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CDM Monitoring Report Poechos I Project


ERs MONITORING REPORT

**Poechos I Project
Ref. Number 0086.**

COVERING April 1st, 2007-March 31st, 2009.

Version 1, as of June 1st, 2009

1	(29/05/2009)	RRR / HRA/HAT/AJ	BZ	
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**ERs MONITORING REPORT
COVERING April 1st, 2007-March 31st, 2009.
Version 1, as of June 1st, 2009**

PROJECT NAME	POECHOS 1
INSTALLED CAPACITY	15.2 MW
PARTICIPANTS	SINERSA - Operator World Bank – Netherlands CDM Facility (NDCMF),
TECHNICAL DESCRIPTION OF THE PROJECT	
Project Location	Department of Piura, Peru
Region / State / Province	Department of Piura / Province of Sullana / District of Lancones
Classification of Project Activity	Hydroelectric power production
Number of Area of Responsibility	1
Area of Responsibility	Renewable Power
Project Activity	Generation of Renewable Energy from Hydropower plant connected to national grid. Additional energy production from hydropower plant, using existing reservoir, without increase of reservoir volume
Technology used	Used technology is based on 2 Kaplan standard turbines and 2 Generators, connected by vertical shaft.

DESCRIPTION OF METHODOLOGY USED

Total quantity of tCO₂, as a reduction of CO₂ emission, due to hydropower plant operation, has been calculated using Combined Margin (CM). ACM0002

CM is simple average of Operational Margin (OM) and Build Margin (BM), applying the following formula:

$$CM = 0.5 (OM) + 0.5(BM)$$


Corresponding calculation procedure, in accordance with Monitoring Plan, is presented in Annex 2.

STEP 1 - CALCULATION OF OPERATING MARGIN

Using methodology of analysis of Dispatch data, the following formula has been applied

$$DDA-OM = E_OMy/EGy$$

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- During the first step of analysis, dispatch data from COES has been received and analyzed, related to operation of the national electric system for each 15 minutes that have been converted to data covering each hour of system operation.
- Data related to marginal costs have been also received from COES, providing conditions for determination of Order of Merits for each power plant, in function of corresponding operational costs of each unit and comparison with corresponding operation costs of Santa Rosa substation (as a unit measure for the whole Peruvian energy system), for the operation during peak load hours. Details of the procedure applied are presented in Annex 2.
- Using this Merit Order all thermal power plants of the national energy system has been compared and ordered in columns.
- Resulting data has been introduced in sheets from #3 to #14 of the document: Poechos DDA-OM.xls (for details see Monitoring Plan)
- Corresponding HPP Poechos 1 production, for each hour, has been also introduced in the same document, in column EE. This information has been introduced according to official data obtained by ENOSA, local distribution company that acquires total HPP Poechos 1 energy production (for details see Annex 3).
- For the period of analysis (April 2008 – March 2009), the new power plants to enter into operation within national energy system are Oquendo, Caña Brava, Santa Cruz y Carhuaquero Grupo 4, according to corresponding COES information.
- For those periods of analysis has been used the NECs corresponding to Statistical Report 2007” and “Statistical Report 2008” of COES.

Results obtained are presented in continuation.

Period April 1st, 2007 – March 31st, 2008

E_OMy:	SUM Egh*EF_DDh	53,320.00	70,567.29	:EGy
EOMy/Egy:	Operational Margin	DDA_OM	0.75559	:EF_OMy DD (TCO2/MWh)


Period April 1st, 2008 – March 31st, 2009

E_OMy:	SUM Egh*EF_DDh	77,136.00	101,724.36	:EGy
EOMy/Egy:	Operational Margin	DDA_OM	0.75828	:EF_OMy DD (TCO2/MWh)

STEP 2 – CALCULATION OF BUILD MARGIN

- For this group of calculations sheet Poechos BM2.xls, from Monitoring Plan, has been used.

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- b) COES reported that for the period April 2004 - March 2005, no new power plant entered into operation.
- c) COES reported that for the period April 2005 - March 2006, new power plants that entered into operation are Hydropower plant Yuncan and Thermal plant Santa Rosa.
- d) COES reported that for the period April 2006 - March 2007, Thermal plant Chilca 1. entered into operation.
- e) COES reported that for the period April 2007 - March 2008, Thermal plant Kallpa entered into operation
- f) COES reported that for the period April 2008 - March 2009, Thermal plant Oquendo and Hidraulic Plants Caña Brava, Santa Cruz and Carhuaquero G4 entered into operation.
- g) Corresponding energy production for the period April 2007 – March 2008, for the new power plants, has been introduced, including classification according to technology applied for each power plant.
- h) Corresponding energy production for the period April 2008 – March 2009, for the new power plants, has been introduced, including classification according to technology applied for each power plant.
- i) Hydropower plant Santa Rosa production has not been introduced, since it is CDM project.

