

CARBON PORTFOLIO - PERU 2017
Summary: Energy, Industry & Others

Code	Type Project	Project Name and Description	Emission Reduction (TCO2e/year)	Investments in Millions (US$)	DNA Approval (LOA)	CDM Status	Sale Situation
H-1	**Hydropower**	Poechos I Hydroelectric Power Plant: A new Hydroelectric power plant connected to the grid located in the North-western department of Piura, with an installed capacity and projected yearly average generation in 15.2 MW and 57,740 MWh per year, respectively.	31,463.00	16.5	YES	Registered	ERPA with Prototype Carbon Fund of the World Bank
H-2	**Hydropower**	Poechos II Hydroelectric Power Plant: The Project is a second phase of an existing hydropower project, Poechos I, located in the North-western department of Piura; with an installed capacity of 10 MW and an annual production of energy of 40 GWh.	22,771.00	10.5	YES	Registered	Contract with Endesa Carbono to sell CERs
H-3	**Hydropower**	La Virgen Hydroelectric Power Plant: Is a new hydropower project connected to the grid with 64 MW of installed capacity and will produce an average generation of 386,8 GWh. The project will be located in the department of Junin, province of Chanchamayo.	220,194.00	100	YES	Registered	Looking for CERs buyers
H-4	**Hydropower**	La Joya Hydroelectric Power Plant: Is a new hydropower project connected to the grid with 14.96 MW of installed capacity and will produce an average generation of 88.53 GWh. The project will be located in the department of Arequipa.	41,987.00	17.55	YES	Registered	Looking for CERs buyers
H-5	**Hydropower**	El Platanal Hydroelectric Power Plant: El Platanal is a new hydroelectric project with 220 MW of installed capacity; producing an average generation of 1,063 GWh that connects to the national grid. It is located in the provinces of Cañete and Yauyos, in the deartment of Lima.	501,814.00	360	YES	Registered	CER´s negotiation is closed
H-6	**Hydropower**	Centauro I Hydroelectric Power Plant: New hydropower project with an installed capacity of 12.5MW. The project will be located in the department of Ancash, province of Asunción.	68,000.00	12	YES	PDD under elaboration	Looking for CERs buyers
H-7	**Hydropower**	Chaglla Hydroelectric Power Plant CDM projet: The proposed project activity consist in the installation and operation of a new hydroelectric power plant located in the provinces of Pachitea and Huanuco in the Department of Huánuco in Peru. With 462.03 MW of installed capacity, the gridconnected hydroelectric project activity will use water resources from the Huallaga River to generate renewable energy.	1,814,613.00	1.01	YES	Registered	Looking for CERs buyers
H-8	**Hydropower**	Rehabilitation of Calca Hydroelectric Power Plant: The project consists in the rehabilitation of an old hydropower plant, located in Cusco, with 2 MW of installed capacity and an average generation of 15,07 GWh per year.	8,111.00	1.1	NO	PIN	Looking for CERs buyers
H-9	**Hydropower**	San Gaban I Hydroelectric Power Plant: Hydroelectric run off river Project of 150 MW, located on the San Gaban River, Department of Puno, District of Carabaya.	550,000.00	225	YES	PDD under elaboration	Looking for CERs buyers
H-10	**Hydropower**	San Gaban III Hydroelectric Power Plant: The project is located in the district of San Gabán, province of Carabaya, department of Puno. Its installed capacity is estimated in 178 MW, and has an annual electric energy production of 1 344,84 GWh.	700,000.00	438	NO	PIN	Looking for CERs buyers
H-11	**Hydropower**	San Gabán IV Ollachea Hydroelectric Power Plant: It's located in Macusani river in the province of Carabaya of the department of Puno. It consists of a run of river hydroelectric power plant of 256 MW and an average net annual generation of 1,381 GWh.	746,000.00	441	NO	PIN	Looking for CERs buyers
H-12	**Hydropower**	Mancahuara Hydroelectric Power Plant: It's located in Apurimac and consists in the rehabilitation of an old abandoned hydropower plant. The installed capacity will be 2.5 MW with a yearly average generation of 15 GWh.	9,962.00	2.37	YES	validation	Looking for CERs buyers
H-13	**Hydropower**	Hercca Hydroelectric Power Plant : It's located in the department of Cusco. The hydropower plant will have 4 MW of installed capacity and an estimated annual generation of 42.53 GWh.	26,018.00	5.84	NO	PIN	Looking for CERs buyers
H-14	**Hydropower**	Santa Rosa Hydroelectric Power Plant: It's a bundle of 3 small run-of-river hydroelectric power plants, located in the department of Lima. The installed capacity and projected average generation are 4.1 MW and 30.1 GWh per year respectively.	13,845.00	3.66	YES	Registered	ERPA with Community Development Carbon Fund
H-15	**Hydropower**	Santa Cruz I Hydroelectric Power Plant: It's a run-of-river hydropower plant, located in the north east of Lima, Department of Ancash. The plant will have an installed Capacity of 5.9 MW and a yearly average generation of 35.8GWh.	16,927.00	7.5	YES	Registered	Contract with Endesa Carbono to sell CERs
H-16	**Hydropower**	Rehabilitation of Callahuanca Hydroelectric Power Station: It's located in the department of Lima, currently the plant has a total installed capacity of 84,17 MW. This refurbishment will increase the plant's capacity up to 82.5 MW and the annual generation would be 600 GWh.	18,189.00	13.8	YES	Registered	CERs will be sold to ENDESA
H-17	**Hydropower**	Gera II Hydroelectric Power Plant: It is a small project activity, located in San Martin Region. The project takes advantage of the water from Gera I project, generating 2 MW and a yearly projected generation of 11.62 GWh.	7,106.00	4.5	NO	PIN	Looking for CERs buyers
H-18	**Hydropower**	Pucara Hydroelectric Power Plant: This project is located in San Pablo district of the Cusco Region. The proposed project will have an installed capacity of 178 MW and a yearly average generation of 1141,4 GWh.	696,150.00	360	YES	Validation	Looking for CERs buyers
H-19	**Hydropower**	Pias I Hydroelectric Power Plant: It's located in the department of La Libertad. The Project installed capacity would be 12.6 MW and the projected yearly generation, 91.7 GWh.	56,292.00	18.2	YES	Registered	Looking for CERs buyers
H-20	**Hydropower**	Huanza Hydroelectric Power Plant: Hydropower project connected to the grid, 90.6 MW of capacity and 430 GWh energy generation per year. Located in the department of Lima, province of Huarochirí, district of Huanza.	235,494.00	251	YES	Registered	Looking for CERs buyers
H-21	**Hydropower**	Marañon Hydroelectric Power Plant: The project consists of a new power plant of 88 MW, run of the river plant with daily regulation new hydroelectric power plant interconnected to the grid with an average annual energy generation of 419 GWh. Simple engineering solution with no tunnel consisting a weir structure to divert water; 1.4 Km conveyance system and two Francis units powerhouse and substation. Located in the Region of Huanuco.	270,195.00	136.6	YES	Registered	Looking for CERs buyers
