



Agua Fresca Multipurpose and Environmental Services Project (UNFCCC #0122)

Monitoring Report for CO2 Emission Reduction

Period: January 1st 2009 – December 31st 2009

Date: February 17th, 2010

Project Participants

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1. Introduction

The purpose of the present Monitoring Report is to show calculation of the emission reductions product of the operation of Agua Fresca Multipurpose Project for the period January 1st, 2009 to December 31st, 2009.

The methodology used for the calculation is the *AMS-I.D.: Grid connected renewable electricity generation version 6*.

The project has been successfully registered by the CDM Executive Board on January 7th, 2006. The project's documents can be found in the webpage:

<http://cdm.unfccc.int/Projects/DB/DNV-CUK1132831273.89/view>



Figure 1. Main intake Structure

2. Description of the Project Activity

Agua Fresca Project in its first stage, it is a hydroelectric run-of river power generation project, with a design flow of 2.9 m³/s, an installed capacity of 7.49 MW and an annual production of 63.3 GWh. The connection of the Project to the National Electrical Grid will be done in the Municipality of Fredonia, in the Fredonia Substation of Empresas Públicas

de Medellín. For this, it will be necessary to build a 44 kV transmission line with a length of 15 km was built.

The project reuses the water from the discharge of Rio Piedras Hydroelectric Plant. In case this plant is not operating, or operating with a flow less than 2.9 m³/s, Agua Fresca Power Plant counts with a secondary intake structure that takes water directly from the river. This way, Agua Fresca project is independent and has an increased reliance in its operation.

It is important to clarify the fact that in the PDD the design flow is 2.7 m³/s. The change in the design flow obeys to design adjustments made in the final stage in the project. This change does not result in a conflict for additional water resource usage because CORANTIOQUIA, the environmental authority, originally granted the project a water concession for 3.2 m³/s,

The Commissioning, Operation and Maintenance of the Plant are done by Empresas Públicas de Medellín. This company has a broad experience in hydropower project in Colombia, and it is one of the top utility companies of the country.

Essential technical aspects:

- Run-of-the river facility. The project does not imply the construction of dam or reservoir.
- Installed Capacity: 7.49 MW
- Design Flow: 2.9 m³/s
- Total Head: 327 m
- Power generation: 63.3 GWh / year
- Basin: Río Piedras. The project will reuse the waters of Rio Piedras Hydroelectric Plant.
- Secondary intake structure
- Water inlet to back.
- Power house at surface.
- For electricity generation, and profiting the steep slope between the Rio Piedras plant and the new project that will be located at the final stretch, the following technologies will be employed:
 - One Pelton turbine with vertical axis of 7.49 MW, 720 rpm, and five jets, with 327 m of total head
 - One synchronic generator of 8.08 MVA and 4.16 kV of nominal tension.
- Connection to the grid: transmission line (44 kV) 15 km length.
- Emission reduction: 27.510 Ton CO₂e per year.
- Commissioning, Operation and Maintenance of the Plant by Empresas Públicas de Medellín.

The second stage of the project comprehends the construction of a regional aqueduct to provide water for human consumption as for irrigation to the lands and settlements located in the Cauca River canyon between La Pintada and Bolombolo, harnessing the hydrological resource contributed by the Piedras River. This is still in financial evaluation.



Figure 2. Power House

3. Location of the Project Activity

The Agua Fresca Multipurpose and Environmental Services Project is located in the Republic of Colombia at the municipality of Jericó (Department of Antioquia) within the area of influence of the Piedras River basin.

Jericó is at the south west of the department of Antioquia, in the Colombian Andes, with an altitude ranging from 600 m to 3000 m. The project is located in the lower part of Piedras River's Basin, near the Cauca River and the sector of Puente Iglesias.



Figure 3. Location

4. Applied Methodology

The methodology applied to the project activity is the *AMS-I.D.: Grid connected renewable electricity generation version 6*.

Category I.D. comprises renewable energy generation units, such as photovoltaics, hydro, tidal/wave, wind, geothermal, and biomass, that supply electricity to an electricity distribution system that is or would have been supplied by at least one fossil fuel or non-renewable biomass fired generating unit.

Agua Fresca Project is a hydroelectric renewable energy generation project with an installed capacity lower than 15 MW (7.49 MW), thus the methodology is applicable.

5. Baseline Information

The Colombian Energy Sector

The Colombian Energy and Mining Planning Unit (UPME) is in charge of designing the National Electricity Sector Expansion Plan which is a reference or indicative plan based on the criteria established in both the PND and the PEN. The national strategic elements related to the electricity sector are summarized below:

- Attend the electricity demand with reliability higher than 95% in the long term
- Enhance the availability of firm capacity through the addition of thermal based capacity
- Improve system's efficiency through the installation of clean efficient technology
- Diversify the sources of electricity generation in the system, in the context of the availability of domestic energy resources.

The sector presents increased reliance on thermal-based generation capacity. After severe droughts, registered during the 1990s (i.e. 1992, 1997), that caused power shortages with associated forced rationing, the system has encouraged the development of more thermal generation capacity, specifically with the intention of increasing the share of firm capacity and enhancing the system's reliability of supply. The increase in thermal share of the SIN has also been the indirect result of the withdrawal of the public sector in large investments and the reluctance of private generators to enter the hydro electric generation an associated environmental and social requirements. Therefore, future additions to the power mix to attend the projected growth in demand are anticipated to be thermal-based. While this responds to the need for flexibility and robustness of the system, the increase in thermal share contributes to the gradual increase of GHG emissions by the sector and the release of local criteria pollutants (such as NO_x and, SO_x particulates and volatile hydrocarbons, which have been linked to health of exposed populations).

The project activity reduces CO₂ emissions in electricity generation through the use of renewable energy sources. The project activity serves to displace fossil fuel-fired plants (a combination of coal and gas based power plants in the Colombian Interconnected National System) with clean energy provided by hydroelectricity. The inclusion of the project into the interconnected grid redistributes the dispatch of all the power plants giving rise to a most efficient electricity generation of the whole system. In the absence of the CDM project activity, no other project would have been implemented indeed, so that emission reductions would not occur.

Calculation of the Baseline

The baseline for small is calculated in the document: *METODOLOGÍA SIMPLIFICADA PARA EL CÁLCULO DE LA LÍNEA BASE PARA PROYECTOS DE PEQUEÑA ESCALA: Generación de energía eléctrica con fuentes renovables interconectada a la red. Versión 1*

This document is prepared by the UPME (Energy and Mining Planning Unit) of the Colombian Ministry of Mines and Energy. It presents the baseline calculation for small scale power generation Project activities. In this report, in the respective operating and build margin values, are **0.660** and **0.294** kg CO₂/ kWh, the arithmetic average was calculated to obtain **0.477kg CO₂/ kWh** as baseline value for the year 2004.

6. Monitoring Plan

Accordingly with the AMS I.D. methodology, the monitoring for category I.D projects - Renewable electricity generation for a grid - shall consist of metering the electricity generated by the renewable technology.

All the power generation plants in Colombia have records of their hourly generation and these records are public because of the market condition. All this information is gathered by *XM Expertos en Mercados*, a Colombian company that provides the integral services of operation, administration and development for the Colombian wholesale power market. Thus, the hourly generation of Agua Fresca project is available at all times. The report of the daily generation for the period January 1st 2009 to December 31st, 2009 available in the XM webpage is attached (Annex 1)

The hourly generation for the period January 1st, 2009 to December 31st, 2009 is attached in the spreadsheet "*Power Generation Agua Fresca Plant 2009.xls*". (Annex 2)

7. Emission Reduction Calculation

According with the measurements, the monthly generation and the emissions reduced by Agua Fresca Multipurpose and Environmental Services Project is:

Month	Generation (KWh - month)	Emission Reduction (TonCO ₂ eq) Fe: 0,4770
January	3,813,774.59	1,819
February	4,194,175.84	2,001
March	4,226,358.20	2,016
April	5,147,462.70	2,455
May	5,071,945.16	2,419
June	5,153,593.80	2,458
July	5,150,991.66	2,457
August	4,502,951.18	2,148
September	3,869,253.16	1,846
October	3,939,600.06	1,879
November	4,814,426.22	2,296
December	3,749,931.60	1,789
Total	53,634,464	25,584

Agua Fresca Power Plant reduced a total of 25,584 TonCO₂eq from the Colombian electric Grid in the year 2009.

8. Social and Environmental Investment

The investment of 1% of the project's value (according to Law 99 of 1993) was made in the conformation and adjustment of Las Nubes Botanical Garden, as was agreed with the local administration of Jericó and the environmental authority CORANTIOQUIA. This

investment was done during the construction and the first year of operation of the project. The investment done was approved by CORANTIOQUIA through resolution #130CA-5878 of December 23rd 2009, fulfilling the requirements of the project's environmental license No. CA3-01-15.

The sustainability of Las Nubes Botanical Garden will be ensured by the voluntary investment of 20% of the annual income from the sale of the carbon emission reduction certificates. This way, the project will create sustainable development and will improve the life conditions of the habitants of Jericó. The investments will be made through the Jardín Botánico de Jericó Foundation, an independent entity that will be created in the first semester of 2010 to work towards the protection, conservation and integral recovery of the Piedras River's basin. The foundation will carry out plans, programs and project emphasizing on environmental education, creating a learning and management center that will generate sustainable development in the basin's influence area.

