

**REPÚBLICA DE PANAMÁ**  
**Empresa de Transmisión Eléctrica, S.A.**  
**Dirección del Centro Nacional de Despacho**

**Gerencia de Operaciones**

**ADENDA No.2 INFORME INDICATIVO DE DEMANDAS**

**2012-2032**

**Marzo de 2012**

**Grupo de Seguridad Operativa**



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## **Introducción**

En esta adenda, se realiza una corrección de la Tabla 3 del Informe Indicativo de Demandas 2012-2032 vigente, que contiene los datos suministrados por la Empresa de Distribución Eléctrica ELEKTRA NORESTE, S.A. (ENSA), ya que en la misma se consideró la información suministrada por ENSA en la nota DME-276-11 del 11 de noviembre de 2011, contenida en el anexo 5 del referido informe, cuando debió ser utilizada la información contenida en la nota DME-292-11 del 5 de diciembre de 2011, contenida en el anexo 3 del informe en comento.

Como resultado de la condiciones antes descritas, se modifica la Tabla 3 que contiene los datos suministrados por la Empresa de Distribución Eléctrica ELEKTRA NORESTE, S.A. (ENSA).

## **Datos Utilizados**

Se incluyen los datos suministrados por ENSA en la nota DME-292-11 del 05 de diciembre de 2011, los cuales se aprecian en la Tabla 3.

**Tabla #3**  
**DATOS DE LA EMPRESA DE DISTRIBUCIÓN ELEKTRA NORESTE, S.A.**  
**CLIENTES TOTALES**

**PRONÓSTICO MENSUAL DE ENERGÍA DE VENTAS MAS PERDIDAS DE DISTRIBUCION (MWH)**

	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC	Total	TASA %
2012	232,214.56	224,226.47	244,915.58	245,971.48	259,023.46	249,581.83	253,723.67	252,080.14	250,735.71	250,348.45	235,676.97	241,270.46	2,939,768.78	---
2013	247,487.33	237,281.08	258,575.79	259,146.31	270,312.67	260,942.71	266,406.94	263,164.36	262,461.11	262,137.37	246,735.04	252,016.65	3,086,667.37	4.997%
2014	259,859.88	249,143.39	271,502.67	272,101.72	283,826.31	273,987.92	279,725.33	276,320.64	275,582.23	275,242.31	259,069.97	264,615.63	3,240,977.99	4.999%
2015	272,595.02	261,353.34	284,808.40	285,436.80	297,735.99	287,415.44	293,434.03	289,862.49	289,087.89	288,731.31	271,766.40	277,583.84	3,399,810.94	4.901%
2016	284,364.75	272,637.69	297,105.46	297,761.00	310,591.22	299,825.07	306,103.52	302,377.77	301,569.73	301,197.75	283,500.36	289,568.97	3,546,603.29	4.318%
2017	295,578.25	283,386.75	308,821.37	309,502.76	322,836.92	311,648.22	318,174.25	314,301.58	313,461.68	313,075.03	294,679.77	300,987.69	3,686,458.26	3.943%
2018	306,032.30	293,411.68	319,743.81	320,449.30	334,257.13	322,670.64	329,427.48	325,417.85	324,548.23	324,147.91	305,102.04	311,633.07	3,816,841.45	3.537%
2019	319,254.90	306,088.99	333,558.83	334,294.80	348,699.23	336,612.13	343,660.91	339,478.03	338,570.84	338,153.22	318,284.45	325,097.66	3,981,754.00	4.321%
2020	334,299.98	320,513.62	349,277.99	350,048.65	365,131.89	352,475.18	359,856.14	355,476.14	354,526.20	354,088.90	333,283.80	340,418.08	4,169,396.55	4.713%
2021	349,624.38	335,206.05	365,288.99	366,094.98	381,869.64	368,632.74	376,352.04	371,771.26	370,777.78	370,320.43	348,561.62	356,022.94	4,360,522.85	4.584%
2022	362,861.95	347,897.71	379,119.66	379,956.16	396,328.09	382,590.01	390,601.58	385,847.36	384,816.26	384,341.60	361,758.95	369,502.77	4,525,622.10	3.786%
2023	375,132.66	359,662.37	391,940.14	392,804.93	409,730.50	395,527.84	403,810.34	398,895.35	397,829.38	397,338.67	373,992.35	381,998.04	4,678,662.56	3.382%
2024	386,895.20	370,939.84	404,229.70	405,121.60	422,577.88	407,929.89	416,472.09	411,402.99	410,303.60	409,797.50	385,719.14	393,975.86	4,825,365.29	3.136%
2025	401,477.26	384,920.54	419,465.10	420,390.61	438,504.82	423,304.75	432,168.91	426,908.75	425,767.92	425,242.75	400,256.88	408,824.79	5,007,233.10	3.769%
2026	421,928.22	404,528.11	440,832.34	441,805.00	460,841.93	444,867.58	454,183.27	448,655.17	447,456.22	446,904.30	420,645.67	429,650.02	5,262,017.83	5.094%
2027	445,110.17	426,754.05	465,052.93	466,079.03	486,161.91	469,309.88	479,137.41	473,305.57	472,040.75	471,458.50	443,757.15	453,256.23	5,551,423.59	5.494%
2028	476,053.06	456,420.87	497,382.19	498,479.62	519,958.61	501,935.07	512,445.78	506,208.53	504,855.79	504,233.06	474,605.98	484,765.41	5,937,343.97	6.952%
2029	501,101.64	480,436.46	523,553.06	524,708.23	547,317.38	528,345.50	539,409.25	532,843.81	531,419.89	530,764.40	499,578.43	510,272.41	6,249,750.47	5.262%
2030	514,353.79	493,142.10	537,398.96	538,584.69	561,791.76	542,318.14	553,674.48	546,935.42	545,473.84	544,801.01	512,790.30	523,767.10	6,415,031.60	2.645%
2031	530,869.67	508,976.87	554,654.82	555,878.62	579,830.87	559,731.96	571,452.95	564,497.49	562,988.98	562,294.55	529,255.97	540,585.23	6,621,017.98	3.211%
2032	542,678.06	520,298.29	566,992.27	568,243.29	592,728.32	572,182.34	584,164.05	577,053.88	575,511.82	574,801.94	541,028.46	552,609.73	6,768,292.45	2.224%