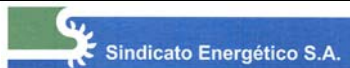
The following results were obtained:

Period April 1st, 2007 – March 31st, 2008

CALCULATION OF BM:

Technologies in Selected Sample	Most Recent Year Gen (GWh)	% per technology	APFR	C	O	44/12	CO2 Emissions(tCO2)
Coal	801.86	14%	7,040.72	25.80	0.980	3.67	652,731.00
d2	6.78	0%	80.03	20.20	0.990	3.67	5,868.00
r6	80.96	1%	758.06	21.10	0.990	3.67	58,062.00
r500	0.00	0%	0.00	21.10	0.990	3.67	0
Dry Gas	1,700.91	30%	18,679.92	15.30	0.995	3.67	1,042,704.00
Pure Methane Gas	443.20	8%	5,933.57	14.50	0.995	3.67	313,891.00
Dry Gas CC	0.00	0%	0.00	15.30	0.995	3.67	0
Hydro	2,726.70	47%	0.00	0.00	0.000	0.00	0
Total	5,760.42	100%					2,073,256.00

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BM2=

0.35991	tCO ₂ //MWh
---------	------------------------

CALCULATION OF CM

DDA-OM=	0.75559
BM2=	0.35991
CM= 0,5*(DDA-OM + BM2)	0.55775

Period April 1st, 2008 – March 31st, 2009

CALCULATION OF BM:

Technologies in Selected Sample	Most Recent Year Gen (GWh)	% per technology	APFR	C	O	44/12	CO ₂ Emissions(tCO ₂)
Coal	975.15	16%	8,732.67	25.80	0.980	3.67	809,588.00
d2	0.00	0%	0.00	20.20	0.990	3.67	0
r6	92.03	2%	831.21	21.10	0.990	3.67	63,665.00
r500	0.00	0%	0.00	21.10	0.990	3.67	0
Dry Gas	1,847.59	30%	19,937.99	15.30	0.995	3.67	1,112,928.00
Pure Methane Gas	452.17	7%	6,073.91	14.50	0.995	3.67	313,891.00
Dry Gas CC	0.00	0%	0.00	15.30	0.995	3.67	0
Hydro	2,746.05	45%	0.00	0.00	0.000	0.00	0
Total	6,112.99	100%					2,307,497.00


BM2=

0.37747	tCO ₂ //MWh
---------	------------------------

CALCULATION OF CM

DDA-OM=	0.75828
BM2=	0.37747
CM= 0,5*(DDA-OM + BM2)	0.56788

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STEP 3 - PROJECT PRODUCTION FOR THE ASSESSMENT PERIOD

APRIL 1st, 2007 – MARCH 31th, 2008

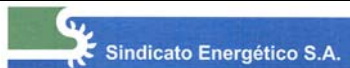
MONTH	MWh
Apr-07	9,792.37
May-07	7,438.92
Jun-07	7,365.36
Jul-07	2,841.32
Aug-07	4,210.38
Sep-07	4,131.89
Oct-07	4,914.35
Nov-07	4,115.76
Dic-07	3,163.04
Jan-08	2,250.62
Feb-08	10,106.22
Mar-08	10,237.07
TOTAL	70,567.29

APRIL 1st, 2008 – MARCH 31th, 2009

MONTH	MWh
Apr-08	11,035.86
May-08	11,643.93
Jun-08	11,165.24
Jul-08	10,953.79
Aug-08	8,872.65
Sep-08	5,036.41
Oct-08	5,679.04
Nov-08	4,963.95
Dic-08	4,036.90
Jan-09	8,740.44
Feb-09	9,513.88
Mar-09	10,082.28
TOTAL	101,724.37

This energy production is defined according to corresponding monthly invoices approved by ENOSA, for the whole period. Original monthly ENOSA data are resumed in Annex 3, while corresponding invoices for each month are also presented as a part of this report.

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Monthly invoices has been defined and controlled by ENOSA using corresponding electric measuring system, with verification period of not less than five years. Taking into consideration that these instruments were installed during 2004 no additional verification of the measurement accuracy is still required, for this period.

Respect to verification of measurement accuracy, SINERSA has programmed this activity for this year.

STEP 4 – SUMMARIZED CERs CALCULATION

Period April 1st, 2007 – March 31st, 2008

Project	Annual MWh
Poechos I	70,567.29
Annual CERs (DDA-OM – BM2):	
Project	Annual MWh*Combined Margin
Poechos I	39,359
DDA-OM=	0,75559
BM2=	0,35991
CM= 0,5*(DDA-OM + BM2)	0,55775


Period April 1st, 2008 – March 31st, 2009

Project	Annual MWh
Poechos I	101,724.36
Annual CERs (DDA-OM – BM2):	
Project	Annual MWh*Combined Margin
Poechos I	57,767
DDA-OM=	0,75828
BM2=	0,37747
CM= 0,5*(DDA-OM + BM2)	0,56788

Total CERs April 1st, 2007 – March 31st, 2009 Period

Poechos I	97,126
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SUSTAINABLE DEVELOPMENT MONITORING PLAN (SDMP)

Annual Term – Compliance Format APRIL 1st, 2007 – MARCH 31st, 2008


Objective 1: Environmental Sustainability		
Initiative	Indicator	Annual Accumulated Program
Soil quality improvement	Quantity of new trees within concession area	More than 30 within the area close to HPP Poechos 1 power house, from the completion of the construction activities. During lasts 12 months corresponding maintenance and irrigation has been provided. See Annex 4 for photos.
Responsibility	Number of education programs for local population (energy saving)	As informed in our previous report SINERSA presented a proposal to local energy distribution company ENOSA, to provide financial support for electrification of households of the local energy distribution system, PSE Sullana, that entered into operation two years ago, providing conditions for 28,000 local families to have, for the first time, access to energy, mainly due to construction and operation of the HPP Poechos 1. Unfortunately, since ENOSA is state owned distribution company, SINERSA has been informed that this type of cooperatives are not allowed, according to existing rules, and that ENOSA could not to receive donations from private companies. For the moment we are discussing with ENOSA possibility to authorize us to directly invest in electrification of households that are still without energy supply, being corresponding authorization still in discussion by ENOSA representatives. If we receive corresponding permission from ENOSA, SINERSA already discussed and agreed with Association of Farmers from Chira RIVER (that is practically the only institution present and functioning in the project area) to make corresponding coordination with them, being all households within PSE Sullana, members of the Association of Farmers from Chira RIVER. In that case SINERSA personnel will directly execute corresponding works for selected households, with supervision and control of ENOSA.