During the year 2009, Aguas de la Cabaña S.A. carried on maintenance works to the physical infrastructure of the Botanical Garden. This was made using its own resources, as the payment for the previous CERs generated suffered a delay.

ANNEX 1

DAILY GENERATION FROM XM WEBPAGE

NEÓN - RESULTADO DE LA CONSULTA Página 1 de 5

<http://sv04.xm.com.co/neonweb/RepoNeon.asp?P1=PLAN2286431.NEO&P2=&P3=...>

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NEÓN - RESULTADO DE LA CONSULTA Página 2 de 5

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<http://sv04.xm.com.co/neonweb/RepoNeon.asp?P1=PLAN2286431.NEO&P2=&P3=...>

19/02/2010

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AGUAS DE LA CABAÑA S.A. E.S.P.

ANNEX 2

HOURLY GENERATION



GENERACION AÑO 2008 CENTRAL HIDROELECTRICA AGUA FRESCA

Generacion Total 2008 (KWh)		53.634.464
Factor Emision (kgCo2/kWh)		0,4770
Emisiones Reducidas (Ton CO _{2e})		25.584

HORA	1-Ene-09 kW	2-Ene-09 kW	3-Ene-09 kW	4-Ene-09 kW	5-Ene-09 kW	6-Ene-09 kW	7-Ene-09 kW	8-Ene-09 kW	9-Ene-09 kW	10-Ene-09 kW	11-Ene-09 kW	12-Ene-09 kW	13-Ene-09 kW
1	7.282,00	6.929,00	6.914,00	7.270,00	7.184,00	7.295,00	6.840,00	6.589,00	6.485,00	6.367,00	6.181,00	6.101,00	5.405,00
2	7.285,00	6.888,00	6.930,00	7.273,00	7.090,00	7.292,00	6.902,00	6.665,00	6.474,00	6.398,00	6.200,00	6.118,00	5.599,00
3	7.294,00	6.938,00	6.918,00	7.262,00	7.066,00	7.294,00	6.888,00	6.690,00	6.485,00	6.397,00	6.239,00	6.118,00	7.120,00
4	7.294,00	6.923,00	6.920,00	7.261,00	7.046,00	7.291,00	6.859,00	6.677,00	6.498,00	6.421,00	6.295,00	6.121,00	6.648,00
5	7.289,00	7.004,00	7.046,00	7.268,00	7.144,00	7.291,00	7.006,00	6.793,00	6.540,00	6.554,00	6.438,00	6.265,00	6.488,00
6	7.290,00	6.895,00	6.908,00	7.259,00	5.272,98	7.289,00	6.816,00	6.635,00	6.619,00	6.407,00	6.322,00	6.448,00	6.521,00
7	7.289,00	6.886,00	6.934,00	7.256,00	6.977,00	7.228,00	6.829,00	6.679,00	6.710,00	6.422,00	6.269,00	3.743,96	6.456,00
8	7.288,00	6.702,00	6.935,00	7.255,00	7.009,00	7.147,00	6.793,00	7.205,00	6.565,00	6.419,00	6.359,00	0,00	6.488,00
9	7.285,00	6.906,00	6.925,00	7.248,00	7.013,00	7.086,00	6.766,00	7.236,00	6.510,00	6.412,00	6.349,00	0,00	6.544,00
10	7.282,00	6.872,00	6.922,00	7.254,00	7.001,00	7.037,00	6.744,00	7.055,00	6.524,00	6.412,00	6.330,00	0,00	6.473,00
11	7.274,00	6.936,00	6.919,00	7.246,00	6.982,00	7.000,00	6.721,00	7.002,00	6.526,00	6.402,00	6.282,00	0,00	6.514,00
12	7.273,00	6.953,00	6.900,00	7.247,00	6.949,00	6.959,00	6.702,00	6.836,00	6.474,00	6.379,00	6.278,00	238,96	6.504,00
13	7.268,00	6.965,00	6.887,00	7.253,00	6.940,00	6.938,00	6.721,00	6.732,00	6.450,00	6.366,00	6.252,00	6.246,00	6.470,00
14	7.268,00	7.034,00	6.857,00	7.253,00	6.919,00	6.898,00	6.715,00	6.706,00	6.428,00	6.348,00	6.234,00	4.305,98	6.473,00
15	7.058,00	7.032,00	6.805,00	7.253,00	6.893,00	6.846,00	6.680,00	6.666,00	6.425,00	6.313,00	6.203,00	4.369,00	6.472,00
16	7.162,00	6.988,00	6.793,00	7.254,00	6.824,00	6.809,00	6.635,00	6.607,00	6.438,00	6.263,00	6.025,00	5.503,00	6.541,00



AGUAS DE LA CABAÑA S.A. E.S.P.

17	6.775,00	7.055,00	6.868,00	7.256,00	6.898,00	6.229,00	6.731,00	6.709,00	6.550,00	6.334,00	6.101,00	5.402,00	6.474,00
18	7.049,00	6.895,00	6.682,00	7.193,00	6.724,00	7.016,00	6.541,00	6.506,00	6.383,00	6.304,00	6.256,00	4.482,00	6.478,00
19	6.948,00	6.910,00	6.684,00	7.120,00	6.727,00	6.586,00	6.526,00	6.492,00	6.348,00	6.066,00	5.956,00	5.587,00	6.394,00
20	6.955,00	6.905,00	6.670,00	7.090,00	5.666,98	6.761,00	6.509,00	6.512,00	6.374,00	6.032,00	6.043,00	5.568,00	6.406,00
21	6.925,00	6.895,00	6.698,00	7.069,00	7.009,00	6.703,00	6.541,00	6.508,00	6.374,00	6.160,00	6.060,00	5.410,00	6.426,00
22	6.920,00	6.876,00	7.075,00	7.066,00	7.177,00	6.665,00	6.528,00	6.505,00	6.342,00	6.143,00	6.064,00	5.407,00	6.376,00
23	6.930,00	6.901,00	7.295,00	7.049,00	7.295,00	6.760,00	6.565,00	6.442,00	6.340,00	6.157,00	6.094,00	5.407,00	5.406,00
24	6.930,00	6.906,00	7.296,00	7.076,00	7.296,00	6.755,00	6.594,00	6.520,00	6.346,00	6.167,00	6.095,00	5.405,00	4.954,00
TOTAL	171.613	166.194	165.781	173.031	165.103	167.175	161.152	160.967	155.208	151.643	148.925	104.246	151.63

HORA	1-Feb-09 kW	2-Feb-09 kW	3-Feb-09 kW	4-Feb-09 kW	5-Feb-09 kW	6-Feb-09 kW	7-Feb-09 kW	8-Feb-09 kW	9-Feb-09 kW	10-Feb-09 kW	11-Feb-09 kW	12-Feb-09 kW	13-Feb-09 kW
1	7.363,00	6.786,00	6.764,00	6.386,00	7.261,00	6.520,00	6.246,00	7.117,00	6.838,00	6.655,00	7.223,00	6.085,00	5.984,00
2	7.363,00	6.794,00	6.923,00	6.406,00	7.249,00	6.514,00	6.253,00	6.880,00	6.618,00	6.726,00	7.225,00	6.106,00	6.072,00
3	7.363,00	6.809,00	6.806,00	6.412,00	7.253,00	6.514,00	6.268,00	6.713,00	6.575,00	6.698,00	7.225,00	6.130,00	6.223,00
4	7.362,00	6.827,00	6.796,00	6.424,00	7.248,00	6.518,00	6.280,00	6.629,00	6.460,00	6.625,00	7.224,00	6.130,00	6.318,00
5	7.292,00	6.824,00	6.740,00	6.425,00	7.241,00	6.529,00	6.288,00	6.544,00	6.385,00	6.469,00	7.225,00	6.180,00	7.133,00
6	7.235,00	6.823,00	6.726,00	6.437,00	7.243,00	6.527,00	6.298,00	6.482,00	6.385,00	6.360,00	7.225,00	6.302,00	6.937,00
7	7.189,00	6.824,00	6.716,00	6.440,00	7.237,00	6.522,00	6.300,00	6.476,00	6.332,00	6.325,00	7.222,00	5.909,00	6.652,00
8	7.152,00	6.820,00	6.696,00	6.439,00	7.236,00	6.516,00	6.293,00	6.516,00	6.316,00	6.258,00	7.097,00	5.772,00	6.673,00
9	7.124,00	6.808,00	6.678,00	6.458,00	7.243,00	6.521,00	6.283,00	6.223,00	6.288,00	6.214,00	6.756,00	5.840,00	6.229,00
10	7.111,00	6.679,00	6.688,00	6.464,00	7.241,00	6.535,00	5.628,00	5.992,00	6.293,00	6.208,00	6.668,00	5.836,00	6.257,00
11	7.086,00	6.599,00	6.682,00	6.456,00	7.048,00	6.392,00	6.275,00	6.112,00	6.323,00	6.196,00	6.577,00	5.792,00	6.242,00
12	7.052,00	6.535,00	6.654,00	6.443,00	7.228,00	6.485,00	6.280,00	6.524,00	6.288,00	6.172,00	6.485,00	5.742,00	6.212,00
13	7.022,00	6.792,00	6.638,00	6.416,00	7.232,00	6.485,00	6.245,00	6.547,00	6.277,00	6.154,00	6.310,00	5.716,00	6.083,00
14	7.021,00	6.750,00	6.595,00	6.389,00	6.911,00	6.427,00	6.226,00	6.575,00	6.238,00	6.133,00	6.306,00	5.708,00	6.023,00
15	6.976,00	6.728,00	6.551,00	6.283,00	7.037,00	6.418,00	6.200,00	6.661,00	6.199,00	6.106,00	6.289,00	6.158,00	6.018,00
16	6.919,00	6.694,00	6.522,00	6.318,00	6.871,00	6.346,00	6.199,00	6.745,00	6.160,00	6.067,00	4.376,00	7.110,00	5.987,00
17	6.864,00	6.649,00	6.484,00	6.240,00	6.820,00	6.346,00	6.157,00	6.710,00	6.156,00	6.031,00	6.114,00	6.061,00	5.989,00
18	6.847,00	6.619,00	6.373,00	6.278,00	6.749,00	6.276,00	6.106,00	6.890,00	6.161,00	6.032,00	6.067,00	6.631,00	6.199,00



AGUAS DE LA CABAÑA S.A. E.S.P.

