

MINISTERIO DE ENERGIA Y MINAS
CONSORCIO LAHMEYER - SALZGITTER
PROYECTO DE EVALUACION DEL POTENCIAL HIDROELECTRICO DEL PERU

TABLA 6-22 2/3
FFCHA : 27/ 4/79

LISTADO DE LOS PROYECTOS HIDROELECTRICOS
ORDENADO EN FORMA ASCENDENTE POR : FEC CON 24.00 \$/MWH \$ FFC \$= 500.00 \$/MWH

RANK	PROYECTO	ALT.	QM (M**3/S)	HN (M)	PI (MW)	PG (MW)	EP (GWH)	ES (GWH)	ET (GWH)	INV (10**6 \$)	FFC \$/MWH	FFC1 (-)	KESP \$/KW	PROYECTOS CONDICIONANTFS
111	TULU70	1	116.0	205.3	198.6	62.6	497.2	742.6	1239.8	331.0	44.711	0.722	1666.7	
112	CASMA10	2	20.0	672.4	112.2	88.0	574.3	170.7	745.0	269.8	44.712	0.930	2404.6	
113	STUM85A	2	69.6	289.1	167.7	79.0	592.6	370.7	963.3	299.9	45.220	0.819	1788.3	
114	CHAMA50	2	87.0	54.6	39.6	19.7	175.6	86.8	262.4	84.6	45.293	0.888	2136.4	
115	JFQUF30	1	8.5	359.7	25.5	16.2	100.3	59.2	159.5	68.1	46.514	1.155	2670.6	JFQUF10
116	JFPE10	1	123.0	53.3	54.7	9.0	89.7	249.4	339.1	85.4	46.724	0.679	1561.2	
117	LAMB30	1	34.2	394.7	112.6	32.1	215.7	427.4	643.1	171.9	46.943	0.701	1526.6	
118	CASMA60	1	24.3	80.9	16.4	13.3	82.4	31.2	113.6	54.6	47.377	1.341	3329.3	CASMA10
119	PISCU20	1	9.1	756.9	57.4	4.3	26.5	228.1	254.6	56.8	47.399	0.533	989.5	
120	CHANC20	1	15.7	719.4	94.0	25.4	157.4	440.8	598.2	153.8	47.755	0.699	1636.2	
121	PAUC280	5	72.0	191.7	115.1	66.2	493.1	289.9	783.0	261.4	48.063	0.927	2271.1	
122	HUAL50	1	23.4	542.1	105.8	65.3	431.8	196.0	627.8	220.2	48.751	0.933	2081.3	
123	SAMA10	1	30.0	1392.2	348.3	272.6	1695.6	1040.2	2755.8	258.1	48.818	0.273	741.0	LOCUM10
124	APUR100	3	70.9	260.8	154.3	50.7	373.2	407.5	780.7	241.8	49.163	0.779	1567.1	
125	PACHA30	8	104.9	407.2	356.2	217.7	1584.1	1013.1	2597.2	878.5	49.288	0.958	2466.3	
126	MAYU50	1	351.0	97.7	285.9	83.1	829.7	978.9	1808.6	555.7	49.411	0.834	1943.7	
127	CANFT130	1	57.6	269.8	129.6	25.7	159.6	483.9	643.5	169.5	49.508	0.658	1307.9	
128	MUCHF10	3	5.8	1512.3	73.5	41.9	265.6	118.7	384.3	163.7	49.859	0.915	2227.2	
129	SANTA40	10	18.3	524.0	80.1	80.0	576.2	46.9	623.1	277.3	50.113	1.186	3461.9	
130	CHAN29	1	52.0	377.7	163.8	9.3	57.8	946.1	1003.9	229.1	50.625	0.613	1398.7	
131	MARCA70	2	64.0	179.9	96.0	7.4	46.1	548.9	595.0	138.5	50.690	0.628	1442.7	
132	HUABA20	1	141.4	65.7	77.4	19.0	182.9	293.0	482.9	146.0	50.897	0.817	1886.3	
133	VFL37	8	20.7	605.0	104.6	64.8	425.2	161.2	586.4	221.0	51.257	0.983	2112.8	
134	PISCU40	1	16.9	361.4	50.9	0.0	0.0	229.6	229.6	50.7	51.820	0.532	996.1	
135	ANTA60A	4	82.6	251.8	173.4	49.6	345.0	583.0	928.0	282.0	51.976	0.780	1626.3	
136	SANJU20	1	20.0	533.9	89.1	18.5	118.7	277.1	395.8	114.2	52.054	0.691	1281.7	
137	PAUC270	2	61.0	157.4	80.1	64.7	648.5	7.6	656.1	297.4	53.476	1.326	3712.9	
138	TAMBU60	4	31.5	449.7	118.1	105.2	652.6	286.8	939.4	189.2	54.041	0.585	1602.0	TAMBO10
139	CHICHA10	5	17.8	614.9	91.4	29.2	186.4	270.7	457.1	149.0	54.306	0.816	1630.2	
140	QUIRU10	2	13.0	151.7	16.4	9.9	69.4	31.5	100.9	39.6	54.599	1.056	2414.6	
141	PAT150	1	44.9	337.2	126.3	51.6	320.5	440.0	760.5	252.5	54.806	0.887	1999.2	
142	SANTA10	1	7.2	238.1	14.4	14.4	118.6	1.9	120.5	85.8	55.031	1.370	5958.3	
143	CHAN10	5	13.0	648.9	70.4	55.1	341.9	96.8	438.7	186.9	56.158	1.151	2654.8	
144	APUR173A	2	97.7	286.1	233.1	65.2	441.7	805.1	1246.8	411.2	57.132	0.846	1764.0	
145	PAM101	1	44.8	64.7	24.2	8.9	89.5	50.5	140.0	56.3	57.548	1.061	2326.4	
146	CHIL140	1	24.1	539.6	108.6	43.0	266.7	322.5	589.2	211.1	57.857	0.924	1943.8	
147	APUR45	3	66.2	199.5	110.1	64.3	529.1	117.3	646.4	291.1	58.095	1.193	2644.0	
148	UCUNA50	6	85.1	238.4	169.3	52.2	364.8	445.8	810.6	294.0	58.688	0.894	1736.6	
149	STUM170	2	95.7	171.8	137.2	25.5	158.3	574.5	732.8	223.0	58.707	0.781	1625.4	
150	CHAMA30	2	51.6	129.4	55.7	21.2	150.9	210.9	361.8	128.3	58.703	0.971	2303.4	
151	SANJU10	1	14.3	530.6	63.3	11.4	74.3	206.6	280.9	89.0	58.740	0.758	1406.0	
152	MARA80	4	76.3	249.6	158.8	103.1	787.8	207.7	995.5	448.7	59.030	1.220	2825.6	
153	URUM15	10	21.2	563.4	99.6	80.0	544.8	150.3	695.1	312.3	59.082	1.257	3135.5	
154	YNUA60	2	91.1	97.6	74.1	40.9	489.0	49.4	538.4	258.8	59.101	1.361	3492.6	
155	SAMA30	1	30.0	314.8	78.8	8.3	51.5	310.0	361.5	104.6	59.424	0.702	1327.4	
156	UCUNA70	2	89.7	217.8	163.0	90.9	723.2	261.4	984.6	437.6	60.117	1.189	2684.7	
157	JFC30	1	50.0	131.1	54.7	33.5	336.2	51.2	387.4	186.3	60.410	1.352	3405.9	
158	JFQUF60	1	33.0	144.9	39.9	18.4	139.7	69.6	209.3	133.7	60.493	1.629	3350.9	JFQUF10
159	JFQUE50	3	32.5	196.3	53.2	30.7	247.4	67.5	314.9	189.2	60.598	1.596	3556.4	JFQUF10
160	RIMAC10	1	5.1	1253.1	53.3	53.3	338.9	82.4	421.3	199.6	61.599	1.373	3744.8	
161	CANET90	10	31.8	283.3	75.2	14.9	92.6	280.8	373.4	122.4	61.605	0.819	1627.7	
162	MARA50	3	32.4	346.2	93.4	52.3	352.1	162.7	514.8	227.9	61.667	1.148	2440.0	
163	SAMA20	1	30.0	314.8	78.8	8.3	51.5	310.0	361.5	109.0	61.907	0.731	1383.2	
164	YNUA90	2	94.4	165.5	130.3	59.5	538.1	238.4	776.5	347.9	62.090	1.193	2670.0	
165	CULCA70	1	52.9	269.8	119.1	5.7	35.7	606.8	642.5	179.6	62.141	0.720	1508.0	
166	APUR90	1	69.6	73.7	42.7	9.4	94.1	119.8	213.9	81.8	62.287	0.958	1915.7	
167	CHILL20	2	8.4	359.7	25.3	6.8	42.4	118.8	161.2	54.5	62.842	0.920	2154.1	
168	RIMAC20	1	27.0	224.8	50.6	10.3	64.0	202.1	266.1	95.7	63.534	0.917	1891.3	RIMAC10
169	CHIL120	1	8.3	223.8	15.5	11.7	83.5	14.1	97.6	122.3	64.120	1.375	7890.3	
170	JFQUF10	3	17.2	171.0	24.5	12.6	92.8	41.0	133.8	114.7	64.799	2.215	4681.6	JFQUF10
171	SGAB60	4	75.0	109.3	68.3	19.7	198.8	233.7	432.5	175.5	65.211	1.102	2569.5	
172	YANA10	3	32.0	274.9	73.4	20.9	138.4	340.1	478.5	172.5	65.599	0.988	2350.1	
173	CANET40	3	20.3	481.9	81.7	25.9	174.9	235.6	410.5	167.9	65.775	1.003	2055.1	
174	COTAH25	6	33.0	585.0	161.0	102.2	715.0	257.7	972.7	473.7	65.854	1.303	2942.2	
175	APUR115	1	72.8	249.1	151.3	28.4	176.5	631.8	808.3	276.9	65.956	0.879	1830.1	
176	PAMB4	1	36.6	59.4	18.1	6.6	66.7	38.2	104.9	48.3	66.035	1.214	2668.5	
177	UCONA15	1	20.0	772.3	128.8	69.8	464.5	176.6	641.1	312.3	66.254	1.218	2424.7	
178	ICHU20	1	13.2	352.4	38.8	18.5	122.5	84.5	207.0	94.0	66.918	1.164	2422.7	
179	CHAL10	1	20.2	294.8	49.8	27.7	193.2	82.7	275.9	135.3	67.664	1.275	2716.9	
180	VIL10	9	21.6	275.6	49.6	32.3	244.9	85.1	330.0	167.3	68.278	1.398	3373.0	
181	CHILL10	1	8.4	940.6	66.2	11.5	71.3	282.1	353.4	123.7	68.314	0.897	1868.6	
182	CULCA50	2	37.0	539.6	166.5	8.0	49.9	848.3	898.2	276.8	68.496	0.793	1662.5	
183	ANTA27	2	33.9	379.5	107.3	40.9	279.2	306.4	585.6	254.4	69.014	1.123	2370.9	
184	VILCA120	6	46.1	367.7	141.4	90.4	663.5	211.0	874.5	453.4	69.154	1.397	3206.5	
185	TAMBO30	1	31.5	359.7	94.5	84.1	522.1	229.4	751.5	231.1	69.478	0.893	2445.5	TAMBO10
186	SANTA80	5	62.7	215.8	112.9	37.0	229.5	479.2	708.7	278.1	69.541	1.063	2463.2	
187	SAMA40	1	30.0	107.9	27.0	27.0	236.5	0.0	236.5	68.8	70.356	0.866	2548.1	LOCUM10
188	PISCU30	1	12.0	539.6	54.0	4.0	24.9	214.4	239.3	79.3	70.469	0.793	1468.5	
189	OYU10	2	5.7	1879.0	89.3	52.4	247.5	89.6	337.1	175.8	70.540	1.102	1968.6	
190	SAMA50	1	33.2	60.9	16.9	14.7	147.8	0.0	147.8	30.5	70.615	0.464	1804.7	LOCUM10
191	MALA20	1	16.0	539.6	72.0	5.3	33.2	285.9	319.1	106.7	71.075	0.800	1481.9	
192	CHOTA10	1	17.2	108.0	15.5	7.6	76.6	31.7	108.3	57.1	72.457	1.476	3683.9	
193	LOCUM10	1	32.5	1355.9	367.5	367.4	3218.7	0.0	3218.7	1357.6	73.018	1.853	3694.1	
194	QUIRO20	2	20.4	257.6	43.8	29.1	198.3	78.6	276.9	148.4	73.293	1.455	3388.1	
195	CHON20	1	30.6	214										

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TABLA 6-22 3/3
 FECHA : 27/4/79

LISTADO DE LOS PROYECTOS HIDROELECTRICOS
 ORDENADO EN FORMA ASCENDENTE POR : FFC CON 24.00 \$/MWH \$ FFC \$= 500.00 \$/MWH

