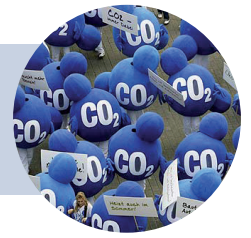




# CARBON PORTFOLIO-PERU 2011

## Summary: Energy, Industry & Others



Code	Type	Project Name and Description	Emission Reduction (TCO <sub>2</sub> e/year)	Investments in Millions (US\$)	DNA Approval (LOA)	Status	Sale Situation
H-1	Hydropower	Poechos I Hydropower Project: It has an installed capacity of 15.2 MW and a projected electricity generation of 57.74 GWh per year.	31.878	16,5	YES	Registered	ERPA with Prototype Carbon Fund of the World Bank
H-2	Hydropower	Poechos II Hydropower Project: The project is the second phase of an existing Hydropower plant, and would have an installed capacity of 10 MW and the annual production of energy is 40 GWh.	22.770	10,5	YES	Registered	Contract with Endesa Carbono to sell CERs
H-3	Hydropower	Tarucani I Hydropower Project: Its installed capacity and estimated yearly energy generation is 49 MW and 282.5 GWh, respectively.	153.958	55,7	YES	Registered	Looking for CERs buyers
H-4	Hydropower	Carhuaquero IV Hydroelectric Power Plant: Small scale project with an installed capacity of 9.7MW and projected generation of 42 GWh per year.	24.609	6,4	YES	Registered	Contract with Endesa Carbono to sell CERs
H-5	Hydropower	Caña Brava Hydroelectric Power Plant: Small scale project with an installed capacity of 5.6 MW and average generation of 38 GWh/year.	22.622	9,5	YES	Registered	Contract with Endesa Carbono to sell CERs
H-6	Hydropower	San Diego Hydroelectric Power Plant: The plant will have an installed capacity of 3.3 MW and a projected year generation of 19.68 GWh/año.	9.840	In evaluation	NO	PIN	Looking for CERs buyers
H-7	Hydropower	La Chiroca Hydroelectric Power Plant: The proposed project is a run-of-river hydropower plant, located in the irrigation of Chancay river. The plant will have an installed capacity of 19 MW and a projected year generation of 130 Gigawatts per hour (GWh/year).	64.000	In evaluation	NO	PIN	Looking for CERs buyers
H-8	Hydropower	La Virgen Hydropower Plant: The project would be located in Junin, and would have 64 MW of installed capacity and it will produce an average net annual generation of 386.8 GWh.	220.194	75,4	YES	Registered	Looking for CERs buyers
H-9	Hydropower	La Joya Hydroelectric Power Plant: the project will have an installed capacity of 14.96 MW and an annual average generation of 88.53 GWh.	41.987	17,6	YES	Registered	Contract with Endesa Carbono to sell CERs
H-10	Hydropower	El Platanal Hydropower Project: The project's installed and firm capacity is 220 MW. The estimated yearly average generation is 1,063 GWh.	501.814	350,0	YES	Registered	CER's negotiation is closed
H-11	Hydropower	Centauro I-III Hydroelectric Project: The project has an installed capacity of 25 MW and an average generation of 214 GWh per year.	90.928	25,0	YES	PDD under elaboration	Contract with EcoResources to sell CERs
H-12	Hydropower	Chaglla Hydropower Project: This project would consist in the construction of a new power plant with a power of 360 MW and the estimated annual production of energy would be 2,475 GWh.	1.408.943	607,8	NO	PIN	Looking for CERs buyers
H-13	Hydropower	Rehabilitation of Calca Hydropower Plant: The project consists of a rehabilitation of an old hydropower plant with 2 MW of installed capacity and an average generation of 15,07 GWh per year.	8.111	2,3	NO	PIN	Looking for CERs buyers
H-14	Hydropower	San Gaban I Hydroelectric Project: This project consists of a seasonal regulated hydroelectric power plant of 147.6 MW capacity and an average net annual generation of 942.9 GWh.	576.491	286,8	NO	PDD under elaboration	Looking for CERs buyers
H-15	Hydropower	San Gaban II Retrofitting Project: It is part of the initiative of San Gaban to ensure the maximum power of 110 MW. The project consists of two parts, the regulation of Putumayo River that will generate an increment of 42.26 GWh per year and the use of water from Tupuri that will generate an increment of 26 GWh per year.	38.801	8,2	NO	PIN	Looking for CERs buyers
H-16	Hydropower	San Gaban III Hydroelectric Power Station: The Project has an installed capacity is estimated in 178 MW, and annual electric energy production of 1,189 GWh.	700.000	3,0	NO	PIN	Looking for CERs buyers
H-17	Hydropower	San Gabán IV Ollachea Hydropower Plant: The project consists of a run of river hydroelectric power plant of 225.3 MW and an average net annual generation of 1,381 GWh.	746.000	395,8	NO	PDD under elaboration	Looking for CERs buyers
H-18	Hydropower	Mancahuara Hydropower Project: The project consists of a 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	2,4	YES	Start validation	Looking for CERs buyers
H-19	Hydropower	Hercca Hydropower Project :The hydropower plant will have 4 MW of installed capacity and an estimated annual generation of 42.53 GWh.	26.018	5,8	NO	PIN	Looking for CERs buyers
H-20	Hydropower	Santa Rosa Hydroelectric Power Plant: It's a bundle of 3 small run-of-river hydroelectric power plants. The installed capacity and projected average generation are 4.1 MW and 30.1 GWh per year respectively.	17.393	3,7	YES	Registered	ERPA with Community Development Carbon Fund
H-21	Hydropower	Santa Cruz I Hydroelectric Power Plant: It's a run-of-river hydropower plant. The plant will have an installed Capacity of 5.9 MW and a yearly average generation of 35.8GWh.	18.150	7,5	YES	Registered	Contract with Endesa Carbono to sell CERs