H-22	**Hydropower**	Rapay Salto 2 Hydroelectric Power Plant: The project consists of a new hydropower project connected to the grid with an installed capacity of 77 MW and an estimated energy annual production of 411 GWh. It will be located in the department of Lima.	233,969.00	76.6	NO	PIN	Looking for CERs buyers
H-23	**Hydropower**	Rapay Salto I Hydroelectric Power Plant: The project consists in a new hydropower project connected to the grid with an installed capacity of 89 MW and an estimated energy annual production of 428 GWh. It will be located in the department of Lima.	243,647.00	100.00	NO	PIN	Looking for CERs buyers

FONAM
National Environmental Fund - Peru

Code	Type Project	Project Name and Description	Emission Reduction (TCO2e/year)	Investments in Millions (US$)	DNA Approval (LOA)	CDM Status	Sale Situation
H-24	Hydropower	Rehabilitation of Machupicchu Hydroelectric Power Plant: The project consists in the rehabilitation of Machu Picchu phase II hydropower plant which is connected to the grid with an increase of installed capacity of 100 MW and an estimated energy annual production of 850 GWh. It will be located in the department of Cusco, province of Urubamba.	392,796.30	148.69	YES	PDD under elaboration	Looking for CERs buyers
H-25	**Hydropower**	SANTA TERESA Hydroelectric Power Plant:The project is a new run-of-river hydropower plant, to be connected to the National grid, with an installed capacity of 98 MW and an estimated annual energy production of 722 GWh. It will be located in the department of Cusco, province of Urubamba.	416,608.00	154.5	YES	PIN	Looking for CERs buyers
H-26	**Hydropower**	Chirhuain Hydroelectric Power Plant: the project consist in the rehabilitation of an old hydropower plant connected to the grid with an installed capacity of 5.0 MW and an estimated annual energy production of 33 GWh. It will be located in the department of Pasco.	18,785.00	10	NO	PIN	Looking for CERs buyers
H-27	**Hydropower**	Santa Rita Hydroelectric Power Plant: The project consist in a hydropower plant with an installed capacity of 225 MW. The estimated electric generation is 1,500 GWh per year. It will be located in the central Andean region of Peru. 484 km to the north-east of Lima. Its benefits are the result of the excellent hydrology of the Santa River and a head of 220 meters.	187,008.00	534.48	YES	Validation	ERPA with EEA Fund
H-28	**Hydropower**	Central Graton Hydroelectric Power Plant: It consist of a new hydropower plant connected to the grid with an installed capacity of 5 MW and estimated energy annual production of 34,6 GWh. It will be located in the department of Lima, province of Huarochiri.	20,272.00	5.75	YES	PDD under elaboration	Looking for CERs buyers
H-29	**Hydropower**	Fuel substitution by Hydro Generation in Pasto Bueno: It consists of a new 0.8 MW hydropower project that will replace diesel fuel-generated energy. It will be located in the department of Ancash, province of Pallasca.	5,326.00	3	YES	Registered	Closed
H-30	**Hydropower**	Quitaracsa I Hydroelectric Power Plant: The project consists in a run-of-the-river hydroelectric power plant with one dam designed for daily accumulation. It is located in Ancash Region, Province of Huaylas, District of Yuracmarca, approximately 500 Km NE from Lima. The installed capacity is 114 MW and the estimated yearly average generation is 606 GWh.	249,463.00	540	YES	PIN	Looking for CERs buyers
H-31	**Hydropower**	Cheves Hydroelectric Power Plant: The project consists of a new run-of-river hydroelectric power project in the provinces of Oyon and Huaura, department of Lima. The total installed capacity will be 171 MW with a predicted power generation of 426 GWh per year.	393,831.00	506	YES	Registered	Looking for CERs buyers
H-32	**Hydropower**	Naranjos II Hydroelectric Power Plant: The project consists of a new hydroelectric power plant connected to the grid with an installed capacity of 6.4 MW and a yearly average electric generation of 30,484 GWh, it will be located in the department of San Martin, province of Rioja.	16,526.00	22.7	NO	PIN	Looking for CERs buyers
H-33	**Hydropower**	Comas Hydroelectric Power Plant: It will be located in the department of Junin. It consists in a new hydroelectric power plant with an installed capacity of 4 MW an a yearly average electricity generation of 28.1 GWh.	15,172.00	6.9	NO	PIN	Looking for CERs buyers
H-34	**Hydropower**	Yanapampa Hydroelectric Power Plant: The project consist of a new hydroelectric power plant connected to the grid with an installed capacity of 4,128 MW and a yearly average ectricity generation of 64,772 GWh. It will be located in the department of Ancash, province of Ocros.	29,690.00	9	YES	Registered	Contract with DEUMAN to sell CERs
H-35	**Hydropower**	Santa Cruz II Hydroelectric Power Plant: It will be located in the department of Ancash. It consists of a run-of-river hydropower plant with an installed capacity of 6 MW an a yearly average electricity generation of 38.55 GWh.	25,644.00	10.22	YES	Registered	Contract with Endesa Carbono to sell CERs
H-36	**Hydropower**	Retrofiting of existing Restitucion hydropower plant: The project consists in the retrofitting of an existing hydropower plant, increasing the installed capacity in 13.6 MW and the annual energy generation in 101 GWh that will be provided to the National Interconnected Electric System (SEIN). It will be located in department of Huancavelica, province of Tayacaja, district of Colcabamba.	48,723.41	22.7	NO	PIN	Looking for CERs buyers
H-37	**Hydropower**	Cerro del Aguila Hydroelectric Power Plant: The project consists of a run –of-the river hydroelectric facility, with an installed capacity of 525 MW and an average energy generation of 3,139 GWh per year, to be installed in Huancavelica, central Andean region of Peru. This project is located downstream of the Mantaro hydro complex (1,000 MW).	1,973,272.00	948	YES	Registered	Looking for CERs buyers
H-38	**Hydropower**	Santa Maria Hydroelectric Power Plant: It will be located in the department of Puno. It consists of a new hydropower plant with an installed capacity of 750 MW and an average energy generation of 6,100 GWh per year.	2,300,000.00	1.6	NO	PIN	Looking for CERs buyers
H-39	**Hydropower**	San Gaban IV Corani Hydroelectric Power Plant: It will be located in the department of Puno. It consists of a new run-of-river hydroelectric power plant with an installed capacity of 43.7 MW and an average energy generation of 268 GWh per year.	145,000.00	76.78	NO	PDD under elaboration	Looking for CERs buyers
H-40	**Hydropower**	Baños IV Hydroelectric Power Plant: The project is a run-of-river hydropower plant located in the province of Huaral. The Projects purpose is renewable electricity generation to be supplied to Animon's mining unit. The capacity installed will be 4.9 MW and the estimated yearly average generation will be 34.0 GWh.	22,416.00	7.4	NO	Validation process VCS.	TBD
H-41	**Hydropower**	Chancay Hydroelectric Power Plant: The project is a run-of-river hydropower plant located in the province of Huaral, department of Lima. The Project's purpose is renewable electricity generation to be supplied to Animón's mining unit. The installed capacity will be 60 MW and the estimated yearly average generation will be 418 Gigawatts hour/year (GWh).	87,762.00	130.5	YES	Registered	Contract with EcoRessources to sell CERs
