulan Plant A has an installed capacity of 16.5MW, and Sibulan Plant B, an installed capacity of 26MW. REGISTERED June 2008
Philippines	Biomass power generation and methane recovery	Confidential	CDM	AMS-I.D, AMS-III.E, AMS-III.H	c.100,000	This will consist of 3 projects to be carried out at food processing plants. Biomass will be fired in boilers to provide thermal energy both for the food plants' internal needs, and for power generation. Combustion of the biomass will also avoid methane emissions caused by the decay of the biomass. In addition methane will be extracted from the wastewater at each plant, and used as a supplementary fuel in the boilers.
Philippines	Biomass power generation	Confidential	CDM	t.b.c.	21,000	The project involves the construction and operation of a 10MW bagasse fired co-generation plant in a sugar mill in the Philippines. The plant will supply the steam and electricity to the mill, and export excess electricity to the local grid.
Philippines	Forestry	Kalahan Educational Foundation	CDM	AR-AMS0001	4,654	The project will involve reforestation implemented in 900 hectares of the Ikalahan Ancestral Doman located in the provinces of Nueva Ecija and Nueva Vizcaya.
Philippines	Biomass power generation and methane recovery	Agumil Philippines Inc.	CDM	AMS-I.C, AMS-III.E & AMS-III.H	46,910	The project will utilize empty fruit bunches, palm fruit fibres and palm nut shells as the primary biomass fuel for power generation. The company will also construct a closed anaerobic digestion system and co-combust the methane with the biomass to power a turbine with 6MW of gross generation capacity.
Philippines	Waste heat recovery	Republic Cement Corporation	CDM	AMS-III.Q	11,813	The project will involve the installation of a 4.5MW capacity waste heat recovery turbine at the Teresa Cement Plant owned by Republic Cement Corporation.
Russia	Biomass power generation	Confidential	JI	AMS-I.C	60,000	The project involves fuel switch from coal to waste wood biomass, as well as energy efficiency improvement at several district heating plants.
Sri Lanka	Renewable energy (hydro)	Alternate Power Systems (Pvt.) Ltd. (Sri Lanka)	CDM	AMS-I.D	13,484	The project activity involves the installation and operation of a 6.5MW run-of-river hydropower generation plant in Ratnapura District, Sri Lanka.
Thailand	Biomass power generation	A.T. Biopower	CDM	ACM0006	70,772	This biomass waste project will use rice husk waste from local farmers, which is usually burnt or left to decay. The waste will power a 22MW generator, supplying electricity to the Thai grid. CERs are claimed for displacing grid electricity, and from methane emission reductions through controlled combustion. New methodology AM0004 was developed as part of this project. REGISTERED June 2007; CERs issued to date: 100,678

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Thailand	Landfill gas to energy	Jaroensompong Corporation	CDM	ACM0001	47,185	A landfill near Bangkok which handles 3,500 tonnes of municipal solid waste per day will be fitted with a landfill gas collection system and a 1MW generator. Electricity generated will be sold to the Thai grid. CERs will be claimed for displacement of grid electricity and for avoiding methane emissions from the rotting waste. The PDD has passed public comments and received host country DNA approval. REGISTERED March 2008
Thailand	Biomass power generation and methane avoidance	Surat Thani Green Energy Co., Ltd., Agritech Marketing Company Ltd.	CDM	ACM0002 & ACM0006	106,592	The Project will use empty fruit bunches, a waste product of the palm oil milling process, to power a 9.9 MW generator. The electricity will be sold to the Thai grid (EGAT). CERs are claimed for displacement of grid electricity, and for avoiding methane emissions from decaying biomass waste. Host country DNA approval has been obtained. REGISTERED May 2008
Thailand	Biomass power generation	Power Prospect	CDM	AMS-I.C	35,367	The Project is designed to use rice husk as the primary fuel to feed an advanced 9.9 MW biomass-fired power generation system. The power generated will be sold to the Thai grid.
Thailand	Biogas extraction from wastewater	Siam Quality Starch Co., Ltd	CDM	AM0013, AMS-I.C	98,372	The project will capture methane from wastewater in a food-processing plant. The captured methane will be used to generate steam for in-house consumption, displacing bunker oil. REGISTERED April 2009
Thailand	Biogas extraction from wastewater	Thachana Palm Oil Co	CDM	AMS-I.D, AMS-III.H	23,844	The project will capture methane from wastewater at a palm oil mill. The captured methane will be used to generate steam for in-house consumption, displacing bunker oil. REGISTERED August 2009
Thailand	Biogas extraction from wastewater	Green to Energy Co., Ltd, Agritech Marketing Company Ltd.	CDM	AMS-I.D, AMS-III.H	38,434	Construct and operate a sequential treatment system consisting of an anaerobic digestion and activated carbon filtration to treat palm oil mill effluent (POME) which will increase both increase the efficiency of POME treatment and enable the capture of the generated methane.
