Plan de Expansión del Sistema
Interconectado Nacional
2019 – 2033

Tomo I
Estudios Básicos

Anexo Tomo I - 1

“Variables Históricas & Proyección de la Demanda del Escenario Pesimista y Optimista”

ETESA
Unimos Panamá con Energía

Variables Históricas de las Distribuidoras.

AÑO	CONSUMO ALUMBRADO			CONSUMO COMERCIAL			CONSUMO GOBIERNO			CONSUMO INDUSTRIAL		
	Edechi	Edemet	Ensa	Edechi	Edemet	Ensa	Edechi	Edemet	Ensa	Edechi	Edemet	Ensa
	MWh											
2001	15,660.00	42,190.00	23,439.34	126,080.00	906,240.00	586,030.00	30,990.00	342,830.00	204,770.00	46,050.00	154,570.00	228,544.00
2002	12,470.00	40,520.00	26,182.00	144,700.00	961,280.00	627,545.00	33,350.00	338,760.00	209,207.00	38,060.00	129,480.00	200,176.00
2003	14,850.00	45,960.00	34,126.00	185,520.00	1,092,210.00	670,156.00	34,540.00	342,740.00	212,637.00	7,320.00	42,250.00	197,699.00
2004	17,490.00	50,640.00	38,719.00	185,590.00	1,177,950.00	701,632.00	44,190.00	356,700.00	234,869.00	7,610.00	42,290.00	187,857.00
2005	17,960.00	53,300.00	38,887.00	187,870.00	1,234,530.00	754,165.00	45,870.00	349,710.00	245,339.00	6,330.00	45,290.00	206,406.00
2006	18,859.00	56,192.00	41,416.00	137,203.00	1,177,248.00	804,951.00	46,340.00	355,149.00	253,565.00	64,674.00	152,864.00	238,829.00
2007	19,600.00	57,300.00	43,083.00	146,060.00	1,304,240.00	876,240.00	49,280.00	376,760.00	270,778.00	55,900.00	160,770.00	254,264.00
2008	20,364.21	59,148.17	45,559.00	153,000.00	1,377,000.00	923,216.00	49,074.80	371,862.02	275,195.00	62,000.00	146,000.00	261,613.00
2009	21,382.00	60,514.00	46,650.00	155,500.00	1,363,220.00	943,236.00	52,610.00	390,030.00	289,576.00	56,120.00	191,600.00	277,487.00
2010	22,590.00	61,280.00	47,795.00	179,210.00	1,460,420.00	967,009.00	54,320.00	399,850.00	296,196.00	53,300.00	191,470.00	226,006.00
2011	23,360.00	63,400.00	49,381.00	203,320.00	1,579,670.00	1,014,028.00	56,340.00	402,380.00	309,880.00	52,910.00	186,970.00	229,904.00
2012	24,990.00	69,990.00	51,912.00	238,360.00	1,744,930.00	1,108,826.00	60,210.00	423,330.00	338,842.00	49,610.00	193,760.00	234,584.00
2013	27,850.00	81,950.00	54,536.00	246,880.00	1,818,340.00	1,171,332.00	61,720.00	411,700.00	356,598.00	48,780.00	190,470.00	241,373.00
2014	28,950.00	83,660.00	56,909.00	248,980.00	1,898,190.00	1,224,990.00	63,180.00	414,120.00	381,119.00	49,950.00	190,170.00	225,041.00
2015	31,140.00	89,660.00	59,921.00	310,000.00	2,059,590.00	1,334,533.00	70,890.00	465,720.00	413,543.00	49,760.00	181,450.00	228,002.00
2016	35,561.27	95,205.29	63,089.00	322,528.81	2,146,580.59	1,407,222.00	86,731.10	481,222.83	426,491.00	51,405.27	179,540.50	218,715.00
2017	37,990.87	103,501.57	65,834.74	343,621.79	2,187,274.34	1,431,723.89	87,599.85	487,341.16	434,244.52	50,934.87	148,571.34	207,763.06
2018	39,641.02	110,474.71	67,572.44	348,150.61	2,215,499.85	1,383,956.29	91,017.14	495,571.96	439,057.70	53,099.50	128,813.30	139,491.56

AÑO	CONSUMO OTROS			CONSUMO RESIDENCIAL			PERDIDAS NO TECNICAS			PERDIDAS TECNICAS		
	Edechi	Edemet	Ensa	Edechi	Edemet	Ensa	Edechi	Edemet	Ensa	Edechi	Edemet	Ensa
	MWh						%					
2001	3,930.00	4,930.00	2,943.00	109,640.00	546,370.00	506,543.00	0.45	0.70	0.00	0.59	0.91	0.00
2002	4,020.00	4,580.00	10,660.00	121,660.00	590,900.00	548,460.00	0.42	0.77	0.00	0.55	1.00	0.00
2003	1,250.00	6,650.00	3,377.00	122,570.00	621,740.00	596,944.00	0.48	0.73	0.00	0.62	0.95	0.00
2004	1,130.00	7,230.00	4,331.00	128,530.00	677,040.00	632,178.00	0.47	0.58	0.00	0.62	0.75	0.00
2005	1,070.00	7,500.00	3,854.00	134,030.00	694,150.00	667,650.00	0.48	0.56	0.00	0.62	0.73	0.00
2006	0.00	0.00	3,735.00	137,671.00	710,532.00	686,002.00	0.51	0.62	0.00	0.67	0.81	0.00
2007	0.00	0.00	3,738.00	149,520.00	747,930.00	731,013.00	0.50	0.50	0.00	0.65	0.65	0.00
2008	1,684.15	12,045.84	2,983.00	155,121.82	750,908.63	741,150.00	0.40	0.49	0.00	0.53	0.64	0.00
2009	540.00	4,230.00	2,886.00	175,360.00	835,170.00	791,411.00	0.44	0.55	0.54	0.58	0.72	0.79
2010	430.00	4,180.00	2,666.00	191,290.00	910,370.00	872,384.00	0.50	0.52	0.59	0.65	0.68	0.79
2011	420.00	4,270.00	2,660.00	203,540.00	960,650.00	919,934.00	0.50	0.54	0.57	0.66	0.70	0.80
2012	470.00	4,590.00	2,700.00	220,310.00	1,041,090.00	986,615.00	0.48	0.54	0.56	0.63	0.70	0.80
2013	530.00	4,560.00	2,750.00	230,900.00	1,116,990.00	1,032,117.00	0.46	0.53	0.65	0.60	0.68	0.59
2014	610.00	4,420.00	2,836.00	245,100.00	1,194,360.00	1,088,851.00	0.54	0.53	0.66	0.71	0.69	0.59
2015	720.00	4,690.00	2,869.00	271,600.00	1,273,170.00	1,170,155.00	0.66	0.55	0.74	0.86	0.72	0.59
2016	780.44	4,745.84	3,292.00	301,741.48	1,272,670.32	1,220,689.00	0.59	0.57	0.78	0.77	0.74	0.58
2017	799.96	4,510.72	3,975.75	310,091.38	1,313,144.31	1,255,690.82	0.15	0.39	0.71	1.46	0.83	0.58
2018	800.47	4,328.17	3,056.76	319,365.91	1,323,663.38	1,264,046.95	0.09	0.31	0.71	0.37	0.61	0.59

Variables Históricas de los Grandes Usuarios.

AÑO	Grandes Usuarios			
	Consumo del metro	Alta tensión	Baja tensión	Perdidas
	MWh	MWh	MWh	%
2001	0.00	0.00	0.00	0.00
2002	0.00	0.00	0.00	0.00
2003	0.00	0.00	0.00	0.00
2004	0.00	0.00	0.00	0.00
2005	0.00	57,999.41	29,169.86	0.68
2006	0.00	32,621.01	6,138.59	0.74
2007	0.00	35,211.00	16,310.00	0.65
2008	0.00	36,343.00	17,903.00	0.58
2009	0.00	36,848.18	20,481.03	0.69
2010	0.00	172,140.31	44,437.51	0.71
2011	0.00	183,223.88	82,609.41	0.72
2012	0.00	210,925.63	85,753.70	0.71
2013	0.00	218,272.80	100,577.47	0.70
2014	0.00	210,463.22	125,038.72	0.72
2015	0.00	194,748.43	58,125.87	0.78
2016	0.00	184,463.00	85,841.64	0.77
2017	0.00	185,250.00	237,107.18	0.77
2018	41,037.36	158,759.00	512,537.96	0.77
2019	92,599.00	0.00	0.00	0.00
2020	125,647.00	0.00	0.00	0.00
2021	145,734.40	0.00	0.00	0.00
2022	165,821.80	0.00	0.00	0.00
2023	185,909.20	0.00	0.00	0.00
2024	205,996.60	0.00	0.00	0.00
2025	226,084.00	0.00	0.00	0.00
2026	238,427.20	0.00	0.00	0.00
2027	250,770.40	0.00	0.00	0.00
2028	263,113.60	0.00	0.00	0.00
2029	275,456.80	0.00	0.00	0.00
2030	287,800.00	0.00	0.00	0.00
2031	322,544.00	0.00	0.00	0.00
2032	357,288.00	0.00	0.00	0.00
2033	392,032.00	0.00	0.00	0.00

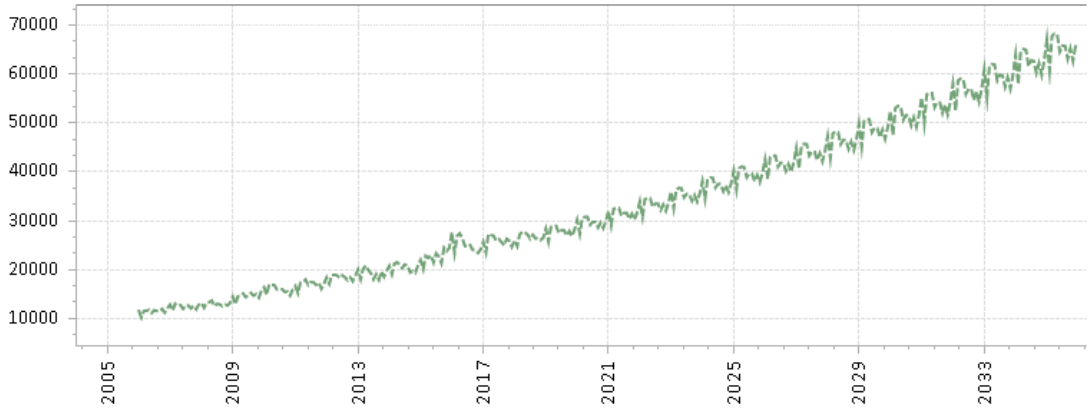
Variables Históricas de las Variables Explicativas.