RANK	PROYECTO	ALT.	QM (M**3/S)	HN (M)	PI (MW)	PG (MW)	FP (GWH)	FS (GWH)	FT (GWH)	INV (10**6 \$)	FFC (\$/MWH)	FFC1 (-)	KFSP (\$/KW)	PROYECTOS CONDICIONANTES
221	PUGH10	1	15.4	223.7	28.7	9.6	64.5	89.8	154.3	85.0	91.111	1.416	2961.7	
222	SANTA20	1	13.1	303.7	35.3	19.7	137.4	86.4	223.8	161.0	92.133	1.753	4834.8	
223	CHAMA10	2	29.2	169.9	41.4	37.9	286.0	35.0	321.0	239.7	92.676	2.153	5789.9	
224	SANTA70	3	52.0	170.9	74.1	21.9	136.0	320.7	456.7	236.6	93.647	1.395	3193.0	
225	TAMBO110	1	56.5	107.5	50.6	26.4	268.6	110.1	378.7	167.9	94.144	1.235	3318.2	TAMBO10
226	SUNDO30	5	13.2	583.2	64.2	49.9	338.7	54.4	393.1	293.7	94.154	2.007	4574.8	
227	STUM30	1	25.7	300.2	64.4	32.0	223.0	145.3	368.3	238.0	94.427	1.698	3695.7	
228	PISCO50	1	16.9	539.6	76.1	0.0	0.0	342.8	342.8	140.5	96.131	0.987	1846.3	
229	CHUTA30	2	17.5	105.8	15.4	10.6	95.5	18.4	113.9	86.6	96.996	2.161	5623.4	
230	SUNDO20	8	6.8	458.7	26.0	16.3	109.2	45.5	154.7	109.8	97.568	1.889	4223.1	
231	ARMA20	1	9.4	1164.0	90.8	0.0	0.0	232.1	232.1	97.4	98.425	0.767	1072.7	
232	CHAMA40	7	51.6	89.9	38.7	6.1	37.9	213.2	251.1	127.4	103.409	1.388	3292.0	
233	VIZCA10	2	15.6	248.0	32.4	13.3	91.6	76.7	168.3	121.4	109.619	1.833	3746.9	
234	SANJUAN	1	20.0	171.5	28.6	10.1	73.2	74.9	148.1	104.7	111.008	1.793	3660.8	
235	ARMA30	2	9.4	1217.5	94.9	0.0	0.0	242.8	242.8	115.9	111.975	0.872	1221.3	
236	TAMBO80	2	54.3	179.9	81.5	45.4	281.9	276.0	557.9	356.0	114.596	1.775	4568.1	TAMBO10
237	APU10	1	11.8	171.0	16.8	16.8	133.8	1.8	135.6	133.0	115.805	2.857	7916.7	AGRICULTURA
238	HUAN20	1	23.4	129.4	25.2	15.1	107.6	72.0	179.6	143.1	116.857	2.242	5678.6	
239	VILCA70	1	26.4	344.2	75.9	22.6	155.2	251.1	406.3	283.6	118.482	1.792	3736.5	
240	CULCA30	1	32.1	128.8	34.5	23.1	166.8	84.6	251.4	221.8	121.050	2.500	6429.0	APU10
241	HUAN35	1	29.3	45.0	11.0	5.6	34.5	41.2	75.7	57.9	123.509	2.135	5263.6	
242	PISCO10	1	9.1	353.1	26.8	15.4	111.5	33.7	145.2	143.0	124.395	2.417	5335.8	
243	PARA20	1	7.2	765.8	46.3	0.0	0.0	133.7	133.7	71.0	124.603	1.012	1533.5	
244	MARCA40	1	32.4	156.9	42.4	16.7	167.4	115.1	282.5	248.6	129.631	2.428	5863.2	
245	CHICA10	4	7.0	527.9	30.8	21.0	139.3	39.5	178.8	178.2	131.387	2.630	5785.7	
246	JCUNA05	1	19.6	351.0	57.4	21.5	155.8	100.2	256.0	236.4	134.648	2.214	4118.5	
247	CHUTA20	2	6.3	236.3	12.4	7.9	55.2	23.3	78.5	78.9	138.564	2.730	6362.9	
248	TAMBO10	6	19.0	172.1	27.3	27.3	238.8	0.0	238.8	300.3	141.224	3.583	11000.0	
249	CULCA40	1	32.1	89.9	24.1	13.5	84.1	80.5	164.6	181.3	142.337	3.063	7522.8	APU10
250	CAJAI0	3	14.7	65.6	8.1	3.9	41.1	14.2	55.3	59.2	143.888	2.976	7308.6	
251	YAUCA20	2	7.4	699.5	43.2	14.7	70.9	82.4	153.3	148.1	154.000	1.985	3428.2	
252	MOCHF30	3	9.9	216.5	17.8	7.3	51.4	45.5	96.9	143.7	168.583	2.838	8073.0	
253	CUNDF10	1	7.5	306.4	19.2	10.3	69.3	56.5	129.8	176.7	212.603	3.859	9203.1	
254	LLAU10	2	8.4	332.9	23.2	22.5	152.0	22.5	174.5	345.4	248.176	5.657	14887.9	
255	YAUCA40	1	7.4	197.8	12.2	0.0	0.0	35.3	35.3	41.2	273.788	2.225	3377.0	
256	PARA10	1	3.5	1030.9	30.4	14.4	22.7	48.6	71.3	110.4	275.395	2.775	3631.6	
257	YAUCA10	2	5.4	507.3	22.8	7.8	38.6	35.1	73.7	182.7	372.865	4.828	8013.2	

PI = CORRRESPONDE A Q* = QM

POTENCIAL TECNICO 28788.6

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SALIDA DE RESULTADOS PARA EL CATALOGO

- TABLA 6.23

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KAL	IK	QM	ICF	QT	HN	PI	EP	ES	FP	FEC	PG	INVERSION	FEC1	CESP	KESP	DUR
(-)	(-)	(M/S)	(-)	(M/S)	(M)	(MW)	(GWH)	(GWH)	(-)	(\$/MWH)	(MW)	(10 \$)	(-)	(\$/MWH)	(\$/KW)	(AÑOS)
PROYECTO OLMOS10																
1	1	32.4	0.25	8.1	396.9	26.8	235.1	0.0	1.000	5.926	26.8	11.9	0.150	5.93	442.	2
1	2	32.4	0.50	16.2	396.9	53.7	439.8	29.8	0.999	5.393	53.7	20.9	0.132	5.22	389.	3
1	3	32.4	0.75	24.3	396.9	80.5	439.8	208.9	0.920	6.056	66.7	28.1	0.126	5.08	349.	3
1	4	32.4	1.00	32.4	396.9	107.4	439.8	309.5	0.797	7.047	66.7	35.7	0.133	5.59	333.	3
1	5	32.4	1.25	40.5	396.9	134.2	439.8	374.1	0.693	8.298	66.7	44.3	0.146	6.39	330.	4
1	6	32.4	1.50	48.6	396.9	161.0	439.8	416.5	0.607	9.158	66.7	50.6	0.151	6.93	314.	4
1	7	32.4	1.75	56.8	396.9	187.9	439.8	447.1	0.539	10.690	66.7	60.5	0.167	8.00	322.	4
1	8	32.4	2.00	64.9	396.9	214.7	439.8	466.8	0.482	11.589	89.0	66.5	0.161	8.61	310.	4
1	9	32.4	2.25	73.0	396.9	241.5	439.8	477.9	0.434	13.296	89.0	76.9	0.178	9.83	319.	5
1	10	32.4	2.50	81.1	396.9	268.4	439.8	484.4	0.393	15.334	89.0	89.2	0.197	11.32	332.	5
1	11	32.4	2.75	89.2	396.9	295.2	439.8	484.4	0.357	16.428	89.0	95.5	0.204	12.12	324.	5
1	12	32.4	3.00	97.3	396.9	322.1	439.8	484.4	0.328	17.897	89.0	104.1	0.214	13.21	323.	5
1	13	32.4	3.25	105.4	396.9	348.9	439.8	484.5	0.302	18.966	89.0	110.3	0.219	14.00	316.	5
1	14	32.4	3.50	113.5	396.9	375.7	439.8	484.5	0.281	20.757	266.9	120.7	0.237	15.32	321.	6
1	15	32.4	3.75	121.6	396.9	402.6	439.8	484.5	0.262	22.275	266.9	129.5	0.250	16.44	322.	6
PROYECTO ENE40																
2	1	1469.5	0.25	367.4	181.6	556.4	4873.5	0.0	1.000	14.541	487.0	604.2	0.369	14.54	1086.	7
2	2	1469.5	0.50	734.7	181.6	1112.9	9747.0	0.0	1.000	9.513	974.0	790.5	0.241	9.51	710.	7
2	3	1469.5	0.75	1102.1	181.8	1670.7	14633.1	0.0	1.000	7.878	1463.0	982.8	0.200	7.88	588.	7
2	4	1469.5	1.00	1469.5	181.7	2227.1	118650.8	61.6	0.959	7.512	1864.5	1196.4	0.188	7.50	537.	7
2	5	1469.5	1.25	1836.9	181.8	2785.1	118659.1	243.0	0.775	8.848	1865.8	1416.7	0.208	8.79	509.	7
2	6	1469.5	1.50	2204.2	181.8	3341.5	118655.3	364.4	0.650	10.383	1865.2	1667.5	0.230	10.28	499.	7
2	7	1469.5	1.75	2571.6	181.8	3899.6	118660.9	468.9	0.560	11.792	1866.1	1899.5	0.247	11.65	487.	7
2	8	1469.5	2.00	2939.0	181.8	4455.9	118657.7	561.3	0.492	13.498	2487.4	2179.3	0.251	13.30	489.	7
2	9	1469.5	2.25	3306.4	181.8	5014.0	118661.9	638.4	0.439	15.080	2488.4	2440.2	0.269	14.83	487.	7
2	10	1469.5	2.50	3673.7	181.8	5570.3	118659.1	717.0	0.397	17.015	2487.8	2758.6	0.292	16.70	495.	7
2	11	1469.5	2.75	4041.1	181.8	6128.4	118662.5	717.2	0.361	18.879	2488.5	3061.5	0.312	18.53	500.	7
2	12	1469.5	3.00	4408.5	181.8	6684.7	118660.2	717.1	0.331	21.290	2488.0	3452.0	0.340	20.90	516.	7
2	13	1469.5	3.25	4775.9	181.8	7242.9	118663.0	717.2	0.306	23.609	2488.6	3828.6	0.364	23.17	529.	7
2	14	1469.5	3.50	5143.3	181.8	7799.1	118660.0	717.1	0.284	26.877	7464.4	4358.0	0.408	26.38	559.	7
2	15	1469.5	3.75	5510.6	181.8	8357.3	118663.3	717.2	0.265	30.154	7466.0	4889.9	0.451	29.60	585.	7
PROYECTO MARA500																
3	1	893.7	0.25	223.4	158.1	294.7	2580.9	0.0	1.000	14.920	258.1	328.3	0.379	14.92	1114.	6
3	2	893.7	0.50	446.8	158.5	590.6	5173.0	0.0	1.000	10.189	518.1	449.4	0.259	10.19	761.	7
3	3	893.7	0.75	670.3	158.7	886.9	7767.8	0.0	1.000	8.006	778.4	530.2	0.203	8.01	598.	7
3	4	893.7	1.00	893.7	158.5	1181.3	8537.0	603.5	0.883	8.730	855.0	657.8	0.207	8.44	557.	7
3	5	893.7	1.25	1117.1	158.6	1477.5	8542.2	1004.1	0.738	10.181	855.8	785.0	0.225	9.65	531.	7
3	6	893.7	1.50	1340.5	158.7	1773.8	8546.2	1190.8	0.627	11.797	856.4	919.4	0.245	11.08	518.	7
3	7	893.7	1.75	1564.0	158.6	2068.1	8540.6	1320.4	0.544	13.667	855.5	1072.0	0.267	12.75	518.	7
3	8	893.7	2.00	1787.4	158.6	2364.4	8543.6	1431.7	0.482	15.464	1141.4	1220.7	0.269	14.35	516.	7
3	9	893.7	2.25	2010.8	158.7	2660.7	8546.2	1508.2	0.431	17.364	1141.9	1376.8	0.289	16.06	517.	7
3	10	893.7	2.50	2234.2	158.6	2954.9	8542.2	1577.9	0.391	19.471	1141.1	1549.0	0.312	17.95	524.	7
3	11	893.7	2.75	2457.7	158.6	3251.2	8544.3	1578.3	0.355	21.582	1141.5	1717.3	0.333	19.90	528.	7
3	12	893.7	3.00	2681.1	158.7	3547.6	8546.2	1578.6	0.326	23.764	1141.9	1891.3	0.354	21.91	535.	7
3	13	893.7	3.25	2904.5	158.6	3841.8	8543.1	1578.1	0.301	26.192	1141.3	2083.8	0.377	24.15	542.	7
3	14	893.7	3.50	3127.9	158.6	4138.1	8544.7	1578.4	0.279	28.540	3424.8	2271.1	0.406	26.32	549.	7
3	15	893.7	3.75	3351.4	158.7	4434.5	8546.2	1578.7	0.261	30.980	3425.8	2465.6	0.434	28.56	556.	7
PROYECTO MARA570																
5	1	2177.0	0.25	544.2	110.7	502.3	4399.5	0.0	1.000	11.940	439.9	447.8	0.303	11.94	892.	7
5	2	2177.0	0.50	1088.5	110.7	1004.6	8799.0	0.0	1.000	9.093	879.9	682.1	0.231	9.09	679.	7
5	3	2177.0	0.75	1632.7	110.7	1506.9	13198.4	0.0	1.000	8.706	1319.8	979.6	0.221	8.71	650.	7
5	4	2177.0	1.00	2177.0	110.7	2009.3	16733.2	62.3	0.954	9.147	1673.3	1307.3	0.229	9.13	651.	7
5	5	2177.0	1.25	2721.2	110.7	2513.5	16746.0	245.8	0.772	11.513	1675.3	1655.7	0.270	11.43	659.	7
5	6	2177.0	1.50	3265.5	110.7	3015.8	16743.7	368.6	0.648	14.151	1675.0	2042.3	0.313	14.00	677.	7
5	7	2177.0	1.75	3809.7	110.7	3518.1	16742.1	474.1	0.559	16.980	1674.7	2458.0	0.355	16.75	699.	7
5	8	2177.0	2.00	4354.0	110.7	4020.4	16741.0	567.5	0.492	20.017	2232.7	2905.2	0.371	19.69	723.	7
5	9	2177.0	2.25	4898.2	110.7	4522.7	16740.1	645.3	0.439	23.299	2232.5	3389.2	0.415	22.87	749.	7
5	10	2177.0	2.50	5442.5	110.7	5027.0	16746.0	725.2	0.397	26.806	2233.8	3909.9	0.459	26.25	778.	7
5	11	2177.0	2.75	5986.7	110.7	5529.3	16744.8	725.1	0.361	30.865	2233.5	4501.5	0.509	30.22	814.	7
5	12	2177.0	3.00	6531.0	110.7	6031.6	16743.7	725.1	0.331	35.520	2233.3	5180.0	0.566	34.78	859.	7
5	13	2177.0	3.25	7075.2	110.7	6533.9	16742.9	725.0	0.305	41.048	2233.1	5986.0	0.632	40.20	916.	7
5	14	2177.0	3.50	7619.5	110.8	7038.2	16747.0	725.2	0.283	47.817	6701.9	6974.8	0.725	46.82	991.	7
5	15	2177.0	3.75	8163.7	110.7	7540.5	16746.0	725.2	0.265	56.689	6701.3	8268.4	0.846	55.51	1097.	7
PROYECTO INA200																
4	1	857.0	0.25	214.2	189.2	338.1	2961.2	0.0	1.000	19.323	298.2	487.8	0.490	19.32	1443.	7
4	2	857.0	0.50	428.5	189.6	677.6	5934.6	0.0	1.000	11.656	598.3	589.8	0.296	11.66	870.	7
4	3	857.0	0.75	642.7	189.8	1017.4	8911.0	0.0	1.000	9.062	898.9	688.4	0.230	9.06	677.	7
4	4	857.0	1.00	857.0	189.6	1355.2	9877.6	653.2	0.887	9.275	995.8	806.8	0.221	8.99	595.	7
4	5	857.0	1.25	1071.2	189.7	1695.0	9883.3	1092.0	0.739	10.339	996.7	919.2	0.229	9.82	542.	7
4	6	857.0	1.50	1285.5	189.8	2034.9	9887.7	1297.1	0.628	11.539	997.4	1036.5	0.240	10.87	509.	7
4	7	857.0	1.75	1499.7	189.7	2372.5	9881.6	1443.8	0.545	12.928	996.4	1168.6	0.254	12.10	495.	7
4	8	857.0	2.00	1714.0	189.7	2712.4	9884.9	1572.8	0.482	14.348	1329.3	1305.3	0.250	13.36	481.	7
4	9	857.0	2.25	1928.2	189.8	3052.3	9887.7	1659.7	0.432	15.717	1329.9	1436.1	0.263	14.59	470.	7
4	10	857.0	2.50	2142.5	189.7	3389.9	9883.3	1739.4	0.391	17.261	1328.9	1582.3	0.278	15.97	467.	7
4	11	857.0	2.75	2356.7	189.8	3729.8	9885.6	1739.8	0.356	18.855	1329.4	1728.9	0.292	17.44	464.	7
4	12	857.0	3.00	2571.0	189.8	4069.7	9887.7	1740.2	0.326	20.420	1329.9	1872.8	0.306	18.89		