H-42	**Hydropower**	Belo Horizonte Hydroelectric Power Plant: The project is located in Huanuco-Peru, District Municipality of Monzón and Rupa Rupa; has an Installed Capacity of 180 MW and an estimated yearly average generation of 1,220 GWh. It uses the hydroelectric potential of the Monzón river before it´s confluence with the Huallaga River near TingoMaría city in the Ucayali Region.	560,000.00	389.2	NO	PDD under elaboration	Contract with EcoRessources to sell CERs
H-43	**Hydropower**	Angel I, II, III Hydroelectric Power Plant. The project is a bundling of three (3) new hydroelectric power plants located in the province of Carabaya, department of Puno. The Project's purpose is renewable electricity generation to be supplied to the electric grid. The installed capacity will be 60 MW and the estimated yearly average generation will be 394 Gigawatts hour (GWh).	219,940.00	150	YES	Registered	Sell Commitment

Code	Type Project	Project Name and Description	Emission Reduction (TCO2e/year)	Investments in Millions (US$)	DNA Approval (LOA)	CDM Status	Sale Situation
H-44	Hydropower	Huasahuasi I-II Hydroelectric Power Plant. It is a new hydroelectric power plant located in the department of Junin. The total installed capacity will be 20 MW and the estimated yearly average generation will be 85 GWh.	73,453.00	31.9	YES	Registered	Contract with Endesa Carbono to sell CERs
H-45	Hydropower	Nuevo Imperial Hydroelectric Power Plant. The project is a new hydroelectric power plant located in the department of Lima. The total installed capacity will be 3.97 MW and the estimated yearly average generation will be 25 GWh.	18,652.00	8.3	YES	Registered	Looking for CERs buyers
H-46	Hydropower	Purmacana Hydroelectric Power Plant. It is a new hydroelectric power plant located in the department of Lima. The total installed capacity will be 1.8 MW and the estimated yearly average generation will be 11.67 GWh.	7,164.00	3.4	YES	Registered	Contract with Endesa Carbono to sell CERs
H-47	Hydropower	Roncador Hydro Power Plant. The project is an hydroelectric power plant located in the province of Barranca, department of Lima. The purpose of the project is the generation of renewable electricity to be supplied to the electric grid. The total installed capacity will be 3.8 Mw, and the estimated yearly average generation, 28.12 GWh.	17,276.90	8	NO	PIN	Looking for CERs buyers
H-48	Hydropower	Shima Hydroelectric Power Plant. It is a new hydroelectric power plant located in the department of San Martin. The installed capacity will be 6.4 MW and the estimated yearly generation, 32.922 GWh.	20,128.50	9.6	NO	PIN	Looking for CERs buyers
H-49	Hydropower	Baños V Hydroelectric Power Plant. The project is run-of-river hydropower plant located in the province of Huaral, department of Lima. The purpose of the project is the generation of renewable electricity to be supplied to Animon's mining unit. The installed capacity will be 9.2 MW, and the estimated yearly average generation, 58.96 gigawatts hour (GWh).	35,590.00	21.8	YES	Registered	Contract with EcoRessources to sell CERs
H-50	Hydropower	Pizarras Hydroelectric Power Plant: The project is a new run of river hydroelectric power plant located in the province of Santa Cruz, department of Cajamarca. The purpose of the project is the generation of renewable electricity to be supplied to the electric grid. The installed capacity will be 18MW and the estimated yearly average generation.	68,132.00	45	YES	Registered	Closed
H-51	Hydropower	ALIS II -Hydroelectric Power Plant. The proposed project is a run-of-river hydropower plant, located in the province of Yauyos, in the department of Lima. The plant will have an installed capacity of 60 megawatts (MW) and a projected yearly average generation of 370,000 megawatt hour (MWh).	336	82	NO	PDD	Looking for CERs buyers
H-52	Hydropower	Vilcanota 1 Hydroelectric Power Plant: The Vilcanota 1 HPP has the operational characteristics of a typical run-of-river HPP, the installed capacity is 19.8 MW and produces 136,5 GWh per year. The project is located about 90 km north west of the city of Cuzco and can be reached by public transport and/or existing roads. The next connection point to the national electricity grid is located around 10 km upstream of the project.	90,000.00	51	NO	PIN	Looking for CERs buyers
H-53	Hydropower	Vilcanota 4 Hydroelectric Power Plant: The Vilcanota 4 HPP has the operational characteristics of a typical run-of-river HPP, the installed capacity is 72,5 MW and produces 445 GWh per year. The project is located about 90 km north west of the city of Cuzco and can be reached by public transport and/or existing roads. The next connection point to the national electricity grid is located around 16 km upstream of the project.	290,000.00	155	NO	PIN	Looking for CERs buyers
H-54	Hydropower	Santa Cruz III Hydroelectric Power Plant:The project consists of a run-of-river hydropower plant connected to the grid with an installed capacity of 3 MW and a projected yearly average generation of 16,700 MWh. It will be located in the department of Ancash, province of Huaylas.	10,251.00	6.33	YES	Registered	Looking for CERs buyers
H-55	Hydropower	Las Cruces Hydroelectric Power Plant: The project is located in Salamanca district, department of Arequipa, and it will have an installed capacity of 18,0 MW.	61,474.70	26	NO	PIN	Looking for CERs buyers
H-56	Hydropower	ANTA II Hydroelectric Power Plant: The proposed project is a run-of-river hydropower plant using the Huaura river located in Lima Department. The plant will have an installed capacity of 80 megawatts (MW) and a projected yearly average generation of 528,000 megawatt hours (MWh).	448,512.00	135	NO	PIN	Looking for CERs buyers
H-57	Hydropower	ANTA I Hydroelectric Power Plant: The proposed project is a run-of-river hydropower plant using the Huaura river located in Lima Department. The plant will have an installed capacity of 66 megawatts (MW) and a projected yearly average generation of 428,000 megawatt hour (MWh).	370,022.40	103	NO	PIN	Looking for CERs buyers
H-58	Hydropower	CHURO Hydroelectric Power Plant: The proposed project is a run-of-river hydropower plant located in the province of Yauyos. The plant will have an installed capacity of 40 megawatts (MW) and a projected yearly average generation of 243,040 megawatt hours (MWh). The plant will have 2 machines, each group of 12 MW.	201,830.00	57	NO	PIN	Looking for CERs buyers
H-59	Hydropower	CENTAURO III Hydroelectric Power Plant: New hydropower project with an installed capacity of 15 MW. The project will be located in the department of Ancash, province of Asunción.	70,000.00	12	YES	PD	Looking for CERs buyers
H-60	Hydropower	Vilcanota 5 Hydroelectric Power Plant: The Vilcanota 5 HPP has the operational characteristics of a typical run-of-river HPP, the installed capacity is 19.8 MW and produces 136.5 GWh per year. The project is located about 90 km north west of the city of Cuzco and can be reached by public transport and/or existing roads. The next connection point to the national electricity grid is located around 19 km upstream of the project.	90,000.00	48	NO	PIN	Looking for CERs buyers