AÑO	Variables Explicativas								
	Fc	COSTMARG	PIB	PIBCOM	PIBIND	POB	TEMPMAX	TEMPMIN	IMAE
	%	Balboas por MWh	Millones de Balboa	Millones de Balboa	Millones de Balboa	Habitantes	Celcius	Celcius	Millones de Balboa
2001	0.00	620.44	13,266.11	3,111.56	1,355.61	2,291,948.01	36.22	25.51	123.15
2002	0.00	546.65	13,561.99	3,088.72	1,319.72	2,346,159.27	36.67	25.53	123.74
2003	0.00	667.11	14,147.55	3,105.33	1,298.25	2,400,747.63	36.43	25.34	128.51
2004	0.00	678.43	15,211.02	3,426.64	1,332.42	2,455,910.38	36.34	25.25	137.66
2005	0.00	1,079.94	16,287.68	3,832.23	1,356.23	2,511,845.11	36.23	25.62	145.83
2006	0.00	1,507.19	17,696.90	4,260.50	1,408.68	2,568,668.39	36.08	25.68	158.02
2007	0.00	1,865.75	19,771.87	4,666.23	1,492.82	2,626,334.81	35.88	25.52	173.43
2008	0.00	2,790.00	21,822.69	5,074.28	1,547.65	2,684,755.60	35.65	25.30	190.97
2009	0.00	1,843.27	22,520.74	4,937.03	1,542.51	2,743,877.77	36.15	26.01	193.93
2010	0.700	2,139.19	24,389.34	5,691.49	1,553.61	2,803,625.55	35.92	26.12	205.81
2011	0.700	2,666.48	26,995.35	6,442.05	1,604.00	2,863,856.05	35.70	25.46	223.57
2012	0.720	2,325.07	29,876.34	6,994.16	1,662.42	2,924,621.10	36.16	25.74	245.16
2013	0.710	2,537.20	31,851.90	7,266.56	1,699.83	2,985,990.05	36.13	25.53	265.70
2014	0.720	2,604.66	33,780.00	7,266.45	1,956.74	3,047,864.86	36.40	25.79	278.57
2015	0.730	1,093.57	35,731.60	7,609.61	1,930.53	3,110,145.26	37.54	26.80	290.23
2016	0.770	724.65	37,471.80	7,875.89	1,876.88	3,172,855.22	37.42	26.59	302.89
2017	0.770	702.12	38,456.90	7,212.80	2,131.30	3,236,183.25	37.46	26.57	318.63
2018	0.760	920.43	39,887.70	7,469.70	2,146.20	3,299,844.00	36.42	25.34	328.92
2019	0.711	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2020	0.714	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2021	0.718	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2022	0.721	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	0.724	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2024	0.728	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2025	0.731	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2026	0.734	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	0.738	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	0.741	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	0.744	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2030	0.748	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2031	0.751	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2032	0.755	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2033	0.750	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Proyección de la Demanda en el escenario Pesimista.

EDECHI

Consumo Residencial



Variable Dependiente: CRES

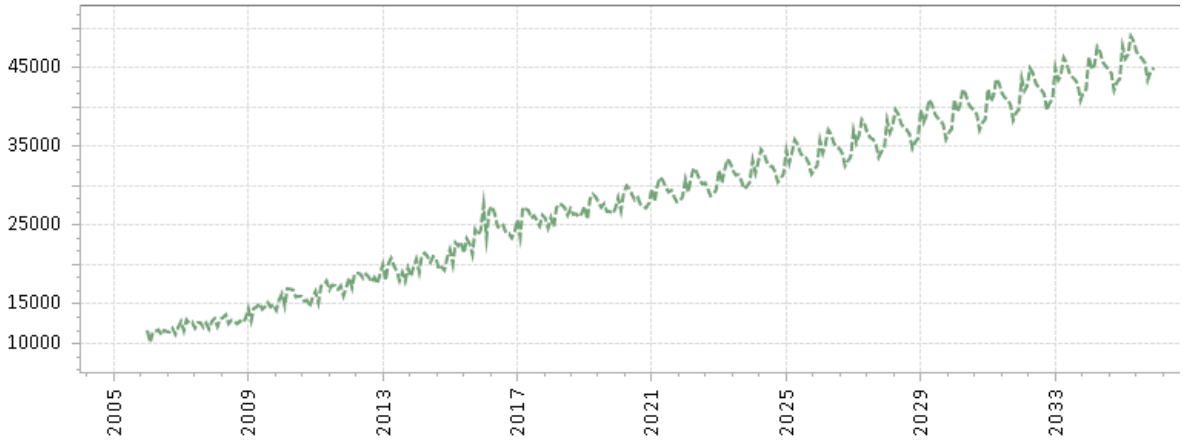
Estadistico - F =	739.88968118949
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.985451663140973
R-Squared Ajustado =	0.984119773146837

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-39.002	3.171	-12.298	0
LOG(PIB/POB)	0.063	0.076	0.83	0.407
LOG(POB)	3.351	0.18	18.606	0
@seas(2)	-0.102	0.013	-7.475	0
@seas(3)	0.002	0.014	0.186	0.852
@seas(4)	0.006	0.013	0.449	0.653
@seas(5)	0	0.013	0.001	0.999
@seas(6)	-0.057	0.013	-4.103	0
@seas(7)	-0.042	0.013	-3.075	0.002
@seas(8)	-0.047	0.014	-3.364	0
@seas(9)	-0.092	0.013	-6.644	0
@seas(10)	-0.063	0.015	-4.222	0
@seas(11)	-0.106	0.013	-7.67	0
@seas(12)	-0.062	0.013	-4.503	0

Indicadores de bondad estadísticos:

Root Mean Squared Error:	714.742237460265
Mean Absolute Error:	507.872349410842
Mean Absolute Percent Error:	2.61516671071961
Theil Inequality Coefficient:	0.0184831546380333
Covariance Proportion:	25397950.4202269
Akaike information criterion:	-3.77690384783048
Schwarz information criterion:	-3.50319882153886
Hannan-Quinn information criterion:	-3.6657367169009
Durbin-Watson statistic:	0.612682524316506
Log-Likehood:	308.598500130778

Consumo Comercial



Variable Dependiente: CCOM

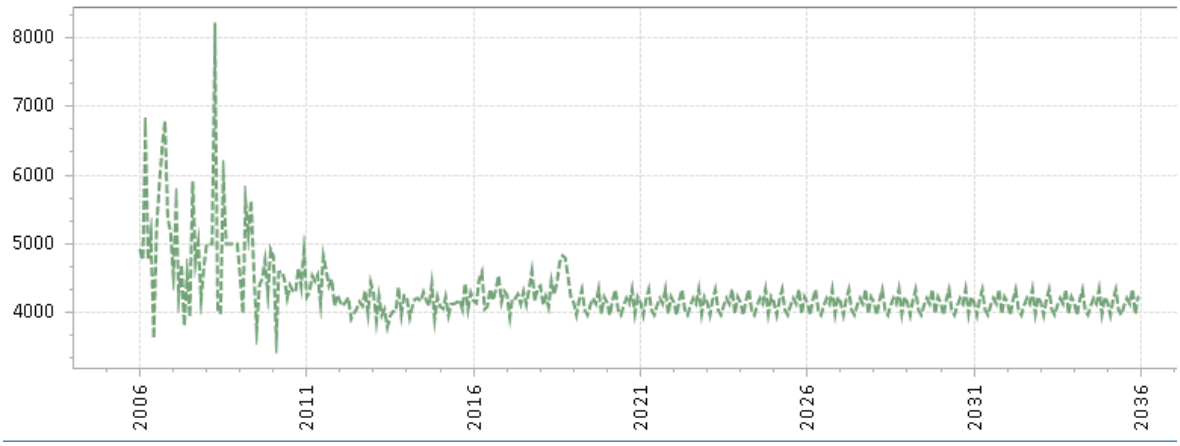
Estadistico - F =	226.490417224318
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.957714988550616
R-Squared Ajustado =	0.953486487405677

Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	-279.207	570.93	-0.489	0.625
PIBCOM	7.825	1.78	4.395	0
CCOM(-12)	0.864	0.035	24.298	0
@seas(2)	-225.195	430.606	-0.522	0.601
@seas(3)	-202.48	431.543	-0.469	0.639
@seas(4)	119.309	425.95	0.28	0.779
@seas(5)	16.478	426.528	0.038	0.969
@seas(6)	-182.867	432.131	-0.423	0.672
@seas(7)	-264.565	430.534	-0.614	0.539
@seas(8)	-345.864	437.467	-0.79	0.43
@seas(9)	-423.338	438.985	-0.964	0.336
@seas(10)	-763.511	460.586	-1.657	0.099
@seas(11)	-620.709	451.312	-1.375	0.171
@seas(12)	-585.943	446.325	-1.312	0.191

Indicadores de bondad estadísticos:

Root Mean Squared Error:	852.190669949395
Mean Absolute Error:	641.720079576046
Mean Absolute Percent Error:	3.24183262349193
Theil Inequality Coefficient:	0.0213826220740854
Covariance Proportion:	22486553.9646972
Akaike information criterion:	16.829874443584
Schwarz information criterion:	17.1186062921538
Hannan-Quinn information criterion:	16.947198774625
Durbin-Watson statistic:	0.601759014576799
Log-Likehood:	-1197.75095993805