KAL	IK	QM	ICF	QT	HN	PI	EP	ES	FP	FEC	PG	INVERSION	FEC1	CESP	KESP	DUR
(-)	(-)	(M/S)	(-)	(M/S)	(M)	(MM)	(GWH)	(GWH)	(-)	(\$/MWH)	(MW)	(10 \$)	(-)	(\$/MWH)	(\$/KW)	(AÑOS)
PROYECTO HUJAL170																
6	1	765.0	0.25	191.2	131.4	209.6	1835.5	0.0	1.000	24.091	183.2	377.0	0.611	24.09	1799.	7
6	2	765.0	0.50	382.5	131.7	420.3	3681.0	0.0	1.000	14.284	368.1	448.2	0.362	14.28	1067.	7
6	3	765.0	0.75	573.7	131.9	631.3	5528.9	0.0	1.000	11.052	553.3	521.0	0.280	11.05	825.	7
6	4	765.0	1.00	765.0	131.7	840.6	6996.9	26.3	0.954	9.855	699.7	589.0	0.247	9.84	701.	7
6	5	765.0	1.25	956.2	131.8	1051.5	7002.2	103.8	0.772	10.991	700.5	661.0	0.258	10.91	629.	7
6	6	765.0	1.50	1147.5	131.9	1262.5	7006.4	155.7	0.648	12.300	701.2	742.9	0.272	12.17	588.	7
6	7	765.0	1.75	1338.7	132.0	1473.7	7009.7	200.4	0.559	13.535	701.7	820.4	0.283	13.35	557.	7
6	8	765.0	2.00	1530.0	131.9	1682.8	7003.7	239.7	0.491	15.191	934.4	922.5	0.281	14.94	548.	7
6	9	765.0	2.25	1721.2	131.9	1893.8	7006.4	272.7	0.439	16.436	934.9	1000.8	0.292	16.13	528.	7
6	10	765.0	2.50	1912.5	132.0	2104.9	7008.6	306.5	0.397	17.983	935.4	1098.0	0.308	17.61	522.	7
6	11	765.0	2.75	2103.7	131.9	2314.0	7004.4	306.3	0.361	19.810	934.5	1208.8	0.327	19.39	522.	7
6	12	765.0	3.00	2295.0	131.9	2525.1	7006.4	306.4	0.331	21.173	934.9	1292.3	0.337	20.73	512.	7
6	13	765.0	3.25	2486.2	132.0	2736.2	7008.1	306.4	0.305	22.906	935.3	1398.5	0.353	22.43	511.	7
6	14	765.0	3.50	2677.5	132.0	2947.3	7009.7	306.5	0.283	24.350	2806.9	1487.0	0.369	23.84	505.	7
6	15	765.0	3.75	2868.7	131.9	3156.4	7006.4	306.4	0.265	26.359	2804.8	1608.9	0.393	25.81	510.	7
PROYECTO URUB320																
5	1	624.2	0.25	156.0	180.0	234.3	2052.2	0.0	1.000	22.968	205.8	401.8	0.583	22.97	1715.	7
5	2	624.2	0.50	312.1	180.5	469.7	4114.1	0.0	1.000	13.369	413.2	468.9	0.339	13.37	998.	7
5	3	624.2	0.75	468.1	180.7	705.4	6178.3	0.0	1.000	10.210	620.9	537.8	0.259	10.21	762.	7
5	4	624.2	1.00	624.2	180.8	941.2	6727.5	515.9	0.879	10.055	676.4	598.8	0.238	9.70	636.	7
5	5	624.2	1.25	780.2	180.6	1175.1	6719.1	852.2	0.736	11.264	675.1	686.1	0.247	10.63	584.	7
5	6	624.2	1.50	936.3	180.7	1410.8	6722.5	1008.8	0.626	12.342	675.6	760.4	0.255	11.54	539.	7
5	7	624.2	1.75	1092.3	180.7	1646.6	6725.2	1114.8	0.544	13.662	676.1	848.2	0.266	12.69	515.	7
5	8	624.2	2.00	1248.4	180.8	1882.5	6727.5	1202.2	0.481	14.746	901.9	921.3	0.255	13.63	489.	7
5	9	624.2	2.25	1404.4	180.7	2116.2	6722.5	1262.6	0.431	16.378	900.8	1026.8	0.272	15.08	485.	7
5	10	624.2	2.50	1560.5	180.7	2352.0	6724.3	1319.3	0.390	17.560	901.2	1105.4	0.280	16.12	470.	7
5	11	624.2	2.75	1716.5	180.8	2587.9	6726.0	1319.7	0.355	19.108	901.6	1203.2	0.294	17.54	465.	7
5	12	624.2	3.00	1872.6	180.8	2823.7	6727.5	1319.9	0.325	20.408	901.9	1285.3	0.303	18.73	455.	7
5	13	624.2	3.25	2028.6	180.8	3059.6	6728.8	1320.2	0.300	22.028	902.2	1387.6	0.316	20.22	454.	7
5	14	624.2	3.50	2184.7	180.7	3293.2	6725.2	1319.5	0.279	23.606	2704.3	1486.2	0.334	21.67	451.	7
5	15	624.2	3.75	2340.7	180.8	3529.1	6726.4	1319.8	0.260	25.333	2705.1	1595.2	0.353	23.26	452.	7
PROYECTO JEQUE70																
1	1	33.5	0.25	8.4	105.5	7.4	64.5	0.0	1.000	11.168	6.7	6.1	0.283	11.17	834.	2
1	2	33.5	0.50	16.7	104.6	14.6	121.1	4.7	0.983	8.510	12.6	9.0	0.211	8.35	613.	2
1	3	33.5	0.75	25.1	104.9	22.0	121.5	28.8	0.780	10.318	12.6	12.0	0.221	9.33	544.	2
1	4	33.5	1.00	33.5	105.1	29.4	121.7	43.1	0.641	11.826	12.7	14.4	0.229	10.28	492.	2
1	5	33.5	1.25	41.9	105.3	36.8	121.9	55.0	0.549	12.938	12.7	16.5	0.230	10.93	448.	2
1	6	33.5	1.50	50.2	105.4	44.2	122.0	65.3	0.484	14.213	16.9	18.7	0.220	11.74	424.	2
1	7	33.5	1.75	58.6	105.5	51.6	122.1	74.6	0.435	17.121	17.0	23.3	0.251	13.88	451.	3
1	8	33.5	2.00	67.0	105.6	59.0	122.2	82.9	0.397	18.496	17.0	25.8	0.258	14.76	438.	3
1	9	33.5	2.25	75.4	105.6	66.4	122.3	90.2	0.365	19.415	17.0	27.7	0.259	15.29	417.	3
1	10	33.5	2.50	83.7	105.7	73.8	122.4	96.7	0.339	20.786	17.0	30.3	0.266	16.20	410.	3
1	11	33.5	2.75	92.1	105.7	81.2	122.4	96.8	0.308	22.082	17.0	32.2	0.272	17.21	396.	3
1	12	33.5	3.00	100.5	105.8	88.7	122.5	96.9	0.282	23.314	51.1	34.0	0.281	18.17	383.	3
1	13	33.5	3.25	108.9	105.8	96.1	122.5	97.0	0.261	25.010	51.2	36.5	0.296	19.49	379.	3
1	14	33.5	3.50	117.2	105.9	103.5	122.6	97.0	0.242	26.204	51.2	38.2	0.305	20.41	369.	3
1	15	33.5	3.75	125.6	105.9	111.0	122.6	97.1	0.226	27.883	51.2	40.7	0.319	21.72	367.	3
PROYECTO MARA440																
3	1	428.8	0.25	107.2	175.1	156.6	1371.4	0.0	1.000	25.649	136.5	299.9	0.651	25.65	1915.	7
3	2	428.8	0.50	214.4	175.6	314.0	2750.2	0.0	1.000	14.712	274.1	344.9	0.373	14.71	1099.	7
3	3	428.8	0.75	321.6	175.8	471.6	3977.2	67.5	0.979	11.441	396.7	391.2	0.286	11.35	830.	7
3	4	428.8	1.00	428.8	176.0	629.4	3980.5	553.4	0.823	12.071	397.3	438.1	0.273	11.33	696.	7
3	5	428.8	1.25	536.0	176.1	787.2	3982.9	863.2	0.703	12.771	397.7	480.6	0.267	11.63	611.	7
3	6	428.8	1.50	643.2	176.2	945.1	3984.8	1031.6	0.606	13.761	398.0	528.0	0.269	12.35	559.	7
3	7	428.8	1.75	750.4	175.9	1101.0	3979.0	1141.3	0.531	15.133	397.0	587.0	0.279	13.45	533.	7
3	8	428.8	2.00	857.6	176.0	1258.7	3980.5	1220.3	0.472	16.300	529.7	637.9	0.267	14.39	507.	7
3	9	428.8	2.25	964.8	176.0	1416.5	3981.1	1282.3	0.424	17.454	530.0	687.9	0.275	15.33	486.	7
3	10	428.8	2.50	1072.0	176.1	1574.4	3982.9	1333.3	0.386	18.686	530.2	740.7	0.283	16.34	470.	7
3	11	428.8	2.75	1179.2	176.1	1732.2	3983.9	1333.6	0.350	19.606	530.4	777.4	0.286	17.15	449.	7
3	12	428.8	3.00	1286.4	176.2	1890.1	3984.8	1333.9	0.321	20.958	530.6	831.1	0.295	18.33	440.	7
3	13	428.8	3.25	1393.6	176.0	2045.9	3981.4	1332.8	0.297	22.643	589.7	897.2	0.309	19.80	439.	7
3	14	428.8	3.50	1500.8	176.1	2203.7	3982.2	1333.1	0.275	24.016	590.2	951.8	0.323	21.00	432.	7
3	15	428.8	3.75	1608.0	176.1	2361.5	3982.9	1333.4	0.257	25.445	590.7	1008.6	0.337	22.25	427.	7
PROYECTO CHAL010																
8	1	17.1	0.25	4.3	1148.5	40.9	358.6	0.0	1.000	25.583	40.9	78.2	0.649	25.58	1910.	5
8	2	17.1	0.50	8.6	1061.4	75.7	662.9	0.0	1.000	17.362	75.7	98.1	0.441	17.36	1296.	5
8	3	17.1	0.75	12.8	1061.4	113.5	994.3	0.0	1.000	14.404	113.5	122.1	0.365	14.40	1076.	6
8	4	17.1	1.00	17.1	1061.4	151.4	1325.3	0.0	1.000	12.345	151.3	139.5	0.313	12.34	921.	6
8	5	17.1	1.25	21.4	1061.4	189.2	1325.3	0.2	0.800	13.992	189.2	158.1	0.334	13.99	836.	6
8	6	17.1														