19	6.793,00	6.593,00	6.421,00	6.230,00	6.695,00	6.266,00	6.108,00	6.742,00	6.150,00	5.992,00	6.026,00	6.418,00	6.595,00
20	6.779,00	6.571,00	6.383,00	6.218,00	6.630,00	6.221,00	6.227,00	6.578,00	6.127,00	5.987,00	6.004,00	6.236,00	7.079,00
21	6.760,00	6.578,00	6.370,00	6.229,00	6.611,00	6.216,00	7.241,00	6.712,00	6.179,00	5.966,00	6.007,00	6.115,00	7.231,00
22	6.744,00	6.607,00	6.379,00	7.243,00	6.534,00	6.220,00	7.273,00	7.255,00	6.204,00	5.954,00	5.995,00	6.077,00	7.236,00
23	6.752,00	6.646,00	6.362,00	7.319,00	6.544,00	6.236,00	7.265,00	7.207,00	6.152,00	5.966,00	6.094,00	6.025,00	7.235,00
24	6.786,00	6.996,00	6.382,00	7.273,00	6.534,00	6.244,00	7.264,00	6.912,00	6.181,00	6.863,00	6.074,00	5.995,00	7.054,00
TOTAL	168.955	161.351	158.329	155.626	167.896	153.794	153.203	159.742	151.285	150.157	155.814	146.074	155.660

HORA	1-Mar-09 kW	2-Mar-09 kW	3-Mar-09 kW	4-Mar-09 kW	5-Mar-09 kW	6-Mar-09 kW	7-Mar-09 kW	8-Mar-09 kW	9-Mar-09 kW	10-Mar-09 kW	11-Mar-09 kW	12-Mar-09 kW	13-Mar-09 kW
1	5.369,00	6.035,00	7.031,00	6.001,00	5.768,00	5.683,00	6.914,00	5.580,00	6.307,00	5.755,00	5.423,00	5.112,00	5.005,00
2	5.371,00	6.013,00	7.031,00	6.030,00	5.770,00	5.686,00	6.595,00	5.582,00	6.911,00	6.056,00	5.414,00	5.141,00	5.030,00
3	5.375,00	6.122,00	7.022,00	6.040,00	5.807,00	5.683,00	6.312,00	5.575,00	6.403,00	6.298,00	5.412,00	5.147,00	5.051,00
4	5.381,00	6.430,00	6.835,00	6.049,00	5.814,00	5.686,00	6.271,00	5.570,00	6.138,00	6.754,00	5.419,00	5.156,00	5.039,00
5	5.380,00	7.030,00	6.716,00	6.044,00	5.810,00	5.693,00	6.450,00	5.569,00	5.924,00	7.098,00	5.424,00	5.176,00	5.048,00
6	5.376,00	7.061,00	6.607,00	6.058,00	5.818,00	5.686,00	6.268,00	5.573,00	5.800,00	7.252,00	5.425,00	5.192,00	5.071,00
7	5.381,00	7.048,00	6.529,00	6.083,00	5.812,00	5.696,00	6.119,00	5.573,00	5.724,00	7.244,00	5.420,00	5.196,00	5.086,00
8	5.377,00	7.037,00	6.461,00	6.173,00	5.791,00	5.711,00	6.061,00	5.572,00	5.660,00	7.243,00	5.424,00	5.208,00	5.100,00
9	5.408,00	7.018,00	6.416,00	6.383,00	5.161,00	5.708,00	6.030,00	5.580,00	5.616,00	7.174,00	5.419,00	5.219,00	5.107,00
10	5.394,00	7.021,00	6.396,00	6.277,00	0,00	5.718,00	5.990,00	5.570,00	5.590,00	6.835,00	5.424,00	5.228,00	5.134,00
11	5.422,00	7.015,00	6.379,00	6.180,00	0,00	5.728,00	5.988,00	5.590,00	5.566,00	6.578,00	5.430,00	5.236,00	5.141,00
12	5.428,00	7.006,00	6.346,00	157,88	0,00	5.712,00	5.942,00	5.573,00	5.545,00	6.350,00	5.414,00	5.230,00	5.128,00
13	5.430,00	7.021,00	6.317,00	0,00	0,00	5.688,00	5.904,00	5.561,00	5.497,00	6.185,00	5.374,00	5.196,00	5.114,00
14	5.423,00	7.032,00	6.307,00	0,00	0,00	5.653,00	5.878,00	5.533,00	5.471,00	6.043,00	5.348,00	5.172,00	5.136,00
15	5.428,00	7.034,00	6.277,00	0,00	0,00	5.618,00	5.856,00	5.492,00	5.442,00	5.924,00	5.320,00	5.138,00	5.086,00
16	5.382,00	7.032,00	6.294,00	0,00	0,00	5.587,00	5.810,00	5.460,00	5.401,00	5.818,00	5.272,00	5.108,00	5.060,00
17	5.366,00	7.044,00	6.240,00	0,00	2.776,98	5.556,00	5.743,00	5.410,00	5.365,00	5.723,00	5.224,00	5.038,00	5.028,00
18	6.109,00	7.034,00	6.172,00	0,00	5.404,00	5.530,00	5.719,00	5.372,00	5.338,00	5.640,00	5.191,00	5.040,00	4.997,00
19	7.050,00	7.024,00	6.134,00	0,00	5.684,00	5.500,00	5.682,00	5.333,00	5.368,00	5.570,00	5.158,00	4.998,00	4.972,00
20	7.048,00	7.021,00	6.084,00	2.249,88	5.689,00	5.544,00	5.647,00	5.316,00	6.046,00	5.512,00	5.117,00	5.026,00	4.962,00
21	7.038,00	7.018,00	6.058,00	5.770,00	5.723,00	6.496,00	5.623,00	5.310,00	5.921,00	5.470,00	5.104,00	4.997,00	4.921,00



AGUAS DE LA CABAÑA S.A. E.S.P.

22	6.702,00	7.018,00	6.035,00	5.776,00	5.728,00	7.332,00	5.602,00	5.318,00	5.634,00	5.461,00	5.086,00	4.988,00	4.914,00
23	6.437,00	7.020,00	6.037,00	5.784,00	5.705,00	7.318,00	5.582,00	5.363,00	5.521,00	5.441,00	5.082,00	4.984,00	4.902,00
24	6.206,00	7.022,00	6.017,00	5.771,00	5.682,00	7.307,00	5.570,00	5.453,00	5.525,00	5.440,00	5.099,00	4.986,00	4.903,00
TOTAL	138.281	165.156	153.741	92.827	93.943	141.519	143.556	131.828	137.713	148.864	127.423	122.912	120.930