Consumo Industrial



Variable Dependiente: CIND

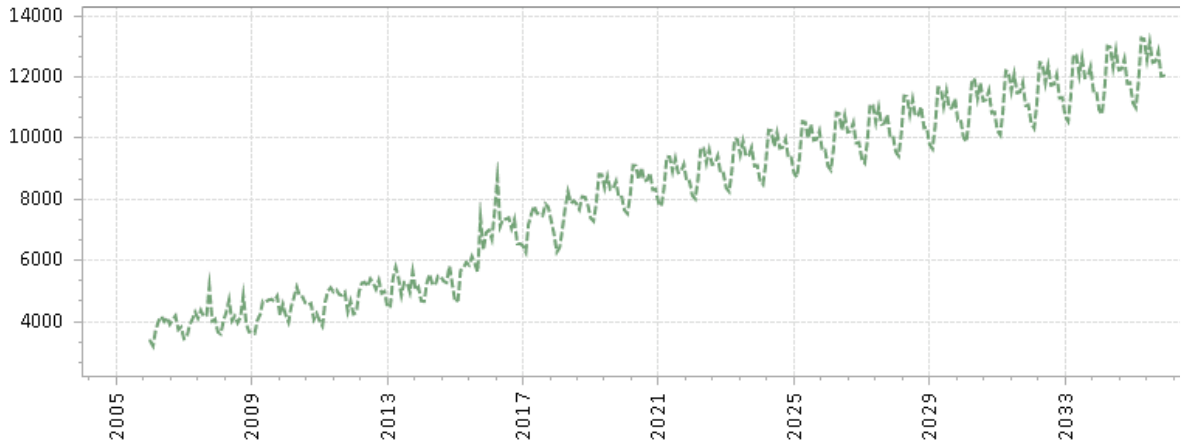
Estadistico - F =	2.1517300288456
Probabilidad Estadistico - F =	0.017677414572196500000
R-Squared =	0.164651416618269
R-Squared Ajustado =	0.0881309356978048

Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	6.549	0.582	11.241	0
LOG(CIND(-12))	0.218	0.069	3.155	0.001
@seas(2)	-0.035	0.039	-0.893	0.372
@seas(3)	0.005	0.039	0.137	0.891
@seas(4)	0.034	0.039	0.862	0.39
@seas(5)	-0.02	0.039	-0.516	0.606
@seas(6)	-0.035	0.039	-0.879	0.38
@seas(7)	-0.008	0.039	-0.217	0.827
@seas(8)	0.011	0.039	0.286	0.775
@seas(9)	-0.003	0.039	-0.09	0.928
@seas(10)	0.035	0.039	0.882	0.379
@seas(11)	-0.032	0.039	-0.81	0.418
@seas(12)	0.014	0.039	0.378	0.705

Indicadores de bondad estadisticos:

Root Mean Squared Error:	473.581289362655
Mean Absolute Error:	288.590076738193
Mean Absolute Percent Error:	6.55636380327356
Theil Inequality Coefficient:	0.0537317356013047
Covariance Proportion:	27087.4973796218
Akaike information criterion:	-1.74726092461038
Schwarz information criterion:	-1.47915277950977
Hannan-Quinn information criterion:	-1.63831690292943

Consumo Gobierno



Variable Dependiente: CGOB

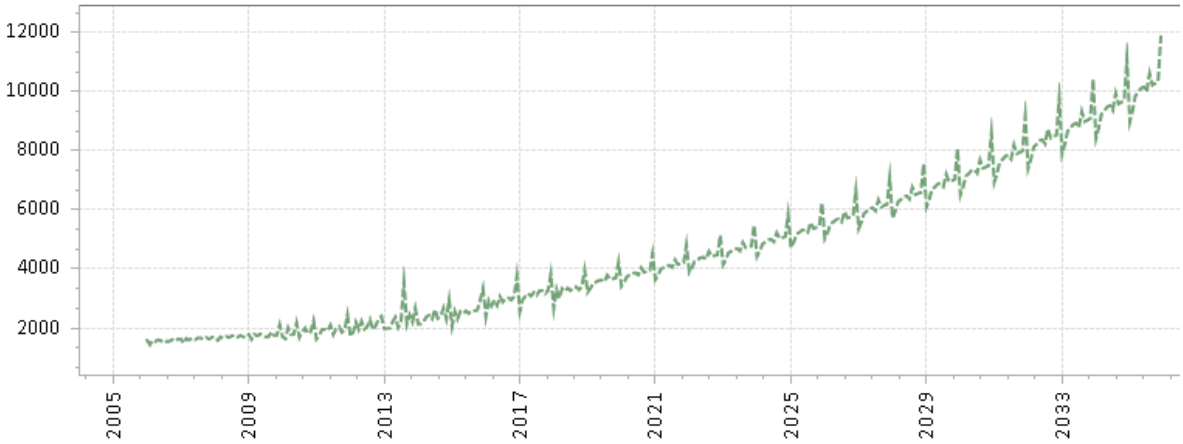
Estadistico - F =	67.1776863533783
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.849336062415902
R-Squared Ajustado =	0.836692934786467

Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	2.282	0.229	9.923	0
LOG(PIB)	0.795	0.029	26.838	0
@seas(2)	-0.016	0.037	-0.429	0.668
@seas(3)	0.054	0.038	1.428	0.155
@seas(4)	0.168	0.037	4.435	0
@seas(5)	0.164	0.038	4.327	0
@seas(6)	0.11	0.038	2.903	0.004
@seas(7)	0.153	0.038	4.035	0
@seas(8)	0.1	0.038	2.629	0.009
@seas(9)	0.1	0.038	2.655	0.008
@seas(10)	0.125	0.038	3.281	0.001
@seas(11)	0.058	0.038	1.532	0.127
@seas(12)	0.058	0.038	1.532	0.127

Indicadores de bondad estadísticos:

Root Mean Squared Error:	553.10315148156
Mean Absolute Error:	442.719347745462
Mean Absolute Percent Error:	7.93339282808598
Theil Inequality Coefficient:	0.0508244811015751
Covariance Proportion:	1356055.98014114
Akaike information criterion:	-1.75181551002392
Schwarz information criterion:	-1.49766084275313
Hannan-Quinn information criterion:	-1.64858888844645
Durbin-Watson statistic:	0.331358692038086
Log-Likehood:	149.641609781866

Consumo alumbrado



Variable Dependiente: CALP

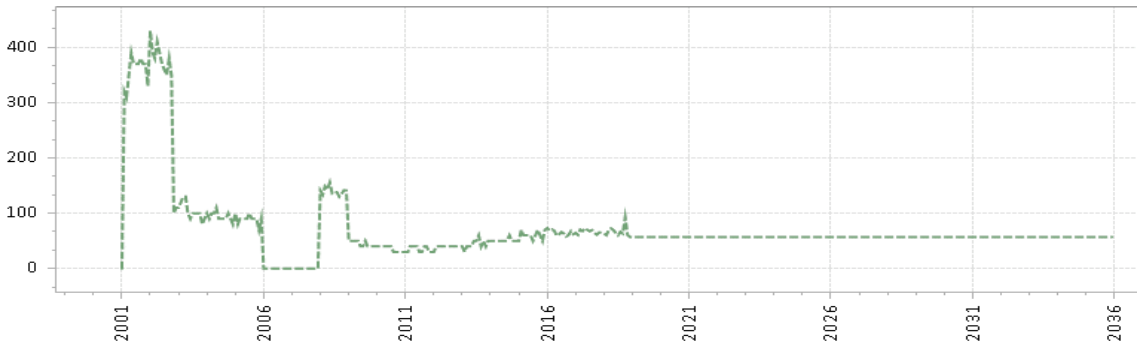
Estadistico - F =	137.355491623363
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.920168189412033
R-Squared Ajustado =	0.91346901649556

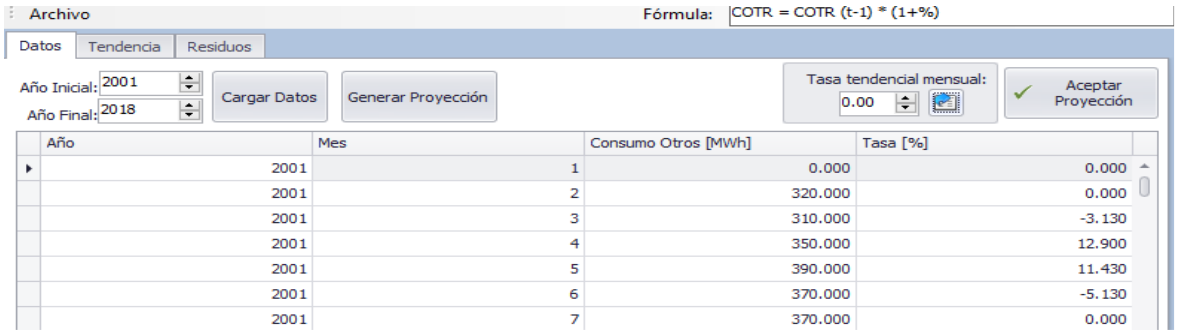
Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	7.18	0.023	306.271	0
@trend	0.005	0	39.226	0
@seas(2)	0.037	0.03	1.254	0.211
@seas(3)	0.082	0.03	2.736	0.006
@seas(4)	0.088	0.03	2.94	0.003
@seas(5)	0.097	0.03	3.242	0.001
@seas(6)	0.096	0.03	3.214	0.001
@seas(7)	0.074	0.03	2.476	0.014
@seas(8)	0.129	0.03	4.289	0
@seas(9)	0.086	0.03	2.879	0.004
@seas(10)	0.087	0.03	2.892	0.004
@seas(11)	0.087	0.03	2.917	0.004
@seas(12)	0.219	0.03	7.288	0

Indicadores de bondad estadísticos:

Root Mean Squared Error:	174.624799819071
Mean Absolute Error:	129.230744912488
Mean Absolute Percent Error:	5.76562141543828
Theil Inequality Coefficient:	0.0374829579466573
Covariance Proportion:	331230.579647397
Akaike information criterion:	-2.2177526154817
Schwarz information criterion:	-1.9635979482109
Hannan-Quinn information criterion:	-2.11452599390423