SALIDA DE RESULTADOS PARA EL CATALOGO TABLA 6.23 - CONTINUACION . . . 3/15

KAL	IK	QM	ICF	QT	HN	PI	EP	ES	FP	FEC	PG	INVERSION	FEC1	CESP	KESP	DUR
(-)	(-)	(M/S)	(-)	(M/S)	(M)	(MW)	(GWH)	(GWH)	(-)	(\$/MWH)	(MW)	(10 \$)	(-)	(\$/MWH)	(\$/KW)	(AÑOS)
PROYECTO CRISIS0																
3	1	31.8	0.25	8.0	755.0	50.1	438.4	0.0	1.000	20.154	50.0	75.3	0.511	20.15	1505.	4
3	2	31.8	0.50	15.9	755.0	100.1	876.8	0.0	1.000	14.029	100.1	104.9	0.356	14.03	1048.	4
3	3	31.8	0.75	23.8	755.0	150.2	1315.3	0.0	1.000	12.352	150.1	138.5	0.313	12.35	922.	5
3	4	31.8	1.00	31.8	755.0	200.2	1549.1	50.9	0.912	12.794	200.2	171.7	0.312	12.59	858.	5
3	5	31.8	1.25	39.7	755.0	250.3	1549.1	112.4	0.758	14.297	240.3	195.7	0.325	13.81	782.	5
3	6	31.8	1.50	47.7	755.0	300.3	1549.1	143.7	0.644	15.906	240.3	219.8	0.339	15.23	732.	5
3	7	31.8	1.75	55.6	755.0	350.4	1549.1	164.7	0.558	18.365	240.3	255.4	0.370	17.48	729.	6
3	8	31.8	2.00	63.6	755.0	400.5	1549.1	178.5	0.493	20.125	320.4	281.1	0.360	19.08	702.	6
3	9	31.8	2.25	71.6	755.0	450.5	1549.1	187.2	0.440	21.727	320.4	304.3	0.373	20.56	675.	6
3	10	31.8	2.50	79.5	755.0	500.6	1549.1	193.3	0.397	23.976	320.4	336.4	0.396	22.65	672.	7
3	11	31.8	2.75	87.4	755.0	550.6	1549.1	193.3	0.361	25.984	320.4	364.6	0.414	24.54	662.	7
3	12	31.8	3.00	95.4	755.0	600.7	1549.1	193.3	0.331	27.670	320.4	388.2	0.425	26.13	646.	7
3	13	31.8	3.25	103.3	755.0	650.7	1549.1	193.3	0.306	29.360	320.4	411.9	0.436	27.73	633.	7
3	14	31.8	3.50	111.3	755.0	700.8	1549.1	193.3	0.284	30.788	700.7	432.0	0.450	29.08	616.	7
3	15	31.8	3.75	119.2	755.0	750.9	1549.1	193.4	0.265	32.507	750.7	456.1	0.468	30.70	607.	7
PROYECTO HJAL190																
2	1	1630.0	0.25	407.5	62.0	210.6	1844.3	0.0	1.000	18.002	182.1	283.1	0.457	18.00	1344.	5
2	2	1630.0	0.50	815.0	62.0	421.2	3688.7	0.0	1.000	12.338	364.2	388.0	0.313	12.34	921.	6
2	3	1630.0	0.75	1222.5	62.1	632.9	5213.4	145.2	0.967	11.142	515.4	502.1	0.276	10.99	793.	7
2	4	1630.0	1.00	1630.0	62.0	843.5	5210.7	782.6	0.811	13.256	514.9	633.1	0.297	12.39	751.	7
2	5	1630.0	1.25	2037.5	62.1	1055.4	5215.7	1207.2	0.695	15.173	515.7	752.7	0.314	13.75	713.	7
2	6	1630.0	1.50	2445.0	62.1	1265.9	5215.4	1448.8	0.601	17.556	515.4	888.7	0.340	15.65	702.	7
2	7	1630.0	1.75	2852.5	62.1	1476.4	5211.8	1609.3	0.528	20.018	515.1	1026.7	0.366	17.66	695.	7
2	8	1630.0	2.00	3260.0	62.1	1688.3	5214.8	1728.8	0.470	22.796	687.5	1131.5	0.370	19.96	700.	7
2	9	1630.0	2.25	3667.5	62.1	1898.8	5213.4	1818.3	0.423	25.506	687.2	1331.3	0.397	22.21	701.	7
2	10	1630.0	2.50	4075.0	62.1	2110.7	5215.7	1895.0	0.385	28.117	687.7	1477.4	0.421	24.37	700.	7
2	11	1630.0	2.75	4482.5	62.1	2321.2	5214.4	1894.6	0.350	31.167	687.4	1637.2	0.450	27.01	705.	7
2	12	1630.0	3.00	4890.0	62.1	2531.7	5213.4	1894.2	0.321	34.750	687.2	1825.1	0.484	30.12	721.	7
2	13	1630.0	3.25	5297.5	62.1	2743.6	5215.2	1894.8	0.296	37.881	2062.6	1990.2	0.513	32.83	725.	7
2	14	1630.0	3.50	5705.0	62.1	2954.1	5214.2	1894.5	0.275	41.256	2062.0	2167.1	0.550	35.76	734.	7
2	15	1630.0	3.75	6112.5	62.1	3166.1	5215.7	1895.1	0.256	44.632	2063.0	2345.1	0.586	38.68	741.	7
PROYECTO HJAL90																
9	1	149.5	0.25	37.4	626.3	195.2	1709.7	0.0	1.000	21.164	195.2	308.5	0.537	21.16	1580.	6
9	2	149.5	0.50	74.7	635.3	396.1	3469.1	0.0	1.000	13.279	396.0	392.7	0.337	13.28	991.	6
9	3	149.5	0.75	112.1	639.9	598.4	3969.4	996.5	0.948	12.262	581.7	467.0	0.276	11.03	781.	6
9	4	149.5	1.00	149.5	642.8	801.4	3987.3	1669.4	0.806	13.352	584.6	548.9	0.272	11.38	685.	7
9	5	149.5	1.25	186.9	644.8	1005.0	4000.3	2091.4	0.692	14.445	586.7	621.4	0.273	11.97	618.	7
9	6	149.5	1.50	224.2	646.5	1209.0	4010.2	2336.7	0.599	15.606	588.3	689.0	0.277	12.73	570.	7
9	7	149.5	1.75	261.6	647.7	1413.3	4018.2	2494.0	0.526	16.992	589.6	762.7	0.284	13.74	540.	7
9	8	149.5	2.00	299.0	648.8	1617.9	4024.9	2614.2	0.469	18.238	787.6	829.0	0.272	14.65	512.	7
9	9	149.5	2.25	336.4	649.7	1822.7	4030.6	2699.7	0.422	19.508	788.8	894.8	0.279	15.60	491.	7
9	10	149.5	2.50	373.7	650.5	2027.7	4035.4	2773.7	0.383	20.951	789.8	968.5	0.288	16.68	478.	7
9	11	149.5	2.75	411.1	651.2	2232.9	4039.8	2776.7	0.349	22.349	790.7	1034.2	0.296	17.80	463.	7
9	12	149.5	3.00	448.5	651.8	2438.2	4043.6	2779.4	0.320	23.745	791.6	1099.9	0.303	18.91	451.	7
9	13	149.5	3.25	485.9	652.4	2643.6	4047.0	2781.8	0.295	25.396	2376.9	1177.3	0.316	20.22	445.	7
9	14	149.5	3.50	523.2	652.9	2849.1	4050.1	2784.0	0.274	26.754	2378.9	1241.3	0.327	21.30	436.	7
9	15	149.5	3.75	560.6	653.3	3054.8	4052.9	2786.0	0.256	28.166	2380.8	1307.7	0.339	22.43	428.	7
PROYECTO PISCO60																
1	1	30.2	0.25	7.5	955.6	60.1	417.1	109.2	1.000	22.570	60.1	90.8	0.513	20.23	1511.	4
1	2	30.2	0.50	15.1	918.0	115.5	684.6	295.4	0.969	16.811	110.3	119.3	0.359	14.28	1033.	4
1	3	30.2	0.75	22.6	927.2	174.9	978.1	465.7	0.942	15.722	157.6	162.3	0.330	13.19	928.	5
1	4	30.2	1.00	30.2	933.1	234.7	1237.5	608.1	0.898	14.714	199.4	193.4	0.303	12.29	824.	5
1	5	30.2	1.25	37.7	937.3	294.7	1244.7	655.3	0.736	16.565	200.6	222.0	0.319	13.71	753.	5
1	6	30.2	1.50	45.2	940.6	354.9	1249.7	662.3	0.615	19.679	201.4	265.2	0.357	16.27	747.	6
1	7	30.2	1.75	52.8	943.2	415.2	1253.8	668.0	0.528	21.447	202.1	290.3	0.367	17.72	699.	6
1	8	30.2	2.00	60.3	945.4	475.6	1257.1	672.7	0.463	23.130	270.1	314.2	0.353	19.10	661.	6
1	9	30.2	2.25	67.9	947.3	536.1	1259.9	676.5	0.412	26.223	270.7	357.3	0.384	21.64	666.	7
1	10	30.2	2.50	75.4	948.9	596.7	1262.2	679.4	0.372	28.345	271.2	387.1	0.399	23.39	649.	7
1	11	30.2	2.75	82.9	950.3	657.3	1264.1	681.2	0.338	30.314	271.6	414.7	0.410	25.01	631.	7
1	12	30.2	3.00	90.5	951.5	718.0	1265.7	682.9	0.310	31.973	272.0	438.1	0.417	26.37	610.	7
1	13	30.2	3.25	98.0	952.7	778.8	1267.2	684.5	0.286	33.886	778.6	465.0	0.433	27.94	597.	7
1	14	30.2	3.50	105.6	953.7	839.6	1268.6	686.0	0.266	35.747	817.8	491.1	0.450	29.47	585.	7
1	15	30.2	3.75	113.1	954.6	900.4	1269.8	687.5	0.248	37.310	818.6	513.2	0.462	30.76	570.	7
PROYECTO HJABA40																
3	1	440.0	0.25	110.0	95.9	88.0	770.5	0.0	1.000	22.988	76.3	151.0	0.583	22.99	1716.	5
3	2	440.0	0.50	220.0	96.2	176.6	1546.3	0.0	1.000	13.901	153.4	183.2	0.353	13.90	1038.	5
3	3	440.0	0.75	330.0	96.4	265.3	1560.8	583.2	0.923	13.755	155.0	217.2	0.295	11.88	919.	5
3	4	440.0	1.00	440.0	96.5	354.1	1562.4	864.9	0.783	14.499	155.2	246.6	0.283	11.92	696.	5
3	5	440.0	1.25	550.0	96.6	442.9	1563.6	1055.0	0.675	15.531	155.4	276.9	0.281	12.40	625.	6
3	6	440.0	1.50	660.0	96.6											

KAL	IK	QM	ICF	QT	HN	PI	EP	ES	FP	FEC	PG	INVERSION	FEC1	CESP	KESP	DUR
(-)	(-)	(M/S)	(-)	(M/S)	(M)	(MM)	(GWH)	(GWH)	(-)	(\$/MWH)	(MW)	(10 \$)	(-)	(\$/MWH)	(\$/KW)	(AÑOS)
PROYECTO MARA400																
3	1	645.9	0.25	161.5	105.3	141.8	1242.0	0.0	1.000	20.270	124.1	214.6	0.514	20.27	1514.	6
3	2	645.9	0.50	322.9	105.6	284.3	1818.5	646.9	0.990	14.252	182.0	260.3	0.313	12.38	915.	6
3	3	645.9	0.75	484.4	105.7	427.0	1820.7	1367.5	0.853	13.797	182.4	294.6	0.264	10.84	690.	6
3	4	645.9	1.00	645.9	105.8	569.7	1822.0	1831.1	0.732	14.532	182.6	339.2	0.253	10.89	595.	6
3	5	645.9	1.25	807.4	105.6	711.2	1819.7	2178.0	0.642	15.723	182.2	399.9	0.255	11.44	548.	7
3	6	645.9	1.50	968.8	105.7	853.9	1820.7	2434.5	0.569	17.322	182.4	448.6	0.264	12.37	525.	7
3	7	645.9	1.75	1130.3	105.7	996.6	1821.4	2635.8	0.511	18.759	182.5	502.1	0.270	13.21	504.	7
3	8	645.9	2.00	1291.8	105.8	1139.4	1822.0	2771.1	0.460	20.283	243.4	554.6	0.261	14.16	487.	7
3	9	645.9	2.25	1453.3	105.7	1280.9	1820.7	2857.3	0.417	22.159	243.1	613.8	0.274	15.39	479.	7
3	10	645.9	2.50	1614.7	105.7	1423.6	1821.2	2924.3	0.381	23.844	243.3	667.4	0.284	16.50	469.	7
3	11	645.9	2.75	1776.2	105.7	1566.3	1821.6	2925.0	0.346	26.024	243.4	728.6	0.298	18.01	465.	7
3	12	645.9	3.00	1937.7	105.6	1709.1	1822.0	2925.7	0.317	28.464	243.4	797.1	0.315	19.69	466.	7
3	13	645.9	3.25	2099.2	105.7	1850.5	1821.1	2924.1	0.293	30.562	729.7	855.4	0.330	21.15	462.	7
3	14	645.9	3.50	2260.6	105.7	1993.3	1821.4	2924.7	0.272	32.735	729.9	916.4	0.347	22.65	460.	7
3	15	645.9	3.75	2422.1	105.7	2136.0	1821.7	2925.2	0.254	34.907	730.1	977.4	0.365	24.15	458.	7
PROYECTO PISCO70																
1	1	30.2	0.25	7.5	368.0	23.1	160.6	42.0	1.000	31.756	23.1	49.2	0.722	28.46	2125.	3
1	2	30.2	0.50	15.1	359.7	45.2	268.2	128.0	1.000	24.982	43.2	70.8	0.531	20.95	1564.	4
1	3	30.2	0.75	22.6	359.7	67.9	379.5	194.9	0.966	21.235	61.2	86.3	0.443	17.63	1272.	4
1	4	30.2	1.00	30.2	359.7	90.5	477.1	244.2	0.910	19.959	76.9	102.0	0.411	16.58	1127.	4
1	5	30.2	1.25	37.7	359.7	113.1	477.7	258.1	0.743	23.118	77.0	119.6	0.445	19.06	1057.	5
1	6	30.2	1.50	45.2	359.7	135.7	477.9	259.9	0.621	25.326	77.0	131.3	0.459	20.86	967.	5
1	7	30.2	1.75	52.8	359.7	158.3	478.2	261.4	0.533	27.665	77.1	143.6	0.474	22.78	907.	5
1	8	30.2	2.00	60.3	360.7	181.5	479.6	263.3	0.467	30.111	103.1	156.9	0.459	24.78	865.	5
1	9	30.2	2.25	67.9	362.0	204.9	481.5	265.2	0.416	32.242	103.5	168.8	0.472	26.52	824.	5
1	10	30.2	2.50	75.4	363.2	228.4	483.1	266.7	0.375	34.065	103.8	179.0	0.479	28.01	784.	5
1	11	30.2	2.75	82.9	364.2	251.9	484.5	267.7	0.341	36.389	104.1	191.8	0.493	29.91	761.	5
1	12	30.2	3.00	90.5	365.1	275.5	485.7	268.6	0.313	40.024	104.4	211.5	0.523	32.90	768.	6
1	13	30.2	3.25	98.0	365.9	299.1	486.7	269.5	0.289	42.571	299.1	225.6	0.544	34.99	754.	6
1	14	30.2	3.50	105.6	366.6	322.8	487.7	270.3	0.268	44.399	314.4	235.8	0.558	36.48	730.	6
1	15	30.2	3.75	113.1	367.3	346.5	488.6	271.1	0.250	46.178	315.0	245.7	0.571	37.94	709.	6
PROYECTO TAM40																
4	1	2071.5	0.25	517.9	74.3	320.9	2810.7	0.0	1.000	13.363	276.2	320.2	0.339	13.36	998.	6
4	2	2071.5	0.50	1035.7	74.3	641.8	4336.2	1244.4	0.993	11.392	426.1	481.6	0.256	10.12	750.	7
4	3	2071.5	0.75	1553.6	74.3	962.7	4336.2	2944.6	0.863	13.230	426.1	655.1	0.258	10.55	681.	7
4	4	2071.5	1.00	2071.5	74.5	1286.5	4345.8	3978.0	0.739	15.269	427.6	824.7	0.271	11.62	641.	7
4	5	2071.5	1.25	2589.4	74.4	1607.3	4343.7	4738.6	0.645	17.808	427.3	1019.2	0.294	13.16	634.	7
4	6	2071.5	1.50	3107.2	74.4	1928.2	4342.4	5289.8	0.570	20.547	427.1	1223.9	0.318	14.90	635.	7
4	7	2071.5	1.75	3625.1	74.4	2249.1	4341.5	5727.7	0.511	23.773	426.9	1460.3	0.348	17.01	649.	7
4	8	2071.5	2.00	4143.0	74.5	2573.0	4345.8	6031.4	0.460	26.667	570.2	1673.6	0.349	18.92	650.	7
4	9	2071.5	2.25	4660.9	74.4	2893.8	4344.6	6229.2	0.417	30.080	569.9	1912.8	0.378	21.22	661.	7
4	10	2071.5	2.50	5178.8	74.4	3214.7	4343.7	6376.8	0.381	33.693	569.7	2163.6	0.407	23.67	673.	7
4	11	2071.5	2.75	5696.6	74.4	3535.5	4343.0	6375.8	0.346	37.851	569.5	2430.1	0.441	26.59	687.	7
4	12	2071.5	3.00	6214.5	74.5	3859.4	4345.8	6379.9	0.317	42.028	570.2	2700.1	0.472	29.53	700.	7
4	13	2071.5	3.25	6732.4	74.5	4180.3	4345.0	6378.7	0.293	47.019	1709.9	3020.2	0.515	33.04	722.	7
4	14	2071.5	3.50	7250.3	74.4	4501.1	4344.3	6377.7	0.272	52.925	1709.5	3399.9	0.570	37.18	755.	7
4	15	2071.5	3.75	7768.1	74.4	4822.0	4343.7	6376.9	0.254	58.980	1709.1	3787.3	0.626	41.44	785.	7
PROYECTO INA90																
2	1	323.4	0.25	80.8	148.1	99.9	874.9	0.0	1.000	26.748	86.8	199.5	0.679	26.75	1997.	6
2	2	323.4	0.50	161.7	148.7	200.5	1639.6	113.7	0.998	15.959	162.9	230.8	0.392	15.44	1151.	6
2	3	323.4	0.75	242.5	148.9	301.3	1642.4	745.8	0.905	15.057	163.4	258.7	0.314	12.71	859.	6
2	4	323.4	1.00	323.4	149.1	402.1	1644.3	1058.9	0.767	15.697	163.7	290.9	0.298	12.62	723.	6
2	5	323.4	1.25	404.2	149.2	503.1	1645.6	1278.2	0.664	16.225	163.9	316.0	0.285	12.68	628.	6
2	6	323.4	1.50	485.1	149.3	604.1	1646.6	1428.5	0.581	17.350	164.1	349.2	0.286	13.32	578.	6
2	7	323.4	1.75	565.9	149.4	705.1	1647.5	1539.2	0.516	18.975	164.2	391.0	0.296	14.39	555.	7
2	8	323.4	2.00	646.8	149.5	806.2	1648.1	1622.3	0.463	19.355	219.1	405.8	0.269	14.55	503.	7
2	9	323.4	2.25	727.6	149.2	905.2	1645.0	1675.7	0.419	21.226	218.4	449.3	0.283	15.87	496.	7
2	10	323.4	2.50	808.5	149.2	1006.2	1645.6	1717.0	0.382	22.255	218.5	475.1	0.285	16.57	472.	7
2	11	323.4	2.75	889.3	149.3	1107.2	1646.1	1717.6	0.347	23.958	218.7	511.6	0.296	17.84	462.	7
2	12	323.4	3.00	970.2	149.3	1208.2	1646.6	1718.1	0.318	25.764	218.8	550.4	0.307	19.19	456.	7
2	13	323.4	3.25	1051.0	149.4	1309.2	1647.1	1718.6	0.294	27.347	656.5	584.3	0.318	20.36	446.	7
2	14	323.4	3.50	1131.9	149.4	1410.2	1647.5	1719.0	0.273	28.670	656.8	612.8	0.328	21.35	435.	7
2	15	323.4	3.75	1212.7	149.4	1511.3	1647.8	1719.4	0.254	30.549	657.0	653.0	0.344	22.75	432.	7
PROYECTO APUR737																
3	1	544.8	0.25	136.2	198.4	225.3	1973.6	0.0	1.000	34.712	197.8	584.0	0.881	34.71	2592.	7
3	2	544.8	0.50	272.4	198.9	451.8	3956.8	0.0	1.000	19.200	397.2	647.7	0.487	19.20	1434.	7
3	3	544.8	0.75	408.6	199.1	678.5	4860.7	819.8	0.956	15.863	488.3	712.8	0.369	14.72	1051.	7
3	4	544.8	1.00	544.8	199.3	905.3	4864.5	1577.5	0.812	16.001	488.9	771.2	0.337	14.04	852.	7
3	5	544.8	1.25	681.0	199.4	1132.3	4867.2	2034.8	0.696	16.615	489.3	833.6	0.324	14.17	736.	7
3	6	544.8	1.50	817.2	199.1	1356.9	4860.7	2282.6	0.601	18.068	488.3	924.5	0.330	15.18	681.	7
3	7	544.8	1.75	953.4	199.2	1583.8	4862.8	2443.2	0.527	19.096	488.6	990.5	0.329	15.90	625.	7
3	8	544.8	2.00	1089.6	199.3	1810.7	4864.5	2567.1	0.469	20.205	651.8	1059.0	0.310	16.72	585.	7
3	9	544.8	2.25	1225.8	199.3	2037.6	4865.9	2661.6	0.422	21.680	652.1	1145.3	0.319	17.85	562.	7
3	10	544.8	2.50	1362.0	199.4	2264.6	4867.2	2740.0	0.384	22.891	652.4	1217.2	0.324	18.77	538.	7
3	11	544.8	2.75	1498.2	199.2	2489.1	4863.4	2737.9	0.349	24.849	651.6	1320.3	0.339	20.37	530.	7
3	12	544.8	3.00	1634.4	199.3	2716.0	4864.5	2738.5	0.320	26.273	651.8	1396.3	0.345	21.54	514.	7
3	13	544.8	3.25	1770.6	1											