Thailand	Biogas extraction from wastewater	Chok Chai Starch Co., Ltd.	CDM	ACM0014	58,000	Installation and operation of an anaerobic digestion and methane recovery system for the treatment of wastewater coupled with an energy generation system.
Thailand	Biomass power generation	Phoenix Pulp & Paper	CDM	ACM0006	70,000	The project involves the construction of a biomass fired CHP power plant utilizing Eucalyptus bark, Eucalyptus dust and sludge from the in-house pulp and paper mills. Both steam and electricity is supplied to the mills for captive consumption.
Thailand	Biogas extraction from wastewater	Trang Palm Oil Co. Ltd.	CDM	AMS-I.D & AMS-III.H	33,500	The Project involves the installation and operation of anaerobic digestion and methane recovery systems for wastewater treatment with two new 1MW power generation systems at an existing palm oil mill in Thailand.
Thailand	Biogas extraction from wastewater	Nam Hong Power Co., Ltd.	CDM	AMS-I.D & AMS-III.H	22,488	The Project involves the installation and operation of anaerobic digestion and methane recovery systems for wastewater treatment with a new 1MW power generation system at an existing palm oil mill in Thailand.
Thailand	Biogas extraction from wastewater	Southern Palm Co. Ltd (Thailand), Marubeni Corporation (Japan)	CDM	AMS-I.D & AMS-III.H	18,622	The project activity involves the installation of an anaerobic continuous stir lagoon reactor (CSLR) and biogas extraction system at the existing open lagoons of a palm oil plant. The collected biogas will be utilized for electricity generation through a 0.98 MW electricity generator. Electricity generated from biogas displaces the in-house energy consumption currently purchased from the grid. Electricity in excess amount then will be sold to Provincial Electricity Authority (PEA). An enclosed flare system is installed in order to combust any excess biogas. REGISTERED October 2009

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Thailand	Biogas extraction from wastewater	Green Glory Co., Ltd. (Thailand) Marubeni Corporation (Japan)	CDM	AMS-I.D & AMS-III.H	15,647	The project activity involves the installation of an anaerobic continuous stir lagoon reactor (CSLR) and biogas extraction system at the existing open lagoons of a palm oil plant. The collected biogas will be utilized for electricity generation through a 0.98 MW electricity generator. Electricity generated from biogas displaces the in-house energy consumption currently purchased from the grid. Electricity in excess amount then will be sold to Provincial Electricity Authority (PEA). An enclosed flare system is installed in order to combust any excess biogas. REGISTERED August 2009
Thailand	Biogas extraction from wastewater	T.H. Pellet Co. Ltd. (Thailand), Marubeni Corporation (Japan)	CDM	AMS-I.D & AMS-III.H	43,000	The project activity involves the installation of a covered lagoon digester and biogas extraction system at an existing tapioca processing plant for treatment of organic wastewater which is currently treated at an open lagoon system. The collected biogas will be utilized for heat and electricity generation for on-site consumption. Biogas in excess amount will be flared by an open flare system.
Thailand	Biogas extraction from wastewater	Mama Development Co. Ltd. (Thailand) Electric Power Development Co., Ltd. (Japan)	CDM	AMS-I.C, AMS-I.D & AMS-III.H	57,177	The project involves the installation and operation of an anaerobic digestion and methane recovery system for the treatment of wastewater at the Chaiphaphum Starch Plant.
Thailand	Biogas extraction from wastewater	Mama Development Co. Ltd. (Thailand) Electric Power Development Co., Ltd. (Japan)	CDM	AMS-I.C, AMS-I.D & AMS-III.H	55,718	The project involves the installation and operation of an anaerobic digestion and methane recovery system for the treatment of wastewater at the Sangpetch Tapioca Flour Plant.