**PRONÓSTICO MENSUAL DEL FACTOR DE CARGA (pu)**

	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC	PROM.	TASA %
2012	0.726	0.751	0.713	0.729	0.733	0.740	0.711	0.750	0.742	0.727	0.718	0.723	0.730	---
2013	0.726	0.751	0.713	0.729	0.733	0.740	0.711	0.750	0.742	0.727	0.718	0.723	0.730	0.000%
2014	0.726	0.751	0.713	0.729	0.733	0.740	0.711	0.750	0.742	0.727	0.718	0.723	0.730	0.000%
2015	0.726	0.751	0.713	0.729	0.733	0.740	0.711	0.750	0.742	0.727	0.718	0.723	0.730	0.000%
2016	0.726	0.751	0.713	0.729	0.733	0.740	0.711	0.750	0.742	0.727	0.718	0.723	0.730	0.000%
2017	0.726	0.751	0.713	0.729	0.733	0.740	0.711	0.750	0.742	0.727	0.718	0.723	0.730	0.000%
2018	0.726	0.751	0.713	0.729	0.733	0.740	0.711	0.750	0.742	0.727	0.718	0.723	0.730	0.000%
2019	0.726	0.751	0.713	0.729	0.733	0.740	0.711	0.750	0.742	0.727	0.718	0.723	0.730	0.000%
2020	0.726	0.751	0.713	0.729	0.733	0.740	0.711	0.750	0.742	0.727	0.718	0.723	0.730	0.000%
2021	0.726	0.751	0.713	0.729	0.733	0.740	0.711	0.750	0.742	0.727	0.718	0.723	0.730	0.000%
2022	0.726	0.751	0.713	0.729	0.733	0.740	0.711	0.750	0.742	0.727	0.718	0.723	0.730	0.000%
2023	0.726	0.751	0.713	0.729	0.733	0.740	0.711	0.750	0.742	0.727	0.718	0.723	0.730	0.000%
2024	0.726	0.751	0.713	0.729	0.733	0.740	0.711	0.750	0.742	0.727	0.718	0.723	0.730	0.000%
2025	0.726	0.751	0.713	0.729	0.733	0.740	0.711	0.750	0.742	0.727	0.718	0.723	0.730	0.000%
2026	0.726	0.751	0.713	0.729	0.733	0.740	0.711	0.750	0.742	0.727	0.718	0.723	0.730	0.000%
2027	0.726	0.751	0.713	0.729	0.733	0.740	0.711	0.750	0.742	0.727	0.718	0.723	0.730	0.000%
2028	0.726	0.751	0.713	0.729	0.733	0.740	0.711	0.750	0.742	0.727	0.718	0.723	0.730	0.000%
2029	0.726	0.751	0.713	0.729	0.733	0.740	0.711	0.750	0.742	0.727	0.718	0.723	0.730	0.000%
2030	0.726	0.751	0.713	0.729	0.733	0.740	0.711	0.750	0.742	0.727	0.718	0.723	0.730	0.000%
2031	0.726	0.751	0.713	0.729	0.733	0.740	0.711	0.750	0.742	0.727	0.718	0.723	0.730	0.000%
2032	0.726	0.751	0.713	0.729	0.733	0.740	0.711	0.750	0.742	0.727	0.718	0.723	0.730	0.000%