H-22	Hydropower	Rehabilitation of Callahuanca hydroelectric power station: The plant has a total installed capacity of 72.7 MW. This refurbishment will increase the plant's capacity up to 82.5 MW and the annual generation would be 40.47 GWh.	18.189	13,8	YES	Registered	CERs will be sold to ENDESA

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H-23	Hydropower	Gera II Hydroelectric Power Plant: 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	4,5	NO	PIN	Looking for CERs buyers
H-24	Hydropower	Pucara Hydropower Plant: The proposed project will have an installed capacity of 178 MW and a yearly average generation of 1141,4 GWh.	696.150	360,0	YES	At Validation	Looking for CERs buyers
H-25	Hydropower	Pias I Hydroelectric Power Plant: The Project has an installed capacity would be 12.6 MW and a projected yearly generation of 91.7 GWh.	56.604	18,2	File under elaboration	At Validation	Looking for CERs buyers
H-26	Hydropower	Huanza Hydroelectric Project: The project consists of a 90.6 MW run-of-river hydroelectric power plant. The annual average generation is estimated at 430.5 GWh.	235.494	151,7	YES	Registered	Looking for CERs buyers
H-27	Hydropower	Marañon Hydropower Project: The project consists of an 88MW run-of-the-river with daily regulation new hydroelectric plant interconnected to the grid with an average annual energy generation of 419 GWh. Simple engineering solution, with no tunnel, consisting of a weir structure to divert water, 1.4 Km conveyance system and a two Francis units powerhouse and substation.	245.559	128,1	File under elaboration	PDD under elaboration	Looking for CERs buyers
H-28	Hydropower	Pariac CH 2-3 Hydropower Optimization Project: It consists of the optimization of four small hydro power plants connected to the grid and increasing the effective power output in 0.7 MW generating 5 GWh per year.	2.846	1,0	NO	PIN	Looking for CERs buyers
H-29	Hydropower	Pariac CH 5-6 Hydropower Project: It consists of a new hydropower project with an installed capacity of 7.7 MW and an estimated energy annual production of 53.4 GWh.	30.399	12,0	NO	PIN	Looking for CERs buyers
H-30	Hydropower	Rapay Salto 2 Hydropower Project: The project is expected to have an installed capacity of 77 MW and an estimated annual energy production of 411 GWh.	233.969	76,6	NO	PIN	Looking for CERs buyers
H-31	Hydropower	Rapay Salto 1 Hydropower Project: The project consists of a new hydropower plant with an installed capacity of 89 MW and an estimated annual energy production of 428 GWh.	243.647	100,0	NO	PIN	Looking for CERs buyers
H-32	Hydropower	Aobamba Hydropower Project: It consists of a new small hydropower plant with an installed capacity and projected average generation is 17 MW and 130 GWh per year, respectively.	74.005	17,3	NO	PIN	Looking for CERs buyers
H-33	Hydropower	Rehabilitation of Machupicchu Hydropower project: The project consists of 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 690 GWh.	392.796	100,0	YES	PDD under elaboration	Looking for CERs buyers
H-34	Hydropower	Santa Teresa Hydropower Project: Its installed capacity will be 87 MW and the estimated energy annual production will be 679 GWh.	386.534	78,0	NO	PIN	Looking for CERs buyers
H-35	Hydropower	Yuncan Hydropower Project: It has an installed capacity of 130 MW and the estimated electric generation is 901 GWh per year.	497.009	192,3	NO	At Validation	Contract with Endesa Carbono to sell CERs
H-36	Hydropower	Chirhuain Hydropower Project: The installed capacity is planned to be around 5 MW and it's estimated an average of 33 GWh per year of electric generation.	18.785	10,0	NO	PIN	Looking for CERs buyers
H-37	Hydropower	Santa Rita Hydropower Project: The project will have an installed capacity of 255 MW and will have 1,500 GWh of annual energy production.	914.301	534,5	YES	At Validation	ERPA with EEA Fund
H-38	Hydropower	Central Gratón Hydropower Project: This project consists of a small scale project with an installed capacity and projected average generation of 5 MW and 34.6 GWh, respectively.	20.272	5,8	YES	PDD under elaboration	Looking for CERs buyers
H-39	Hydropower	Yaupi Hydropower Expansion Project: The project will increase the plant's generating capacity by approximately 35 MW and the electricity production is set to increase by 189 GWh per year.	107.592	33,5	NO	PDD under elaboration	Looking for CERs buyers
H-40	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.	5.326	2,7	YES	Registered	Closed
H-41	Hydropower	Chaucalla hydropower Plant: The project will have an installed capacity of 9.9 MW and it will deliver 69.98 GWh to the grid annually.	68.305.2	NA	NO	PIN	Looking for CERs buyers
H-42	Hydropower	Ispana Huaca hydropower Plant: The project will be located in the department of Arequipa. It will have an installed capacity of 9.6 MW and it will deliver 69.81 GWh to the grid annually.	37.000	12,0	NO	PIN	Looking for CERs buyers
H-43	Hydropower	Porvenir hydropower Plant: The project will have an installed capacity of 9.6 MW and it will deliver 69.81 GWh to the grid annually.	37.000	10,5	NO	PIN	Looking for CERs buyers
H-44	Hydropower	Quitarcas I the project: It will be located in the department of Ancash. It has an installed capacity and estimated yearly average generation of 114.6 MW and 457.8 GWh, respectively.	249.463	101,1	YES	Registered	Looking for CERs buyers
H-45	Hydropower	Cheves hydropower project: This project will consist of a new run of river hydroelectric power project with an installed capacity of 168 MW and a power generation of 836.8 GWh per year.	400.857	320,0	YES	Registered	Looking for CERs buyers