H-61	Hydropower	Tunki Small Scale Hydropower Program of Activities: The Tunki PoA will support the development of new small scale hydropower projects in Peru connected to the Peruvian National Electricity Grid (SEIN). Each small-scale CDM Program Activity will comprise one or more hydropower plant projects having a combined installed capacity of no more than 15 MW.	100,000.00	TBD	YES	Registered	Looking for CERs buyers
H-62	Hydropower	Inti Renewable Energy Program of Activities ("Inti PoA"): The "Inti PoA" aims to encourage the wide scale adoption of sustainable small hydro power plants of up to 20 MW in Peru that minimize the impact on flora and fauna, and contribute to the socioeconomic development of the local population.	90,000.00	TBD	YES	Registered	Looking for CERs buyers
H-63	Hydropower	Potrero Hydropower Plant: Potrero is a run of river hydroelectric power plant located in the Province of San Marcos, Region of Cajamarca, in Peru. The project owner is "Empresa Electrica Agua Azul S.A.", a subsidiary of Aluz Clean Energy plc. Total installed capacity will be 19.9 MW.	91,243.00	47.8	YES	Registered	Open, Sell Commitment, Closed
H-64	Hydropower	Rucuy Hydroelectric Power Plant: The project is a run-of-river hydropower plant located in the province of Huaral, department of Lima. The project uses the hydroelectric potential of the Chancay River. The project's purpose is renewable electricity generation to be supplied to Peruvian Electricity System (SEIN). The capacity installed will be 20 MW and the estimated yearly average generation will be 118.9 GW-h/year.	78,391.00	46	NO	PIN	TBD

Code	Type Project	Project Name and Description	Emission Reduction (TCO2e/year)	Investments in Millions (US$)	DNA Approval (LOA)	CDM Status	Sale Situation
H-65	**Hydropower**	Chancay 2 and Chancay 3 Hydroelectric Power Plant: The project is a run-of-river hydropower plant located in the province of Huaral, department of Lima. The Project's purpose is renewable electricity generation to be supplied to Peruvian Electricity System (SEIN). The installed capacity will be 30 MW and the estimated yearly average generation will be 210 Gigawatts hour/year (GWh).	138,453.00	TBD	NO	TBD	TBD
H-66	**Hydropower**	Manta Hydroelectric Power Plant	91,117.00	40	SI	without contract or deal	TBD
H-67	**Hydropower**	Caña Brava Hydroelectric Power Plant. The proposed project is a run-of-river hydropower plant, located 80 km east of Chiclayo City, in the Department of Cajamarca, north of Lima. The plant will have maximum capacity of 6 MW and a projected yearly average generation of 38.6 Gigawatt hours (GWh).	21,973.90	9.05	YES	Registered	Contact Developer
H-68	**Hydropower**	Carhuaquero IV Hydroelectric Power Plant. The proposed project is a run-of-river hydropower plant, located 80 kilometers (km) east of Chiclayo City, in the Department of Cajamarca, north of Lima at 372 meters (m) above sea level (masl). The plant will have an installed capacity of 10 MW and a projected yearly average generation of 66,5 Gigawatt hours (GWh).	23,909.34	6.4	YES	Registered	Contact Developer
H-69	**Hydropower**	Runatullo II Hydroelectric Power Plant. It is located in Peru, at the basin of the Runatullo River in Tulumayo Valley, Comas district, Concepción province and Junín region. The Project's expected installed capacity is 19.11 MW, with a projected annual net electricity generation of 80 000 megawatt hours (MWh) per year.	71,219.00	35.6	YES	Registered	Contact Developer
H-70	**Hydropower**	Runatullo III Hydroelectric Power Plant. is located in Peru, at the basin of the Runatullo River in Tulumayo Valley, Mariscal Castilla district, Concepción province and Junín region. The Project's expected installed capacity is 20 MW, with a projected annual net electricity generation of 120 000 megawatt hours (MWh) per year.	86,846.00	31.1	YES	Registered	Contact Developer
H-71	**Hydropower**	RenovAndes H1, Small Hydropower Project. It is a run of river hydroelectric power plant located in the Province of Chanchamayo, Region of Junin, in Peru, implemented by the compañy named EGE Santa Ana S.R.L.. The total installed capacity of the Project will be of 19,99 MW, with a net electricity generation potencial of 159,3 GWh per year.	735,446.00	58.8	YES	Registered	Contact Developer
H-72	**Hydropower**	Nueva Esperanza. The Project is located in the Monzón district, Huamalie province, Huánuco department. The Project's expected total installed generating capacity is 9,16 MW, with an expected annual net electricity generation supplied to the SEIN of 54,6 GWh.	35,826.00	15.63	YES	Registered	Contact Developer
H-73	**Hydropower**	8 de Agosto. It is a run-of-river hydro power plant located at the river Aucantagua.The Project is located in the Monzón district, Huamalie province, Huánuco department. The Project's expected total installed generating capacity is 19 MW, with an expected annual net electricity generation of 147,294 MWh.	97,122.00	51	YES	Registered	Contact Developer
H-74	**Hydropower**	Olmos 1 Hydroelectric Power Plant. The project is located in Lambayeque and Piura departments, 150 m from the outlet of the transandino tunnel. The Project's expected installed capacity is 51 MW which consisting of two generating sets (generators and turbines) with an expected average generation of 303,000 MWh/yr.	199,792.00	91.3	YES	Registered	Contact Developer
H-75	**Hydropower**	EN BADEN Large-Scale Hydro PoA in Peru. The objective of this PoA is to develop a platform for overcoming institutional, financial and structural hurdles for the implementation of hydroelectric power plant projects or to increase the generation capacity of existing hydroelectric power plants.	36,222.00	TBD	YES	Registered	Contact Developer
TL-1	**Transmission Line**	Grid Connection of isolated electricity systems San Gabán - Puerto Maldonado: The project consists in the implementation of a Transmission Line named "San Gaban Puerto – Maldonado". It will implement the following installations: Transmition Line 134 kV San Gabán - Masuko con 68.8 km; Transmition Line 66k kV Masuko - Puerto Maldonado with 155.7 km. It is located in the Department of Puerto Maldonado.	7,790.00	20.16	YES	Validation	Looking for CERs buyers
TL-2	**Transmission Line**	138 kV Transmission Line Majes – Camana: The project consists of a new transmission line located at the south of Peru, in the department of Arequipa, province of Caylloma and Camana. The project extends 65,83 km of the 138kV transmission line, from Majes to Camana.	2,482.00	3.19	NO	PIN	Looking for CERs buyers
TL-3	**Transmission Line**	The Cajamarca Rural Electrification CDM Program: The Project involves 19 electrification components, including the construction of 1863.88 km of primary lines, which will allow to supply electric energy to 1,006 localities in the region of Cajamarca.	12,113.00	219.99	NO	Resgistered VCS	Looking for CERs buyers