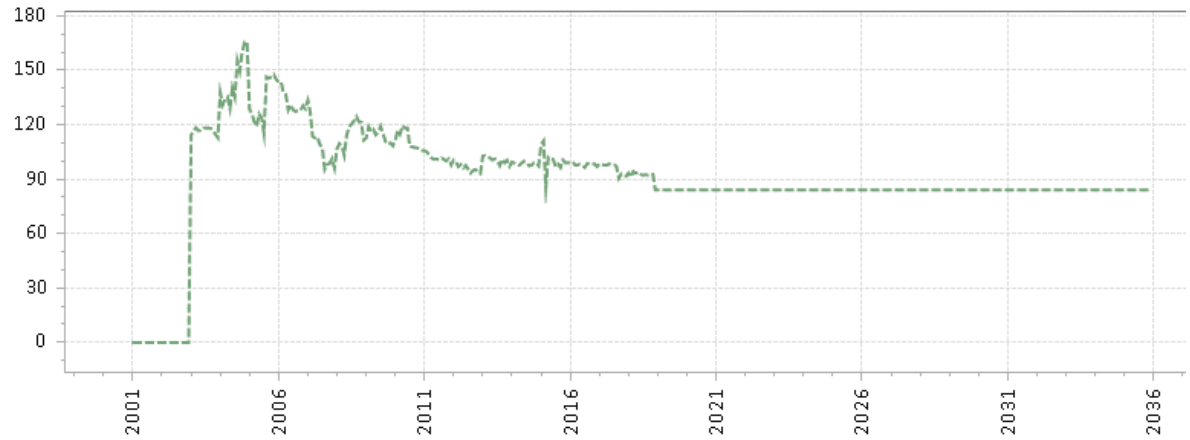
Consumo Otros



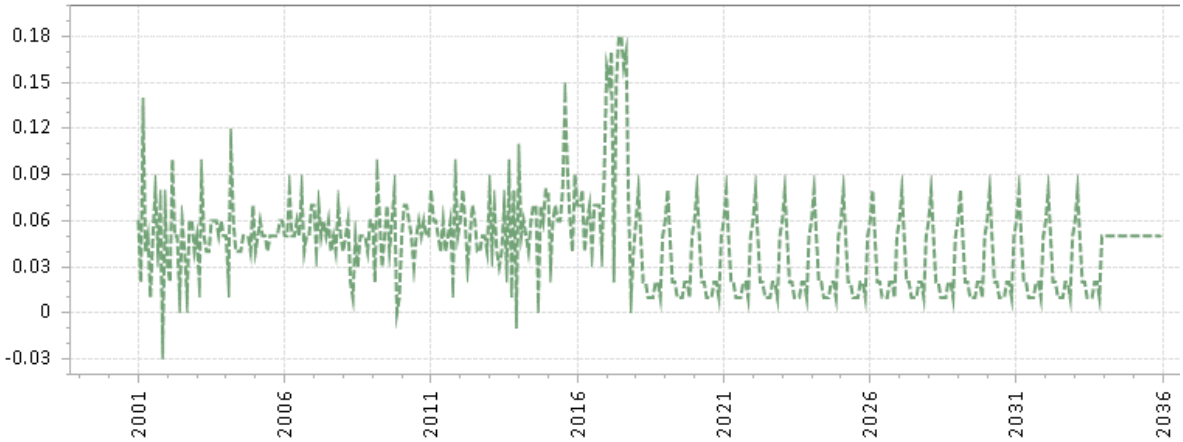


Año	Mes	Consumo Otros [MWh]	Tasa [%]
2001	1	0.000	0.000
2001	2	320.000	0.000
2001	3	310.000	-3.130
2001	4	350.000	12.900
2001	5	390.000	11.430
2001	6	370.000	-5.130
2001	7	370.000	0.000

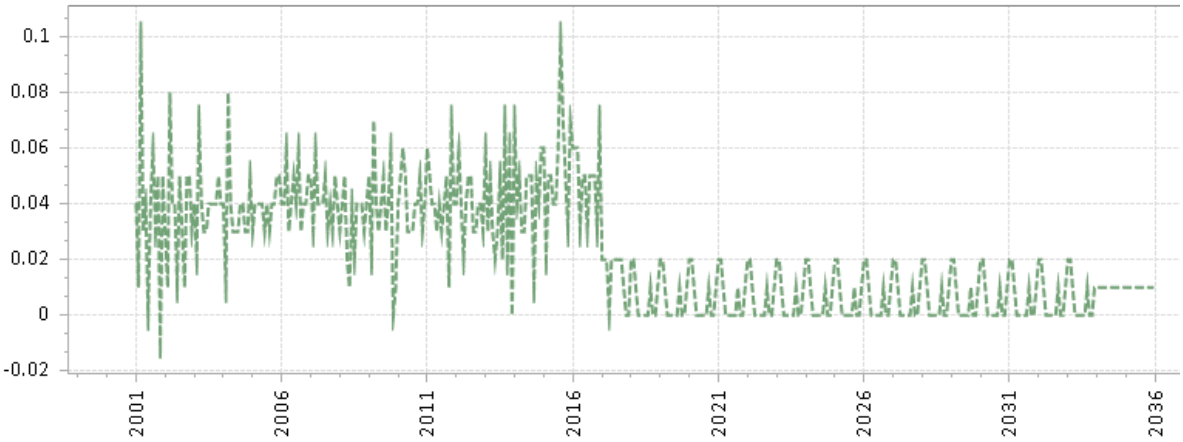
Tarifa media de la distribuidora real



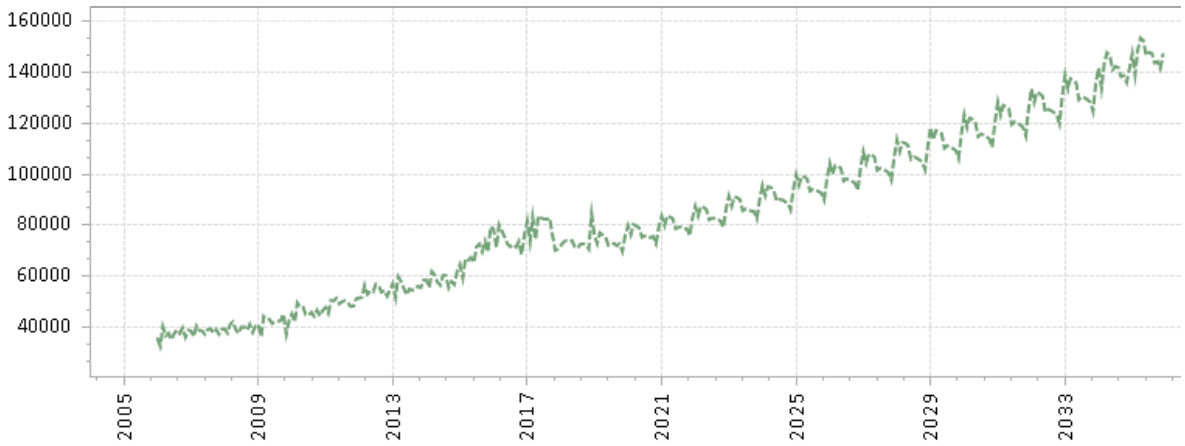
Pérdidas técnicas



Pérdidas no técnicas

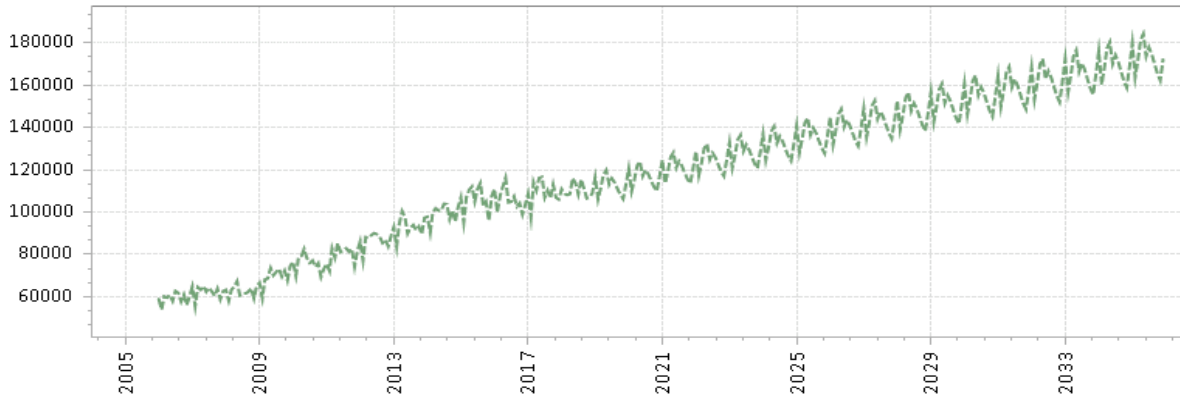


Consumo Total



EDEMET

Consumo Residencial



Variable Dependiente: CRES

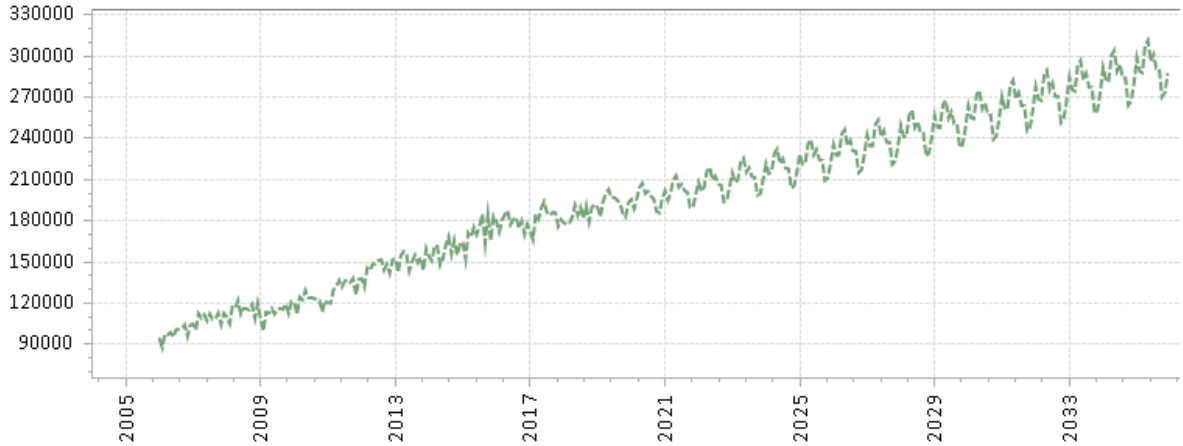
Estadistico - F =	366.995499653071
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.968550319240446
R-Squared Ajustado =	0.965911185190694

Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	4.87	0.099	48.917	0
log(PIB)	0.839	0.012	65.419	0
@seas(2)	-0.095	0.016	-5.809	0
@seas(3)	-0.051	0.016	-3.153	0.001
@seas(4)	0.003	0.016	0.183	0.854
@seas(5)	0.016	0.016	1.024	0.307
@seas(6)	-0.043	0.016	-2.623	0.009
@seas(7)	-0.021	0.016	-1.309	0.192
@seas(8)	-0.041	0.016	-2.526	0.012
@seas(9)	-0.071	0.016	-4.319	0
@seas(10)	-0.099	0.016	-5.992	0
@seas(11)	-0.12	0.016	-7.304	0
@seas(12)	-0.063	0.016	-3.829	0

Indicadores de bondad estadísticos:

Root Mean Squared Error:	3296.35659445982
Mean Absolute Error:	2630.74140858222
Mean Absolute Percent Error:	3.16320325983052
Theil Inequality Coefficient:	0.0186914542486927
Covariance Proportion:	342024298.786467
Akaike information criterion:	-3.42622367956383
Schwarz information criterion:	-3.17206901229303
Hannan-Quinn information criterion:	-3.32299705798636
Durbin-Watson statistic:	0.740059727781883
Log-Likehood:	280.245447005979

Consumo Comercial



Variable Dependiente: CCOM

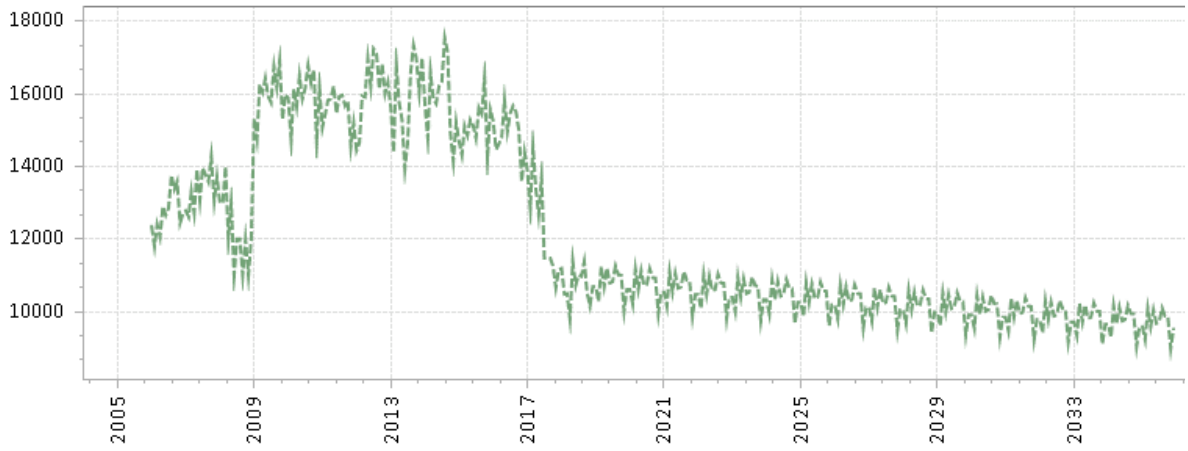
Estadistico - F =	268.262646160446
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.964062729446503
R-Squared Ajustado =	0.960469002391153

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.996	0.223	8.924	0
LOG(PIBCOM)	0.301	0.038	7.938	0
LOG(CCOM(-12))	0.676	0.034	19.742	0
@seas(2)	-0.011	0.015	-0.719	0.473
@seas(3)	-0.013	0.015	-0.835	0.405
@seas(4)	0.007	0.015	0.47	0.638
@seas(5)	0.01	0.015	0.682	0.496
@seas(6)	-0.006	0.015	-0.386	0.699
@seas(7)	-0.001	0.015	-0.072	0.942
@seas(8)	-0.013	0.015	-0.835	0.405
@seas(9)	-0.013	0.015	-0.878	0.381
@seas(10)	-0.038	0.016	-2.314	0.022
@seas(11)	-0.035	0.016	-2.127	0.035
@seas(12)	-0.02	0.016	-1.254	0.212

Indicadores de bondad estadísticos:

Root Mean Squared Error:	5501.40109058063
Mean Absolute Error:	4222.99297382372
Mean Absolute Percent Error:	2.87939963227199
Theil Inequality Coefficient:	0.0183690297998418
Covariance Proportion:	751793076.049171
Akaike information criterion:	-3.5771709344378
Schwarz information criterion:	-3.28843908586792
Hannan-Quinn information criterion:	-3.45984660339678
Durbin-Watson statistic:	0.912303859668477
Log-Likehood:	271.556307279522

Consumo Industrial



Variable Dependiente: CIND

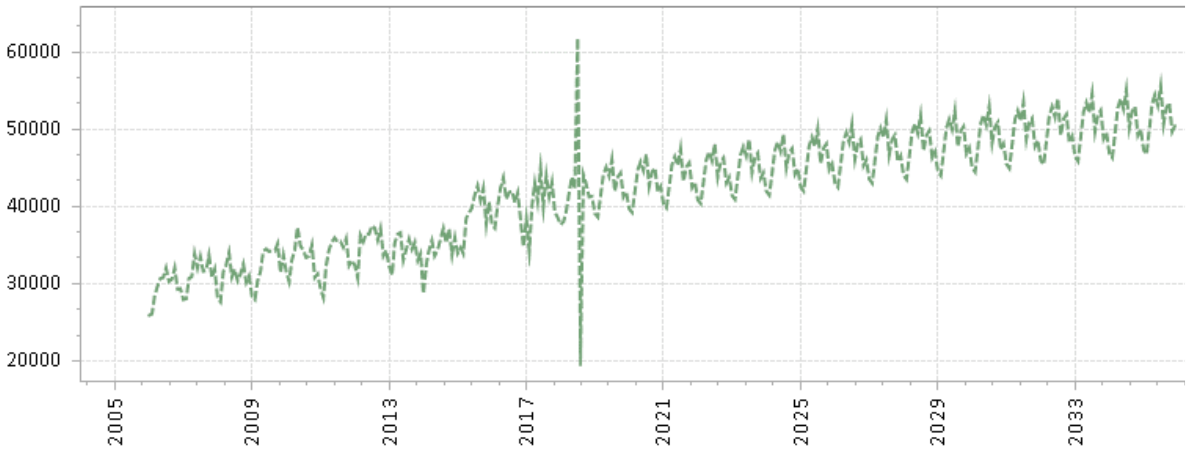
Estadistico - F =	1.15130301667873
Probabilidad Estadistico - F =	0.32413123450775400000
R-Squared =	0.0881011392416999
R-Squared Ajustado =	0.011578157919325

Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	10.673	0.411	25.956	0
LOG(PIBIND)	-0.226	0.083	-2.722	0.007
@seas(2)	-0.037	0.055	-0.687	0.493
@seas(3)	0.052	0.055	0.937	0.35
@seas(4)	0.001	0.055	0.027	0.978
@seas(5)	0.049	0.055	0.888	0.375
@seas(6)	0.012	0.055	0.225	0.822
@seas(7)	0.016	0.055	0.298	0.765
@seas(8)	0.056	0.055	1.011	0.313
@seas(9)	0.034	0.055	0.626	0.531
@seas(10)	0.034	0.055	0.621	0.535
@seas(11)	-0.059	0.055	-1.078	0.282
@seas(12)	0	0.055	-0.012	0.989

Indicadores de bondad estadísticos:

Root Mean Squared Error:	1853.46002101614
Mean Absolute Error:	1669.72939430572
Mean Absolute Percent Error:	11.7310791658842
Theil Inequality Coefficient:	0.064434613884492
Covariance Proportion:	323699.838599087
Akaike information criterion:	-1.00074235754145
Schwarz information criterion:	-0.746587690270658
Hannan-Quinn information criterion:	-0.897515735963982
Durbin-Watson statistic:	0.138377232878394
Log-Likehood:	91.0579038882333

Consumo Gobierno



Variable Dependiente: CGOB

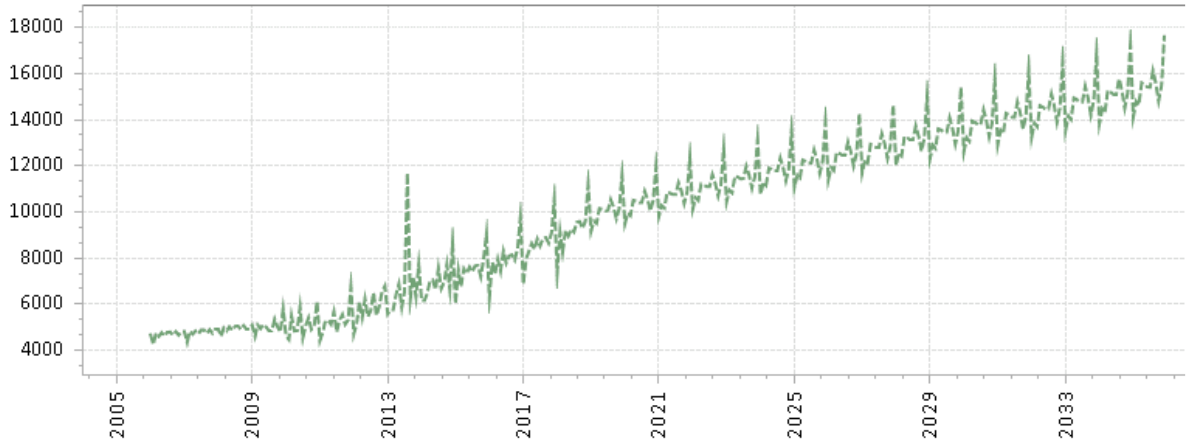
Estadistico - F =	25.1633972847347
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.678623351829028
R-Squared Ajustado =	0.651654682052443

Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	7.516	0.191	39.353	0
LOG(PIB)	0.368	0.024	14.972	0
@seas(2)	-0.013	0.031	-0.416	0.677
@seas(3)	0.049	0.031	1.561	0.12
@seas(4)	0.115	0.031	3.658	0
@seas(5)	0.137	0.031	4.344	0
@seas(6)	0.11	0.031	3.512	0
@seas(7)	0.156	0.031	4.945	0
@seas(8)	0.062	0.031	1.963	0.051
@seas(9)	0.103	0.031	3.282	0.001
@seas(10)	0.114	0.031	3.595	0
@seas(11)	0.04	0.031	1.293	0.197
@seas(12)	0.056	0.031	1.774	0.078