HORA	1-Abr-09 kW	2-Abr-09 kW	3-Abr-09 kW	4-Abr-09 kW	5-Abr-09 kW	6-Abr-09 kW	7-Abr-09 kW	8-Abr-09 kW	9-Abr-09 kW	10-Abr-09 kW	11-Abr-09 kW	12-Abr-09 kW	13-Abr-09 kW
1	7.231,00	7.188,00	7.169,00	7.199,00	7.189,00	7.199,00	7.196,00	7.190,00	7.058,00	7.186,00	7.183,00	7.220,00	7.242,00
2	7.211,00	7.182,00	7.166,00	7.193,00	7.189,00	7.195,00	7.198,00	6.490,00	7.199,00	7.189,00	7.183,00	7.216,00	7.244,00
3	7.210,00	7.192,00	7.166,00	7.182,00	7.190,00	7.194,00	7.207,00	5.423,00	7.195,00	7.193,00	7.186,00	7.217,00	7.242,00
4	7.205,00	7.183,00	7.170,00	7.182,00	7.189,00	7.194,00	7.190,00	7.195,00	7.195,00	7.190,00	7.184,00	7.216,00	7.242,00
5	7.205,00	7.174,00	7.172,00	7.192,00	7.189,00	7.190,00	7.181,00	7.190,00	7.194,00	7.192,00	7.183,00	7.200,00	7.241,00
6	7.213,00	7.201,00	7.164,00	7.186,00	7.192,00	7.193,00	7.172,00	7.189,00	7.190,00	7.193,00	7.183,00	7.195,00	7.242,00
7	7.205,00	7.201,00	7.165,00	7.182,00	7.192,00	7.192,00	7.182,00	7.190,00	7.193,00	7.193,00	7.182,00	7.192,00	7.242,00
8	7.195,00	7.186,00	7.162,00	7.182,00	7.188,00	7.189,00	7.176,00	7.177,00	7.188,00	7.190,00	7.177,00	7.183,00	7.235,00
9	7.192,00	7.199,00	7.160,00	7.180,00	7.189,00	7.189,00	7.180,00	7.169,00	7.184,00	7.187,00	7.180,00	7.183,00	7.237,00
10	7.193,00	7.189,00	7.160,00	7.174,00	7.184,00	7.186,00	7.200,00	7.172,00	7.183,00	7.182,00	7.176,00	7.184,00	7.235,00
11	7.186,00	7.180,00	7.157,00	7.170,00	7.183,00	7.187,00	7.196,00	7.168,00	7.182,00	7.175,00	7.177,00	7.186,00	7.235,00
12	7.189,00	7.180,00	7.154,00	7.168,00	7.178,00	7.184,00	7.194,00	7.166,00	7.180,00	7.174,00	7.177,00	7.184,00	5.588,90
13	7.190,00	7.181,00	7.158,00	7.176,00	7.178,00	7.183,00	7.189,00	7.168,00	7.180,00	7.174,00	7.175,00	7.180,00	0,00
14	7.190,00	7.180,00	7.160,00	7.176,00	7.184,00	7.186,00	7.193,00	7.171,00	7.181,00	7.175,00	7.175,00	7.170,00	3.421,90
15	7.186,00	7.183,00	7.163,00	7.176,00	7.182,00	7.184,00	7.194,00	7.178,00	7.183,00	7.177,00	7.174,00	7.169,00	7.349,00
16	7.190,00	7.187,00	7.160,00	7.176,00	7.183,00	7.186,00	7.193,00	7.184,00	7.186,00	7.183,00	7.175,00	7.170,00	7.368,00
17	7.200,00	7.189,00	7.164,00	7.177,00	7.186,00	7.189,00	7.198,00	7.193,00	7.184,00	7.183,00	7.181,00	7.170,00	7.369,00
18	7.202,00	7.200,00	7.168,00	7.183,00	7.189,00	7.192,00	7.200,00	7.194,00	7.180,00	7.182,00	7.187,00	5.678,00	7.374,00
19	7.201,00	7.210,00	4.973,00	7.184,00	7.187,00	7.189,00	7.196,00	7.192,00	7.182,00	7.178,00	7.178,00	7.222,00	7.369,00
20	7.210,00	7.207,00	4.709,98	7.180,00	7.186,00	7.194,00	7.198,00	7.194,00	7.181,00	7.180,00	7.180,00	7.230,00	7.367,00
21	7.218,00	7.214,00	7.312,00	7.183,00	7.190,00	7.194,00	7.204,00	7.198,00	7.184,00	7.181,00	4.518,00	7.237,00	7.370,00
22	7.220,00	7.194,00	7.252,00	7.186,00	7.193,00	7.193,00	7.219,00	7.190,00	7.183,00	7.187,00	2.732,98	7.247,00	7.373,00
23	7.192,00	7.130,00	7.189,00	7.186,00	7.194,00	7.198,00	7.208,00	7.195,00	7.186,00	7.186,00	7.235,00	7.250,00	7.372,00



AGUAS DE LA CABAÑA S.A. E.S.P.

24	7.205,00	7.172,00	7.180,00	7.189,00	7.194,00	7.199,00	7.198,00	7.198,00	7.188,00	7.187,00	7.229,00	7.246,00	7.373,00
TOTAL	172.839	172.502	167.554	172.362	172.498	172.579	172.662	169.974	172.339	172.417	165.311	171.345	162.330

HORA	1-May-09 kW	2-May-09 kW	3-May-09 kW	4-May-09 kW	5-May-09 kW	6-May-09 kW	7-May-09 kW	8-May-09 kW	9-May-09 kW	10-May-09 kW	11-May-09 kW	12-May-09 kW	13-May-09 kW
1	7.150,00	7.147,00	7.109,00	7.105,00	7.094,00	7.109,00	7.106,00	7.252,00	7.219,00	7.195,00	7.190,00	7.182,00	7.222,00
2	7.150,00	7.105,00	7.104,00	7.100,00	7.096,00	7.109,00	7.104,00	7.247,00	7.219,00	7.199,00	7.189,00	7.181,00	7.224,00
3	7.151,00	6.846,00	7.108,00	7.100,00	7.097,00	7.108,00	7.066,00	7.224,00	7.223,00	7.200,00	7.192,00	7.183,00	7.223,00
4	7.151,00	4.939,96	7.109,00	7.108,00	7.097,00	7.106,00	7.114,00	7.225,00	7.213,00	7.198,00	7.193,00	7.183,00	7.226,00
5	7.152,00	6.858,00	7.114,00	7.110,00	7.098,00	7.105,00	7.170,00	7.219,00	7.214,00	7.202,00	7.194,00	7.184,00	7.223,00
6	7.151,00	5.892,00	7.114,00	7.106,00	7.096,00	7.108,00	7.177,00	7.220,00	7.212,00	7.202,00	7.195,00	7.183,00	7.220,00
7	7.150,00	5.893,00	7.112,00	7.109,00	7.098,00	7.108,00	7.184,00	7.224,00	7.213,00	7.202,00	7.192,00	7.181,00	7.218,00
8	7.148,00	6.253,00	7.109,00	7.098,00	7.097,00	7.103,00	7.182,00	7.224,00	7.207,00	7.204,00	7.193,00	7.178,00	7.219,00
9	7.145,00	7.008,00	7.110,00	7.099,00	7.091,00	7.100,00	7.181,00	7.216,00	7.205,00	7.198,00	6.599,00	7.178,00	7.218,00
10	7.144,00	7.037,00	7.110,00	7.098,00	7.094,00	7.106,00	7.178,00	7.211,00	7.195,00	7.195,00	6.527,00	7.177,00	7.214,00
11	7.139,00	7.033,00	7.104,00	7.097,00	7.098,00	7.112,00	7.174,00	7.207,00	7.194,00	7.195,00	7.182,00	7.177,00	7.213,00
12	7.134,00	7.045,00	7.103,00	7.093,00	7.100,00	7.118,00	7.171,00	7.213,00	7.193,00	7.194,00	6.679,00	7.175,00	7.211,00
13	7.133,00	7.052,00	7.104,00	7.096,00	7.102,00	7.117,00	7.171,00	7.214,00	7.194,00	7.196,00	7.175,00	7.181,00	7.212,00
14	7.132,00	7.054,00	7.109,00	7.097,00	7.100,00	7.118,00	7.172,00	7.216,00	7.194,00	7.198,00	7.176,00	7.178,00	7.208,00
15	7.129,00	7.056,00	7.109,00	7.099,00	7.097,00	7.112,00	7.169,00	7.216,00	7.195,00	7.198,00	7.176,00	7.175,00	7.206,00
16	7.128,00	7.084,00	7.116,00	7.099,00	7.103,00	7.111,00	7.171,00	7.217,00	7.194,00	7.198,00	7.178,00	7.176,00	7.204,00
17	7.127,00	7.086,00	7.124,00	7.102,00	7.110,00	7.115,00	7.174,00	7.210,00	7.199,00	7.198,00	7.180,00	7.178,00	7.206,00
18	7.128,00	7.105,00	7.126,00	7.109,00	7.108,00	7.118,00	7.181,00	7.214,00	7.200,00	7.198,00	7.182,00	7.181,00	7.207,00
19	7.128,00	7.106,00	7.105,00	7.097,00	7.096,00	7.116,00	7.178,00	7.208,00	7.195,00	7.154,00	7.181,00	7.181,00	7.206,00
20	7.124,00	7.110,00	7.102,00	7.104,00	7.086,00	7.112,00	7.176,00	7.211,00	7.193,00	7.192,00	7.182,00	6.820,00	7.204,00
21	7.127,00	7.106,00	7.103,00	7.104,00	7.087,00	7.116,00	7.175,00	7.214,00	7.198,00	7.192,00	7.182,00	6.090,98	7.208,00
22	7.123,00	7.108,00	7.104,00	7.094,00	7.087,00	7.106,00	6.164,00	7.217,00	7.188,00	7.192,00	7.182,00	7.219,00	7.208,00
23	7.124,00	7.105,00	7.105,00	7.097,00	7.090,00	7.105,00	1.394,98	7.222,00	7.193,00	7.192,00	7.182,00	7.212,00	7.210,00
24	7.136,00	7.109,00	7.104,00	7.098,00	7.099,00	7.105,00	7.250,00	7.220,00	7.194,00	7.192,00	7.183,00	7.217,00	7.210,00
TOTAL	171.304,00	164.137,96	170.617,00	170.419,00	170.321,00	170.643,00	165.182,98	173.261,00	172.844,00	172.684,00	170.684,00	170.970,98	173.120,00