TL-4	**Transmission Line**	220 kV Transmission Line : The project involves the development of engineering, procurement of construction supplies (civil and electromechanical works) in an integrated manner for 220 kV Transmission Line E.S. Francoise - E.S. Paragasha II.	TBD	26	NO	PIN	TBD
W-1	**Wind Power**	Bayovar Wind Energy Project: It will be located in the department of Piura. It consists of a new wind park with an installed capacity of 50 MW with the possibiity of increasing up to 100 MW.	95,000.00	95.3	NO	PIN	Looking for CERs buyers
W-2	**Wind Power**	El Tunal Wind Farm Project: The project will be located in the department of Piura, and would have an installed power capacity of 105 MW comprised of either 70 wind turbines of 1.5 MW each, or 42 wind turbines of 2.5 MW each.	209,446.00	218.3	NO	PIN	Looking for CERs buyers
W-3	**Wind Power**	Malabrigo Wind Energy Project: The project consists of a wind power plant to be connected to the national grid with an installed capacity of 45-50 MW; the annual energy production would be around of 200-260 GWh. It will be located in Malabrigo, near Trujillo city, 550 Km. north from Lima, Perú.	136,000.00	96	NO	Validation	Looking for CERs buyers
W-4	**Wind Power**	CUPISNIQUE Wind Power Plant. The project is a new wind power plant located in San Pedro de Lloc, province of Pacasmayo, department of La Libertad. The purpose of the Project is the generation of renewable electricity to be supplied to the electric grid. The installed capacity will be 80 MW and the estimated yearly average generation.	214,944.00	242	YES	Registered	Sell Commitment
W-5	**Wind Power**	MARCONA Wind Power Plant. The project is a new wind power plant located in the province of Nazca, department of Ica. The Project's purpose is the generation of renewable electricity to be supplied to the electric grid. The installed capacity will be 32 MW, and the estimated yearly average generation, 148.378 gigawatts hour (GWh).	113,774.00	61.1	YES	Registered	Looking for CERs buyers
W-6	**Wind Power**	TALARA Wind Power Plant. The project is a new wind power plant located in Pariñas, province of Talara, department of Piura. The Project's purpose is renewable electricity generation to be supplied to the electric grid. The installed capacity will be 30 MW, and the estimated yearly average generation, 119.673.	86,866.00	101.00	YES	Registered	Looking for CERs buyers

Code	Type Project	Project Name and Description	Emission Reduction (TCO2e/year)	Investments in Millions (US$)	DNA Approval (LOA)	CDM Status	Sale Situation
W-7	Wind Power (PARQUE EOLICO)	Tres Hermanas Wind Farm Project: The project activity involves the development of a wind power facility comprising an installed capacity of 90 MW. The facility will be connected to the Peruvian grid through the Peruvian National Interconnected Electric Grid (Sistema Eléctrico Interconectado Nacional, SEIN).	286,225.00	185.7	NO	Validation	Looking for CERs buyers
W-8	Wind Power	Tepeu Wind Programme of Activities: The Tepeu Wind Programme of Activities aims at developing a series of wind projects located in different countries of the Latin America and Caribbean region. Nicaragua and Peru are the first countries added to the PoA.	107,000.00	83.3	YES	Registered	Looking for CERs buyers
S-1	Solar Power	Panamericana Solar 20TS Project. The project is a new solar power plant located in the department of Moquegua. The installed capacity will be 20 MW and the estimated yearly average generation will be 50.676 gigawatts hour (GWh).	36,513.00	94.59	YES	Registered	Closed
S-2	Solar Power	Tacna Solar 20TS Project. It is a new solar power plant located in the department of Tacna. The installed capacity will be 20 MW and the estimated yearly average generation will be 47.196 GWh.	34,006.00	94.6	YES	Registered	Looking for CERs buyers
S-3	Solar Power	Majes Solar 20T Project. It is a new solar power plant located in the department of Arequipa. The installed capacity will be 20 MW and the estimated yearly generation will be 37.63 GWh.	27,994.00	73.6	YES	Registered	Looking for CERs buyers
S-4	Solar Power	Reparticion Solar 20T Project. The project is a new solar power plant located in the province of Arequipa, department of Arequipa. The Project's purpose is the generation of renewable electricity to be supplied to the electric grid. The installed capacity will be 20 MW, and the estimated yearly average generation, 37.44 gigawatts.	28,488.00	73.5	YES	Registered	Looking for CERs buyers
S-5	Solar Power	MOQUEGUA FV: 16 MW Solar Photovoltaic Power Plant. The project activity involves the construction of a 16 MW AC (Alternating Current) solar photovoltaic (PV) power plant on an area of 95 ha located in the Moquegua region in Peru.	30,983.00	43	YES	Registered	TBD
S-6	Solar Power	Solar Project "Cabrerias"	872,496.00	301	NO	PIN	TBD
S-7	Solar Power	Solar Project Intipamapa	82,343.00	55	YES	Registered	Looking for CERs buyers
WM-1	Waste Management	Portillo Grande Landfill Gas Recovery Project:The project consistsin the installation of a methane collection and flare system, to be placed in the cells of Portillo Grande landfill. Portillo Grande landfill has an area of 307 hectares that currently receive 30% of Lima´s Municipal Solid Waste (MSW) around 1500 tons per day. It will be developed by the Metropolitan Municipality of Lima.	151,646.00	10.6	NO	PIN	Looking for CERs buyers
WM-2	Waste Management	El Zapallal Landfill Gas Recovery Project: The Project would be implemented in "El Zapallal" Landfill, located in the north zone of Lima, in Carabayllo District. This landfill belongs to the Municipality of Lima and was given under concession contract to RELIMA. "El Zapallal" landfill has an area of 350 hectares, currently 40 hectares has been used to waste disposal.	54,213.00	1.6	NO	PIN	Closed
WM-3	Waste Management	Huaycoloro Landfill Gas Recovery Project: The project consists in the active capture of the biogas generated in 160 vertical extraction wells connected via HDPE pipeline of more than 10 km. with the blower and the flaring station. Currently, Huaycoloro Landfill receives more than 2,800 tonnes of solid waste per day which represents more than 60 % of the total waste disposed in the city of Lima.	298,996.00	2	YES	Registered	Closed
WM-4	Waste Management	Sechura Compost Plant and Mechanized Landfill Project: The project consists in including a composting and recovery of recyclable waste, and a landfill with the aim to reduce the emissions of methane and the amount of solid waste that go to the landfill. It is located in the province of Sechura to 54Km of Piura´s center.	2,102.00	4.85	NO	PIN	Closed
WM-5	Waste Management	Biogas Recovery at Carapongo Wastewater Treatment Plant: The Wastewater Treatment Plant is located in the 17th kilometer of the Central Road in Ate-Vitarte district, and treats the drain of Chosica, Chaclacayo and Huaycan zones, with a treatment capacity of 500 l/s.	78,840.00	1.6	NO	PIN	Sell Commitment
WM-6	Waste Management	Wasterwater Treatment Plant at Chancay - Huaral: Creation of the treatment plant wastewater in the northern city of Chancay.	26,000.00	TBD	NO	PIN	Looking for CERs buyers