Indicadores de bondad estadísticos:

Root Mean Squared Error:	2830.04400743262
Mean Absolute Error:	1668.83350665332
Mean Absolute Percent Error:	4.58201396856742
Theil Inequality Coefficient:	0.0400655324032018
Covariance Proportion:	15489689.9122946
Akaike information criterion:	-2.12315508056619
Schwarz information criterion:	-1.86900041329539
Hannan-Quinn information criterion:	-2.01992845898872
Durbin-Watson statistic:	2.15628733542432
Log-Likehood:	178.606096284163

Consumo alumbrado



Variable Dependiente: CALP

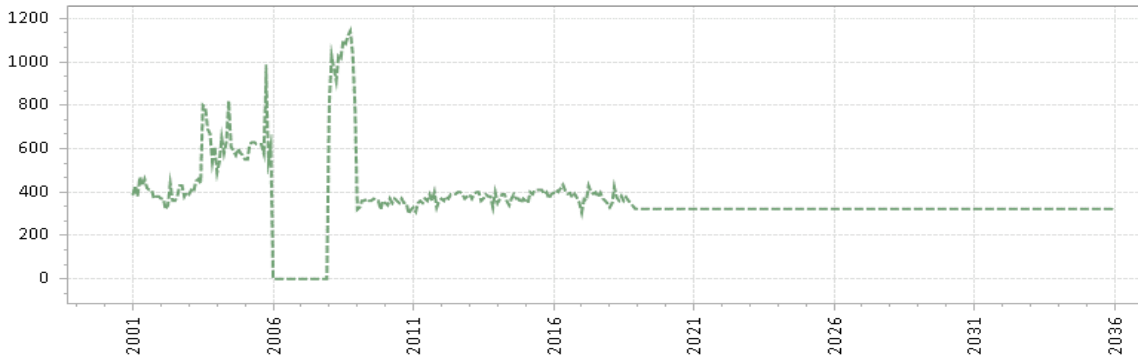
Estadistico - F =	64.5769437571697
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.844213567634751
R-Squared Ajustado =	0.831140580303402

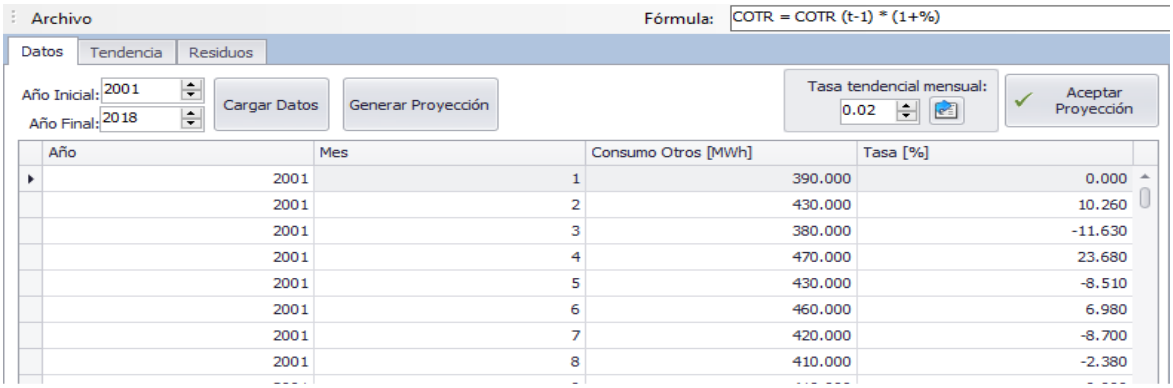
Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	2.162	0.242	8.903	0
LOG(PIB)	0.835	0.031	26.681	0
@seas(2)	0.043	0.04	1.095	0.274
@seas(3)	0.031	0.04	0.773	0.44
@seas(4)	0.093	0.04	2.326	0.021
@seas(5)	0.087	0.04	2.173	0.031
@seas(6)	0.078	0.04	1.953	0.052
@seas(7)	0.076	0.04	1.898	0.059
@seas(8)	0.119	0.04	2.966	0.003
@seas(9)	0.083	0.04	2.085	0.038
@seas(10)	0.031	0.04	0.786	0.432
@seas(11)	0.073	0.04	1.832	0.069
@seas(12)	0.201	0.04	5.002	0

Indicadores de bondad estadísticos:

Root Mean Squared Error:	674.325007431524
Mean Absolute Error:	488.001710569569
Mean Absolute Percent Error:	7.74679670477562
Theil Inequality Coefficient:	0.0516834535255677
Covariance Proportion:	2135218.13110181
Akaike information criterion:	-1.64232380312282
Schwarz information criterion:	-1.38816913585202
Hannan-Quinn information criterion:	-1.53909718154535
Durbin-Watson statistic:	1.20604000360677
Log-Likehood:	141.10125664358

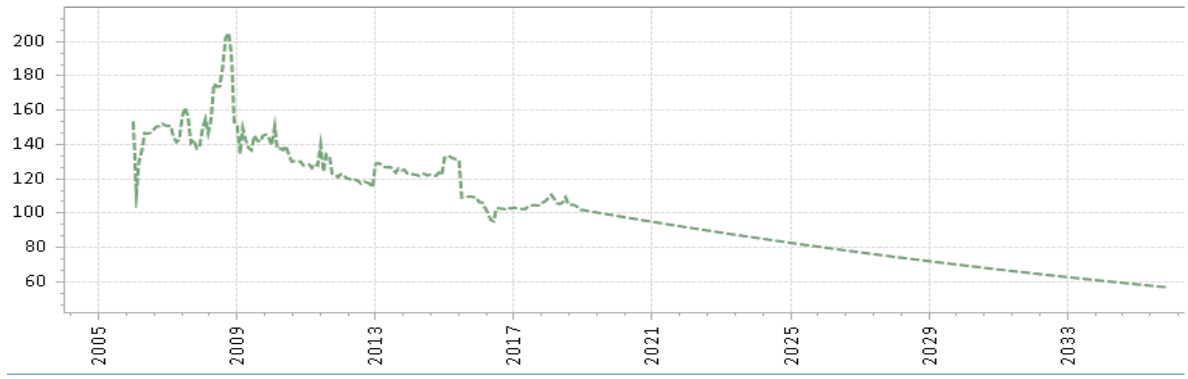
Consumo Otros



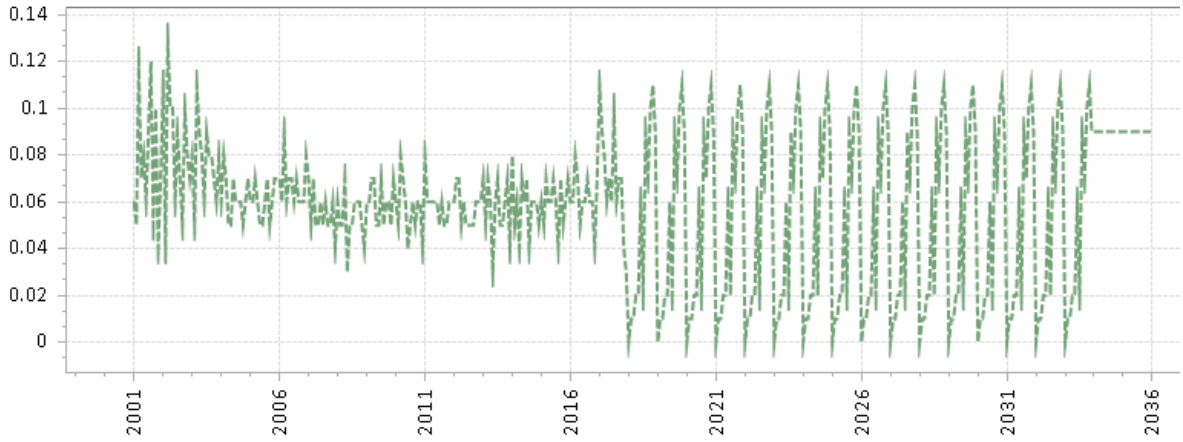


Año	Mes	Consumo Otros [MWh]	Tasa [%]
2001	1	390.000	0.000
2001	2	430.000	10.260
2001	3	380.000	-11.630
2001	4	470.000	23.680
2001	5	430.000	-8.510
2001	6	460.000	6.980
2001	7	420.000	-8.700
2001	8	410.000	-2.380