H-46	Hydropower	Naranjos II hydroelectric project: The project consists of a new hydroelectric power plant with an installed capacity of 6.4 MW and a yearly average electricity generation of 30.48 GWh.	16.526	13,5	NO	PIN	Looking for CERs buyers

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H-47	Hydropower	Comas hydroelectric project: This project consists of a new hydroelectric power plant with an installed capacity of 4 MW an a yearly average electricity generation of 28.1 GWh.	15.172	6,9	NO	PIN	Looking for CERs buyers
H-48	Hydropower	Yanapampa hydroelectric power plant: The project will consist of a new hydroelectric power plant with an installed capacity of 9 MW an a yearly average electricity generation of 64.77 GWh.	26.366	14,8	YES	Registered	Contract with DEUMAN to sell CERs
H-49	Hydropower	Santa Cruz II hydro power plant: The project will consist of a run-of-river hydropower plant with an installed capacity of 6 MW an a yearly average electricity generation of 38.55 GWh.	21.082	10,2	YES	Registered	Contract with Endesa Carbono to sell CERs
H-50	Hydropower	Retrofitting of existing Restitucion hydropower plant: The project will consist of the retrofitting of an existing hydropower plant and increasing the installed capacity in 13.9 MW and the annual energy generation in 101 GWh.	54.426	22,8	NO	PIN	Looking for CERs buyers
H-51	Hydropower	Rurichinchay hydropower plant: The project will consist of a new hydropower plant with an installed capacity of 7.5 MW.	28.090	10,0	YES	PIN	Looking for CERs buyers
H-52	Hydropower	Cerro del Aguila hydroelectric power plant: The project will consist of a run-of-river hydroelectric facility with an installed capacity of 402 MW and an average energy generation of 2,539 GWh per year.	1.500.000	723,0	NO	PIN	Contract with EcoResources to sell CERs
H-53	Hydropower	Santa Maria hydropower project: The project will consist of a new hydropower plant with an installed capacity of 900 MW and an average energy generation of 6,100 GWh per year.	2.300.000	1 100,0	NO	PIN	Looking for CERs buyers
H-54	Hydropower	San Gaban IV Corani hydropower project: The project will consist 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	76,8	NO	PDD under elaboration	Looking for CERs buyers
H-55	Hydropower	Additional of Baños IV hydroelectric plant: The project will consist of a run-of-river hydropower plant with an installed capacity of 3.3 MW and an estimated yearly energy generation of 20.7 GWh.	11.323	6,0	NO	At validation process VCS.	Contract with EcoResources to sell CERs
H-56	Hydropower	Chancay hydroelectric plant: The project will consist of a run-of-river hydropower plant with an installed capacity of 108.1 MW and an estimated yearly energy generation of 550.4 GWh.	294.143	153,5	NO	PDD under elaboration	Contract with EcoResources to sell CERs
H-57	Hydropower	Hydro Power Plant Belo Horizonte: The project will consist of a new hydroelectric plant with an installed capacity of 180 MW.	560.000	300,0	NO	PIN	Contract with EcoResources to sell CERs
H-58	Hydropower	Angel I, II, III Hydroelectric Power Plant. It is abundign of 3 new hydroelectric power plants. The total installed capacity will be 60 MW and the estimated yearly generation will be 394 GWh.	242.674	123,0	NO	PIN	Contract with Endesa Carbono to sell CERs
H-59	Hydropower	Huasahuasi I-II Hydro power Plant: The total installed capacity will be 15.86 MW and the estimated yearly average generation will be 85 GWh.	60.613	30,8	NO	PIN	Contract with Endesa Carbono to sell CERs
H-60	Hydropower	Nuevo Imperial Hydroelectric Power Plant: The total installed capacity will be 3.97 MW and the estimated yearly average generation will be 25 GWh.	15.285	6,0	NO	PIN	Looking for CERs buyers
H-61	Hydropower	Purmacana Hydroelectric Power Plant: The total installed capacity will be 1.8 MW and the estimated yearly average generation will be 11.67 GWh, located in Lima.	7.200	3,4	NO	PIN	Contract with Endesa Carbono to sell CERs
H-62	Hydropower	Roncador Hydro Power Plant: The total installed capacity will be 3.8 MW and the estimated yearly generation will be 28.12 GWh, located in Lima.	17.277	3,0	NO	PIN	Looking for CERs buyers
H-63	Hydropower	Shima Hydroelectric Power Plant: The installed capacity will be 6.4 MW and the estimated yearly generation will be 32.922 GWh, located in San martin region.	20.129	9,6	NO	PIN	Looking for CERs buyers
H-64	Hydropower	Baños V Hydroelectric Plant: The capacity installed will be 9.1 MW and the estimated yearly average generation will be 58.96 GWh, located in Lima region.	31.969	15,4	NO	PDD under elaboration	Contract with EcoResources to sell CERs
H-65	Hydropower	Las Pizarras Project. It will have an installed capacity of 18 MW, and a total electricity generation of 104 GWh per year, located in Cajamarca region.	63.585	21,0	NO	PIN	Looking for CERs buyers
H-66	Hydropower	Agua Clara I Hydroelectric Power Plant: It will have a total installed capacity of 4.3 MW and an annual electricity generation of 28.25 GWh, located in Huanuco.	16.530	6,5	NO	PIN	Looking for CERs buyers
H-67	Hydropower	ALIS II -Hydro Power Project: The project will have an installed capacity of 60 MW and projected yearly average generation is 367 GWh per year, located in Lima region.	214.695	90,0	NO	PDD	Looking for CERs buyers
H-68	Hydropower	Vilcanota 1 hydropower project: The project will have an installed capacity of 19.8 MW and produces 144.1 GWh per year: The project is located about 90 km north west of the city of Cuzco.	88 000	51,0	NO	PIN	Looking for CERs buyers