WM-7	Waste Management	Sanitary Landfill in Cajamarca: The project consists in the installation of an effective flaring system at the sanitary landfill in Cajamarca Peru. This will increase the flaring efficiency with 50%, burning off about 100 tons of methane extra per year during a 20 year period of time.	3,000.00	0.5	NO	PIN	Looking for CERs buyers
WM-8	Waste Management	Modelo del Callao Landfill Gas Capture and Flaring System: The project consists in a landfill gas (LFG) collection and flaring. It is located in Peru, close to the right bank of the Chillon River in the district of Ventanilla, in the province of Callao. The landfill has an area of 54 hectares (ha) and receives around 980 tonnes (t) of municipal solid waste (MSW) daily from Callao and the district of San Martin de Porras.	61,024.00	6	YES	Registered	Looking for CERs buyers
WM-9	Waste Management	Methane Recovery in Wasterwater Treatment Plant– Sullana: The project consists on the capture of the methane gas produced during the biological treatment of domestic waste water in WTP Sullana, department of Piura. The plant was originally designed to treat 380 l/s of wastewater from the localities from Salitral, Marcavelica, Querocotillo, Lancones and Concepcion, all of them bordering the Chira River.	26,732.00	1.65	NO	PIN	Looking for CERs buyers
WM-10	Waste Management	La Chira Wwastereater Treatment Plant and Outfall.It consists in the design, financing, construction, operation and maintenance of a waste water treatment plant and outfall in order to treat 6,300 l/s average or 11,300 l/s at maximum of wastewater. It will be located near La Punta-La Chira, south of Lima, in the district of Chorrillos.	15,000.00	122	NO	PIN	Looking for CERs buyers
WM-11	Waste Management	Taboada Wasterwater Treatment Plant. It consists on the Design, financing, construction, operation and maintenance of a waste water treatment plant in order to treat 14,000 l/s average or 20,000 l/s at maximum of wastewater. The project will be located near the International Airport Jorge Chavez, at the province of Callao, west zone of Lima.	TBD	212.5	NO	PIN	Looking for CERs buyers
WM-12	Waste Management	Wasterwater Treatment Plant at Arequipa: The project consists on the design, financing, construction, operation and maintenance of a wastewater treatment plant in order to treat 2,500 l/s average of wastewater. It will serve 822,044 people from the city of Arequipa. The project will be located in the north part outside the city.	28,180.00	170	NO	PIN	Looking for CERs buyers
WM-13	Wastewater Management	PERUVIAN DOMESTIC Wasterwater Treatment Program: The project consists on the capture of the methane gas produced during the biological treatment of domestic waste water in WTP.	900,000.00	1.65	NO	PIN	Looking for CERs buyers
WM-14	Waste Management	Simbal Wasterwater Treatment Plant: The project consists in the design, financing, construction, operation and maintenance of a wastewater treatment plant in order to treat 3.5m3/s from the domestic effluents of households located in the district of Simbal, Region of La Libertad.	27,910.00	0.7	NO	PIN	Looking for CERs buyers

Code	Type Project	Project Name and Description	Emission Reduction (TCO2e/year)	Investments in Millions (US$)	DNA Approval (LOA)	CDM Status	Sale Situation
WM-15	Waste Management	Julcan Waterwater Treatment Plant: The project consists on the, design, financing, construction, operation and maintenance of a wastewater treatment plant in order to treat the domestic effluents from households located in the district of Julcan, Region of La Libertad.	613,938.00	2	NO	PIN	Looking for CERs buyers
WM-16	Waste Management	CALAMARCA Wastewater treatment plant: The project consists in the designing, financing, construction, operation and maintenance of a wastewater treatment plant in order to treat the domestic effluents from households located in the district of Calamarca, Region of La Libertad.	386,055.00	1.2	NO	PIN	Looking for CERs buyers
WM-17	Waste Management	CASCAS Wastewater treatment plant: The project consists in the, designing, financing, construction, operation and maintenance of a wastewater treatment plant in order to treat the domestic effluents from households located in the district of Cascas, Region of La Libertad.	489,650.00	1.2	NO	PIN	Looking for CERs buyers
WM-18	Waste Management	HUASO Wastewater treatment plant: The project consists in the designing, financing, construction, operation and maintenance of a wastewater treatment plant in order to treat the domestic effluents from households located in the district of Huaso, Region of La Libertad.	310,908.00	12	NO	PIN	Looking for CERs buyers
WM-19	Waste Management	LA ESPERANZA Wastewater treatment plant: The project consists in the designing, financing, construction, operation and maintenance of a wastewater treatment plant in order to treat the domestic effluents from households located in the district of La Esperanza, Region of La Libertad.	3,014,280.00	12	NO	PIN	Looking for CERs buyers
WM-20	Waste Management	Treatment Plant in the paper manufacturer "Industrias del Papel S.A"	TBD	TBD	NO	PIN	TBD
T-1	Transportation	Bus Rapid Transport System (BRT) for Public Transport – COSAC I – Perú: The project aims to develop a massive public transportation system in the city of Lima, which will be more economic, faster, and ordered than the current system.	68,830.00	189	NO	Registered	Looking for CERs buyers
T-2	Transportation	Integration routes in Lima / GTU: The project aims to develop a massive public transportation system, for low income population, which will be more economic, faster, and ordered than the current system. It is an integrated transport system with massive, principal and complementary routes.	436,543.00	333.3	NO	PIN	TBD
T-3	Transportation	Renewal Program of Automotive Fleet to Promote Change of Energy Matrix: This Activities Program is established by means of the Presidential Decree. 213-2007-EF "Temporary Regime for the Change of Automotive Fleet of diesel vehicles," which consists in promoting renewal of the automotive fleet to new light vehicles that consume gasoline and/or vehicular natural gas (VNG)	73,563.00	50.2	NO	PIN	Looking for CERs buyers
T-4	Transportation	INTEGRAL AND SUSTAINABLE IMPROVEMENT OF PUBLIC TRANSPORT SERVICES IN THE CITY OF AREQUIPA. It consists of implementign an integrated transport in the city of Arequipa, based on High Capacity Buses using Exclusive Roads.	69,040.00	178	NO	PIN	Looking for CERs buyers
T-5	Transportation	Metro Line 1 Lima, Peru. It involves the construction and operation of a rapid, safe and convenient electrical mass transit system for the Lima metropolitan area, which will provide high density peripheral areas with a modern transport infrastructure aimed to mobilize the inhabitants.	85,841.00	250	YES	Registered	Contact Developer
B-1	Biomass	Cogeneration with Biomass at Cartavio S.A.A.: It is located in the department of La Libertad. The Project consists in the efficiency increase of the current cogeneration system by decreasing the consumption of fossil fuel and the energy purchased from the national grid.	32,887.00	6.06	YES	PDD	Looking for CERs buyers