SALIDA DE RESULTADOS PARA EL CATALOGO TABLA 6.23 - CONTINUACION . . . 5/15

KAL	IK	QM	ICF	QT	HN	PI	EP	ES	FP	FEC	PG	INVERSION	FEC1	CESP	KESP	DUR
(-)	(-)	(M/S)	(-)	(M/S)	(M)	(MM)	(GWH)	(GWH)	(-)	(\$/MMH)	(MM)	(10 \$)	(-)	(\$/MMH)	(\$/KW)	(AÑOS)
PROYECTO ALMAD10																
2	1	249.0	0.25	62.2	131.2	68.1	596.4	0.0	1.000	37.876	59.5	192.6	0.961	37.88	2828.	6
2	2	249.0	0.50	124.5	131.6	136.6	1196.5	0.0	1.000	20.955	119.5	213.8	0.532	20.95	1965.	6
2	3	249.0	0.75	186.7	131.8	205.2	1786.0	5.1	0.996	15.594	178.6	237.8	0.395	15.57	1159.	6
2	4	249.0	1.00	249.0	131.9	273.9	1787.7	222.6	0.838	16.049	178.9	259.8	0.367	15.16	949.	6
2	5	249.0	1.25	311.2	132.0	342.6	1788.9	353.4	0.714	16.958	179.1	284.2	0.359	15.56	829.	6
2	6	249.0	1.50	373.5	132.1	411.4	1789.9	419.1	0.613	17.808	179.2	303.6	0.353	16.12	738.	6
2	7	249.0	1.75	435.7	132.1	480.1	1790.6	462.4	0.536	18.809	179.4	324.2	0.352	16.88	675.	6
2	8	249.0	2.00	498.0	132.2	548.9	1791.3	491.0	0.475	20.196	239.3	350.7	0.336	18.02	639.	6
2	9	249.0	2.25	560.2	132.2	617.7	1791.8	514.7	0.426	21.969	239.4	383.8	0.350	19.52	621.	7
2	10	249.0	2.50	622.5	132.2	686.5	1792.3	533.3	0.387	22.491	239.5	394.8	0.345	19.91	575.	7
2	11	249.0	2.75	684.7	132.3	755.3	1792.7	533.5	0.352	23.452	239.6	411.8	0.346	20.76	545.	7
2	12	249.0	3.00	747.0	132.1	822.7	1789.9	532.6	0.322	25.566	239.0	448.2	0.364	22.63	545.	7
2	13	249.0	3.25	809.2	132.1	891.5	1790.3	532.8	0.298	26.533	717.2	465.2	0.367	23.49	522.	7
2	14	249.0	3.50	871.5	132.1	960.2	1790.6	532.9	0.276	28.318	717.5	496.6	0.386	25.07	517.	7
2	15	249.0	3.75	933.7	132.1	1029.0	1791.0	533.0	0.258	29.492	717.7	517.3	0.396	26.11	503.	7
PROYECTO MARA290																
3	1	262.0	0.25	65.5	129.5	70.7	619.6	0.0	1.000	27.836	62.1	147.0	0.706	27.84	2078.	5
3	2	262.0	0.50	131.0	129.9	141.9	1165.2	76.0	0.998	16.422	116.9	168.4	0.404	15.92	1187.	5
3	3	262.0	0.75	196.5	130.1	213.2	1166.9	524.9	0.906	15.650	117.2	190.7	0.327	13.22	894.	5
3	4	262.0	1.00	262.0	130.2	284.6	1168.1	746.6	0.768	16.092	117.4	211.5	0.306	12.95	743.	5
3	5	262.0	1.25	327.5	130.3	355.9	1168.9	901.5	0.664	17.035	117.5	235.2	0.300	13.33	661.	5
3	6	262.0	1.50	393.0	130.4	427.4	1169.5	1007.4	0.582	17.810	117.6	254.0	0.294	13.69	594.	5
3	7	262.0	1.75	458.5	130.4	498.8	1170.0	1085.2	0.516	19.513	117.7	284.9	0.304	14.82	571.	6
3	8	262.0	2.00	524.0	130.5	570.3	1170.4	1143.5	0.463	20.917	157.1	310.7	0.291	15.75	545.	6
3	9	262.0	2.25	589.5	130.5	641.8	1170.8	1183.6	0.419	21.383	157.1	321.3	0.285	16.01	501.	6
3	10	262.0	2.50	655.0	130.6	713.2	1171.1	1212.7	0.382	23.259	157.2	352.5	0.299	17.34	494.	7
3	11	262.0	2.75	720.5	130.4	783.3	1169.2	1210.8	0.347	25.126	156.8	380.1	0.311	18.74	485.	7
3	12	262.0	3.00	786.0	130.4	854.7	1169.5	1211.1	0.318	26.873	156.9	406.7	0.321	20.04	476.	7
3	13	262.0	3.25	851.5	130.4	926.2	1169.8	1211.4	0.294	28.175	470.8	426.5	0.328	21.01	460.	7
3	14	262.0	3.50	917.0	130.4	997.6	1170.0	1211.6	0.273	29.981	470.9	453.9	0.343	22.35	455.	7
3	15	262.0	3.75	982.5	130.5	1069.1	1170.2	1211.9	0.254	31.398	471.1	475.4	0.354	23.41	445.	7
PROYECTO MANZ70																
2	1	307.5	0.25	76.9	111.3	71.4	625.2	0.0	1.000	22.371	63.7	119.2	0.568	22.37	1670.	5
2	2	307.5	0.50	153.7	111.3	142.8	1011.5	206.3	0.974	15.103	103.0	143.5	0.348	13.82	1005.	5
2	3	307.5	0.75	230.6	111.3	214.1	1011.5	534.3	0.824	15.050	103.0	164.0	0.300	12.45	766.	5
2	4	307.5	1.00	307.5	111.3	285.5	1011.5	725.8	0.695	16.228	103.0	190.1	0.293	12.84	666.	5
2	5	307.5	1.25	384.4	111.3	356.9	1011.5	882.2	0.606	17.591	103.0	217.8	0.294	13.69	610.	6
2	6	307.5	1.50	461.2	111.3	428.3	1011.5	1009.7	0.539	18.573	103.0	240.1	0.291	13.93	561.	6
2	7	307.5	1.75	538.1	111.3	499.7	1011.5	1112.5	0.485	20.137	137.3	269.1	0.279	14.86	539.	6
2	8	307.5	2.00	615.0	111.3	571.0	1011.5	1199.5	0.442	21.193	137.3	291.1	0.281	15.44	510.	7
2	9	307.5	2.25	691.9	111.3	642.4	1011.5	1273.4	0.406	22.193	137.3	311.8	0.282	16.01	485.	7
2	10	307.5	2.50	768.8	111.3	713.8	1011.5	1334.4	0.375	23.280	137.3	333.2	0.285	16.66	467.	7
2	11	307.5	2.75	845.6	111.3	785.2	1011.5	1334.4	0.341	25.396	137.3	363.4	0.299	18.17	463.	7
2	12	307.5	3.00	922.5	111.3	856.6	1011.5	1334.4	0.313	26.903	137.3	385.0	0.306	19.25	449.	7
2	13	307.5	3.25	999.4	111.3	928.0	1011.5	1334.4	0.289	29.315	411.9	419.5	0.326	20.98	452.	7
2	14	307.5	3.50	1076.2	111.3	999.3	1011.5	1334.4	0.268	31.582	411.9	452.0	0.346	22.60	452.	7
2	15	307.5	3.75	1153.1	111.3	1070.7	1011.5	1334.5	0.250	33.222	411.9	475.5	0.358	23.77	444.	7
PROYECTO JORGE10																
1	1	31.8	0.25	8.0	332.7	22.1	102.8	90.5	1.000	42.426	16.6	53.5	0.824	32.49	2426.	4
1	2	31.8	0.50	15.9	332.7	44.1	160.5	210.5	0.960	33.372	25.9	75.6	0.600	23.90	1713.	4
1	3	31.8	0.75	23.8	332.7	66.2	218.2	310.6	0.912	29.077	35.2	92.6	0.509	20.54	1399.	4
1	4	31.8	1.00	31.8	332.7	88.2	274.9	376.6	0.843	28.436	44.3	112.3	0.490	20.22	1272.	5
1	5	31.8	1.25	39.7	332.7	110.3	274.9	412.8	0.712	30.823	44.3	126.5	0.497	21.57	1147.	5
1	6	31.8	1.50	47.7	332.7	132.4	274.9	439.4	0.616	32.869	44.3	138.6	0.500	22.76	1047.	5
1	7	31.8	1.75	55.6	332.7	154.4	275.0	459.7	0.543	35.713	44.3	153.7	0.514	24.54	995.	5
1	8	31.8	2.00	63.6	332.7	176.5	275.0	460.3	0.476	38.269	59.1	164.8	0.490	26.29	934.	5
1	9	31.8	2.25	71.6	332.7	198.6	275.0	460.4	0.423	41.052	59.1	176.8	0.505	28.20	890.	5
1	10	31.8	2.50	79.5	332.7	220.6	275.0	460.5	0.381	45.011	59.1	193.9	0.532	30.92	879.	6
1	11	31.8	2.75	87.4	332.7	242.7	275.0	460.6	0.346	47.947	59.1	206.5	0.546	32.93	851.	6
1	12	31.8	3.00	95.4	332.7	264.7	275.0	460.7	0.317	50.708	59.1	218.4	0.557	34.83	825.	6
1	13	31.8	3.25	103.3	333.3	287.3	275.5	461.6	0.293	52.984	177.6	228.7	0.567	36.39	796.	6
1	14	31.8	3.50	111.3	334.1	310.1	276.1	462.8	0.272	56.033	178.0	242.4	0.590	38.49	782.	6
1	15	31.8	3.75	119.2	334.8	333.0	276.7	463.8	0.254	58.740	178.4	254.7	0.609	40.34	765.	6
PROYECTO URUB88																
1	1	148.8	0.25	37.2	311.9	96.8	340.7	504.1	0.997	14.222	54.9	71.9	0.253	9.98	743.	3
1	2	148.8	0.50	74.4	317.1	196.7	346.4	1238.9	0.920	14.147	55.8	116.5	0.214	8.62	592.	4
1	3	148.8	0.75	111.6	319.6	297.5	349.2	1706.2	0.789	15.019	56.3	153.9	0.209	8.79	517.	4
1	4	148.8	1.00	148.8	321.3	398.7	351.0	2034.9	0.683	16.829	56.6	196.3	0.219	9.65	492.	5
1	5	148.8	1.25	186.0	322.5	500.2	352.3	2314.4	0.609	18.170	56.8	233.8	0.225	10.29	467.	5
1	6	148.8	1.50	223.2	323.4	602.0	353.3	2548.3	0.550	20.120	56.9	279.1	0.238	11.28	464.	6
1	7	148.8	1.75	260.4	324.1	703.9	354.1	2736.9	0.501	21.104	57.1	309.9	0.239	11.76	440.	6
1	8	148.8	2.00	297.6	324.7	806.0	354.7	2879.0	0.458	22.449	76.2	343.4	0.229	12.46	426.	6
1	9	148.8	2.25	334.8	325.3	908.2	355.3	2975.5	0.419	25.269	76.3	397.1	0.249	13.98	437.	7
1	10	148.8	2.50	372.0	325.7	1010.5	355.8	3038.8	0.384	26.762	76.5	427.8	0.255	14.78	423.	7
1	11	148.8	2.75	409.2	326.1	1112.9	356.2	3042.5	0.349	29.057	76.5	465.1	0.267	16.05	418.	7
1	12	148.8	3.00	446.4	326.4	1215.3	356.6	3045.8	0.320	30.912	76.6	495.3	0.274	17.08	408.	7
1	13	148.8	3.25	483.6	326.8	1317.9	357.0	3048.8	0.295	33.587	230.1	538.7	0.290	18.55	409.	7
1	14	148.8	3.50	520.8	327.											