H-69	Hydropower	Vilcanota 2 hydropower project: The project will have an installed capacity of 19.8 MW and produces 144.3 GWh per year: The project is located about 90 km north west of the city of Cuzco.	88 100	48,0	NO	PIN	Looking for CERs buyers
H-70	Hydropower	Vilcanota 3 hydropower project: The project will have an installed capacity of 19.8 MW and produces 144.3 GWh per year: The project is located about 90 km north west of the city of Cuzco.	88 200	49,0	NO	PIN	Looking for CERs buyers

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H-71	Hydropower	Santa Cruz III hydropower project: The project will have an installed capacity of 3 MW and a projected yearly average generation of 16,700 GWh. It will be located in the department of Ancash, province of Huaylas.	10 300	6,3	YES	PDD	Looking for CERs buyers
H-72	Hydropower	Cedros I hydropower project: The project will have an installed capacity is 11.6 MW and a projected yearly average generation of 77,1 GWh, It will be located in the department of Ancash, province of Huaylas.	47 400	30,5	NO	PIN	Looking for CERs buyers
H-73	Hydropower	Cedros II hydropower project: The project will have an installed capacity is 10.2 MW and a projected yearly average generation of 66,300 MWh. It will be located in the department of Ancash, province of Huaylas.	40 800	16,7	NO	PIN	Looking for CERs buyers
H-74	Hydropower	Cedros III hydropower project: The project will have an installed capacity of 7 MW and a projected yearly average generation of 45,300 MWh. It will be located in the department of Ancash, province of Huaylas.	27 900	10,9	NO	PIN	Looking for CERs buyers
H-75	Hydropower	Arma I Hydropower plant: The project will have an installed capacity of 9.6 MW. The project is located in Salamanca district, department of Arequipa.	61,474.7	24,0	NO	PIN	Looking for CERs buyers
H-76	Hydropower	Arma II Hydropower plant: The project will have an installed capacity of 20.0 MW. The project is located in Salamanca district, department of Arequipa.	68,305.2	28,0	NO	PIN	Looking for CERs buyers
H-77	Hydropower	San Francisco Hydropower plant: The project will have an installed capacity of 17.0 MW. The project is located in Salamanca district, department of Arequipa.	58,059.4	27,2	NO	PIN	Looking for CERs buyers
H-78	Hydropower	Chanchallay Hydropower plant: The project will have an installed capacity of 20.0 MW. The project is located in Salamanca district, department of Arequipa.	68,305.2	28,0	NO	PIN	Looking for CERs buyers
H-79	Hydropower	Chichas I Hydropower plant: The project will have an installed capacity of 18.0 MW. The project is located in Chichas district, department of Arequipa.	61,474.7	28,0	NO	PIN	Looking for CERs buyers
H-80	Hydropower	Chichas II Hydropower plant: The project will have an installed capacity of 9.0 MW. The project is located in Chichas district, department of Arequipa.	30,737.4	15,0	NO	PIN	Looking for CERs buyers
H-81	Hydropower	Salamanca I Hydropower plant: The project will have an installed capacity of 9.0 MW. The project is located in Salamanca district, department of Arequipa.	30,737.4	15,0	NO	PIN	Looking for CERs buyers
H-82	Hydropower	Salamanca II Hydropower plant: The project will have an installed capacity of 9.0 MW. The project is located in Salamanca district, department of Arequipa.	30,737.4	15,0	NO	PIN	Looking for CERs buyers
H-83	Hydropower	Las Cruces Hydropower plant: The project will have an installed capacity of 18.0 MW. The project is located in Salamanca district, department of Arequipa.	61,474.7	26,0	NO	PIN	Looking for CERs buyers
TL-1	Transmission Line	Grid Connection of isolated electricity systems San Gabán - Puerto Maldonado: The project consist in the implementation of a Transmission Line that would bring energy from the interconnected grid to Puerto Maldonado City, contributing in rural electrification.	14.346	20,2	YES	At Validation	Looking for CERs buyers
TL-2	Transmission Line	138 kV Transmission Line Majes – Camana: The project extends 65.83 km of the 138 KV transmission line, from Majes to Camana, constructs 1 substation, and supplies electrical energy to the Camana province.	2.482	3,5	NO	PIN	Looking for CERs buyers
TL-3	Transmission Line	138 kV Transmission Line Tayabamba – Llacuabamba: The project prolongs 31.5 km the 138 KV transmission line from Tayabamba to Llacuabamba, and constructs 5 substations and 11,5 km of primary 22.9 kV lines towards Retamas and San Andrés.	18.000	9,3	NO	PIN	Looking for CERs buyers
TL-4	Transmission Line	22.9 kV Transmission Line Constante – Bayovar Project: The project consists of the construction of a 22.9 kV transmission line and a new 9 MVA substation in Bayovar. It will be located in the department of Piura.	3.502	2,5	NO	PIN	Looking for CERs buyers
TL-5	Transmission Line	The Cajamarca Rural Electrification CDM Program: The Program involves 19 electrification components. The Project includes the construction of 1,863.88 km of primary lines, which will allow supplying electric energy to 1,006 localities in the region of Cajamarca.	9 555	70	NO	PoA DD	Looking for CERs buyers
W-1	Wind Power	Los Perros / Bayovar Wind Energy Project: It will be located in the department of Piura. It have an installed capacity of 50 MW with the possibility to increase the project capacity up to 100 MW.	95.000	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 .	209.445	218,3	NO	PIN	Looking for CERs buyers