Thailand	Biogas extraction from wastewater	Srijaroen Palm Oil Co., Ltd.	CDM	AMS-I.D, AMS-III.H	20,429	The project involves the installation and operation of an anaerobic digester to treat POME and methane recovery systems to capture the methane generated from the treatment system. REGISTERED October 2009
Thailand	Biogas extraction from wastewater	Eiamburapa Company Ltd. (Thailand), Sumitomo Corp. (Japan)	CDM	AMS-I.C, AMS-I.D & AMS-III.H	56,004	The installation of a closed anaerobic wastewater treatment and biogas extraction system for electricity generation and fossil fuel displacement at an existing tapioca starch manufacturing plant in Sakaeo Province. REGISTERED December 2009
Thailand	Biogas extraction from wastewater	Sumitomo Corporation	CDM	ACM0014	80,000	The project involves the installation of an advanced anaerobic wastewater treatment and biogas extraction system at an existing tapioca starch production plant. Location: Nakhonratchasima Province
Thailand	Biomass power generation	Confidential	CDM	AMS-I.C & AMS-III.E	29,000	The project activity comprises of the construction of 9.9MW power plant for electricity generation using biomass residues.
Ukraine	Coke oven gas utilisation	Confidential	JI	ACM0004	73,500	Coke oven gas will be used to power a 13MW turbine, providing electricity for the coke plant and for the Ukrainian grid.
Ukraine	Hydropower rehabilitation	World Bank - IBRD	JI	ACM0002 (revised for JI)	200,387	A number of hydro units along the Dniepr and Dniestr rivers, which have been in operation for up to 70 years will be upgraded. By 2012 the Project is expected to deliver as much as 470GWh/year in additional generation to the Ukrainian grid, with CERs claimed for the displacement of fossil fuel power generation. Additional benefits will be reduction in oil leakages from the plants and improved management of water resources.

Host Country	Project Type	Client	CDM or JI	Methodology	Est. CERs (ERUs) / year	Project Description
Ukraine	Landfill gas recovery	Nedra Luganshchiny, Ltd.	JI	ACM0001	17,821	The project involves the installation of an LFG collection and flaring system to utilize the recovered LFG at Site 1 of the Lugansk Landfill located at Oleksandrivsk Town, Lugansk Region, Ukraine.
Vietnam	Bundled animal waste management	Confidential	CDM	AMS I.C. & III.E.	t.b.c.	The Project involves the installation and operation of an anaerobic digestion system in a large number of small farms, typically about 10 swine and 2 to 3 cattle. The biogas will be captured and used for cooking purposes. The Project will be responsible for avoiding methane emissions from traditional manure management systems, as well as for the displacement of traditional cooking fuels, such as kerosene and charcoal.
Vietnam	Reforestation	Confidential	CDM	AR-AM0001	t.b.c.	The Project involves the reforestation of degraded land. A large number of small land owners (farmers) will participate in this scheme, which will also involve harvesting of the trees. The CERs will be claimed for the net amount of CO2 sequestered.
Vietnam	Renewable energy (hydro)	Son Vu Energy Development Company (SVEDC) (Vietnam), Kyushu Electric Power Company Ltd. (Japan)	CDM	ACM0002	79,900	32MW hydropower plant with spillway gates in north-western Viet Nam. Energy will be exported to the grid.
Vietnam	Carbon capture and storage	Mitsubishi Heavy Industries	CDM	NM0167	4,622,311	This project aims to capture CO2 from the emission stream of a gas-turbine power plant, send it to an oil-field via pipeline, and inject it into the oil reservoir, thereby cutting atmospheric CO2 emissions from the power plant. Complex calculations are required for the various actual and potential emissions involved in the project, and careful account is taken of the actual retention of CO2 in the reservoir before CERs can be received.
Vietnam	Blend cement production	Confidential	CDM	ACM0005	t.b.c.	The Project involves production of blend cement in Vietnam. Emission reduction will be achieved by reducing amount of clinker used for cement production.
Vietnam	Biogas extraction from wastewater	Quang Ngai Agricultural Products and Foodstuff Stock Company (Vietnam), Sumitomo Corp. (Japan)	CDM	AMS-III.H	55,222	The project activity involves the installation of a closed anaerobic wastewater treatment and biogas extraction system for thermal energy generation at an existing tapioca starch manufacturing plant in Quang Ngai Province.
Vietnam	Biogas extraction from wastewater	Veyu Enterprise Co., Ltd. (Vietnam), Sumitomo Corp. (Japan)	CDM	AMS-III.H	30,792	The installation of a closed anaerobic wastewater treatment and biogas extraction system for thermal energy generation at an existing tapioca starch manufacturing plant in Gia Lai Province.
Vietnam	Solar	The Energy Conservation Center of Ho Chi Minh City (Vietnam)	CDM POA	AMS-I.C	2,542	This CDM Programme of Activities involves the installation of solar water heating systems in households, kindergartens, small hotels and other small buildings in the south of Vietnam. Emissions reductions from the first CPA are expected to be 2,542 tCO2e/year.