SALIDA DE RESULTADOS PARA EL CATALOGO TABLA 6.23 - CONTINUACION . . . 6/15

KAL	IK	QM	ICF	QT	HN	PI	EP	ES	FP	FEC	PG	INVERSION	FEC1	CESP	KESP	DUR
(-)	(-)	(M/S)	(-)	(M/S)	(M)	(MM)	(GWH)	(GWH)	(-)	(\$/MWH)	(MWH)	(10 \$)	(-)	(\$/MWH)	(\$/KW)	(AÑOS)
PROYECTO MAN250																
1	1	282.5	0.25	70.6	183.8	108.2	948.0	0.0	1.000	26.541	94.6	214.5	0.673	26.54	1982.	6
1	2	282.5	0.50	141.2	184.1	216.9	1788.7	83.6	0.986	15.998	178.7	249.7	0.395	15.64	1151.	6
1	3	282.5	0.75	211.9	184.3	325.6	1790.4	561.7	0.825	15.882	178.9	280.4	0.337	13.99	861.	6
1	4	282.5	1.00	282.5	184.4	434.4	1791.5	848.1	0.694	16.901	179.1	319.2	0.324	14.19	735.	6
1	5	282.5	1.25	353.1	184.5	543.3	1792.3	1084.8	0.605	17.522	179.2	348.8	0.310	14.22	642.	6
1	6	282.5	1.50	423.8	184.5	652.2	1792.9	1287.3	0.539	19.240	179.3	399.7	0.321	15.22	613.	7
1	7	282.5	1.75	494.4	184.6	761.1	1793.4	1450.8	0.487	20.163	239.2	433.0	0.294	15.65	569.	7
1	8	282.5	2.00	565.0	184.6	870.0	1793.8	1576.0	0.442	21.093	239.3	464.3	0.294	16.16	534.	7
1	9	282.5	2.25	635.6	184.7	978.9	1794.1	1673.6	0.404	22.584	239.4	506.5	0.302	17.13	517.	7
1	10	282.5	2.50	706.3	184.5	1086.6	1792.3	1746.1	0.372	24.050	239.0	546.5	0.309	18.12	503.	7
1	11	282.5	2.75	776.9	184.5	1195.5	1792.6	1746.4	0.338	25.750	239.1	585.2	0.318	19.40	490.	7
1	12	282.5	3.00	847.5	184.5	1304.3	1792.9	1746.7	0.310	27.733	239.1	630.4	0.331	20.89	483.	7
1	13	282.5	3.25	918.1	184.6	1413.2	1793.2	1747.0	0.286	29.307	717.5	666.3	0.342	22.08	471.	7
1	14	282.5	3.50	988.7	184.6	1522.2	1793.4	1747.3	0.266	31.081	717.7	706.7	0.357	23.41	464.	7
1	15	282.5	3.75	1059.4	184.6	1631.1	1793.6	1747.5	0.248	33.143	717.8	753.7	0.375	24.96	462.	7
PROYECTO M010																
1	1	16.6	0.25	4.2	2189.0	75.8	663.6	0.0	1.000	19.448	75.8	110.0	0.493	19.45	1452.	4
1	2	16.6	0.50	8.3	2159.4	149.5	1250.8	49.4	0.993	13.766	149.5	149.7	0.342	13.50	1001.	5
1	3	16.6	0.75	12.5	2135.3	221.7	1236.8	385.1	0.835	15.076	199.0	183.7	0.321	13.29	829.	5
1	4	16.6	1.00	16.6	2140.5	296.3	1239.8	574.0	0.699	17.004	199.5	221.3	0.328	14.31	747.	6
1	5	16.6	1.25	20.7	2144.2	371.1	1242.0	695.0	0.596	19.514	199.8	264.4	0.347	16.01	713.	7
1	6	16.6	1.50	24.9	2147.0	445.9	1243.6	792.2	0.521	21.419	200.1	299.4	0.356	17.25	672.	7
1	7	16.6	1.75	29.1	2149.3	520.7	1245.0	873.5	0.465	23.023	267.1	330.1	0.338	18.28	634.	7
1	8	16.6	2.00	33.2	2151.2	595.6	1246.1	944.7	0.420	24.916	267.3	365.0	0.349	19.54	613.	7
1	9	16.6	2.25	37.4	2152.8	670.6	1247.0	1008.0	0.384	26.481	267.5	395.3	0.355	20.56	589.	7
1	10	16.6	2.50	41.5	2154.2	745.6	1247.8	1063.7	0.354	28.021	267.7	425.1	0.361	21.57	570.	7
1	11	16.6	2.75	45.7	2155.5	820.6	1248.5	1064.9	0.322	29.939	267.9	454.6	0.371	23.05	554.	7
1	12	16.6	3.00	49.8	2156.6	895.7	1249.2	1066.0	0.295	31.833	804.0	483.7	0.383	24.50	540.	7
1	13	16.6	3.25	54.0	2157.5	970.0	1249.7	1067.1	0.272	34.094	804.4	518.3	0.403	26.24	534.	7
1	14	16.6	3.50	58.1	2158.4	1045.9	1250.2	1068.1	0.253	35.968	804.7	547.1	0.418	27.68	523.	7
1	15	16.6	3.75	62.3	2159.2	1121.0	1250.7	1069.2	0.236	38.225	805.0	581.8	0.437	29.42	519.	7
PROYECTO MAN290																
1	1	337.9	0.25	84.5	149.2	105.1	920.6	0.0	1.000	30.563	91.7	239.9	0.775	30.56	2282.	6
1	2	337.9	0.50	168.9	149.7	211.0	1847.6	0.0	1.000	17.526	184.4	276.1	0.445	17.53	1309.	6
1	3	337.9	0.75	253.4	150.0	317.0	1941.3	560.6	0.901	16.385	194.0	310.3	0.359	14.55	979.	6
1	4	337.9	1.00	337.9	150.1	423.1	1943.4	796.0	0.739	17.367	194.3	346.7	0.346	14.84	819.	6
1	5	337.9	1.25	422.4	150.3	529.3	1945.0	981.3	0.631	18.236	194.5	378.6	0.336	15.18	715.	6
1	6	337.9	1.50	506.8	150.3	635.5	1946.1	1134.8	0.554	20.254	194.7	434.0	0.349	16.52	683.	7
1	7	337.9	1.75	591.3	150.4	741.8	1947.1	1264.2	0.494	20.703	259.8	455.2	0.314	16.63	614.	7
1	8	337.9	2.00	675.8	150.5	848.1	1947.9	1378.3	0.448	21.658	260.0	486.9	0.314	17.17	574.	7
1	9	337.9	2.25	760.3	150.2	952.4	1944.2	1475.3	0.410	23.517	259.2	537.7	0.326	18.44	565.	7
1	10	337.9	2.50	844.7	150.3	1058.6	1945.0	1555.5	0.378	24.867	259.4	577.2	0.332	19.34	545.	7
1	11	337.9	2.75	929.2	150.3	1164.8	1945.6	1556.0	0.343	26.819	259.5	622.7	0.345	20.86	535.	7
1	12	337.9	3.00	1013.7	150.3	1271.1	1946.1	1556.5	0.315	28.228	259.6	655.6	0.350	21.96	516.	7
1	13	337.9	3.25	1098.2	150.4	1377.3	1946.6	1556.9	0.290	30.257	779.2	702.9	0.366	23.53	510.	7
1	14	337.9	3.50	1182.6	150.4	1483.6	1947.1	1557.3	0.270	32.266	779.5	749.8	0.384	25.10	505.	7
1	15	337.9	3.75	1267.1	150.4	1589.9	1947.5	1557.7	0.252	34.104	779.8	792.7	0.400	26.53	499.	7
PROYECTO PAM240																
7	1	175.4	0.25	43.8	887.1	324.4	2841.5	0.0	1.000	33.745	324.4	817.5	0.856	33.75	2520.	7
7	2	175.4	0.50	87.7	890.5	651.3	5704.8	0.0	1.000	20.758	651.2	1009.6	0.527	20.76	1550.	7
7	3	175.4	0.75	131.5	901.6	989.2	8437.3	99.6	0.985	16.357	989.0	1183.5	0.411	16.26	1196.	7
7	4	175.4	1.00	175.4	908.7	1329.3	8503.7	1137.1	0.828	17.429	1254.3	1348.0	0.396	16.40	1014.	7
7	5	175.4	1.25	219.2	913.8	1671.0	8551.5	1793.4	0.707	18.785	1262.0	1513.1	0.394	17.16	906.	7
7	6	175.4	1.50	263.1	917.7	2013.8	8588.3	2145.7	0.609	20.245	1268.0	1667.5	0.398	18.22	828.	7
7	7	175.4	1.75	306.9	920.9	2357.5	8617.9	2381.7	0.533	21.738	1272.7	1817.8	0.403	19.38	771.	7
7	8	175.4	2.00	350.8	923.5	2702.0	8642.5	2546.8	0.473	23.260	1702.3	1966.3	0.383	20.61	728.	7
7	9	175.4	2.25	394.6	925.8	3047.1	8663.4	2679.6	0.425	24.784	1706.8	2113.6	0.392	21.86	694.	7
7	10	175.4	2.50	438.5	927.7	3392.7	8691.5	2788.1	0.386	26.317	1710.7	2260.5	0.400	23.12	666.	7
7	11	175.4	2.75	482.3	929.4	3738.8	8697.4	2793.3	0.351	28.127	1714.1	2420.5	0.412	24.71	647.	7
7	12	175.4	3.00	526.2	930.9	4085.3	8711.6	2797.9	0.322	29.810	1717.1	2569.5	0.421	26.19	629.	7
7	13	175.4	3.25	570.0	932.3	4432.2	8724.2	2802.0	0.297	31.511	4431.4	2720.1	0.433	27.68	614.	7
7	14	175.4	3.50	613.9	933.5	4779.4	8735.7	2805.8	0.276	33.240	4778.6	2873.0	0.449	29.20	601.	7
7	15	175.4	3.75	657.7	934.6	5127.0	8746.2	2809.2	0.257	35.238	5126.1	3049.5	0.469	30.96	595.	7
PROYECTO HUAL210																
2	1	2125.0	0.25	531.2	61.8	273.8	2398.0	0.0	1.000	11.222	242.6	229.4	0.285	11.22	838.	5
2	2	2125.0	0.50	1062.5	61.8	547.6	2419.0	2105.7	0.943	12.587	244.8	372.6	0.241	9.66	680.	7
2	3	2125.0	0.75	1593.7	61.8	821.4	2419.0	3409.5	0.810	14.923	244.8	524.6	0.253	10.56	639.	7
2	4	2125.0	1.00	2125.0	61.8	1095.2	2419.0	4385.6	0.709	17.498	244.8	688.0	0.275	11.86	628.	7
2	5	2125.0	1.25	2656.2	61.8	1369.7	2420.4	5148.3	0.631	20.177	245.0	859.1	0.295	13.31	627.	7
2	6	2125.0	1.50	3187.5	61.8	1643.5	2420.1	5712.5	0.565	23.199	244.9	1043.5	0.320	15.05	635.	7
2	7	2125.0	1.75	3718.7	61.8	1917.3	2420.0	6134.0	0.509	26.455	244.9	1237.5	0.347	16.97	645.	7
2	8	2125.0	2.00	4250.0	61.8	2191.1	2419.8	6403.1	0.460	30.057	326.5	1440.5	0.353	19.15	657.	7
2	9	2125.0	2.25	4781.2	61.8	2465.7	2420.5	6574.8	0.417	33.920	326.7	1650.6	0.383	21.52	669.	7
2	10	2125.0	2.50	5312.5	61.8	2739.4	2420.4	6702.0	0.380	38.114	326.6	1875.3	0.415	24.11	685.	7
2	11	2125.0	2.75	5843.7	61.8	3013.2	2420.2	6701.6	0.346	42.939	326.6	2112.6	0.450	27.17	701.	7
2	12	2125.0	3.00	6375.0	61.8	3287.0	2420.1	6701.4	0.317	48.056	326.6	2364.2	0.486	30.40	719.	7
2	13	2125.0	3.25	6906.2	61											