W-3	Wind Power	Malabrigo Wind Energy Project: The project will be located in the department of La Libertad, and consists of a wind park with an installed power capacity of 60 MW and an annual production of energy of 147 GWh.	83.683	102,0	NO	PIN	Looking for CERs buyers
W-4	Wind Power	CUPISNIQUE Wind Power Plant. It is a new wind power plant located in the department of La Libertad. The installed capacity will be 80 MW and the estimated yearly average generation will be 302,952 GWh.	204.090	150,0	NO	PIN	Looking for CERs buyers
W-5	Wind Power	MARCONA Wind Power Plant. It is a new wind power plant located in the department of Ica. The installed capacity will be 32 MW and the estimated yearly average generation will be 148.378 GWh.	99.958	60,0	NO	PIN	Looking for CERs buyers
W-6	Wind Power	TALARA Wind Power Plant. It is a new wind power plant located in the department of Piura. The installed capacity will be 30 MW and the estimated yearly average generation will be 119.673 GWh.	80.620	63,0	NO	PIN	Looking for CERs buyers

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W-7	Wind Power	SALKA PERU WIND FARM PROJECT: The Project consist of a wind farm connected to the grid with a potential estimated in 750 MW.	1.642.500	NA	NO	NA	Looking for CERs buyers
S-1	Solar Power	Panamericana Solar 20TS Project. It 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 GWh.	34.140	80,0	NO	PIN	Looking for CERs buyers
S-2	Solar Power	Tacna Solar 20TS Project. It 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 47.196 GWh.	31.795	80,0	NO	PIN	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.	25.350	80,0	NO	PIN	Looking for CERs buyers
S-4	Solar Power	Reparticion 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 average generation will be 37.44 GWh.	25.222	80,0	NO	PIN	Looking for CERs buyers
WM-1	Waste Management	Portillo Grande Landfill Gas Recovery Project: It is located in the department of Lima. This landfill has an area of 307 hectares that currently receive around 1,500 tones of municipal solid waste per day.	151.646	1,6	NO	PIN	Looking for CERs buyers
WM-2	Waste Management	El Zapallal Landfill Gas Recovery Project: It will be located in the north zone of Lima City. This landfill has an area of 350 hectares, currently 40 hectares has been used to waste disposal.	54.213	1,6	NO	PIN	Looking for CERs buyers
WM-3	Waste Management	Ancon – EcoMethane Landfill Gas Project: It will be located in the department of Lima. It consists of replacing the existing ineffective passive venting system by an active gas collection and flaring system in order to destroy the methane contained in the LFG.	69.012	3,6	YES	Registered	Contract with EcoSecurities
WM-4	Waste Management	Huaycoloro Landfill Gas Recovery Project: The project is located in the department of Lima and consists of the active capture of the biogas generated in 160 vertical extraction wells.	298.996	2,0	YES	Registered	ERPA with Netherlands Clean Development Mechanism Facility
WM-5	Waste Management	Calca - reduce methane emissions through compost plant and manual landfill project : The project is located in the department of Cusco and consists of reducing the methane gas at atmosphere and controlled the leachate.	360	0,2	NO	PIN	Looking for CERs buyers
WM-6	Waste Management	Secura - Compost Plant and Mechanized Landfill Project : The project is located in the department of Piura to 54 km2 of Piura's center. The Project includes a composting and recovery of recyclable waste and a landfill.	2.101	4,9	NO	PIN	Looking for CERs buyers
WM-7	Waste Management	Solid Waste Management Systems National Program: It will improve solid waste management through by an investment programme to get an adequate integrated solid waste management at national level.	470.000	74,5	NO	PIN	Looking for CERs buyers
WM-8	Waste Management	Bionersis project peru I: It is located in the department of Loreto. It consists of building, operating and maintaining a highly efficient landfill gas collection system in a landfill.	23.175	2,9	YES	Registered	Looking for CERs buyers
WM-9	Waste Management	Biogas Recovery at Carapongo Wastewater Treatment Plant: The project will be located in the department of lima. The project will treat wastewater using the method of natural biodegradation by means of sedimentation and stabilization lagoons.	78.840	1,6	NO	PIN	Contract with CAF
WM-10	Waste Management	Wastewater Treatment Plant at Chancay - Huaral: The project consists of recovering the methane by improving the current sewerage system and implementing a new wastewater treatment plant, located in Lima region.	26.000	NA	NO	PIN	Looking for CERs buyers
WM-11	Waste Management	Sanitary Landfill in Cajamarca: it will be located in the department of Cajamarca. It consists of installing an effective flaring system at the sanitary landfill.	3.000	0,5	NO	PIN	Looking for CERs buyers
WM-12	Waste Management	Modelo del Callao Landfill. It consists in a landfill gas (LFG) collection and flaring. It is located 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 Porres.	52.182	6,0	NO	At Validation	Looking for CERs buyers
WM-13	Waste Management	Methane Recovery in Wastewater Treatment Plant – Sullana. It consists of capture the methane gas produced during the biological treatment of domestic waste water in WTP Sullana, Piura.	26.732	1,7	NO	PIN	Looking for CERs buyers
WM-14	Waste Management	La Chira Wastewater Treatment Plant: It consists on the installation 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 south of Lima.	150.000	122,0	NO	PIN	Looking for CERs buyers