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Objective 2: Social-Economic Sustainability		
Initiative	Indicator	Annual Accumulated Program
Improvement of education standards	Scholarships given to local students	First year : 4 Second year : 2+ 2 Third year: 1+2+4 Forth year: 1+2+3+3 Main problem to incorporate more students in the program (planned number is 5 each year) is low quality of students finishing secondary schools, that makes them very difficult to pass admission exams for Piura private University. Enclosed find detailed information about students that already form part of SINERSA scholarship program as well as Agreement between SINERSA and Piura Private University related to scholarship program (see Annex 5)
Improvement of economic conditions	Number of employees from local population	All support personnel (18 persons) are from area close to the Project. For details see Annex 6.
	Purchase from local suppliers	From April 2007 to March 2008: <u>US\$122.166.52</u> , has been purchased from local suppliers. For details see list of corresponding invoices - Annex 6
	Population connected to energy red due to construction and operation of HPP Poechos 1	PSE Sullana started commercial operation that provides conditions for about 28,000 local residents to connect to energy grid, thanks to construction and operation of the HPP Poechos 1 and of the transmission line from HPP Poechos 1 to Sullana substation (60 kV, 34 KM). For the moment about 6.000 families are connected to the red.


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Annual Term – Compliance Format
APRIL 1st, 2008 – MARCH 31st, 2009


Objective 1: Environmental Sustainability		
Initiative	Indicator	Annual Accumulated Program
Soil quality improvement	Quantity of new trees within concession area	More than 30 within the area close to HPP Poechos 1 power house, from the completion of the construction activities. During lasts 12 months corresponding maintenance and irrigation has been provided. See Annex 4 for photos.
Responsibility	Number of education programs for local population (energy saving)	As informed in our previous report SINERSA presented a proposal to local energy distribution company ENOSA, to provide financial support for electrification of households of the local energy distribution system, PSE Sullana, that entered into operation three years ago, providing conditions for 28,000 local families to have, for the first time, access to energy, mainly due to construction and operation of the HPP Poechos 1. Unfortunately, since ENOSA is state owned distribution company, SINERSA has been informed that this type of cooperatives are not allowed, according to existing rules, and that ENOSA could not to receive donations from private companies. Therefore SINERSA made a decision to directly invest in improvement of electrification of households. For the year 2008, this program was executed in village El Sauce, where SINERSA changed and modified internal installations in more than 15 houses, that were executed by local population, in an inadequate and dangerous way. Details of initial conditions and corresponding adjustments after SINERSA intervention, are presented on corresponding photos. The same group of activities has been used to explain to local population optimum and correct way of using electrical installations and electricity.

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Objective 2: Social-Economic Sustainability		
Initiative	Indicator	Annual Accumulated Program
Improvement of education standards	Scholarships given to local students	<p>First year : 4 Second year : 2+ 2 Third year: 1+2+4 Forth year: 1+2+3+3 Fifth year: 1+2+1+4+5</p> <p>Main problem to incorporate more students in the program (planned number is 5 each year) is low quality of students finishing secondary schools, that makes them very difficult to pass admission exams for Piura private University. Enclosed find detailed information about students that already form part of SINERSA scholarship program as well as Agreement between SINERSA and Piura Private University related to scholarship program (see Annex 5).</p>
Improvement of economic conditions	Number of employees from local population	All support personnel (18 persons) are from area close to the Project. For details see Annex 6.
	Purchase from local suppliers	From April 2008 to March 2009: <u>US\$214.529,97</u> , has been purchased from local suppliers. For details see list of corresponding invoices - Annex 6
	Population connected to energy red due to construction and operation of HPP Poechos 1	PSE Sullana started commercial operation that provides conditions for about 28,000 local residents to connect to energy grid, thanks to construction and operation of the HPP Poechos 1 and of the transmission line from HPP Poechos 1 to Sullana substation (60 kV, 34 KM). For the moment about 6.000 families are connected to the red.

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ANNEX 1.

PROCEDURE OF CALCULATION OF MONTHLY ORDER OF MERITS

(APRIL 1st, 2007-MARCH 31st, 2008)

- Documents received from COES with corresponding data :
 - "CV0306_1206__PotCCCOES.zip", with data from April to December 2006
 - CostosVariabesEner_Febrero08.xls
 - CostosVariabesMar08.xls
- Processing of the sheet: "CostosVariabesAbrilDiciembre06.xls" that forms a part of the document 1.a.
- The archive from point 2 is Excel document, which contains different sheets with corresponding monthly data, providing condition to create archives "200X-MM MMM 2006 OM.xls". Like for example: "2006-04 ABR 2006 OM.xls". For the rest of months archives indicated in 1.b y 1.c, have been used.
- This sheet is a table that contains in column O (the last in each table), Santa Rosa Equivalent Costs, for each thermal power plant and for each period of the day.
- It is necessary to define Santa Rosa Equivalent Costs as an average monthly pondered value. For that purpose, in column Q for the row which defines period that covers each table, is necessary to calculate exact number of days for each analyzed period.
- Number of days for each month is calculated in cell Q2, for each month.
- Average pondered value for each power plant is calculated in cells of column T.