SALIDA DE RESULTADOS PARA EL CATALOGO TABLA 6.23 - CONTINUACION . . . 7/15

KAL	IK	QM	ICF	QT	HN	PI	EP	ES	FP	FEC	PG	INVERSION	FEC1	CESP	KESP	DUR
(-)	(-)	(M/S)	(-)	(M/S)	(M)	(MW)	(GWH)	(GWH)	(-)	(\$/MWH)	(MW)	(10 \$)	(-)	(\$/MWH)	(\$/KW)	(AÑOS)
PROYECTO VNOTA295																
14	1	131.0	0.25	32.7	778.0	212.5	1861.3	0.0	1.000	47.162	212.5	748.4	1.197	47.16	3521.	7
14	2	131.0	0.50	65.5	778.0	425.0	3722.5	0.0	1.000	27.812	424.9	882.6	0.706	27.81	2077.	7
14	3	131.0	0.75	98.2	778.0	637.5	5583.8	0.0	1.000	20.933	637.4	996.5	0.531	20.93	1563.	7
14	4	131.0	1.00	131.0	778.0	850.0	7278.5	29.0	0.982	17.660	849.9	1098.0	0.445	17.63	1292.	7
14	5	131.0	1.25	163.7	778.0	1062.6	7278.5	100.3	0.793	19.095	1062.4	1193.0	0.452	18.97	1123.	7
14	6	131.0	1.50	196.5	778.0	1275.1	7278.5	128.2	0.663	20.646	1072.0	1292.4	0.461	20.47	1014.	7
14	7	131.0	1.75	229.2	779.6	1490.6	7293.1	143.8	0.570	22.023	1074.3	1382.8	0.465	21.81	928.	7
14	8	131.0	2.00	262.0	783.0	1710.9	7324.7	156.9	0.499	23.508	1439.3	1483.7	0.440	23.26	867.	7
14	9	131.0	2.25	294.7	785.9	1931.9	7351.6	163.8	0.444	24.835	1445.0	1573.9	0.447	24.56	815.	7
14	10	131.0	2.50	327.5	788.3	2153.3	7374.9	166.4	0.400	26.149	1450.0	1662.6	0.453	25.86	772.	7
14	11	131.0	2.75	360.2	790.5	2375.1	7395.3	166.8	0.364	27.616	1454.4	1760.7	0.462	27.31	741.	7
14	12	131.0	3.00	393.0	792.5	2597.4	7413.5	167.3	0.333	28.913	1458.3	1848.0	0.467	28.59	711.	7
14	13	131.0	3.25	425.7	794.2	2820.1	7429.9	167.6	0.303	30.378	1461.8	1945.9	0.474	30.04	690.	7
14	14	131.0	3.50	458.5	795.8	3043.1	7444.6	168.0	0.286	31.664	3042.5	2032.3	0.486	31.31	668.	7
14	15	131.0	3.75	491.2	797.2	3266.3	7458.1	168.3	0.267	33.140	3265.7	2130.9	0.501	32.77	652.	7
PROYECTO APUR765																
1	1	760.7	0.25	190.2	49.9	79.1	596.4	95.7	0.999	13.778	59.5	75.7	0.325	12.83	957.	3
1	2	760.7	0.50	380.3	50.0	158.6	598.1	695.1	0.931	13.734	59.8	110.7	0.250	10.04	698.	4
1	3	760.7	0.75	570.5	50.1	238.3	599.0	1084.0	0.806	15.676	59.9	152.5	0.254	10.63	640.	5
1	4	760.7	1.00	760.7	50.0	317.3	598.1	1369.7	0.708	17.763	59.8	194.3	0.266	11.58	612.	6
1	5	760.7	1.25	950.9	50.1	396.9	598.6	1592.6	0.630	19.638	59.9	233.5	0.277	12.50	588.	6
1	6	760.7	1.50	1141.0	50.1	476.6	599.0	1758.5	0.565	22.002	59.9	277.3	0.293	13.80	582.	7
1	7	760.7	1.75	1331.2	50.1	556.3	599.3	1832.3	0.509	24.447	60.0	321.1	0.310	15.18	577.	7
1	8	760.7	2.00	1521.4	50.1	635.2	598.8	1958.9	0.450	27.548	79.8	370.6	0.313	17.00	583.	7
1	9	760.7	2.25	1711.6	50.1	714.9	599.0	2008.9	0.417	30.585	79.9	418.1	0.335	18.80	585.	7
1	10	760.7	2.50	1901.7	50.1	794.6	599.2	2046.7	0.390	33.700	79.9	466.2	0.356	20.67	587.	7
1	11	760.7	2.75	2091.9	50.1	873.5	598.8	2045.3	0.346	37.600	79.8	519.8	0.382	23.06	595.	7
1	12	760.7	3.00	2282.1	50.1	953.2	599.0	2046.0	0.317	41.251	79.9	570.4	0.404	25.30	598.	7
1	13	760.7	3.25	2472.3	50.1	1032.9	599.2	2045.5	0.292	45.029	239.8	622.8	0.430	27.61	603.	7
1	14	760.7	3.50	2662.4	50.1	1112.7	599.3	2047.0	0.272	48.839	239.9	675.7	0.459	29.95	607.	7
1	15	760.7	3.75	2852.6	50.1	1191.5	599.0	2046.0	0.253	53.085	239.7	734.1	0.492	32.55	616.	7
PROYECTO APUR660																
5	1	315.5	0.25	78.9	158.2	104.0	911.2	0.0	1.000	26.480	91.1	205.7	0.672	26.48	1977.	6
5	2	315.5	0.50	157.7	158.5	208.5	1149.4	612.3	0.965	19.145	115.1	237.6	0.398	15.32	1139.	6
5	3	315.5	0.75	236.6	158.7	313.1	1150.6	1188.8	0.853	17.894	115.3	266.2	0.325	13.35	850.	6
5	4	315.5	1.00	315.5	158.8	417.8	1151.4	1601.2	0.752	17.861	115.4	297.2	0.297	12.67	712.	6
5	5	315.5	1.25	394.4	158.8	522.5	1152.0	1917.1	0.671	18.071	115.5	325.2	0.281	12.43	622.	6
5	6	315.5	1.50	473.2	158.9	627.2	1152.4	2129.6	0.597	19.016	115.6	359.5	0.279	12.85	573.	6
5	7	315.5	1.75	552.1	159.0	732.0	1152.8	2267.7	0.534	20.509	115.7	399.8	0.285	13.71	546.	7
5	8	315.5	2.00	631.0	159.0	836.7	1153.1	2340.5	0.477	20.989	154.3	415.7	0.260	13.96	497.	7
5	9	315.5	2.25	709.9	158.8	940.2	1151.7	2396.3	0.431	22.954	154.0	459.8	0.274	15.20	489.	7
5	10	315.5	2.50	788.8	158.8	1044.9	1152.0	2439.3	0.392	24.511	154.0	495.6	0.282	16.19	474.	7
5	11	315.5	2.75	867.6	158.9	1149.7	1152.2	2439.8	0.357	25.849	154.1	522.7	0.286	17.07	455.	7
5	12	315.5	3.00	946.5	158.9	1254.4	1152.4	2440.2	0.327	27.607	154.1	558.4	0.295	18.23	445.	7
5	13	315.5	3.25	1025.4	158.9	1359.1	1152.6	2440.6	0.302	29.495	154.2	596.7	0.305	19.48	439.	7
5	14	315.5	3.50	1104.2	159.0	1463.9	1152.8	2441.0	0.280	30.921	462.6	625.6	0.315	20.42	427.	7
5	15	315.5	3.75	1183.1	159.0	1568.7	1152.9	2441.3	0.262	32.716	462.7	662.0	0.329	21.61	422.	7
PROYECTO PER70																
8	1	314.0	0.25	78.5	150.6	93.6	863.4	0.0	1.000	50.041	86.5	368.3	1.270	50.04	3736.	7
8	2	314.0	0.50	157.0	150.8	197.5	1729.8	0.0	1.000	27.108	173.4	399.8	0.688	27.11	2024.	7
8	3	314.0	0.75	235.5	151.0	296.5	2596.9	0.0	1.000	19.372	260.5	428.9	0.492	19.37	1446.	7
8	4	314.0	1.00	314.0	151.0	395.6	2909.4	178.3	0.891	18.076	291.9	462.1	0.432	17.55	1168.	7
8	5	314.0	1.25	392.5	151.1	494.6	2910.6	299.2	0.741	18.712	292.1	489.2	0.416	17.84	987.	7
8	6	314.0	1.50	471.0	151.2	593.8	2911.5	356.8	0.628	19.869	292.3	523.4	0.415	18.78	881.	7
8	7	314.0	1.75	549.5	151.2	692.9	2912.2	399.3	0.546	20.829	292.4	552.6	0.411	19.57	798.	7
8	8	314.0	2.00	628.0	151.2	792.0	2912.8	437.4	0.483	21.348	390.0	569.9	0.374	19.95	720.	7
8	9	314.0	2.25	706.5	151.1	890.2	2910.1	461.9	0.432	22.561	389.4	604.1	0.379	21.02	679.	7
8	10	314.0	2.50	785.0	151.1	989.3	2910.6	485.3	0.392	23.408	389.5	629.3	0.378	21.73	636.	7
8	11	314.0	2.75	863.5	151.1	1088.4	2911.1	485.4	0.356	24.804	389.6	666.9	0.386	23.03	613.	7
8	12	314.0	3.00	942.0	151.2	1187.5	2911.5	485.5	0.327	26.046	389.7	700.4	0.391	24.19	590.	7
8	13	314.0	3.25	1020.5	151.2	1286.6	2911.9	485.6	0.301	27.146	389.8	730.1	0.394	25.21	567.	7
8	14	314.0	3.50	1099.0	151.2	1385.8	2912.2	485.6	0.280	28.626	1169.6	770.0	0.410	26.58	556.	7
8	15	314.0	3.75	1177.5	151.2	1484.9	2912.5	485.7	0.261	30.068	1169.8	803.9	0.425	27.92	545.	7
PROYECTO MARA350																
4	1	294.7	0.25	73.7	135.5	83.2	729.0	0.0	1.000	34.110	72.4	212.0	0.865	34.11	2547.	6
4	2	294.7	0.50	147.3	135.9	167.0	1462.3	0.0	1.000	19.273	145.5	240.3	0.489	19.27	1439.	6
4	3	294.7	0.75	221.0	136.1	250.8	1470.6	554.9	0.922	17.772	146.4	264.9	0.381	15.34	1056.	6
4	4	294.7	1.00	294.7	136.2	334.7	1472.0	820.8	0.782	18.297	146.7	293.6	0.356	15.02	877.	6
4	5	294.7	1.25	368.4	136.3	418.7	1473.0	1000.5	0.674	18.934	146.8	318.5	0.342	15.10	761.	6
4	6	294.7	1.50	442.0	136.4	502.7	1473.8	1117.3	0.588	19.700	146.9	341.4	0.334	15.45	679.	6
4	7	294.7	1.75	515.7	136.4	586.8	1474.4	1198.3	0.520	21.090	147.0	372.8	0.337	16.36	635.	6
4	8	294.7	2.00	589.4	136.5	670.8	1474.9	1258.5	0.465	22.320	196.2	400.4	0.318	17.18	597.	7
4	9	294.7	2.25	663.1	136.5	754.9	1475.4	1299.4	0.420	23.369	196.3	423.4	0.319	17.90	561.	7
4	10	294.7	2.50	736.7	136.3	837.4	1473.0	1329.2	0.382	25.463	195.8	464.0	0.335	19.42	554.	7
4	11	294.7	2.75	810.4	136.3	921.4	1473.4	1329.6	0.347	26.563	195.8	484.2	0.336	20.26	525.	7
4	12	294.7	3.00	884.1	136.4	1005.4	1473.8	1329.9	0.318	28.387	195.9	517.6	0.347	21.65	515.	7
4	13	294.7	3.25	957.8	136.4	1089.5	1474.1	1330.3	0.294	29						

KAL	IK	QM	ICF	QT	HN	PI	EP	ES	FP	FEC	PG	INVERSION	FEC1	CESP	KESP	DUR
(-)	(-)	(M/S)	(-)	(M/S)	(M)	(MW)	(GWH)	(GWH)	(-)	(\$/MWH)	(MW)	(10 \$)	(-)	(\$/MWH)	(\$/KW)	(AÑOS)
PROYECTO MAN230																
2	1	162.0	0.25	40.5	144.4	48.8	427.2	0.0	1.000	25.172	48.8	91.7	0.639	25.17	1880.	4
2	2	162.0	0.50	81.0	146.0	98.6	679.3	133.9	0.941	17.438	84.7	110.9	0.400	16.00	1125.	4
2	3	162.0	0.75	121.5	146.8	148.7	683.0	339.9	0.785	17.464	85.3	127.0	0.346	14.56	854.	4
2	4	162.0	1.00	162.0	147.3	199.0	685.3	486.8	0.673	18.305	85.7	144.9	0.328	14.50	728.	4
2	5	162.0	1.25	202.5	147.6	249.3	687.0	609.3	0.594	18.874	86.0	159.6	0.313	14.44	640.	4
2	6	162.0	1.50	243.0	147.9	299.8	689.3	713.2	0.534	20.406	86.2	181.8	0.317	15.21	606.	5
2	7	162.0	1.75	283.5	148.1	350.3	689.3	794.3	0.484	21.742	115.1	201.4	0.298	15.92	575.	5
2	8	162.0	2.00	324.0	148.3	400.8	690.2	857.3	0.441	22.692	115.3	216.4	0.298	16.41	540.	5
2	9	162.0	2.25	364.5	148.5	451.4	690.9	905.4	0.404	24.601	115.5	239.9	0.310	17.62	531.	6
2	10	162.0	2.50	405.0	148.6	502.0	691.6	941.4	0.371	25.534	115.6	253.0	0.310	18.17	504.	6
2	11	162.0	2.75	445.5	148.7	552.7	692.1	942.2	0.338	27.875	115.7	276.4	0.326	19.84	500.	6
2	12	162.0	3.00	486.0	148.9	603.4	692.6	942.9	0.310	29.192	115.8	289.7	0.329	20.78	480.	6
2	13	162.0	3.25	526.5	149.0	654.1	693.1	943.5	0.286	31.849	347.8	316.3	0.351	22.67	484.	7
2	14	162.0	3.50	567.0	149.0	704.8	693.5	944.1	0.265	33.458	348.1	332.5	0.363	23.81	472.	7
2	15	162.0	3.75	607.5	149.1	755.5	693.9	944.7	0.248	35.697	348.3	335.0	0.360	23.98	443.	7
PROYECTO CHICA30																
2	1	51.9	0.25	13.0	65.4	7.1	62.0	0.0	1.000	169.593	5.9	89.6	4.303	169.591	2663.	5
2	2	51.9	0.50	25.9	66.4	14.4	86.4	20.1	0.845	115.087	8.3	94.6	2.529	104.22	6581.	5
2	3	51.9	0.75	38.9	67.0	21.7	98.7	39.9	0.728	97.894	9.6	99.0	1.944	83.79	4555.	5
2	4	51.9	1.00	51.9	67.3	29.1	110.6	58.1	0.661	86.321	10.8	102.8	1.607	71.46	3529.	5
2	5	51.9	1.25	64.9	67.5	36.5	111.1	70.8	0.568	85.238	10.8	106.4	1.463	68.64	2913.	5
2	6	51.9	1.50	77.8	67.7	44.0	111.4	81.5	0.501	86.141	10.9	111.7	1.379	67.94	2541.	5
2	7	51.9	1.75	90.8	67.9	51.4	111.6	90.8	0.449	86.233	14.6	115.4	1.223	66.89	2245.	5
2	8	51.9	2.00	103.8	68.0	58.9	111.8	98.6	0.409	86.190	14.6	118.5	1.166	65.97	2012.	5
2	9	51.9	2.25	116.8	68.1	66.3	112.0	100.3	0.366	88.242	14.6	122.0	1.142	67.39	1839.	5
2	10	51.9	2.50	129.7	68.2	73.6	112.2	100.5	0.329	90.169	14.7	124.8	1.118	68.86	1692.	5
2	11	51.9	2.75	142.7	68.3	81.3	112.3	100.7	0.299	92.573	44.1	128.3	1.107	70.69	1579.	5
2	12	51.9	3.00	155.7	68.3	89.7	112.4	100.8	0.274	94.923	44.2	131.8	1.114	72.48	1485.	5
2	13	51.9	3.25	168.7	68.4	96.2	112.5	101.0	0.253	96.760	44.2	134.5	1.115	73.88	1397.	5
2	14	51.9	3.50	181.6	68.5	103.7	112.6	101.1	0.235	99.076	44.3	137.8	1.122	75.64	1329.	5
2	15	51.9	3.75	194.6	68.5	111.2	112.7	101.2	0.220	103.262	44.3	143.8	1.149	78.83	1293.	5
PROYECTO MAN320																
2	1	358.5	0.25	39.6	87.9	65.7	575.4	0.0	1.000	24.550	57.9	120.4	0.623	24.55	1833.	5
2	2	358.5	0.50	79.2	88.1	131.7	943.3	182.6	0.976	16.958	95.1	149.6	0.393	15.58	1136.	5
2	3	358.5	0.75	118.8	88.2	197.8	944.3	487.0	0.826	17.244	95.2	174.6	0.345	14.31	883.	5
2	4	358.5	1.00	158.4	88.3	263.9	945.0	663.0	0.696	18.790	95.4	204.5	0.341	14.92	775.	5
2	5	358.5	1.25	198.0	88.3	330.1	945.5	807.0	0.606	20.720	95.4	238.3	0.348	15.95	722.	6
2	6	358.5	1.50	237.6	88.3	396.2	945.9	924.6	0.539	21.464	95.5	257.7	0.338	16.16	650.	6
2	7	358.5	1.75	277.2	88.4	462.4	946.2	1019.8	0.485	24.051	127.4	298.6	0.334	17.81	646.	7
2	8	358.5	2.00	316.8	88.3	527.8	945.0	1098.9	0.442	25.825	127.1	329.0	0.343	18.88	623.	7
2	9	358.5	2.25	356.4	88.3	594.0	945.3	1167.4	0.406	27.069	127.2	352.8	0.345	19.59	594.	7
2	10	358.5	2.50	396.0	88.3	660.1	945.5	1224.1	0.375	28.462	127.3	377.9	0.350	20.43	573.	7
2	11	358.5	2.75	435.6	88.3	726.3	945.7	1224.4	0.341	31.060	127.3	412.5	0.367	22.30	568.	7
2	12	358.5	3.00	475.2	88.3	792.5	945.9	1224.6	0.313	33.976	127.3	451.2	0.388	24.39	570.	7
2	13	358.5	3.25	514.8	88.4	858.7	946.1	1224.8	0.289	35.916	352.1	477.2	0.401	25.78	556.	7
2	14	358.5	3.50	554.4	88.4	924.8	946.2	1225.0	0.268	38.780	382.2	515.3	0.426	27.84	557.	7
2	15	358.5	3.75	594.0	88.4	991.0	946.3	1225.2	0.250	40.788	382.3	542.1	0.441	29.28	547.	7
PROYECTO MARA200																
1	1	162.0	0.25	40.5	74.4	25.1	220.2	0.0	1.000	24.569	21.7	46.1	0.623	24.57	1835.	3
1	2	162.0	0.50	81.0	74.8	50.5	264.4	159.7	0.958	19.496	26.1	57.2	0.397	15.82	1132.	3
1	3	162.0	0.75	121.5	75.0	76.0	265.0	297.6	0.846	18.796	26.2	66.3	0.335	13.83	873.	3
1	4	162.0	1.00	162.0	75.1	101.4	265.4	398.5	0.747	18.952	26.2	75.1	0.310	13.26	740.	3
1	5	162.0	1.25	202.5	75.2	126.9	265.7	476.9	0.668	20.783	26.3	89.3	0.318	14.11	704.	4
1	6	162.0	1.50	243.0	75.2	152.4	265.9	530.9	0.597	21.744	26.3	98.5	0.315	14.50	646.	4
1	7	162.0	1.75	283.5	75.3	177.9	266.0	565.2	0.533	23.075	26.4	107.9	0.317	15.23	607.	4
1	8	162.0	2.00	324.0	75.3	203.5	266.2	583.3	0.477	24.585	35.2	116.9	0.301	16.14	575.	4
1	9	162.0	2.25	364.5	75.3	229.0	266.3	597.8	0.431	27.806	35.2	134.0	0.328	18.19	585.	5
1	10	162.0	2.50	405.0	75.4	254.6	266.4	608.4	0.392	29.582	35.2	143.9	0.336	19.30	565.	5
1	11	162.0	2.75	445.5	75.4	280.1	266.5	608.6	0.357	31.386	35.2	152.7	0.343	20.47	545.	5
1	12	162.0	3.00	486.0	75.4	305.7	266.6	608.8	0.327	32.043	35.3	156.0	0.338	20.90	510.	5
1	13	162.0	3.25	526.5	75.4	331.3	266.7	609.0	0.302	33.877	35.3	165.0	0.346	22.10	498.	5
1	14	162.0	3.50	567.0	75.5	356.8	266.7	609.1	0.280	37.032	105.9	180.4	0.373	24.15	505.	6
1	15	162.0	3.75	607.5	75.5	382.4	266.8	609.3	0.262	38.638	105.9	188.2	0.383	25.20	492.	6
PROYECTO MAN260																
3	1	286.0	0.25	71.5	131.6	78.5	687.2	0.0	1.000	27.979	68.7	163.9	0.710	27.98	2089.	5
3	2	286.0	0.50	143.0	131.9	157.3	1111.3	229.7	0.973	18.353	111.2	191.8	0.423	16.78	1220.	5
3	3	286.0	0.75	214.5	132.1	236.2	1112.6	591.5	0.824	18.090	111.4	217.2	0.360	14.95	919.	5
3	4	286.0	1.00	286.0	132.2	315.2	1113.5	803.8	0.694	18.981	111.6	245.2	0.343	15.00	778.	5
3	5	286.0	1.25	357.5	132.2	394.3	1114.1	977.4	0.606	20.499	111.7	280.1	0.343	15.71	710.	6
3	6	286.0	1.50	429.0	132.3	473.3	1114.6	1119.0	0.539	21.385	111.7	305.2	0.335	16.03	645.	6
3	7	286.0	1.75	500.5	132.3	552.4	1115.0	1233.1	0.485	23.682	149.1	349.6	0.328	17.46	633.	7
3	8	286.0	2.00	572.0	132.4	631.5	1115.3	1329.6	0.442	24.719	149.1	375.1	0.327	18.00	594.	7
3	9	286.0	2.25	643.5	132.4	710.6	1115.6	1411.7	0.406	25.165	149.2	390.8	0.320	18.14	550.	7
3	10	286.0	2.50	715.0	132.2	788.5	1114.1	1477.2	0.375	26.547	148.9	419.3	0.325	18.98	532.	7
3	11	286.0	2.75	786.5	132.3	867.6	1114.4	1477.6	0.341	28.616	148.9	452.1	0.337	20.46	521.	7
3	12	286.0	3.00	858.0	132.3	946.6	1114.6	1477.9	0.313	30.237	149.0	477.8	0.343	21.62	505.	7
3	13	286.0	3.25	929.5	132.3	1025.7	1114.8	1478.2	0.289	32.592	447.1	515.1	0.362	23.30	502.	7
3	14	286.0	3.50	1001.0	132.3	1104.8	1115.0	1478.5	0.268	34.800						