HORA	1-Jun-09 kW	2-Jun-09 kW	3-Jun-09 kW	4-Jun-09 kW	5-Jun-09 kW	6-Jun-09 kW	7-Jun-09 kW	8-Jun-09 kW	9-Jun-09 kW	10-Jun-09 kW	11-Jun-09 kW	12-Jun-09 kW	13-Jun-09 kW
1	7.226,00	7.237,00	7.241,00	7.244,00	7.246,00	7.218,00	7.198,00	7.195,00	7.190,00	7.189,00	7.309,00	7.307,00	7.294,00
2	7.229,00	7.241,00	7.243,00	7.242,00	7.246,00	7.212,00	7.196,00	7.193,00	7.194,00	7.196,00	7.308,00	7.306,00	7.295,00
3	7.230,00	7.241,00	7.243,00	7.246,00	7.248,00	7.212,00	7.194,00	7.190,00	7.195,00	7.213,00	7.308,00	7.306,00	7.295,00
4	7.228,00	7.241,00	7.244,00	7.244,00	7.248,00	7.217,00	7.200,00	7.190,00	7.196,00	7.208,00	7.309,00	7.307,00	7.296,00
5	7.231,00	7.243,00	7.246,00	7.244,00	7.255,00	7.223,00	7.198,00	7.192,00	7.190,00	7.210,00	7.308,00	7.306,00	7.298,00
6	7.228,00	7.242,00	7.246,00	7.244,00	7.254,00	7.225,00	7.196,00	7.192,00	7.189,00	7.208,00	7.307,00	7.303,00	7.295,00
7	7.229,00	7.240,00	7.246,00	7.246,00	7.256,00	7.224,00	7.198,00	7.196,00	7.192,00	7.222,00	7.307,00	7.302,00	7.295,00
8	7.228,00	7.241,00	7.243,00	7.243,00	7.256,00	7.225,00	7.196,00	7.192,00	7.189,00	7.219,00	7.306,00	7.297,00	7.290,00
9	7.224,00	7.241,00	7.240,00	7.246,00	7.262,00	7.224,00	7.194,00	7.189,00	7.188,00	7.218,00	7.304,00	7.297,00	7.286,00
10	7.228,00	7.236,00	7.244,00	7.244,00	7.261,00	7.223,00	7.198,00	7.187,00	7.187,00	1.379,96	7.303,00	7.297,00	7.286,00
11	1.929,92	7.237,00	5.540,98	7.243,00	7.262,00	7.223,00	7.193,00	7.186,00	7.187,00	0,00	7.301,00	7.295,00	7.285,00
12	0,00	7.237,00	7.232,00	7.242,00	7.259,00	7.216,00	7.190,00	7.183,00	7.182,00	0,00	7.300,00	7.296,00	7.283,00
13	0,00	7.236,00	7.240,00	7.243,00	7.256,00	7.213,00	7.190,00	7.184,00	7.186,00	0,00	7.296,00	7.295,00	7.286,00
14	6.241,00	7.237,00	7.241,00	7.244,00	7.261,00	7.214,00	7.194,00	7.187,00	7.187,00	2.838,98	7.297,00	7.295,00	7.286,00
15	7.231,00	7.234,00	7.235,00	7.240,00	7.261,00	7.199,00	7.195,00	7.186,00	7.184,00	7.304,00	7.301,00	7.294,00	7.286,00
16	7.231,00	7.232,00	7.235,00	7.240,00	7.261,00	7.196,00	7.194,00	7.188,00	7.186,00	7.307,00	7.300,00	7.295,00	7.289,00
17	7.234,00	7.234,00	7.236,00	7.242,00	7.259,00	7.198,00	7.194,00	7.188,00	7.187,00	7.310,00	7.303,00	7.295,00	7.288,00
18	7.235,00	7.236,00	7.238,00	7.242,00	7.261,00	7.200,00	7.195,00	7.189,00	7.186,00	7.313,00	7.304,00	7.297,00	7.290,00
19	7.234,00	7.237,00	7.236,00	6.749,00	7.256,00	7.193,00	7.194,00	7.183,00	7.184,00	7.309,00	7.307,00	7.292,00	7.282,00
20	7.229,00	7.235,00	7.234,00	7.098,00	7.186,00	7.194,00	7.193,00	7.183,00	7.183,00	7.307,00	7.304,00	7.290,00	7.278,00
21	7.234,00	7.238,00	7.238,00	7.240,00	7.178,00	7.194,00	7.192,00	7.178,00	7.188,00	7.310,00	7.303,00	7.294,00	7.283,00
22	7.235,00	7.237,00	7.242,00	7.240,00	7.105,00	7.190,00	7.190,00	7.178,00	7.189,00	7.310,00	7.302,00	7.288,00	7.282,00
23	7.236,00	7.241,00	7.241,00	7.238,00	4.230,00	7.193,00	7.193,00	7.184,00	6.594,00	7.309,00	7.306,00	7.288,00	7.283,00
24	7.240,00	7.242,00	7.242,00	7.242,00	7.216,00	7.190,00	7.194,00	7.186,00	7.188,00	7.309,00	7.306,00	7.290,00	7.290,00
TOTAL	152.791	173.716	172.067	173.186	170.783	173.016	172.669	172.499	171.921	142.190	175.299	175.132	174.921

HORA	1-Jul-09	2-Jul-09	3-Jul-09	4-Jul-09	5-Jul-09	6-Jul-09	7-Jul-09	8-Jul-09	9-Jul-09	10-Jul-09	11-Jul-09	12-Jul-09	13-Jul-09
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AGUAS DE LA CABAÑA S.A. E.S.P.

	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
1	7.230,00	7.133,00	7.230,00	7.250,00	7.264,00	7.235,00	7.232,00	7.229,00	7.235,00	7.228,00	7.204,00	7.200,00	7.198,00
2	7.230,00	7.116,00	7.231,00	7.252,00	7.266,00	7.232,00	7.235,00	7.231,00	7.236,00	7.230,00	7.204,00	7.204,00	7.205,00
3	7.232,00	7.124,00	7.232,00	7.253,00	7.267,00	7.232,00	7.230,00	7.232,00	7.236,00	7.235,00	7.219,00	7.205,00	7.207,00
4	7.230,00	7.129,00	7.231,00	7.252,00	7.266,00	7.234,00	7.230,00	7.232,00	7.235,00	7.235,00	7.217,00	7.204,00	7.204,00
5	7.231,00	7.124,00	7.015,00	7.253,00	7.267,00	7.232,00	7.229,00	7.236,00	7.235,00	7.235,00	7.214,00	7.204,00	7.204,00
6	7.231,00	7.123,00	1.235,96	7.250,00	7.270,00	7.229,00	7.231,00	7.231,00	7.230,00	7.232,00	7.214,00	7.206,00	7.201,00
7	7.229,00	6.313,00	5.047,00	7.249,00	7.272,00	7.230,00	7.226,00	7.235,00	7.228,00	7.231,00	7.211,00	7.208,00	7.204,00
8	7.229,00	7.139,00	3.860,00	7.249,00	7.268,00	7.229,00	7.226,00	7.229,00	5.911,00	7.225,00	7.206,00	7.205,00	7.199,00
9	7.254,00	7.114,00	7.220,00	7.250,00	7.262,00	7.229,00	7.229,00	7.225,00	6.616,00	7.226,00	7.206,00	7.162,00	6.318,00
10	7.253,00	7.115,00	7.236,00	7.248,00	7.260,00	7.230,00	7.228,00	7.223,00	7.204,00	7.219,00	7.200,00	7.204,00	6.164,00
11	7.252,00	7.110,00	7.241,00	7.246,00	7.259,00	7.231,00	7.226,00	7.218,00	7.199,00	7.219,00	7.196,00	7.200,00	6.580,00
12	7.252,00	7.108,00	7.240,00	6.021,98	7.259,00	7.229,00	7.199,00	7.224,00	7.198,00	7.219,00	7.199,00	7.199,00	7.198,00
13	7.249,00	7.110,00	7.242,00	7.254,00	7.255,00	7.226,00	7.229,00	7.230,00	7.205,00	7.220,00	7.198,00	7.194,00	7.198,00
14	7.250,00	7.108,00	7.242,00	7.255,00	7.254,00	7.226,00	7.228,00	7.229,00	7.210,00	7.219,00	7.199,00	7.195,00	7.198,00
15	7.249,00	7.112,00	7.240,00	7.259,00	7.253,00	7.225,00	7.228,00	7.230,00	7.208,00	7.222,00	7.200,00	7.195,00	7.196,00
16	7.243,00	7.116,00	7.243,00	7.262,00	7.253,00	7.226,00	7.226,00	7.231,00	7.212,00	7.220,00	7.200,00	7.195,00	7.199,00
17	7.241,00	3.488,00	7.246,00	6.291,98	7.255,00	7.228,00	7.231,00	7.228,00	7.220,00	7.220,00	7.200,00	7.196,00	7.199,00
18	7.240,00	7.142,00	6.595,00	995,98	7.256,00	7.229,00	7.235,00	7.232,00	7.214,00	7.224,00	7.201,00	7.198,00	7.199,00
19	7.237,00	5.957,00	5.123,98	7.267,00	7.261,00	7.226,00	7.228,00	7.226,00	7.213,00	7.223,00	7.198,00	7.195,00	7.196,00
20	7.244,00	3.245,00	7.247,00	7.266,00	7.258,00	7.226,00	7.225,00	7.226,00	7.212,00	7.220,00	7.196,00	7.195,00	7.196,00
21	7.249,00	5.618,00	7.249,00	7.270,00	5.714,98	7.226,00	7.229,00	7.230,00	7.213,00	7.219,00	7.196,00	7.194,00	7.200,00
22	6.200,00	7.313,00	8.154,00	7.271,00	7.252,00	7.224,00	7.224,00	7.231,00	7.216,00	7.224,00	7.199,00	7.199,00	7.199,00
23	6.000,00	7.313,00	8.364,00	7.264,00	7.244,00	7.229,00	7.228,00	7.232,00	7.218,00	6.692,00	7.200,00	7.202,00	7.205,00
24	4.145,00	7.313,00	8.364,00	7.266,00	7.238,00	7.231,00	7.228,00	7.235,00	7.223,00	7.204,00	7.193,00	7.202,00	7.202,00
TOTAL	168.400,00	160.483,00	162.328,94	165.695,94	172.673,98	173.494,00	173.460,00	173.505,00	171.327,00	172.841,00	172.870,00	172.761,00	170.269,00