Finally in column V y W it is necessary to copy table that contains data of Power Plants and Santa Rosa Equivalent Costs, ordered from lower to higher costs and defining that way Order of merits for each power plant.


(APRIL 1st, 2008-MARCH 31st, 2009)

- Documents received from COES with corresponding data are in the sheet:
 - [...]\Period 2008-2009\Procedure for obtains Order of merits\Data Originals COES.

In this directory each file is extracted the data relevant and necessary to paste only values in the spreadsheet shown in the next step.


- With the data (only pasted values) it will be created the sheets "200X-MM MMM 200X OM.xls". P. example : "2008-04 ABR 2008 OM.xls".
- This file is a table that in column N (Last of each table) shows the equivalent costs Barra Santa Rosa, each power plant for each period of days.

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4. The first thing is to get the cost equivalent Barra Santa Rosa, monthly weighted average, for that, on the column O of the row on which it is indicated the period of each table, it is calculated the number of days that covers each period.
5. In the cell O2 it is estimated the number of days of the month in calculation.
6. In the cells in column R it is being calculated the weighted average of each plant.
7. Finally, in the columns T and Y it is copied the table and Plant Cost Eq. Santa Rosa, ordering from the low to the high cost which would be for his Order of Merit.

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ANNEX 2. RESUME OF ENERGY PRODUCED BY HPP POECHOS 1 AND APPROVED BY ENOSA

APRIL 1st, 2007 – MARCH 31st, 2008

CUADRO RESUMEN DE ENERGÍA MENSUAL FACTURADA POR SINERSA A ENOSA

CH POECHOS I

MES	ENERGÍA FACTURADA			
	ENERGIA HP kWh	ENERGIA HFP kWh	ENERGIA TOTAL kWh	ENERGIA TOTAL MWh
ABRIL - 2007	1 758 266.343	8 034 101.210	9 792 367.553	9 792.368
MAYO - 2007	1 776 906.000	5 662 012.000	7 438 918.000	7 438.918
JUNIO - 2007	1 688 885.400	5 676 470.840	7 365 356.240	7 365.356
JULIO - 2007	1 190 634.241	1 650 688.113	2 841 322.354	2 841.322
AGOSTO - 2007	1 499 952.356	2 710 424.591	4 210 376.947	4 210.377
SEPTIEMBRE - 2007	1 461 697.060	2 670 195.600	4 131 892.660	4 131.893
OCTUBRE - 2007	1 585 820.058	3 328 528.819	4 914 348.877	4 914.349
NOVIEMBRE - 2007	1 327 159.960	2 788 601.390	4 115 761.350	4 115.761
DICIEMBRE - 2007	1 062 771.174	2 100 266.194	3 163 037.368	3 163.037
ENERO - 2008	1 060 147.720	1 190 469.590	2 250 617.310	2 250.617
FEBRERO - 2008	1 860 555.010	8 245 664.760	10 106 219.770	10 106.220
MARZO - 2008	1 638 061.210	8 599 008.540	10 237 069.750	10 237.070
			70 567 288.179	70 567.288

POR SINERSA



Ing. Rody H. Risco Ramos
Superintendente Adjunto
CH Poechos I




POR ENOSA



Ing. Mario Arroyo Saboga
Jefe de Tarifas y administración
de contratos

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CUADRO RESUMEN DE ENERGÍA MENSUAL FACTURADA POR CH POECHOS I

MES	FACTURACION			
	ENERGÍA HP kWh	ENERGÍA HFP kWh	ENERGÍA TOTAL kWh	ENERGÍA TOTAL MWh
ABRIL - 2008	2 017 414.457	9 018 449.029	11 035 863.486	11 035.863
MAYO - 2008	2 061 644.562	9 582 285.152	11 643 929.714	11 643.930
JUNIO - 2008	1 975 488.210	9 189 751.400	11 165 240.610	11 165.241
JULIO - 2008	1 979 043.210	8 974 752.560	10 953 795.770	10 953.796
AGOSTO - 2008	1 919 505.680	8 953 141.710	10 872 647.390	10 872.647
SEPTIEMBRE - 2008	1 804 107.700	3 232 300.280	5 036 407.980	5 036.408
OCTUBRE - 2008	1 894 795.403	3 784 249.062	5 679 044.465	5 679.044
NOVIEMBRE - 2008	1 629 726.000	3 334 219.000	4 963 945.000	4 963.945
DICIEMBRE - 2008	1 335 733.640	2 701 163.480	4 036 897.120	4 036.897
ENERO - 2009	1 775 806.557	6 961 633.032	8 737 439.589	8 737.440
FEBRERO - 2009	1 692 987.410	7 820 888.140	9 513 875.550	9 513.876
MARZO - 2009	1 792 067.830	8 290 209.190	10 082 277.020	10 082.277
			101 724 363.894	101 724.364