B-2	Biomass	Avoid methane emissions using biodigester for Vinasse Treatment at Cartavio S.A.A.: It consists in treating the wastewater discharged generated in Cartavio and to generate electricity using biogas produced from the anaerobic digestion of organic matter contents in the wastewater.	120,000.00	10	NO	PIN	Looking for CERs buyers
B-3	Biomass	Paramonga bagasse boiler project: Accomplished project aimed to switching from fossil fuel baseline to a new bagasse based energy generation. This project was registered as a VCS project and nowadays is being registered on the Gold Standard.	123,136.00	17	YES	Validation	Looking for CERs buyers
B-4	Biomass	HEAVEN Biodiesel Production and Distribution for Automobile Transportation: This project will take place in the department of Lima and consists in the construction of a plant for a production of 120,000 gallons of biodiesel per day.	412,759.00	15	NO	PDD	HEAVEN Biodiesel Production and Distribution for Automobile
B-5	Biomass	COMISA Sugar cane ethanol project: The project wil be located in the department of Piura and consists in the implementation of 12,000 hectares of sugar cane crops with the purpose to generate ethanol.	192,000.00	81	NO	PIN	Looking for CERs buyers
B-6	Biomass	Palmas del Espino Biogas recovery and heat generation from Palm Oil Mill Effluent: It is located in the department of San Martin. It consists in a biogas recovery system and the generation of heat.	41,000.00	1.3	YES	Registered	Looking for CERs buyers
B-7	Biomass	Chiclayo Rice Husk Power Plant: The project consists in generating electricity by burning rice hulls, a biomass fuel. The initial stated aggregate power output from the plant will be 9.2 MW but considers the possibility to increase up to 17.5 MW the mentioned agregate power output. It will be located in the Region of Lambayeque.	14,717.00	16.62	NO	PIN	Confidentiality Agreement
B-8	Biomass	Sugar Cane Foliage for Steam and Green Power Generation. The project consists of incorporating foliage-fuel into the Peruvian National Energy Matrix.The cane harvesting and subsequent separation and use of cane foliage will facilitate a fossil fuel free production of sugar paper (from bagasse), ethanol (from molasses) and other products. It will be localized in two mills of the country.	296,000.00	20.00	NO	PIN	Confidentiality Agreement
B-9	Biomass	Rice Husk Power Generation Project in San Martin: It will be located in the department of San Martin. It consists in the construction and operation of a biomass power generation unit with an expected output of 1.726 MW that will generate 13,015 GWh per year.	8,000.00	2.8	NO	PDD under elaboration	Looking for CERs buyers
B-10	Biomass	Chira's Bioenergetic Project: It will be located in the department of Piura. It consists in an electricity cogeneration project (20 MW) with the use of biomass residues from the sugarcane harvesting process of the ethanol project "Caña Brava".	87,000.00	11.25	NO	PIN	Sell Commitment
B-11	Biomass	Marosgreen Biogas Project: It will be located in the department of Lima. It consists in the recovering of biogas produced from 1,382 horses.	6,000.00	0.7	NO	PIN	Looking for CERs buyers
B-12	Biomass	Triplay Amazonico Methane Avoidance Project: It will be located in the department of Ucayali. It consists in avoiding methane emissions through the installation of a new boiler capable of firing biomass residues.	4,131.00	1.3	YES	Registered	Looking for CERs buyers

Code	Type Project	Project Name and Description	Emission Reduction (TCO2e/year)	Investments in Millions (US$)	DNA Approval (LOA)	CDM Status	Sale Situation
B-13	Biomass	La Calera Biodigesters Project. It reduces the methane emissions through an improved manure management with four new biogas digesters. It will be built during the two project phases in order to eliminate the open lagoon system and to process part of the manure from the manure valley.	30,000.00	1.5	YES	Validation	Looking for CERs buyers
B-14	Biomass	Methane Recovery in WastewaterTreatment System at Industrias del Shanusi: LFG capture and destruction of methane gas through flaring closed. The biogas will come from anaerobic lagoon effluent treatment plant palm oil extraction. It will be located in the district of Yurimaguas, province of Alto Amazonas, department of Loreto.	22,028.00	3	YES	Registered	Sell Commitment
B-15	Biomass	Development of an Electromechanical Prototype and a Feeder Line for a Standardized Combustion Process, using Wood waste: The project consists on the transfer and adaptation of a known technology to the boiler in order to allow the use of wood waste produced by brushing, blunt and occasionally in the sawmill as fuel to generate thermal energy. The company seeks to validate the combustion process (food, air injection, onsite) preparedness and control devices for complete combustion of waste) with non-recoverable waste wood.	2,000.00	0.14	NO	Validation	Looking for CERs buyers
B-16	Biomass	Biodigester Project in Peruvian Farms: The Project involves the implementation of biodigester to substitute the anaerobic lagoon management for manure of swine farms. Biogas also will be used for heating purposes in the farm.	3,700.00	TBD	NO	PIN	Looking for CERs buyers
B-17	Biomass	Biodigester in San Fernando Farms: The Project involves the implementation of biodigesters to substitute partially the anaerobic lagoon management for manure of swine farms.	12,000.00	TBD	NO	PIN	Looking for CERs buyers
B-18	Biomass	Biodigester Treatment for solid manure of Poultry Farm: The Project involves the implementation of biodigesters to handling the solid manure of the poultry farm, Cerro Azul, the biogas will be use to generate electricity.	2,700.00	TBD	NO	PIN	Looking for CERs buyers
B-19	Biomass	Project Gringa V: Solid Fuel Production from old municipal waste that will be used for steam boiler and turbo-generator.	TBD	5.1	NO	PIN	Looking for CERs buyers
B-20	Biomass	Bionersis Project Peru 1. The small-scale project activity is to build, operate and maintain a landfill gas collection and flaring system on the San Jacinto landfill in Iquitos, Peru. It is an anaerobic managed landfill, managed by the provincial municipality of Maynas. The location details of the landfill are provided in section A4.	11,864.00	1.17	YES	Registered	Contact Developer
FS-1	Fuel Switching	Fuel Switching at Atocongo Cement Plant and Natural Gas Pipeline Extension: The project will develop a fuel switching project from coal to natural gas in cement production at its cement plant locate in Atocongo. The project considers the construction and installation of a 3.5 km natural gas pipeline.	269,851.00	6.6	YES	Registered	Sell Commitment
FS-2	Fuel Switching	REX S.A. Fuel Switching Project: It consists in the replacement of highly pollutant anthracite coal by natural gas in the four kilns at CIA Rex S.A.	26,016.00	0.55	YES	PDD under elaboration	Closed
FS-3	Fuel Switching	Peruvian Fuel-Switching Project: The project consists on investment to replace the use of liquid petroleum fuel by natural gas. "Sudamericana de Fibras S.A." leads this fuel-switching project that involves the conversion of its plant located in Constitutional Province of Callao.	25,577.00	0.69	YES	Registered	Contract with MGM Int.