WM-15	Waste Management	TABOADA Wastewater Treatment Plant: It consists on the installation 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 in Callao.	NA	212,5	NO	PIN	Looking for CERs buyers
WM-16	Waste Management	Wastewater Treatment Plant at Arequipa: It consists on the installation 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.	28.180	170,0	NO	PIN	Looking for CERs buyers
WM-17	Waste Management	Peruvian Domestic Wastewater Treatment Program: The project consists of capture the methane gas produced during the biological treatment of domestic waste water in WTP.	26.000	1,7	NO	PIN	Looking for CERs buyers

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WM-18	Waste Management	Simbal wastewater treatment plan: The project consists of the implementation of a wastewater treatment plant in order to treat 3.5m <sup>3</sup> /s. The project will be located in the district of Simbal, Region of La Libertad.	27.910	0,7	NO	PIN	Looking for CERs buyers
WM-19	Waste Management	Julcan wastewater treatment plan: The project consists of the implementation of a wastewater treatment plant in order to treat 12 m <sup>3</sup> /s. The project will be located in the district of Simbal, Region of La Libertad.	94.878.1	1,2	NO	PIN	Looking for CERs buyers
T-1	Transportation	Bus Rapid Transport System based on High Capacity Buses using Exclusive Roads: The project aims to develop a massive public transportation system in the city of Lima, which will be more economic, faster, and more ordered than the current system.	199.743	214,5	NO	PDD under elaboration	Looking for CERs buyers
T-2	Transportation	Electric Mass Transit System for Lima and Callao project: The project aims to endow an electric mass transit system, for peripheral zones in the Cities of Lima and Callao with high population density.	725.585	408,0	NO	PIN	Looking for CERs buyers
T-3	Transportation	Integrated Transport System in Lima/GTU: The project aims to develop a massive public transportation system, for low income population, which will be more economic, faster, and more orderly than the current system.	436.543	333,3	NO	PIN	Looking for CERs buyers
T-4	Transportation	Renewal Program of Automotive Fleet to Promote Change of Energy Matrix: This Program is established by means of the Presidential Decree which consists in promoting renewal of the automotive fleet to new light vehicles that consume gasoline and/or vehicular natural gas (VNG).	73.563	50,2	NO	PIN	Looking for CERs buyers
T-5	Transportation	BRT in Arequipa city: It consists of implementign a integrated transport in the city of Arequipa, based on High Capacity Buses using Exclusive Roads.	69.040	170,0	NO	PIN	Looking for CERs buyers
B-1	Biomass	Cogeneration with Biomass at Cartavio S.A.A.: The Project consist of 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	6,1	YES	PDD	Looking for CERs buyers
B-2	Biomass	Avoid methane emissions using biodigester for Vinasse Treatment at Cartavio S.A.A.: It consists of treating the wastewater discharged generated and to generate electricity using biogas produced from the anaerobic digestion of organic matter contents in the wastewater.	3.712	5,0	NO	PIN	Looking for CERs buyers
B-3	Biomass	Paramonga CDM Bagasse Boiler Project: It will change the energy geneartion system from the current residual fuel oil based energy generation system, to a new sugar cane bagasse energy system.	85.300	5,4	YES	At Validation	Contract with CAEMA
B-4	Biomass	HEAVEN Biodiesel Production and Distribution for Automobile Transportation: The project consists of the construction of a plant for a production of 120,000 gallons of biodiesel per day.	412.759	15,0	NO	PDD	Comercialization Contract with Endesa Carbono
B-5	Biomass	COMISA Sugar cane ethanol project: The project wil be located in the department of Piura and consists of the implementation of 12,000 hectares of sugar cane crops with the purpose to generate ethanol.	192.000	81,0	NO	PIN	Looking for CERs buyers
B-6	Biomass	Palmas del Espino Biogas recovery and heat generation from Palm Oil Mill Effluent: It consists of a biogas recovery system and the generation of heat.	26.729	1,3	YES	Registered	Contract with Ecofys-Closed
B-7	Biomass	Boiler Optimization in Agroindustrial Laredo: It consists of the optimization and retrofit of an old boiler, displacing the use of residual fuel oil through the use of bagasse to feed this boiler.	75.979	2,0	NO	PIN	Looking for CERs buyers
B-8	Biomass	Chiclayo Rice Husk Power Plant: It consists of generating electricity by burning rice husk, 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 15 MW.	14.717	16,6	NO	PIN	Looking for CERs buyers
B-9	Biomass	Sugar Cane Foliage for Steam and Green Power Generation: It will be located in two mills of the country. It consists of incorporating foliage-fuel into the Peruvian National Energy Matrix.	296.000	20,0	NO	PIN	Looking for CERs buyers
B-10	Biomass	Rice Husk Power Generation Project in San Martin: It consists of construction and operation of a biomass power generation unit with an expected output of 1.73 MW that will generate 13 GWh per year.	8.000	2,8	NO	PDD under elaboration	Looking for CERs buyers
B-11	Biomass	Chira's Bioenergy Project: It consists of 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	11,3	NO	PIN	Working with One Carbon company
B-12	Biomass	Marosgreen Biogas Project: It consists of recovering the biogas produced from 1,300 horses.	6.000	0,3	NO	PIN	Looking for CERs buyers