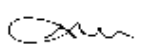

Firman en señal de que cuadro corresponde a lo realmente facturado por CH Poechos I a ENOSA en el período indicado :

POR SINERSA:




Ing. Redy F. Risco
Superintendente Adjunto
CH Poechos I


POR ENOSA:

Ing. Mario Arroyo Sandoval
Gerente Comercial
ENOSA

Fecha : 30.04.2009


1	(29/05/2009)	RRR / HRA/HAT/AJ	BZ	
Version	Date	Elaborated	Check/Approve	Observations

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ANNEX 3. Photos
APRIL 1st, 2007 – MARCH 31st, 2008




1	(29/05/2009)	RRR / HRA/HAT/AJ	BZ	
Version	Date	Elaborated	Check/Approve	Observations

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Version	Date	Elaborated	Check/Approve	Observations

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1	(29/05/2009)	RRR / HRA/HAT/AJ	BZ	
Version	Date	Elaborated	Check/Approve	Observations

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APRIL 1st, 2008 – MARCH 31st, 2009




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Version	Date	Elaborated	Check/Approve	Observations

 Sindicato Energético S.A.	ANNUAL REPORT OF THE MONITORING PROGRAM PERIOD: APRIL 1st, 2007 – MARCH 31st, 2009	VERSION -1 Página 20 de 33
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 Sindicato Energético S.A.	ANNUAL REPORT OF THE MONITORING PROGRAM PERIOD: APRIL 1st, 2007 – MARCH 31st, 2009	VERSION -1 Página 21 de 33
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1	(29/05/2009)	RRR / HRA/HAT/AJ	BZ	
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 Sindicato Energético S.A.	ANNUAL REPORT OF THE MONITORING PROGRAM PERIOD: APRIL 1st, 2007 – MARCH 31st, 2009	VERSION -1 Página 23 de 33
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ANNEX 4. LIST OF LOCAL EMPLOYEES LIST.

SINDICATO ENERGETICO S.A.

PERSONEL CH. POECHOS 1 – 2008

		birthday			
Item	Name	day	Month	year	DNI N°
Operators					
1	Redy Risco	4	6	1970	03654709
2	Rajko Belanovic	24	8	1947	44414750
3	Percy Querevalú Quezada	10	1	1974	02885497
4	Manuel R. Senador Torres	19	4	1970	16628411
Electrical Technicians					
5	Christian Negri	25	5	1970	09508714
6	Igor Rios	12	11	1971	00096884
7	Rafael García	28	3	1962	02608842
Mechanical Technicians					
8	Roberto Chunga	8	4	1967	03692529
9	Hector Westraicher	11	7	1971	04330529
10	Guillermo Martinez	25	6	1956	02676652
11	Benito Juarez E.	23	1	1952	02785482
Administrative Assistant					
12	Lesly Zapata	29	11	1977	02894114
Drivers					
13	Juan Nole	17	7	1976	02898394
Support personnel					
14	Lelia Palacios	16	12	1980	40830269
15	Luis A. Alburqueque Arevalo	19	12	1975	03673543
16	Segundo Zapata Flores	14	12	1970	40826872
17	Felix Amadeo Farfán Alburqueque	31	3	1956	03620149
18	Jorge Zapata Flores	22	5	1973	03670304

1	(29/05/2009)	RRR / HRA/HAT/AJ	BZ	
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 Sindicato Energético S.A.	ANNUAL REPORT OF THE MONITORING PROGRAM PERIOD: APRIL 1st, 2007 – MARCH 31st, 2009	VERSION -1 Página 24 de 33
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SINDICATO ENERGETICO S.A.

PERSONEL CH. POECHOS 1 – 2009

		birthday			
Item	Name	day	month	year	DNI N°
Operators					
1	Redy Risco Ramos	4	6	1970	03654709
2	Henry Ramos Arevalo	15	9	1974	02882567
3	Horacio Arrue Tafur	15	7	1975	10301335
4	Manuel R. Senador Torres	19	4	1970	16628411
Electrical Technicians					
5	Wilson Carreño	03	03	1973	03882790
6	Carlos Carmona	06	12	1981	41193504
7	Igor Rios	12	11	1971	00096884
8	Rafael García	28	3	1962	02608842
Mechanical Technicians					
9	Roberto Chunga	8	4	1967	03692529
10	Hector Westraicher	11	7	1971	04330529
11	Guillermo Martinez	25	6	1956	02676652
12	Benito Juarez E.	23	1	1952	02785482
Administrative Assistant					
13	Lesly Zapata	29	11	1977	02894114
Drivers					
14	Juan Nole	17	7	1976	02898394
Support personnel					
15	Lelia Palacios	16	12	1980	40830269
16	Luis Alburqueque Arevalo	19	12	1975	03673543
17	Segundo Zapata Flores	14	12	1970	40826872
18	Felix Farfán Alburqueque	31	3	1956	03620149
19	Jorge Zapata Flores	22	5	1973	03670304

1	(29/05/2009)	RRR / HRA/HAT/AJ	BZ	
Version	Date	Elaborated	Check/Approve	Observations

 Sindicato Energético S.A.	ANNUAL REPORT OF THE MONITORING PROGRAM PERIOD: APRIL 1st, 2007 – MARCH 31st, 2009	VERSION -1 Página 25 de 33
HIDROELECTRIC POWER PLANT POECHOS I		29/05/2009

ANNEX 5. STUDENTS THAT FORM A PART OF SCHOLARSHIP PROGRAM

APRIL 1st, 2007 – MARCH 31st, 2008



UNIVERSIDAD DE PIURA

Apartado Postal 353 Piura- Perú
(T) 51-73-284500
www.udep.edu.pe

Piura 23 de Junio de 2008

SRES. SINDICATO ENERGETICO S.A
Ciudad.