HORA	1-Ago-09 kW	2-Ago-09 kW	3-Ago-09 kW	4-Ago-09 kW	5-Ago-09 kW	6-Ago-09 kW	7-Ago-09 kW	8-Ago-09 kW	9-Ago-09 kW	10-Ago-09 kW	11-Ago-09 kW	12-Ago-09 kW	13-Ago-09 kW
1	5.898,00	5.341,00	4.854,00	5.069,00	4.800,00	5.503,00	7.132,00	6.325,00	5.849,00	5.620,00	5.190,00	5.076,00	4.943,00



AGUAS DE LA CABAÑA S.A. E.S.P.

2	6.071,00	5.353,00	5.773,00	5.460,00	5.424,00	5.711,00	7.121,00	6.734,00	6.100,00	5.867,00	5.576,00	5.432,00	5.333,00
3	6.563,00	5.372,00	5.786,00	5.537,00	5.466,00	5.936,00	7.123,00	6.712,00	6.094,00	5.886,00	5.554,00	5.431,00	5.574,00
4	7.165,00	5.374,00	5.766,00	5.566,00	5.477,00	7.036,00	7.126,00	6.690,00	6.032,00	5.908,00	5.560,00	5.447,00	5.468,00
5	7.169,00	5.369,00	5.807,00	5.581,00	5.497,00	7.146,00	7.123,00	6.674,00	6.120,00	5.830,00	5.538,00	5.460,00	5.482,00
6	7.168,00	5.381,00	5.866,00	5.602,00	5.507,00	7.122,00	7.124,00	6.659,00	6.108,00	5.886,00	5.592,00	5.470,00	6.466,00
7	7.164,00	5.380,00	5.424,00	5.140,00	5.074,00	7.098,00	7.138,00	5.800,00	5.161,00	5.182,00	5.213,00	5.221,00	6.314,00
8	7.162,00	5.111,00	5.857,00	5.660,00	5.552,00	7.109,00	7.148,00	6.613,00	6.083,00	5.842,00	5.598,00	5.490,00	5.488,00
9	7.145,00	4.955,00	5.845,00	5.694,00	5.572,00	7.121,00	7.147,00	6.559,00	6.104,00	5.855,00	5.610,00	5.489,00	5.582,00
10	7.163,00	1.345,90	5.908,00	5.198,00	5.520,00	7.118,00	7.145,00	6.553,00	6.091,00	5.872,00	5.629,00	5.507,00	5.519,00
11	7.163,00	0,00	5.828,00	1.309,00	5.557,00	7.117,00	7.140,00	6.488,00	6.064,00	5.786,00	5.566,00	5.503,00	5.489,00
12	7.036,00	0,00	5.851,00	2.423,86	5.526,00	7.123,00	7.133,00	6.462,00	6.053,00	5.822,00	5.560,00	4.951,00	5.429,00
13	6.701,00	0,00	5.323,00	3.138,00	4.904,00	7.129,00	7.133,00	5.992,00	5.285,00	5.119,00	5.116,00	4.872,00	4.820,00
14	2.716,00	0,00	5.774,00	5.749,00	5.708,00	7.129,00	7.134,00	6.292,00	6.008,00	5.711,00	5.504,00	5.426,00	5.502,00
15	258,90	0,00	5.668,00	6.092,00	5.537,00	7.140,00	7.139,00	6.168,00	5.934,00	5.689,00	5.524,00	5.374,00	7.058,00
16	916,90	0,00	5.676,00	5.884,00	5.362,00	7.138,00	7.136,00	6.260,00	5.891,00	5.636,00	5.545,00	5.317,00	7.132,00
17	5.332,00	0,00	5.531,00	5.215,00	5.320,00	7.135,00	7.129,00	6.221,00	5.881,00	5.586,00	5.532,00	5.264,00	6.230,00
18	5.483,00	0,00	5.531,00	4.967,00	5.224,00	6.494,00	7.132,00	6.174,00	5.839,00	5.556,00	5.328,00	5.233,00	7.139,00
19	5.476,00	4.427,98	4.818,00	4.716,00	4.595,00	5.778,98	7.093,00	6.142,00	5.552,00	5.176,00	5.137,00	4.886,00	7.033,00
20	5.414,00	5.731,00	5.448,00	5.290,00	4.835,98	6.605,00	7.024,00	6.115,00	5.796,00	5.504,00	5.393,00	5.200,00	6.918,00
21	5.375,00	5.722,00	5.503,00	5.322,00	4.790,00	6.802,00	6.958,00	6.120,00	5.792,00	5.482,00	5.395,00	5.194,00	5.514,00
22	5.352,00	5.712,00	5.465,00	5.377,00	5.410,00	7.142,00	4.798,98	6.133,00	5.788,00	5.484,00	5.382,00	5.168,00	5.629,00
23	5.336,00	5.735,00	5.459,00	5.396,00	5.428,00	7.134,00	6.806,00	6.118,00	5.809,00	5.560,00	5.398,00	5.206,00	5.579,00
24	5.344,00	5.766,00	5.484,00	5.411,00	5.473,00	7.121,00	6.806,00	6.109,00	5.814,00	5.573,00	5.393,00	4.924,00	3.669,98
TOTAL	136.571,80	82.075,88	134.245,00	120.796,86	127.558,98	163.887,98	167.888,98	152.113,00	141.248,00	135.432,00	130.833,00	126.541,00	139.310,00

HORA	1-Sep-09 kW	2-Sep-09 kW	3-Sep-09 kW	4-Sep-09 kW	5-Sep-09 kW	6-Sep-09 kW	7-Sep-09 kW	8-Sep-09 kW	9-Sep-09 kW	10-Sep-09 kW	11-Sep-09 kW	12-Sep-09 kW	13-Sep-09 kW
1	6.198,00	6.997,00	5.845,00	7.091,00	5.846,00	5.524,00	5.330,00	5.248,00	6.256,00	5.372,00	5.148,00	5.004,00	5.177,00
2	6.274,00	6.521,00	5.857,00	7.008,00	5.837,00	5.557,00	5.359,00	5.263,00	5.468,00	5.389,00	5.150,00	5.029,00	5.335,00
3	6.284,00	5.884,00	5.873,00	7.092,00	5.850,00	5.572,00	5.380,00	5.287,00	5.800,00	5.404,00	5.160,00	5.035,00	5.381,00
4	6.305,00	6.012,00	5.845,00	7.093,00	5.846,00	5.566,00	5.404,00	5.297,00	6.608,00	5.491,00	5.167,00	5.042,00	5.692,00



AGUAS DE LA CABAÑA S.A. E.S.P.