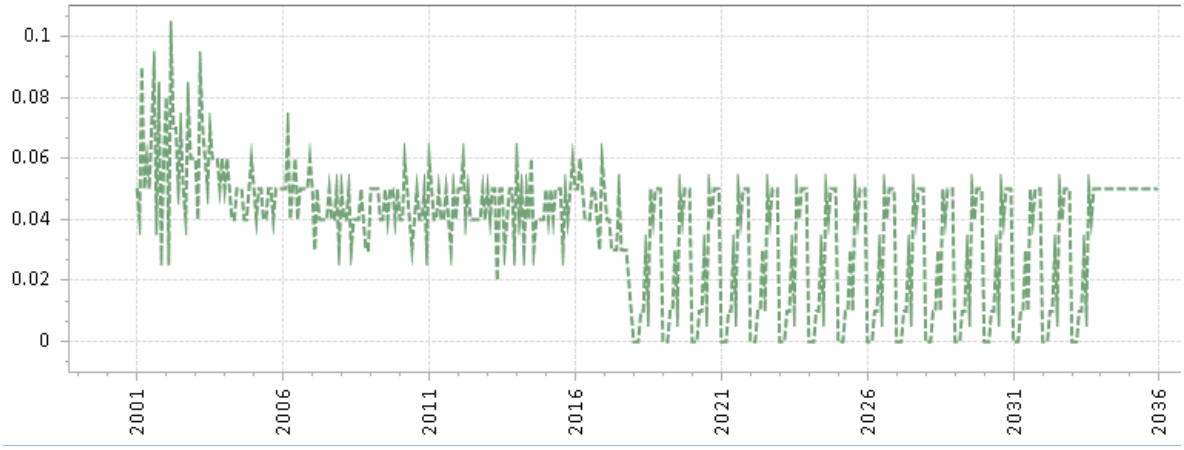
Tarifa media de la distribuidora real



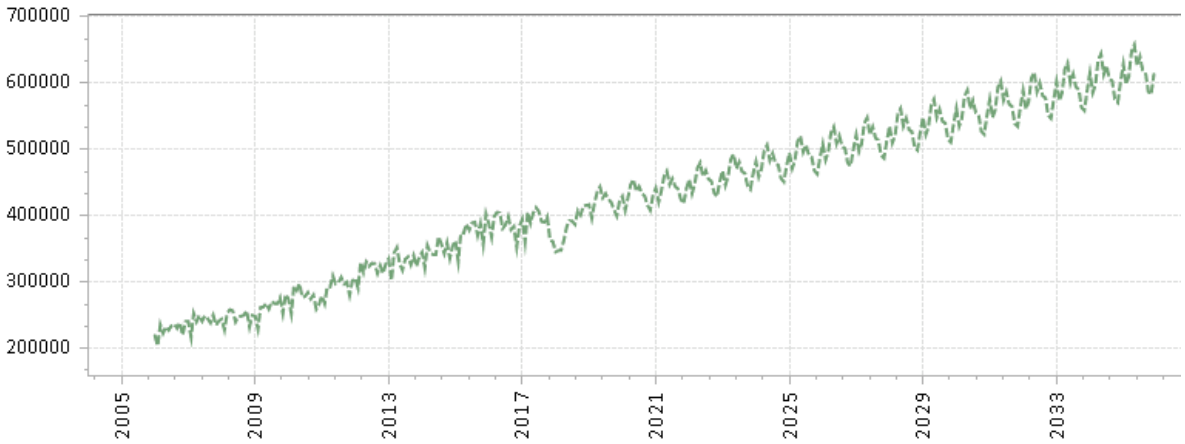
Pérdidas técnicas



Pérdidas no técnicas

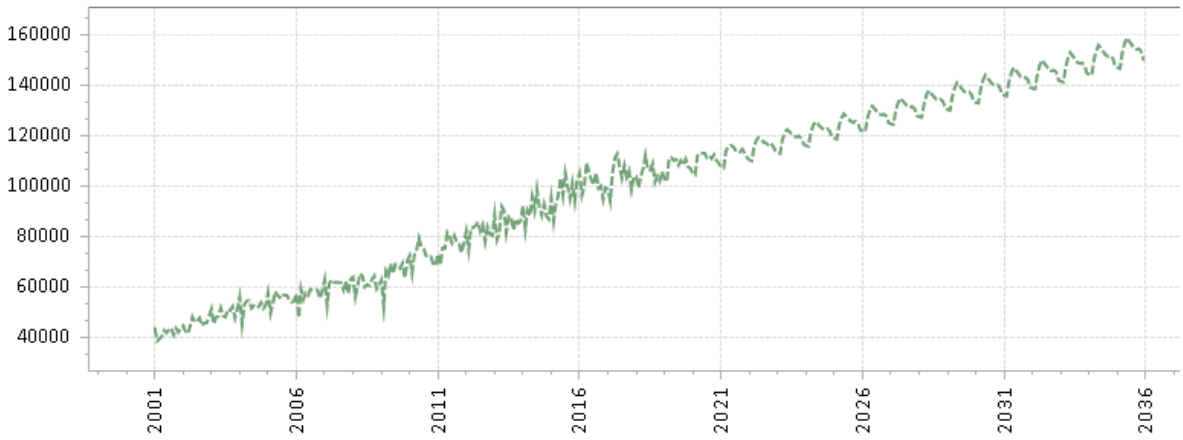


Consumo Total



ENSA

Consumo Residencial



Variable Dependiente: CRES

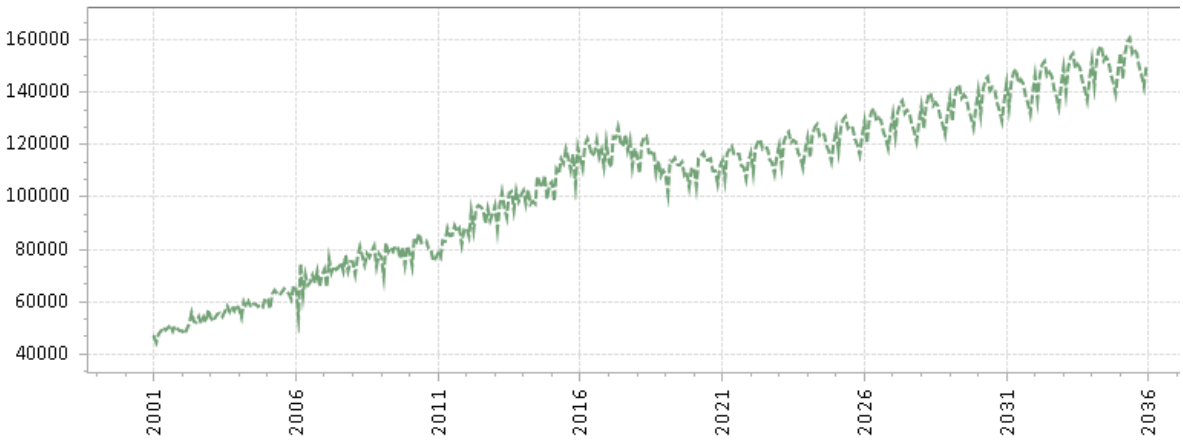
Estadistico - F =	2607.38765491851
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.981276845063744
R-Squared Ajustado =	0.980900500240904

Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	-0.076	0.39	-0.195	0.845
log(PIB)	0.247	0.034	7.204	0
log(CRES(-12))	0.615	0.044	13.834	0
log(TEMPMAX)	0.223	0.094	2.382	0.018
log(TEMPMIN)	0.573	0.108	5.259	0

Indicadores de bondad estadísticos:

Root Mean Squared Error:	3374.6800328642
Mean Absolute Error:	2541.40180762273
Mean Absolute Percent Error:	3.45525644172086
Theil Inequality Coefficient:	0.0218893270048651
Covariance Proportion:	387579901.814794
Akaike information criterion:	-3.69111081874028
Schwarz information criterion:	-3.60978434830292
Hannan-Quinn information criterion:	-3.6582127865695 6
Durbin-Watson statistic:	1.61847665648791
Log-Likehood:	381.493303511509

Consumo Comercial



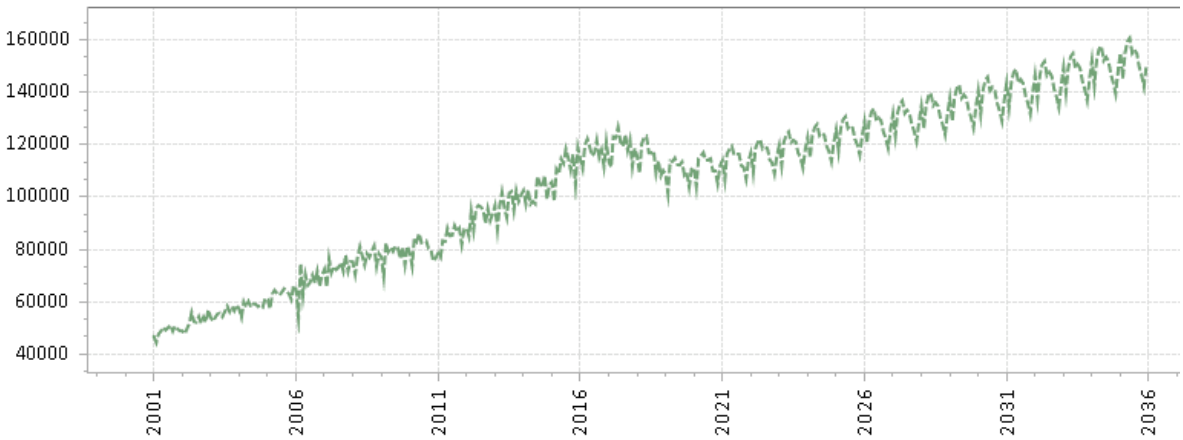
Variable Dependiente: CCOM

Estadistico - F =	704.850269527394
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.979685778561871
R-Squared Ajustado =	0.978295858147683

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	2.14	0.21	10.194	0
LOG(PIBCOM)	0.222	0.027	8.124	0
LOG(CCOM(-12))	0.694	0.032	21.627	0
@seas(2)	-0.02	0.013	-1.505	0.133
@seas(3)	-0.001	0.013	-0.103	0.917
@seas(4)	0.006	0.013	0.515	0.606
@seas(5)	0.008	0.013	0.659	0.51
@seas(6)	-0.002	0.013	-0.201	0.84
@seas(7)	0	0.013	-0.03	0.975
@seas(8)	-0.004	0.013	-0.3	0.764
@seas(9)	-0.014	0.013	-1.095	0.274
@seas(10)	-0.021	0.013	-1.596	0.111
@seas(11)	-0.031	0.013	-2.286	0.023
@seas(12)	-0.014	0.013	-1.035	0.301

Indicadores de bondad estadísticos:

Root Mean Squared Error:	3789.41033640458
Mean Absolute Error:	2843.00894232327
Mean Absolute Percent Error:	3.19484731638681
Theil Inequality Coefficient:	0.0215871791388535
Covariance Proportion:	466357749.558428
Akaike information criterion:	-3.57129862812761
Schwarz information criterion:	-3.34358451090301
Hannan-Quinn information criterion:	-3.47918413804959
Durbin-Watson statistic:	1.31947942925355
Log-Likehood:	378.272460069016