Estimado Señores

Por medio de la presente les alcanzamos la información de los 9 alumnos becados a través del convenio que mantenemos con ustedes, durante el presente semestre 2008-I.


CARNÉ	APELLIDOS NOMBRES	FACULTAD	INGRESO
20062220	CRUZ VIDAL, TANISHA CRISTINA	Comunicación	2006
20072220	YOVERA MARTINEZ, JUAN MANUEL	Comunicación	2007
20062204	ZAPATA VEGA, DENNIS GABRIEL	Comunicación	2006
20073433	CASTILLO ALEJABO, MAX	Ingeniería	2007
20053423	CASTILLO RIVAS, JUAN PABLO ENRIQUE	Ingeniería	2005
20086583	JUAREZ BAYONA KATIA LUCIA	Ingeniería	2008
20083675	MORQUENCHO TAVARA DANY JAVIER	Empresas	2008
20081585	CHERO FERNANDEZ JENNY MELISSA	Contabilidad	2008
20078127	CHERO SOJO JOSE CASIMIRO	ETS	2007

Quedamos a su disposición, si tuvieran alguna consulta adicional.

Atentamente,

Mgtr. Diana Jhong.
Oficina de Pensiones.
Universidad de Piura.

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APRIL 1st, 2008 – MARCH 31st, 2009



Piura 6 de mayo de 2009

Señores:
SINDICATO ENERGETICO S.A.
Ciudad.-

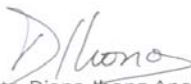
Estimados Señores:

Por medio de la presente les alcanzamos la relación de los 13 alumnos becados en el presente semestre 2009- I, a través del convenio que mantenemos con ustedes.

CARNE	APELLIDOS NOMBRES	FACULTAD	INGRESO
20053423	Castillo Rivas Juan Pablo	Ingeniería	2005
20062220	Cruz Vidal Tanisha Cristina	Comunicación	2006
20062204	Zapata Vega Dennis Gabriel	Comunicación	2006
20072220	Yovera Martínez Juan Manuel	Comunicación	2007
20083675	Morquencho Távara Dany Javier	Empresas	2008
20086583	Juárez Bayona Kattia Lucía	Ingeniería	2008
20086191	Benites Torres Pablo César	Ingeniería	2008
20087187	Elias Antón Yshiro Enrique	Empresas	2008
20093684	Antón Purizaca Edwin Raúl	Ingeniería	2009
20091549	Arca Fernández Melba Patricia	Contabilidad	2009
20093694	García Chunga José Alfredo	Ingeniería	2009
20095240	Periche Panta Miriam Nohemí	Derecho	2009
20091546	Ruiz Antón Milagros del Pilar	Economía	2009

Quedamos a su disposición, si tuvieran alguna consulta adicional.


Atentamente,


Mgtr. Diana Jhong Aponte
Jefa de Pensiones y Admisiones
Universidad de Piura

Piura: Av. Ramón Mugica 131, Urb. San Eduardo
Teléfono: (51-73) 284500 Fax: (51-73) 284510
Apartado Postal 353

Lima: Mártir Olaya 162, Bellavista 199, Miraflores
Teléfono: (51-1) 2139600
www.udep.edu.pe

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ANNEX 6. LOCAL PURCHASE

**Sindicato Energético S.A. - SINERSA
H.P.P. Poechos 1**


**PURCHASES FROM LOCAL SUPPLIERS: APRIL 1st, 2007 TO MARCH
31st, 2008**
(US Dollars - US\$)

MONTH	TOTAL
1. Maintenance costs	50.274,16
1.1 Materials provision	10.995,98
1.2 Maintenance	13.238,02
1.3 Fuel provision	26.040,16
2. Services	71.892,35
2.1 Office equipment	6.244,10
2.2 Cleaning & fumigation	1.626,22
2.3 Security service	38.935,87
2.4 Representation expenses	616,61
2.5 Services of third parties	24.469,55
3. Hotel & lodging	0,00
TOTAL	122.166,52

**PURCHASES FROM LOCAL SUPPLIERS: APRIL 1st, 2008 TO MARCH
31st, 2009**
(US Dollars - US\$)

MONTH	TOTAL
1. Maintenance costs	68.131,33
1.1 Materials provision	14.559,55
1.2 rucks maintainance	36.471,13
1.3 Fuel provision	17.100,64
2. Services	146.133,32
2.1 Office equipment	9.231,18
2.2 Cleaning & fumigation	2.222,70
2.3 Security service	57.476,03
2.4 Representation expences	126,42
2.5 Services of third parties	77.076,99
3. Hotel & lodging	265,32
TOTAL	214.529,97

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ANNEX 7. INFORMATION ABOUT ACTUAL NUMBER OF PSE SULLANA CLIENTS

APRIL 1st, 2007 – MARCH 31st, 2008



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Electronoroeste S.A.