SALIDA DE RESULTADOS PARA EL CATALOGO TABLA 6.23 - CONTINUACION . . . 9/15

KAL	IK	QM	ICF	QT	HN	PI	EP	ES	FP	FEC	PG	INVERSION	FEC1	CESP	KESP	DUR
(-)	(-)	(M/S)	(-)	(M/S)	(M)	(MW)	(GWH)	(GWH)	(-)	(\$/MWH)	(MM)	(10 \$)	(-)	(\$/MWH)	(\$/KW)	(AÑOS)
PROYECTO TULU20																
2	1	51.0	0.25	12.7	382.2	40.6	275.8	79.6	0.998	18.194	40.6	48.9	0.410	16.16	1204.	3
2	2	51.0	0.50	25.5	382.2	81.3	275.8	397.5	0.946	17.963	44.4	72.7	0.317	12.66	894.	4
2	3	51.0	0.75	38.2	385.9	123.1	278.5	627.7	0.840	18.485	44.9	93.3	0.293	12.08	758.	4
2	4	51.0	1.00	51.0	389.1	165.5	280.7	798.5	0.745	19.168	45.2	111.1	0.282	12.08	671.	4
2	5	51.0	1.25	63.7	391.3	208.1	282.4	931.7	0.666	20.248	45.5	129.2	0.281	12.48	621.	4
2	6	51.0	1.50	76.5	393.1	250.8	283.7	1025.7	0.596	22.247	45.7	151.1	0.294	13.53	602.	5
2	7	51.0	1.75	89.2	394.5	293.6	284.7	1086.2	0.533	23.909	45.9	168.7	0.300	14.44	575.	5
2	8	51.0	2.00	102.0	395.7	336.6	285.5	1119.2	0.476	25.707	61.4	185.2	0.288	15.47	550.	5
2	9	51.0	2.25	114.7	396.7	379.6	286.2	1145.7	0.431	27.546	61.5	201.7	0.298	16.53	531.	5
2	10	51.0	2.50	127.5	397.5	422.7	286.9	1165.3	0.392	29.375	61.6	217.8	0.306	17.59	515.	5
2	11	51.0	2.75	140.2	398.3	465.9	287.4	1167.6	0.357	32.243	61.8	239.5	0.324	19.31	514.	6
2	12	51.0	3.00	153.0	399.0	509.1	287.9	1169.6	0.327	34.367	61.9	255.7	0.335	20.58	502.	6
2	13	51.0	3.25	165.7	399.6	552.3	288.3	1171.4	0.302	36.744	62.0	273.8	0.344	22.00	496.	6
2	14	51.0	3.50	178.5	400.1	595.6	288.7	1173.0	0.280	38.446	186.1	286.9	0.355	23.02	482.	6
2	15	51.0	3.75	191.2	400.6	639.0	289.1	1174.5	0.262	40.599	186.4	303.3	0.370	24.31	475.	6
PROYECTO HUAL140																
1	1	231.5	0.25	57.9	105.2	50.8	444.9	0.0	1.000	25.723	44.4	97.6	0.653	25.72	1921.	4
1	2	231.5	0.50	115.7	105.5	101.8	506.2	351.3	0.961	19.526	50.6	113.5	0.635	25.01	1867.	4
1	3	231.5	0.75	173.6	105.6	153.0	506.8	589.9	0.819	19.248	50.7	131.6	0.338	14.07	860.	4
1	4	231.5	1.00	231.5	105.7	204.1	507.2	766.2	0.712	19.491	50.8	147.9	0.314	13.63	725.	4
1	5	231.5	1.25	289.4	105.8	255.3	507.5	906.2	0.632	20.583	50.9	168.6	0.310	13.99	660.	5
1	6	231.5	1.50	347.2	105.8	306.5	507.7	1010.6	0.566	21.841	50.9	188.6	0.310	14.57	616.	5
1	7	231.5	1.75	405.1	105.9	357.7	507.9	1038.8	0.510	22.834	50.9	204.9	0.308	15.05	573.	5
1	8	231.5	2.00	463.0	105.9	408.9	508.1	1138.7	0.460	24.857	67.9	228.3	0.300	16.26	558.	6
1	9	231.5	2.25	520.9	105.9	460.1	508.2	1170.8	0.417	25.321	68.0	236.1	0.294	16.49	513.	6
1	10	231.5	2.50	578.7	105.9	511.3	508.3	1194.8	0.380	28.151	68.0	265.4	0.314	18.28	519.	6
1	11	231.5	2.75	636.6	106.0	562.6	508.4	1195.0	0.346	28.995	68.0	273.4	0.312	18.82	486.	6
1	12	231.5	3.00	694.5	105.8	612.9	507.7	1193.5	0.317	32.151	67.9	302.7	0.334	20.87	494.	7
1	13	231.5	3.25	752.4	105.8	664.1	507.8	1193.7	0.293	33.736	203.6	317.7	0.341	21.90	478.	7
1	14	231.5	3.50	810.2	105.9	715.3	507.9	1193.9	0.272	35.231	203.7	331.9	0.351	22.87	464.	7
1	15	231.5	3.75	868.1	105.9	766.5	508.0	1194.1	0.254	37.971	203.7	357.7	0.372	24.65	467.	7
PROYECTO MARA460																
2	1	463.9	0.25	116.0	122.6	118.6	1038.4	0.0	1.000	45.707	103.2	404.6	1.160	45.71	3413.	7
2	2	463.9	0.50	231.9	122.9	237.8	2032.3	0.0	1.000	25.009	207.3	444.0	0.635	25.01	1867.	7
2	3	463.9	0.75	347.9	123.1	357.1	2844.7	152.0	0.958	19.541	283.4	486.6	0.478	19.05	1363.	7
2	4	463.9	1.00	463.9	123.2	476.5	2847.1	523.0	0.807	19.605	283.7	521.7	0.435	18.16	1095.	7
2	5	463.9	1.25	579.9	123.2	596.0	2848.8	764.1	0.692	20.459	284.0	563.5	0.418	18.30	945.	7
2	6	463.9	1.50	695.8	123.1	714.2	2844.7	902.4	0.599	21.191	283.4	595.5	0.405	18.64	834.	7
2	7	463.9	1.75	811.8	123.1	833.6	2846.0	994.9	0.526	22.368	283.6	637.6	0.403	19.47	765.	7
2	8	463.9	2.00	927.8	123.2	953.0	2847.1	1063.8	0.469	23.613	379.3	680.2	0.378	20.40	714.	7
2	9	463.9	2.25	1043.8	123.2	1072.5	2848.0	1116.1	0.422	24.978	378.5	725.3	0.384	21.46	676.	7
2	10	463.9	2.50	1159.7	123.2	1192.0	2848.8	1160.7	0.384	26.344	378.7	770.1	0.399	22.53	646.	7
2	11	463.9	2.75	1275.7	123.3	1311.5	2849.5	1161.0	0.349	27.937	378.8	816.9	0.397	23.89	623.	7
2	12	463.9	3.00	1391.7	123.2	1429.6	2847.1	1160.1	0.320	29.368	378.3	858.1	0.403	25.12	600.	7
2	13	463.9	3.25	1507.7	123.2	1549.0	2847.7	1160.3	0.295	31.028	1135.4	906.7	0.414	26.54	585.	7
2	14	463.9	3.50	1623.6	123.2	1668.5	2848.3	1160.6	0.274	32.703	1135.8	955.9	0.430	27.97	573.	7
2	15	463.9	3.75	1739.6	123.2	1788.0	2848.8	1160.8	0.256	34.426	1136.1	1006.4	0.446	29.44	563.	7
PROYECTO MARA320																
3	1	281.8	0.25	70.5	143.3	84.2	737.4	0.0	1.000	30.002	73.2	188.6	0.761	30.00	2240.	6
3	2	281.8	0.50	140.9	143.7	168.9	1024.1	435.8	0.987	20.268	101.9	214.6	0.436	17.24	1271.	6
3	3	281.8	0.75	211.4	144.0	253.7	1025.7	847.5	0.947	19.378	102.1	239.4	0.363	14.99	944.	6
3	4	281.8	1.00	281.8	144.1	338.7	1026.6	1127.2	0.726	19.702	102.3	267.1	0.337	14.55	789.	6
3	5	281.8	1.25	352.2	144.2	423.6	1027.3	1342.7	0.639	19.975	102.4	289.3	0.318	14.32	693.	6
3	6	281.8	1.50	422.7	144.3	506.6	1027.9	1501.3	0.566	20.648	102.5	313.1	0.309	14.52	616.	6
3	7	281.8	1.75	493.1	144.3	593.6	1028.3	1624.3	0.510	21.989	102.6	343.5	0.311	15.19	579.	6
3	8	281.8	2.00	563.6	144.4	678.7	1028.7	1796.1	0.460	23.637	136.8	379.2	0.300	16.26	559.	7
3	9	281.8	2.25	634.1	144.4	763.7	1029.0	1759.2	0.417	24.044	136.9	391.2	0.293	16.46	512.	7
3	10	281.8	2.50	704.5	144.2	847.2	1027.3	1795.5	0.380	25.416	136.6	417.2	0.298	17.33	492.	7
3	11	281.8	2.75	774.9	144.2	932.2	1027.6	1795.3	0.346	27.388	136.6	449.7	0.310	18.60	482.	7
3	12	281.8	3.00	845.4	144.3	1017.2	1027.9	1796.8	0.317	29.355	136.7	482.1	0.320	20.02	474.	7
3	13	281.8	3.25	915.9	144.3	1102.2	1028.1	1797.2	0.293	30.556	410.2	501.9	0.325	20.84	455.	7
3	14	281.8	3.50	986.3	144.3	1187.2	1028.3	1797.6	0.272	32.688	410.3	537.0	0.342	22.29	452.	7
3	15	281.8	3.75	1056.7	144.4	1272.3	1028.5	1798.0	0.254	33.913	410.4	557.3	0.349	23.13	438.	7
PROYECTO URUBI90																
4	1	178.0	0.25	44.5	324.4	120.4	1054.5	0.0	1.000	31.963	120.4	287.3	0.811	31.96	2387.	6
4	2	178.0	0.50	89.0	324.4	240.8	2108.9	0.0	1.000	21.036	240.7	378.2	0.534	21.04	1571.	7
4	3	178.0	0.75	133.5	324.4	361.2	2478.6	539.4	0.954	18.699	335.4	438.1	0.427	17.03	1213.	7
4	4	178.0	1.00	178.0	324.4	481.6	2478.6	942.6	0.811	19.752	335.4	496.7	0.408	17.03	1031.	7
4	5	178.0	1.25	222.5	324.4	602.0	2478.6	1187.8	0.695	20.863	335.4	546.5	0.400	17.48	908.	7
4	6	178.0	1.50	267.0	324.4	722.4	2478.6	1								