5	6.290,00	6.023,00	5.910,00	7.084,00	5.846,00	5.591,00	5.423,00	5.310,00	6.522,00	5.555,00	5.182,00	5.052,00	6.151,00
6	6.295,00	6.024,00	5.893,00	6.876,00	5.855,00	5.594,00	5.437,00	5.334,00	6.772,00	5.578,00	5.191,00	5.059,00	6.901,00
7	6.281,00	6.022,00	5.897,00	6.899,00	5.852,00	5.604,00	5.448,00	5.345,00	6.821,00	5.588,00	5.198,00	5.059,00	7.178,00
8	6.282,00	6.025,00	5.898,00	6.566,00	5.858,00	5.616,00	5.452,00	5.346,00	6.884,00	5.611,00	5.200,00	5.064,00	7.176,00
9	6.293,00	6.034,00	5.882,00	6.641,00	5.858,00	5.618,00	5.462,00	5.335,00	6.910,00	5.669,00	5.206,00	5.077,00	7.176,00
10	6.270,00	6.037,00	5.920,00	1.991,90	5.860,00	5.620,00	5.476,00	121,92	6.920,00	5.683,00	5.222,00	5.071,00	7.177,00
11	6.271,00	6.026,00	5.892,00	0,00	5.840,00	5.618,00	5.491,00	0,00	6.613,00	5.663,00	5.207,00	5.100,00	7.176,00
12	6.246,00	5.995,00	5.873,00	0,00	5.833,00	5.602,00	5.452,00	0,00	6.340,00	5.639,00	5.167,00	5.099,00	7.180,00
13	6.010,00	5.984,00	5.845,00	0,00	5.807,00	5.580,00	5.435,00	0,00	6.144,00	5.632,00	5.154,00	5.042,00	7.183,00
14	6.174,00	5.957,00	5.824,00	2.932,96	5.788,00	5.548,00	5.430,00	0,00	5.986,00	5.447,00	5.129,00	5.009,00	7.184,00
15	6.116,00	5.918,00	5.692,00	6.272,00	5.748,00	5.496,00	5.378,00	3.045,96	5.828,00	5.440,00	5.110,00	4.981,00	7.076,00
16	5.448,00	5.869,00	5.671,00	6.198,00	5.674,00	5.434,00	5.346,00	5.221,00	5.707,00	5.345,00	5.063,00	4.963,00	6.653,00
17	5.614,00	4.433,00	5.538,00	6.101,00	5.614,00	5.357,00	5.310,00	5.248,00	5.585,00	5.306,00	5.023,00	4.938,00	6.386,00
18	5.572,00	4.073,00	5.486,00	6.024,00	5.564,00	5.315,00	5.326,00	5.213,00	5.514,00	5.269,00	4.991,00	4.938,00	6.131,00
19	5.531,00	6.848,00	5.471,00	5.976,00	5.539,00	5.354,00	5.287,00	5.182,00	4.573,00	5.221,00	5.002,00	5.072,00	5.897,00
20	5.126,00	6.152,00	5.224,00	5.934,00	5.507,00	5.302,00	5.248,00	5.174,00	4.918,00	5.184,00	4.980,00	5.054,00	5.792,00
21	5.435,00	5.773,00	5.563,00	5.906,00	5.500,00	5.250,00	5.231,00	5.185,00	5.654,00	5.156,00	4.984,00	5.056,00	5.627,00
22	5.502,00	5.857,00	7.084,00	5.887,00	5.528,00	5.291,00	5.222,00	5.189,00	5.123,00	5.140,00	5.238,00	5.033,00	5.443,00
23	5.932,00	5.834,00	7.088,00	5.849,00	5.525,00	5.274,00	5.224,00	5.222,00	5.407,00	5.159,00	4.913,00	5.077,00	5.474,00
24	6.949,00	5.858,00	7.088,00	5.856,00	5.530,00	5.314,00	5.236,00	5.430,00	5.327,00	5.148,00	4.984,00	5.158,00	5.428,00
TOTAL	144.698,00	142.156,00	142.159,00	127.277,86	137.505,00	131.597,00	128.787,00	97.996,88	143.680,00	130.089,00	122.769,00	121.012,00	151.974,00

HORA	1-Oct-09 kW	2-Oct-09 kW	3-Oct-09 kW	4-Oct-09 kW	5-Oct-09 kW	6-Oct-09 kW	7-Oct-09 kW	8-Oct-09 kW	9-Oct-09 kW	10-Oct-09 kW	11-Oct-09 kW	12-Oct-09 kW	13-Oct-09 kW
1	4.336,00	4.300,00	5.279,00	5.317,00	4.951,00	4.356,00	4.150,00	4.230,00	4.100,00	2.688,00	5.396,00	7.096,00	5.635,00
2	4.334,00	4.310,00	5.154,00	5.141,00	4.826,00	4.342,00	4.169,00	4.280,00	2.964,00	4.135,00	5.414,00	7.062,00	5.592,00
3	4.351,00	4.325,00	5.147,00	5.022,00	4.820,00	4.348,00	4.190,00	4.271,00	3.726,00	3.718,00	5.462,00	7.045,00	5.554,00
4	4.376,00	4.331,00	5.110,00	4.938,00	4.724,00	4.346,00	4.199,00	4.266,00	4.424,00	3.883,00	6.328,00	7.052,00	5.501,00
5	4.392,00	4.352,00	5.113,00	4.880,00	4.694,00	4.348,00	4.217,00	4.266,00	4.459,00	3.865,00	7.110,00	7.064,00	5.449,00
6	4.408,00	4.370,00	5.094,00	4.836,00	4.669,00	4.368,00	4.229,00	4.231,00	3.506,00	3.901,00	7.130,00	7.080,00	5.453,00



AGUAS DE LA CABAÑA S.A. E.S.P.

7	4.424,00	4.384,00	5.125,00	4.814,00	4.644,00	4.367,00	4.249,00	4.244,00	3.413,00	3.913,00	7.118,00	7.072,00	5.437,00
8	4.406,00	4.381,00	5.128,00	4.783,00	4.615,00	4.386,00	4.274,00	3.865,00	2.912,00	3.925,00	7.114,00	7.063,00	5.374,00
9	3.655,00	4.396,00	5.015,00	4.756,00	4.604,00	4.355,00	4.276,00	2.496,00	2.513,00	3.938,00	7.106,00	7.076,00	5.378,00
10	3.725,00	4.400,00	4.920,00	4.727,00	4.595,00	4.390,00	4.266,00	2.489,00	2.534,00	3.950,00	7.043,00	7.074,00	5.330,00
11	3.731,00	4.411,00	4.853,00	4.712,00	4.588,00	4.393,00	4.290,00	2.536,00	2.538,00	3.948,00	7.068,00	7.069,00	5.323,00
12	3.713,00	4.379,00	4.769,00	4.682,00	4.560,00	4.345,00	4.277,00	2.526,00	3.161,00	3.938,00	6.776,00	7.087,00	5.304,00
13	3.718,00	4.352,00	4.716,00	4.650,00	4.538,00	4.327,00	4.277,00	2.521,00	4.673,00	3.931,00	6.437,00	7.091,00	5.262,00
14	4.090,00	4.332,00	4.634,00	4.613,00	4.525,00	4.322,00	4.252,00	3.442,00	4.668,00	3.899,00	6.113,00	6.772,00	5.233,00
15	4.451,00	3.723,98	4.584,00	4.595,00	4.504,00	4.297,00	4.219,00	4.422,00	4.668,00	3.869,00	5.837,00	7.040,00	5.192,00
16	4.296,00	5.698,00	4.565,00	4.692,00	4.483,00	4.250,00	4.219,00	4.415,00	4.678,00	3.836,00	5.617,00	6.011,00	5.160,00
17	4.336,00	5.842,00	4.644,00	4.812,00	4.456,00	4.220,00	4.193,00	4.408,00	1.910,00	3.796,00	5.431,00	6.454,00	5.119,00
18	4.318,00	5.820,00	5.516,00	5.284,00	4.438,00	4.195,00	4.165,00	4.410,00	4.712,00	3.784,00	5.250,00	6.280,00	5.310,00
19	4.312,00	5.738,00	5.861,00	5.758,00	4.409,00	4.172,00	4.144,00	4.616,00	4.642,00	3.793,00	5.126,00	6.138,00	5.683,00
20	4.296,00	4.536,00	6.535,00	5.533,00	4.410,00	4.147,00	4.122,00	5.102,00	766,00	3.780,00	5.124,00	6.019,00	5.185,00
21	4.274,00	6.098,00	6.754,00	5.272,00	4.442,00	4.129,00	4.106,00	5.138,00	4.132,00	4.211,00	5.443,00	5.918,00	5.822,00
22	4.325,00	6.104,00	6.251,00	5.081,00	4.333,00	4.154,00	4.103,00	5.158,00	1.264,00	4.920,00	5.898,00	5.836,00	6.966,00
23	4.289,00	5.675,00	5.849,00	5.038,00	4.352,00	4.153,00	4.118,00	5.160,00	5.032,00	5.191,00	6.992,00	5.759,00	6.997,00
24	4.301,00	5.406,00	5.556,00	4.988,00	4.379,00	4.150,00	4.117,00	5.020,00	2.204,00	5.278,00	7.087,00	5.693,00	6.500,00
TOTAL	100.857,00	115.663,98	126.172,00	118.924,00	109.559,00	102.860,00	100.821,00	97.512,00	83.599,00	96.090,00	149.420,00	159.851,00	133.759,00

HORA	1-Nov-09 kW	2-Nov-09 kW	3-Nov-09 kW	4-Nov-09 kW	5-Nov-09 kW	6-Nov-09 kW	7-Nov-09 kW	8-Nov-09 kW	9-Nov-09 kW	10-Nov-09 kW	11-Nov-09 kW	12-Nov-09 kW	13-Nov-09 kW
1	7.192,00	7.178,00	7.172,00	7.178,00	7.164,00	7.176,00	7.301,00	7.313,00	7.309,00	7.313,00	7.302,00	7.273,00	7.283,00
2	7.188,00	7.178,00	7.105,00	7.187,00	7.176,00	7.174,00	7.303,00	7.315,00	7.310,00	7.314,00	7.302,00	7.277,00	7.286,00
3	7.192,00	7.182,00	7.008,00	7.188,00	7.128,00	7.176,00	7.303,00	7.312,00	7.312,00	7.312,00	7.298,00	7.277,00	7.290,00
4	7.190,00	7.183,00	6.937,00	7.178,00	7.109,00	7.180,00	7.304,00	7.312,00	7.312,00	7.307,00	7.301,00	7.277,00	7.290,00
5	4.801,00	7.180,00	6.878,00	7.158,00	7.111,00	7.178,00	7.306,00	7.314,00	7.310,00	7.302,00	7.300,00	7.277,00	7.290,00
6	6.530,00	7.182,00	6.829,00	7.165,00	7.121,00	7.176,00	7.303,00	7.312,00	7.310,00	7.307,00	7.296,00	7.276,00	7.290,00
7	7.175,00	7.184,00	6.768,00	7.162,00	7.142,00	7.174,00	7.303,00	7.318,00	7.310,00	7.307,00	7.291,00	7.278,00	7.290,00
8	7.062,00	7.176,00	6.756,00	7.163,00	7.142,00	7.172,00	7.303,00	7.314,00	7.307,00	7.303,00	7.260,00	7.277,00	7.286,00



AGUAS DE LA CABAÑA S.A. E.S.P.