Resumen de Clientes del PSE Sullana II y III Etapa

PFACTURA	200805
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CLIENTES			
UNEGOCIO	NOM_ZON	NOM_SEC	Total general
05.- Sullana	035.-Sullana	10.-L : Sullana	2,754
	037.-Querecotillo	02.-F: Querecot	2,828
	039.-MarcavUllica	02.-E: Marcavel	384
Total 05.- Sullana			5,966
Total general			5,966



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**HIDROELECTRIC POWER
PLANT POECHOS I**

29/05/2009

RELACION DE LOCALIDADES DEL PSE SULLANA II Y III

ITEM	LOCALIDAD	DISTRITO	PROVINCIA	Nº CLIENTES DEL PROYECTO	FECHA DE ENERGIZACION	Nº CLIENTES ACTUAL (FACT. MAY-08)
1	EL CUCHO	Sullana	SULLANA	173	17/04/2006	240
2	HUANGALA	Sullana	SULLANA	550	17/04/2006	784
3	SAN VICENTE	Sullana	SULLANA	100	17/04/2006	428
4	CHALACALA	Sullana	SULLANA	84	17/04/2006	370
5	SOMATE BAJO	Sullana	SULLANA	128	17/04/2006	372
6	RIECITO	Sullana	SULLANA	55	17/04/2006	81
7	LA PEÑA	Querecotillo	SULLANA	198	20/04/2006	259
8	LA HORCA	Querecotillo	SULLANA	168	20/04/2006	239
9	EL PORVENIR	Querecotillo	SULLANA	49	20/04/2006	57
10	PTE. DE LOS SERRANOS	Querecotillo	SULLANA	142	20/04/2006	227
11	SANTA CRUZ	Querecotillo	SULLANA	431	20/04/2006	533
12	MARGARITA Y HUALTACAL	Querecotillo	SULLANA	486	20/04/2006	459
13	SAN FRANCISCO	Querecotillo	SULLANA	336	21/04/2006	477
14	CHOCAN	Querecotillo	SULLANA	149	21/04/2006	257
15	SANTA VICTORIA	Querecotillo	SULLANA	81	21/04/2006	104
16	HUAYPIRA	Lancones	SULLANA	118	21/04/2006	136
17	LANCONES	Lancones	SULLANA	285	21/04/2006	101
18	VENADOS	Lancones	SULLANA	61	21/04/2006	41
19	HUASIMAL DE LA SOLANA	Lancones	SULLANA	34	22/04/2006	68
20	DURAND	Lancones	SULLANA	47	22/04/2006	58
21	EL ALAMOR (*)	Lancones	SULLANA	98	22/04/2006	104
22	SAMAN GRANDE	Marcavelica	SULLANA	143	22/04/2006	384
23	MONTENEGRO	Sullana	SULLANA	21	18/04/2006	33
24	SANTA ROSA PIEDRA RODADA	Sullana	SULLANA	99	18/04/2006	123
25	CHALACALA ALTA EL PORTON	Sullana	SULLANA	32	18/04/2006	30
26	CHALACALA A LTA	Sullana	SULLANA	32	18/04/2006	54
27	CENTRO SERVICIO SOMATE	Sullana	SULLANA	17	19/04/2006	21
28	LOURDES	Sullana	SULLANA	77	19/04/2006	113
29	CHILACO SUR	Lancones	SULLANA	36	19/04/2006	90
30	CHILACO	Lancones	SULLANA	75	19/04/2006	123
31	PELADOS	Lancones	SULLANA	28	19/04/2006	26
32	PUEBLO NUEVO	Querecotillo	SULLANA	27	24/04/2006	31
33	SANTA ELENA ALTA	Querecotillo	SULLANA	23	24/04/2006	31
34	SANTA ELENA BAJA	Querecotillo	SULLANA	39	24/04/2006	49
35	SANTA ROSA	Querecotillo	SULLANA	38	24/04/2006	46
36	JAGUAY DE POECHOS	Querecotillo	SULLANA	59	24/04/2006	61
37	NUEVA ESPERANZA	Lancones	SULLANA	36	27/04/2006	59
38	POECHOS	Lancones	SULLANA	16	27/04/2006	12
39	EL SAUCE	Lancones	SULLANA	26	27/04/2006	34
40	MARTINEZ	Lancones	SULLANA	13	27/04/2006	11
41	JERGUITAS	Lancones	SULLANA	36	27/04/2006	28
42	CABRERIA	Lancones	SULLANA	19	27/04/2006	17
43	CASAS QUEMADAS	Lancones	SULLANA	11	28/04/2006	12
44	CORRAL DE VACAS	Lancones	SULLANA	42	28/04/2006	24
45	SOLANA CENTRAL Y BAJA	Lancones	SULLANA	27	28/04/2006	37
46	ESTRADAS	Lancones	SULLANA	26	28/04/2006	27
47	LEONES	Lancones	SULLANA	30	28/04/2006	17
48	BOCANA DE ORQUETAS	Lancones	SULLANA	28	28/04/2006	23
49	JAGUAY NEGRO 1 (Los Halcones)	Lancones	SULLANA	13	26/04/2006	18
50	JAGUAY NEGRO 2	Lancones	SULLANA	24	26/04/2006	9
51	QUEBRADA SECA	Lancones	SULLANA	52	26/04/2006	35
52	CHAPANGOS	Lancones	SULLANA	36	26/04/2006	34
53	HUASIMAL DE ENCUENTROS	Lancones	SULLANA	20	26/04/2006	25
54	EL PAPAYO	Lancones	SULLANA	25	25/04/2006	21
55	LOS ENCUENTROS DE PILARES	Lancones	SULLANA	133	25/04/2006	79
56	JABONILLOS	Lancones	SULLANA	27	25/04/2006	25
57	ALTO EL TORO	Lancones	SULLANA	36	25/04/2006	31
58	PILARES	Lancones	SULLANA	29	25/04/2006	27
59	PITAYO	Lancones	SULLANA	22	25/04/2006	13
60	SAN JORGE- SOMATE	Sullana	SULLANA	RECIENTEMENTE INCORPORADO		103
				TOTAL		7,331