B-13	Biomass	Triplay Amazonico Methane Avoidance Project: It consists of avoiding methane emissions through the installation of a new boiler capable of firing biomass residues.	4.393	1,0	YES	At Validation	Closed
B-14	Biomass	Methane avoidance by anaerobic generation of biogas from agricultural wastes, wastewater and renewable energy generation: It consists of capturing the methane generated due to agro-industrial operations and to drive a generator in order to produce electricity for own consumption.	92.944	15,8	NO	PIN	Looking for CERs buyers
B-15	Biomass	Power generation with black liquor in Trupal: It consists of black liquor power generation project with an installed capacity of 8 MW and a yearly expected generation of 50.7 GWh.	52.897	15,0	NO	PIN	Looking for CERs buyers

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B-16	Biomass	La Calera Biogesters Project. It reduces the methane emissions through an improved manure management with four new biogas digesters will be built during the two project phases in order to eliminate the open lagoon system and to process part of the guano from the guano valley.	30.000	1,7	YES	Registration is requested	Contract with CAF
B-17	Biomass	Maple Bagasse Cogeneration Plant. It generates steam and electricity utilizing renewable energy sources, namely bagasse and sugar cane "trash". The electric energy produced by the power plant will supply nearly all the electricity requirements of the industrial facility, including those of the ethanol plant. It'll produce an estimated 37 megawatts (MW) of power.	82.346	NA	NO	At Validation	Looking for CERs buyers
B-18	Biomass	Methane Recovery in Wastewater Treatment 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.	29.400	1,6	NO	PIN	Commercialization Contract with Zeroemissions
B-19	Biomass	Use of biomass residues generated for the production of thermal energy and its utilization in productive process. The Project involves the design, building and installation of a prototype of a complete system for the generation of thermal energy based on biomass, which comprises a chipper, sawdust dryer, transport, storage, feeding, burning, energy recovery and gases filtering.	2.000	0,1	NO	PIN	Looking for CERs buyers
B-20	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	NA	NO	PIN	Looking for CERs buyers
B-21	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	NA	NO	PIN	Looking for CERs buyers
B-22	Biomass	Biogiester Treatment for solid manure of Poultry Farms. 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	NA	NO	PIN	Looking for CERs buyers
FS-1	Fuel Switching	Fuel Switching at Atocongo Cement Plant and Natural Gas Pipeline Extension: It considers the construction of 3.5 km natural gas pipeline and the installation of new natural gas measurement station.	269.851	6,6	YES	Registered	Contract with DEUMAN
FS-2	Fuel Switching	REX S.A. Fuel Switching Project: It consists on the replacement of highly pollutant anthracite coal by natural gas in the four kilns at CIA Rex S.A.	26.016	0,6	YES	PDD under elaboration	Contract with A2G
FS-3	Fuel Switching	Peruvian Fuel-Switching Project: It consists of investment to replace teh use of liquid petroleum fuel by natural gas.	25.577	0,7	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: It consists of switching from residual oil to natural gas in teh boilers and dryers of the plant.	2.041	0,6	YES	At Validation	Looking for CERs buyers
FS-5	Fuel Switching	Natural gas fuel switch umbrella project by Irradia, Vanguard Capital Partners: It consists of the fuel switching in the industries which currently use residual oil and have no acces to natural gas.	195.980	150,0	NO	PIN	Looking for CERs buyers
FS-6	Fuel Switching	Natural gas Fuel Switching at: Chaclacayo: It consists of the fuel switching in the industries which currently use residual oil and have no acces to natural gas.	15.763	NA	NO	PIN	Looking for CERs buyers
FS-7	Fuel Switching	Programme of activities to switch from residual fuel oil to LPG in manufacturing industries in Peru: It consists of offering incentives to small and medium sized industrial facilities in Peru to replace residual fuel oil consumption with a low-carbon fuel: liquefied petroleum gas (LPG).	300	0,1	NO	PDD	Looking for CERs buyers
FS-8	Fuel Switching	Switching Food Plant Boiler to CNG: The project consists of the switching project from fuel oil to Compressed Natural Gas (CNG) for the boiler of the food plant of San Fernando.	1.200	NA	NO	PIN	Looking for CERs buyers
FS-9	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 the boilers of 19 hospitals that belongs to the Ministry of Health of Peru located in Lima.	2600	NA	NO	PIN	Looking for CERs buyers
C-1	Cogeneration	Natural Gas Cogeneration Plant in Nuevo Mundo Industrial Company: The project will implement a cogeneration plant, which consists of a 6.34 MW turbine, covering much of the thermal energy supply, all the electric power demand from the two plants and the sale of excess of electric power to the National Grid.	13.361	4,2	NO	PIN	Looking for CERs buyers
C-2	Cogeneration	Natural Gas Cogeneration at San Miguel 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.	4.348	1,5	NO	PIN	Looking for CERs buyers
C-3	Cogeneration	Natural Gas Cogeneration plant in Rey Corporation S.A. Industrial Company - La Gringa II: It consists of operating a 650 kW motor generator.	1.657	0,3	NO	PIN	Looking for CERs buyers