9	6.893,00	7.171,00	6.719,00	7.157,00	7.135,00	6.961,00	7.300,00	7.308,00	7.307,00	7.289,00	7.284,00	7.276,00	7.286,00
10	6.744,00	7.166,00	6.810,00	7.154,00	7.134,00	0,00	7.298,00	7.306,00	7.303,00	7.298,00	7.286,00	3.726,92	7.280,00
11	6.634,00	7.166,00	7.166,00	7.153,00	7.139,00	0,00	7.295,00	7.304,00	7.303,00	7.298,00	7.282,00	0,00	7.277,00
12	6.528,00	7.176,00	7.165,00	7.152,00	7.134,00	0,00	7.294,00	7.307,00	7.301,00	7.291,00	7.274,00	0,00	7.278,00
13	6.439,00	7.150,00	7.165,00	7.150,00	7.134,00	0,00	7.148,00	7.304,00	7.302,00	6.941,00	7.278,00	0,00	7.277,00
14	6.353,00	7.135,00	7.160,00	7.154,00	7.134,00	0,00	7.291,00	7.308,00	7.303,00	5.772,00	7.277,00	0,00	7.274,00
15	6.260,00	7.176,00	7.115,00	7.154,00	7.135,00	0,00	7.295,00	7.308,00	7.300,00	3.632,00	7.276,00	6.213,98	7.274,00
16	6.181,00	7.176,00	7.118,00	7.159,00	7.141,00	0,00	7.300,00	7.310,00	7.302,00	1.986,00	7.274,00	7.288,00	7.274,00
17	6.130,00	7.183,00	6.908,00	7.157,00	7.150,00	0,00	7.310,00	7.310,00	5.216,98	7.296,00	7.278,00	7.286,00	7.276,00
18	6.059,00	7.172,00	6.965,00	7.160,00	7.165,00	0,00	7.313,00	7.308,00	7.307,00	7.298,00	7.280,00	7.288,00	7.276,00
19	5.999,00	6.565,00	7.175,00	7.162,00	7.154,00	4.018,96	7.307,00	7.307,00	7.306,00	7.296,00	7.279,00	7.280,00	7.271,00
20	5.957,00	7.180,00	7.180,00	7.163,00	7.144,00	7.300,00	7.307,00	7.304,00	7.306,00	7.303,00	7.280,00	7.279,00	7.272,00
21	5.929,00	7.178,00	7.180,00	7.168,00	6.616,00	7.301,00	7.309,00	7.306,00	7.307,00	7.304,00	7.282,00	7.280,00	7.273,00
22	5.938,00	7.176,00	7.180,00	7.163,00	0,00	7.300,00	7.309,00	7.303,00	7.303,00	7.302,00	7.282,00	6.416,00	7.267,00
23	6.330,00	7.175,00	7.188,00	7.166,00	1.967,90	7.302,00	7.310,00	7.303,00	7.304,00	7.302,00	7.278,00	4.187,96	7.264,00
24	7.093,00	7.174,00	7.182,00	7.165,00	7.176,00	7.301,00	7.313,00	7.308,00	7.307,00	7.302,00	7.273,00	7.285,00	7.265,00
TOTAL	155.797,00	171.562,00	168.829,00	171.916,00	158.551,90	104.889,96	175.125,00	175.414,00	173.257,98	164.375,00	174.813,00	137.018,86	174.689,00

HORA	1-Dic-09 kW	2-Dic-09 kW	3-Dic-09 kW	4-Dic-09 kW	5-Dic-09 kW	6-Dic-09 kW	7-Dic-09 kW	8-Dic-09 kW	9-Dic-09 kW	10-Dic-09 kW	11-Dic-09 kW	12-Dic-09 kW	13-Dic-09 kW
1	6.193,20	6.453,60	5.784,00	5.642,40	5.484,00	5.385,60	5.194,80	6.236,40	6.055,20	5.151,60	4.983,60	5.053,20	4.935,60
2	6.180,00	6.638,40	5.790,00	5.643,60	5.520,00	5.431,20	5.196,00	5.174,40	5.798,40	5.137,20	5.005,20	5.668,80	4.929,60
3	6.166,80	7.090,80	5.793,60	5.660,40	5.534,40	5.428,80	5.193,60	5.529,60	5.634,00	5.136,00	5.002,80	6.024,00	4.926,00
4	6.176,40	7.099,20	5.796,00	5.673,60	5.545,20	5.437,20	5.198,40	6.138,00	5.532,00	5.148,00	5.010,00	6.776,40	4.388,40
5	6.163,20	6.850,80	5.800,80	5.671,20	5.559,60	5.455,20	5.205,60	5.880,00	5.610,00	5.181,60	5.019,60	5.955,60	4.820,40
6	6.171,60	6.649,20	5.803,20	5.708,40	5.572,80	5.457,60	5.218,80	5.594,40	5.479,20	5.167,20	5.024,40	5.930,40	4.861,20
7	6.171,60	6.482,40	5.815,20	5.710,80	5.560,80	5.463,60	5.221,20	5.541,60	4.591,20	5.169,60	5.031,60	5.736,00	4.801,20
8	6.162,00	6.368,40	5.816,40	5.710,80	5.593,20	5.457,60	5.218,80	5.457,60	5.174,40	5.180,40	5.035,20	5.434,80	4.824,00
9	6.177,60	6.252,00	5.774,40	1.957,20	5.564,40	5.204,40	5.216,40	5.444,40	4.958,40	5.173,20	5.047,20	5.335,20	4.822,80
10	6.175,20	6.196,80	5.776,80	874,80	5.575,20	5.470,80	5.215,20	5.433,60	5.284,80	5.168,40	5.044,80	5.254,80	4.825,20



AGUAS DE LA CABAÑA S.A. E.S.P.

11	6.162,00	6.158,40	5.715,60	3.702,00	5.616,00	5.469,60	5.334,00	5.302,80	5.296,80	5.176,80	5.048,40	5.242,80	4.825,20
12	6.148,80	6.114,00	5.728,80	5.702,40	5.577,60	5.432,40	5.295,60	5.336,40	5.319,60	5.169,60	5.028,00	5.158,80	4.824,00
13	6.127,20	6.088,80	5.710,80	5.666,40	5.536,80	5.433,60	5.288,40	5.306,40	5.192,40	5.143,20	4.996,80	5.155,20	4.862,40
14	6.105,60	6.049,20	5.662,80	5.638,80	5.500,80	5.362,80	5.271,60	5.299,20	5.266,80	5.126,40	4.981,20	5.107,20	4.890,00
15	6.061,20	5.995,20	5.746,80	5.616,00	5.467,20	5.350,80	5.235,60	5.258,40	5.260,80	5.107,20	4.960,80	5.084,40	4.861,20
16	6.024,00	5.952,00	5.709,60	5.577,60	5.424,00	5.310,00	5.186,40	5.235,60	5.277,60	5.078,40	4.927,20	5.065,20	4.814,40
17	6.007,20	5.917,20	5.679,60	5.546,40	5.427,60	5.264,40	5.160,00	5.214,00	5.182,80	5.054,40	4.890,00	5.016,00	4.780,80
18	5.995,20	5.880,00	5.660,40	5.522,40	5.390,40	5.236,80	5.128,80	5.186,40	5.245,20	5.035,20	4.876,80	4.989,60	4.743,60
19	5.967,60	5.906,40	5.665,20	5.494,80	5.361,60	5.211,60	5.095,20	5.168,40	5.259,60	5.014,80	4.864,80	4.970,40	4.714,80
20	5.934,00	5.803,20	5.634,00	5.472,00	5.367,60	5.181,60	5.080,80	5.236,80	5.229,60	4.986,00	5.234,40	4.952,40	4.683,60
21	5.935,20	5.821,20	5.602,80	5.492,40	5.364,00	5.164,80	5.104,80	7.017,60	5.199,60	4.988,40	6.057,60	4.929,60	4.670,40
22	5.967,60	5.793,60	5.599,20	5.484,00	5.317,20	5.174,40	5.114,40	6.490,80	5.172,00	4.954,80	5.722,80	4.902,00	4.561,20
23	6.021,60	5.805,60	5.596,80	5.474,40	5.482,80	5.194,80	5.109,60	6.702,00	5.167,20	4.953,60	4.314,00	4.930,80	4.550,40
24	6.194,40	5.800,80	5.617,20	5.475,60	5.425,20	5.188,80	5.122,80	6.402,00	5.152,80	4.958,40	4.677,60	4.938,00	4.474,80
TOTAL	146.389,20	149.167,20	137.280,00	124.118,40	131.768,40	128.168,40	124.606,80	135.586,80	127.340,40	122.360,40	120.784,80	127.611,60	114.391,20