**PRONÓSTICO MENSUAL DE DEMANDA MAXIMA (MW)**

	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC	MAXIMA	TASA %
Días =>	31	28 / 29	31	30	31	30	31	31	30	31	30	31	365	
2012	430.05	429.19	461.95	468.73	475.10	468.55	479.50	451.51	469.15	462.88	455.71	448.35	479.50	---
2013	458.34	470.40	487.71	493.84	495.81	489.88	503.47	471.36	491.09	484.68	477.09	468.32	503.47	5.00%
2014	481.25	493.91	512.10	518.53	520.60	514.37	528.64	494.92	515.64	508.91	500.94	491.73	528.64	5.00%
2015	504.84	518.12	537.19	543.94	546.11	539.58	554.54	519.18	540.91	533.85	525.49	515.83	554.54	4.90%
2016	526.63	521.85	560.39	567.43	569.69	562.88	578.49	541.60	564.26	556.90	548.18	538.10	578.49	4.32%
2017	547.40	561.80	582.48	589.80	592.15	585.07	601.30	562.95	586.51	578.86	569.80	559.32	601.30	3.94%
2018	566.76	581.67	603.09	610.66	613.10	605.77	622.56	582.86	607.26	599.34	589.95	579.10	622.56	3.54%
2019	591.25	606.80	629.14	637.05	639.59	631.94	649.46	608.05	633.49	625.23	615.44	604.12	649.46	4.32%
2020	619.11	613.49	658.79	667.07	669.73	661.72	680.07	636.70	663.35	654.69	644.44	632.59	680.07	4.71%
2021	647.49	664.53	688.99	697.65	700.43	692.05	711.24	665.89	693.76	684.71	673.98	661.59	711.24	4.58%
2022	672.01	689.69	715.08	724.06	726.95	718.26	738.17	691.10	720.02	710.83	699.50	686.64	738.17	3.79%
2023	694.73	713.01	739.26	748.55	751.53	742.55	763.14	714.47	744.37	734.66	723.15	709.86	763.14	3.38%
2024	716.52	710.01	762.44	772.02	775.10	765.83	787.07	736.87	767.71	757.70	745.83	732.12	787.07	3.14%
2025	743.52	763.08	791.17	801.11	804.31	794.69	816.73	764.65	796.65	786.26	773.94	759.71	816.73	3.77%
2026	781.40	801.96	831.48	841.92	845.28	835.17	858.33	803.60	837.23	826.31	813.36	798.41	858.33	5.09%
2027	824.33	846.02	877.16	888.18	891.72	881.06	905.49	847.75	883.23	871.71	858.05	842.28	905.49	5.49%
2028	881.64	873.63	938.14	949.92	953.71	942.31	968.44	906.68	944.63	932.30	917.70	900.83	968.44	6.95%
2029	928.02	952.44	987.50	999.91	1,003.90	991.89	1,019.40	954.39	994.33	981.36	965.99	948.23	1,019.40	5.26%
2030	952.57	977.63	1,013.62	1,026.35	1,030.44	1,018.12	1,046.36	979.63	1,020.63	1,007.31	991.54	973.31	1,046.36	2.64%
2031	983.15	1,009.02	1,046.16	1,059.31	1,063.53	1,050.82	1,079.95	1,011.08	1,053.40	1,039.66	1,023.37	1,004.56	1,079.95	3.21%
2032	1,005.02	995.90	1,069.43	1,082.87	1,087.19	1,074.19	1,103.98	1,033.57	1,076.83	1,062.78	1,046.14	1,026.91	1,103.98	2.22%

## Conclusiones

Tal como lo establecen las **Reglas Comerciales del Mercado Mayorista de Electricidad en Panamá**, el Centro Nacional de Despacho tiene la responsabilidad de confeccionar el Informe Indicativo de Demandas.

La información contenida en esta adenda incorpora una corrección en la información presentada en la Tabla 3 del Informe Indicativo de Demandas, los cambios reflejados en esta tabla no producen cambios en los cálculos de la Demanda Máxima de Generación (DMG) dado que los cálculos realizados en el Informe Indicativo de Demandas se realizaron con la información contenida en la nota DME-292-11 del 05 de diciembre de 2011.