FS-4	Fuel Switching	Fuel oil to natural gas switching at Tecnologica de Alimentos S.A. (TASA) Callao Sur plant: The project consists in switching from residual oil – R6 to natural Gas – NG in the boilers and dryers of the plants of TASA.	4,900.00	0.6	YES	Validation	Looking for CERs buyers
FS-5	Fuel Switching	Natural gas Fuel Switching at Chaclacayo: It will be located in the department of Lima. It consists in the fuel switching in industries which currently use residual oil and have no acces to natural gas.	15,763.00	0.1	NO	PIN	Looking for CERs buyers
FS-6	Fuel Switching	Fuel switch project from heavy fuel to LPG : The project generates emissions reductions by switching fuel in manufacturing facilities, from heavy bunker to mixtures of propane/Butane (Liquefied Petroleum gas). The project scope is nationwide and focused to agro industrial facilities.	30,000.00	1.5	NO	Registered	Closed
FS-7	Fuel Switching	Food Plant Boiler to CNG Switching Project: The project consists in switching fuel oil to Compressed Natural Gas (CNG) for the boiler of the food plant of San Fernando.	1,200.00	1.1	NO	PIN	Looking for CERs buyers
FS-8	Fuel Switching	Natural Gas Fuel Switch in Hospitals of Ministry of Health in Lima-Peru. The Project comprises the fuel switching from Diesel to Natural Gas in boilers of 19 hospitals that belongs to the Ministry of Health of Peru located in the city of Lima.	2,600.00	TBD	NO	PIN	Looking for CERs buyers
FS-9	Fuel Switching	Implementation of a Hospital Waste Treatment Plant by Microwave waves in the City of Trujillo, Department of La Libertad, Peru	9355.5	3	NO	PIN	Looking for CERs buyers
C-1	Cogeneration	Natural Gas Cogeneration at Aris Industrial Company: The Project will totally cover the demand of steam and part of electric power demand, which will be completed by purchasing electricity from the National Grid.	1,900.00	2.7	NO	PIN	Looking for CERs buyers
C-2	Cogeneration	Natural Gas Cogeneration in Corporación Rey S.A. Industrial – LA GRINGA II: The project consists in operating a 650 kw motor generation which will replace 5,000 MWh that represents 85% of current consumption of electricity. It will be located in the province of Callao.	1,657.00	0.32	NO	PIN	Looking for CERSs buyers
C-3	Cogeneration	Project Gringa IV: Cogeneration plant that supplies a customer with electricity and steam produced with an associated technology. In this case with a turbine and a Heat Recovery Steam Generator Replacing both, the electricity and the natural gas been supplied by public grid.	5,000.00	0.5	NO	PIN	Looking for CERs buyers
C-4	Cogeneration	Gringa I Project: Distributed generation plant using NG as fuel. It replaces the grid supply, reducing electricity losses from transmission, voltage transformation and distribution. Also replaces the part of grid generation driven by liquid fuels.	8,500.00	2	NO	PIN	Looking for CERs buyers
C-5	Cogeneration	Maple Bagasse Cogeneration Plant. is a new Bagasse Cogeneration Plant in Peru, located in the Chira River basin in the department of Piura, 1,089 kilometers (km) north of the capital city of Lima. The plant will have a nominated power capacity of 37.5 MW and an expected annual gross energy production of 258,930 MWh.	370,073.00	25	YES	Registered	Contact Developer

Code	Type Project	Project Name and Description	Emission Reduction (TCO2e/year)	Investments in Millions (US$)	DNA Approval (LOA)	CDM Status	Sale Situation
EE-1	Energy Efficiency	CDM PROGRAM TO REPLACE FLORESCENT Lamps T12 with Fluorescent lamps T8 at public and private biuldings: The project aim is to replace one million of T12 fluorescent lamps for T8 fluorescent lamps at Government buildings.	2,784.00	0.15	NO	PDD	Looking for CERs buyers
EE-2	Energy Efficiency	Waste Heat Recovery from the Sponge Iron Production Kilns for Power Generation project: CAASA has, in his Plant N° 2 Pisco two kilns for sponge iron (DRI) production. The exhaust fumes have thermal energy enough for generate 5 MW of electric energy in steam turbine. CAASA are studying put 2 kilns with high capacity (five times than actual) With this, is feasibility produce 30 MW more.	120,000.00	50	NO	PDD under elaboration	Looking for CERs buyers
EE-3	Energy Efficiency	Ventanilla Conversion from single cycle to combined cycle power generation project: The project consist in converting two open-cycle gas turbine of 160 MW each into a combined-cycle facility that adds approximately 180 MW of generating capacity to Peru's electric power grid . It will have a total installed capacity of 500 megawatts (MW), generating annually an average of approximately 3,942 gigawatt hours (GWh) of electricity. It is located near Lima, in the province of Callao.	407,296.00	135	YES	Registered	Comercialization Contract with Endesa Carbono
EE-4	Energy Efficiency	590 MW Natural gas based grid connected combined cycle power plant - ElectroPeru. The project consists in setting up a new grid connected power plant with a total capacity of 590 MW. The thermal power plant will predominantly operate in base load mode. The project will be located in the District of Chilca, province of Cañete, region of Lima.	TBD	570	NO	PIN	TBD
EE-5	Energy Efficiency	Kallpa combined cycle thermoelectric power plant: Conversion of Open Cycle Gas Turbines to Combined Cycle at Kallpa Thermoelectric Power Plant.	927,957	587	YES	Registered	Looking for CERs buyers
EE-6	Energy Efficiency	Substitution of Natural Gas by Waste Heat using the new Heat Recovery Steam Generator (HRSG) of Sudamericana de Fibras S.A. It consist in the recovery of waste heat generated by a thermal power plant and the generation of electric power and heat SdF plant. This process will have a power generation potential of 3.07 MW with an estimated power generation of 24,647 MWh per year.	53,859.00	4.9	YES	PDD	TBD
EE-7	Energy Efficiency	"Light for all" - Rural electrification program with photovoltaic home systems - PHS". The objective of the program is to take care of the rural and isolated localities of the country that do not receive electricity networks, bringing the power supply through the installation of photovoltaic home systems - PHS.	12,410.00	141	NO	PIN	Open
EE-8	Energy Efficiency	Aguaytia Combined Cycle Project. Two existing gas turbines, each with 88MW of capacity, currently operating in simple (open) cycle will be converted to combined cycle to produce steam generated from the exhaust heat produced by the gas turbines to induce an additional 88MW (estimate) without using fuel nor adding gaseous emissions to the environment.	288,000.00	TBD	NO	PIN	Looking for CERs buyers
EE-9	Energy Efficiency	Energy efficiency for SMEs in Peru POA. The program involves the installation and maintenance of equipment and devices that allows energy savings in the activities of the SMEs. The energy efficiency program in the SMEs comprises electricity and fuel consumption measures.	15,000.00	12	NO	PIN	Looking for CERs buyers
EE-10	Energy Efficiency	Improving efficiency of boilers in fish meal plants. The Project comprises the refurbishment and improvement of the combustion in the boilers of Fish Meal Plant of TASA, a Peruvian company.	13,690.00	TBD	NO	PDD	Looking for CERs buyers
EE-11	Energy Efficiency	Transformation of the Lighting Market in Peru: The purpose of the project is to promote energy efficiency in residential and commercial buildings by strengthening the implementation and extensive use of Energy Saving Lighting Products (ESLs). The project aims to foster the replacement of the local market products and the progressive withdrawal of imports and sales of incandescent lighting products.	363,261.00	10.5	NO	PIN	Looking for CERs buyers
EE-12	Energy Efficiency	Inkahuasi - Improving Cook Stoves in communities surrounding to the mine Catalina Huanca: This project consists in distributing about 1000 improved cook stoves to communities surrounding Catalina Huanca mine. It is developed under the Gold Standard procedures (voluntary market).	1,000.00	0.23	NO	PIN	Looking for CERs buyers
EE-13	Energy Efficiency	Energy Efficiency at Malvinas gas plant: Consists in the installation and operation of two Waste Heat Recovery Units (WHRU) in the turbo-compressor station of the Malvinas gas plant, in order to take advantage of the residual heat from combusted gas streams. The operation of the WHRU will displace the installation and operation of two conventional natural gas fuelled hot oil heaters used to heat the oil transfer media. Thus, the project activity will displace fossil-fuel consumption (natural gas) that would have been needed in the absence of the proposed project activity in order to feed the hot oil heaters.	61,504.00	0.64	YES	Registered	TBD
EE-14	Energy Efficiency	Efficiency Energy in ANTAMINA	TBD	TBD	NO	PIN	TBD
EE-15	Energy Efficiency	Energy Efficiency in "Puerto Punta Lobitos"	TBD	TBD	NO	PIN	TBD
G-1	Geothermal Power	Borateras Geothermal Project: The project consists in the construction of a 50 MW geothermal power plant in the field of Borateras Camiri and in the south of the country in the department of Tacna.	224,406.00	140	NO	PIN	Looking for CERs buyers
		TOTAL	**31,723,623.95**	**13,058.06**			