C-4	Cogeneration	Natural Gas Cogeneration plant at Western Cotton S.A.: It consists of the implementation of a 6 MW cogeneration plant which will supply the thermal and energy demand of the plant.	5.302	5,0	NO	PIN	Looking for CERs buyers
EE-1	Energy Efficiency	Ahorremos Energía y Salvemos el Planeta Project I: The objective project is to replace inefficient Incandescent Lamps (ICLs) by installing an estimated 537,641 Compact Fluorescent Lamps (CFLs) in households within the energy distribution concession area of Hidrandina.	18.538	1,3	NO	PDD	CERs committed

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EE-2	Energy Efficiency	CDM Program to replace fluorescent lamps T12 with fluorescent lamps T8 at Public and Private Buildings: The objective project is to replace one million of fluorescent lamps T12 for fluorescent lamps T8 at Government buildings; and to achieve by multiplying effect the replacement of 4 millions of fluorescent lamps T12 for T8 in the Private sector.	2.784	0,2	NO	PIN	Looking for CERs buyers
EE-3	Energy Efficiency	Waste Heat Recovery from the Sponge Iron Production Kilns for Power Generation project: It involves the generation of electrical power through the installation of 4 waste heat recovery boilers and a 35 MW steam turbine generator.	143.562	50,6	NO	PDD under elaboration	Looking for CERs buyers
EE-4	Energy Efficiency	Ventanilla Conversion from single cycle to combined cycle power generation project: It consists of converting two open-cycle gas turbine of 160 MW each into a combined-cycle facility that adds approximately 179 MW of generating capacity.	375.051	156,0	YES	Registration is requested	Comercialization Contract with Endesa Carbono
EE-5	Energy Efficiency	590 MW natural gas based grid connected combined cycle power plant - Electroperu: It consists of setting up a new grid connected power plant with a total capacity of 590 MW.	1.000.000	450,0	NO	PIN	Contract with EcoResources to sell CERs
EE-6	Energy Efficiency	Kallpa combined cycle thermolectric power plant: It consists of converting three open-cycle gas turbines, in order to achieve a total installed capacity of 840 MW and an average energy generation of 2,130 GWh.	600.000	400,0	NO	PDD under elaboration	Contract with EcoResources
EE-7	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 on 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	NA	YES	At Validation	Contract with EcoResources to sell CERs
EE-8	Energy Efficiency	Rural Electrification with Photovoltaic Home Systems Program. The objective of the program is to take care of the rural and isolated localities of the country that will not be received electricity networks, bringing the power supply through the installation of photovoltaic home systems - PHS.	12.410	141,0	NO	PIN	Looking for CERs buyers
EE-9	Energy Efficiency	Improved Cooking Stoves National Program. involves the installation and maintenance of a number of improved domestic cooking stoves (400 thousand cooking stoves approximately), conducted by a core of actors composed by public institutions and other entities.	400.000	40,0	NO	PIN	Looking for CERs buyers
EE-10	Energy Efficiency	Chilca I Combined Cycle Project. It consists of the installation of a waste recovery system, steam turbine and all auxiliary installations to recover waste heat generated by three existing open cycle gas turbines for the generation of electric energy adding 300 MW.	600.000	NA	NO	PIN	Looking for CERs buyers
EE-11	Energy Efficiency	Aguaytia Combined Cycle Project. It consists of the installation of a waste recovery system, steam turbine and all auxiliary installations to recover waste heat generated by three existing open cycle gas turbines for the generation of electric energy adding 88 MW.	150.000	NA	NO	PIN	Looking for CERs buyers
EE-12	Energy Efficiency	Ahorremos Energía y Salvemos el Planeta Project 2: The objective project is to replace inefficient Incandescent Lamps (ICLs) by installing an estimated 537,641 Compact Fluorescent Lamps (CFLs) in households within the energy distribution concession area of Electro Norte, Electro Centro, Sociedad Eléctrica del Sur Oeste and Electro Sur.	18.315	1,3	NO	PDD	CERs committed
EE-13	Energy Efficiency	Ahorremos Energía y Salvemos el Planeta Project 3: The objective project is to replace inefficient Incandescent Lamps (ICLs) by installing an estimated 537,641 Compact Fluorescent Lamps (CFLs) in households within the energy distribution concession area of Electronoroeste, Electro Oriente, Electro Sur Este, Electro Ucayali and Electro Puno.	17.970	1,2	NO	PDD	CERs committed
EE-14	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.	NA	NA	NO	PIN	Looking for CERs buyers
EE-15	Energy Efficiency	Improving efficiency of boilers in Fish Meal Plants :The Project comprises the refurbishment and improve of the combustion in the boilers of Fish Meal Plant of TASA.	13.690	NA	NO	PIN	Looking for CERs buyers
EE-16	Energy Efficiency	Energy Efficiency in Artisan Brick Kilns in Latin America to Mitigate Climate Change: Artisan brick kilns in L.A. countries use fuels with high environmental impact and low energy efficiency kilns.	70.000	NA	NO	NA	Looking for CERs buyers
G-1	Geothermal Power	Agua Calientes Geothermal Project: The project consists in the construction of a 50 MW geothermal power plant in the field of Agua Calientes Candarave and in the south of the country.	224.406	140,0	NO	PIN	Looking for CERs buyers
G-2	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.	224.406	140,0	NO	PIN	Looking for CERs buyers
<b>TOTAL</b>			<b>26.912.859</b>	<b>12.130</b>			