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APRIL 1st, 2008 – MARCH 31st, 2009

Piura, 11 de mayo del 2009

C- 463 -2009/Enosa

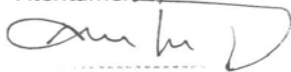
Señor
Branislav Zdravkovic
Gerente General
Sindicato Energético S.A.
Ciudad.-

Estimado señor Zdravkovic :

Adjunto al presente sírvase encontrar el número de clientes del PSE Sullana II y III Etapa por localidades al 30 de Abril del 2009.

Sin otro particular, quedamos de usted.


Atentamente,



ING. MARIO ARROYO SABOGA,
Gerente Comercial (e)
ELECTRONORTE S.A.

MAS/ehl
Distribución:
Copias : Archivo

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Electronoroeste S.A.


Resumen de Clientes del PSE Sullana II y III Etapa

Periodo	200904
Sistema Eléctrico	1R.-Sullana II

CLIENTES			
Unidad de Negocios	Zona de Facturación	Sector de Facturación	Total
05.- Sullana	035.-Sullana	10.-L : Sullana	2,829
	037.-Querecotillo	02.-F: Querecotillo	2,907
	039.-Marcavélica	02.-E: Marcavélica	383
	080.-Frontera	02.-FR: Lancones	1,284
		04.-FR: Alamor	103
Total 05.- Sullana			7,506
Total general			7,506



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Electronoroeste S.A.
RELACION DE LOCALIDADES ALIMENTADAS DEL SISTEMA SULLANA II Y III

Nº Clientes					
Departamento	Provincia	Distrito	Localidad	Total	
20.-Piura	06.-Sullana	01.-Sullana	316.-EL CUCHO	240	
			317.-HUANGALA	805	
			318.-SAN VICENTE	435	
			319.-CHALACALA	392	
			320.-SOMATE BAJO	477	
			321.-RIECITO	83	
			323.-MONTENEGRO	33	
			324.-SANTA ROSA PIEDRA RO	127	
			325.-CHALACALA ALTA EL PO	34	
			326.-CHALACALA ALTA	60	
			327.-CENTRO SERVICIO SOMA	22	
			328.-LOURDES	116	
			335.-CHILACO SUR	1	
			756.-MARAN	2	
			04.-Lancones	256.-ALAMOR	103
				330.-HUAYPIRA	146
				331.-LANCONES	102
				332.-VENADOS	42
				333.-HUASIMAL DE LA SOLAN	68
				334.-DURAND	59
				335.-CHILACO SUR	50
				336.-CHILACO	149
				337.-PELADOS	42
				339.-NUEVA ESPERANZA	61
		340.-POECHOS		10	
		341.-EL SAUCE		35	
		342.-MARTINEZ		11	
		343.-JERGUITAS		32	
		344.-CABRERIA		17	
		345.-CASAS QUEMADAS		12	
		346.-CORRAL DE VACAS		24	
		347.-SOLANA CENTRAL Y BAJ		38	
		348.-ESTRADAS		26	
		349.-LEONES		17	
		350.-BOCANA DE ORQUETAS		26	
		351.-JAGUAY NEGRO 1 (Los		14	
		352.-JAGUAY NEGRO 2		8	
		353.-QUEBRADA SECA		35	
		354.-CHAPANGOS		34	
		355.-HUASIMAL DE ENCUENTR		25	
		356.-EL PAPAYO		21	
		357.-LOS ENCUENTROS DE PI		79	
		358.-JABONILLOS		27	
		359.-ALTO EL TORO		32	
		360.-PILARES		26	
		361.-PITAYO		13	
		367.-MARGARITA Y HUALTACA		1	
		05.-Marcavelica	329.-SAMAN GRANDE	382	
			45.-Mallares	1	
		07.-Querecotillo	320.-SOMATE BAJO	10	
			324.-SANTA ROSA PIEDRA RO	1	
			362.-LA PEÑA	262	
			363.-LA HORCA	235	
			364.-EL PORVENIR	62	
			365.-PTE. DE LOS SERRANOS	229	
			366.-SANTA CRUZ	547	
			367.-MARGARITA Y HUALTACA	469	
			368.-SAN FRANCISCO	496	
			369.-CHOCAN	277	
			370.-SANTA VICTORIA	106	
			371.-PUEBLO NUEVO	31	
			372.-SANTA ELENA ALTA	31	
			373.-SANTA ELENA BAJA	51	
			374.-SANTA ROSA	43	
			375.-JAGUAY DE POECHOS	61	
Total 20.-Piura				7.506	
Total general				7.506	

1	(29/05/2009)	RRR / HRA/HAT/AJ	BZ	
Version	Date	Elaborated	Check/Approve	Observations