Variable Dependiente: CCOM

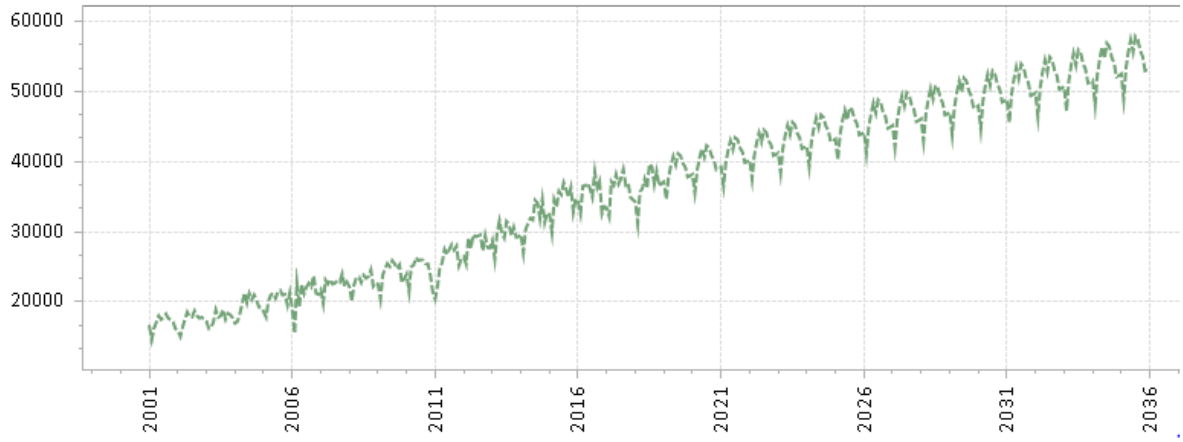
Estadistico - F =	704.850269527394
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.979685778561871
R-Squared Ajustado =	0.978295858147683

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	2.14	0.21	10.194	0
LOG(PIBCOM)	0.222	0.027	8.124	0
LOG(CCOM(-12))	0.694	0.032	21.627	0
@seas(2)	-0.02	0.013	-1.505	0.133
@seas(3)	-0.001	0.013	-0.103	0.917
@seas(4)	0.006	0.013	0.515	0.606
@seas(5)	0.008	0.013	0.659	0.51
@seas(6)	-0.002	0.013	-0.201	0.84
@seas(7)	0	0.013	-0.03	0.975
@seas(8)	-0.004	0.013	-0.3	0.764
@seas(9)	-0.014	0.013	-1.095	0.274
@seas(10)	-0.021	0.013	-1.596	0.111
@seas(11)	-0.031	0.013	-2.286	0.023
@seas(12)	-0.014	0.013	-1.035	0.301

Indicadores de bondad estadísticos:

Root Mean Squared Error:	3789.41033640458
Mean Absolute Error:	2843.00894232327
Mean Absolute Percent Error:	3.19484731638681
Theil Inequality Coefficient:	0.0215871791388535
Covariance Proportion:	466357749.558428
Akaike information criterion:	-3.57129862812761
Schwarz information criterion:	-3.34358451090301
Hannan-Quinn information criterion:	-3.47918413804959
Durbin-Watson statistic:	1.31947942925355
Log-Likehood:	378.272460069016

Consumo Gobierno



Variable Dependiente: CGOB

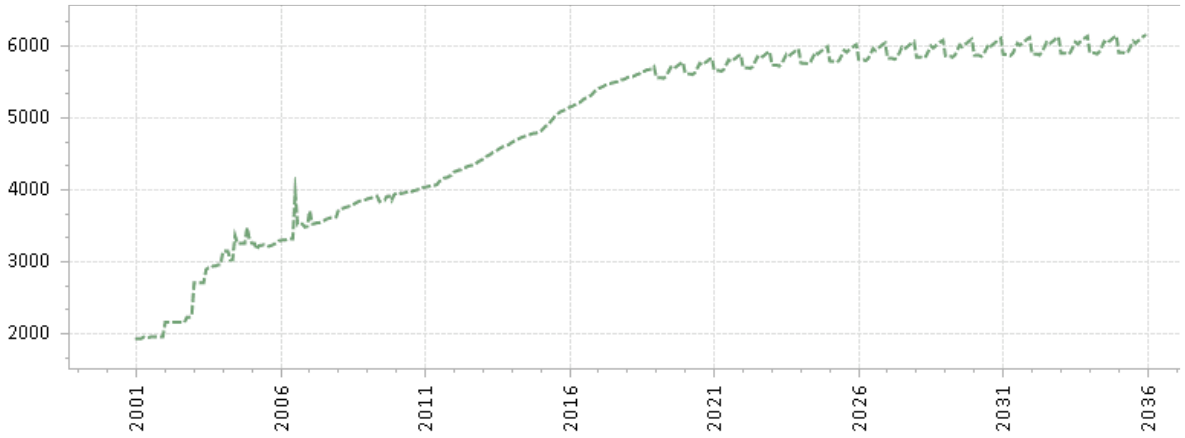
Estadistico - F =	529.235810426402
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.969025743952116
R-Squared Ajustado =	0.967194753446823

Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	5.039	0.065	76.981	0
LOG(PIB)	0.667	0.008	77.81	0
@seas(2)	-0.072	0.015	-4.59	0
@seas(3)	0.01	0.015	0.694	0.488
@seas(4)	0.053	0.015	3.371	0
@seas(5)	0.082	0.015	5.239	0
@seas(6)	0.051	0.015	3.233	0.001
@seas(7)	0.088	0.015	5.593	0
@seas(8)	0.079	0.015	4.991	0
@seas(9)	0.049	0.015	3.127	0.002
@seas(10)	0.033	0.015	2.142	0.033
@seas(11)	-0.005	0.015	-0.324	0.745
@seas(12)	-0.003	0.015	-0.213	0.831

Indicadores de bondad estadísticos:

Root Mean Squared Error:	1202.95729557804
Mean Absolute Error:	958.080744008428
Mean Absolute Percent Error:	3.66944489215556
Theil Inequality Coefficient:	0.0225231352251267
Covariance Proportion:	43207839.8497311
Akaike information criterion:	-3.19981001407572
Schwarz information criterion:	-2.99666825805769
Hannan-Quinn information criterion:	-3.11774024738257
Durbin-Watson statistic:	0.818269179059302
Log-Likehood:	358.579481520178

Consumo alumbrado



Variable Dependiente: CALP

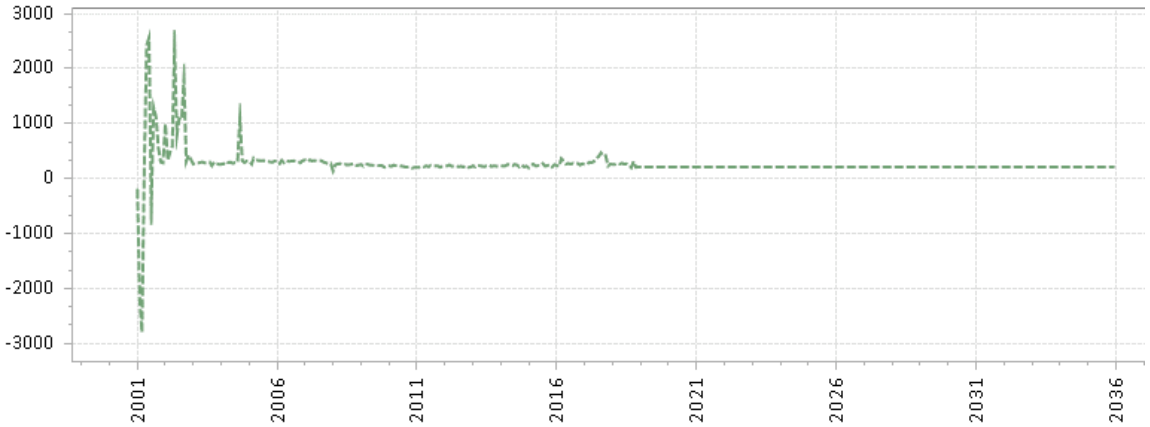
Estadistico - F =	390.269129651714
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.960814319922229
R-Squared Ajustado =	0.958352392378076

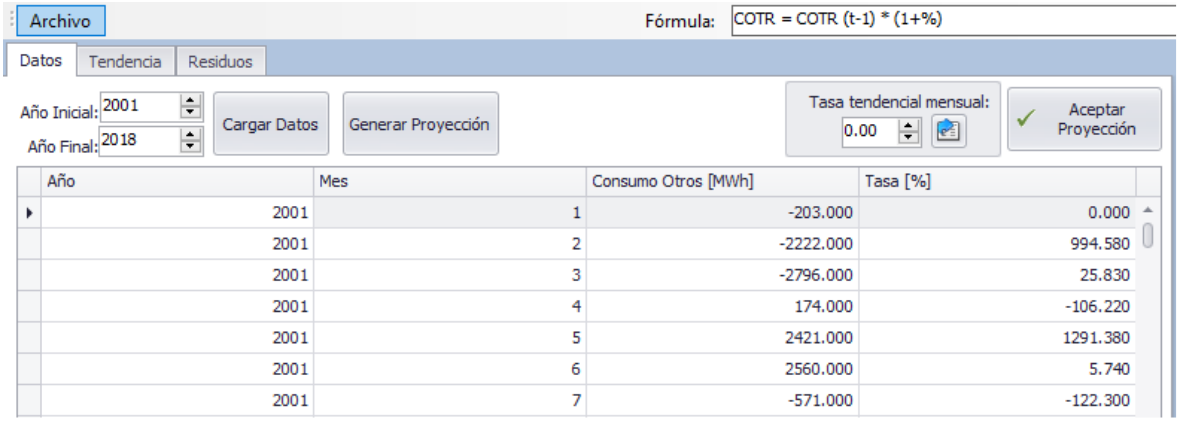
Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	1.237	0.103	11.936	0
LOG(CALP(-12))	0.856	0.012	68.319	0
@seas(2)	0	0.017	-0.003	0.997
@seas(3)	0	0.017	-0.002	0.997
@seas(4)	0	0.017	-0.023	0.98
@seas(5)	0	0.017	0.021	0.983
@seas(6)	0.002	0.017	0.121	0.903
@seas(7)	0.003	0.017	0.22	0.826
@seas(8)	0.003	0.017	0.178	0.858
@seas(9)	0.003	0.017	0.223	0.823
@seas(10)	0.004	0.017	0.259	0.795
@seas(11)	0.005	0.017	0.302	0.762
@seas(12)	0.005	0.017	0.331	0.74

Indicadores de bondad estadísticos:

Root Mean Squared Error:	270.777905320786
Mean Absolute Error:	235.333401226064
Mean Absolute Percent Error:	5.7531431201922
Theil Inequality Coefficient:	0.0320366166024641
Covariance Proportion:	848166.10606773
Akaike information criterion:	-3.09572143638526
Schwarz information criterion:	-2.88427261324813
Hannan-Quinn information criterion:	-3.01018655274138

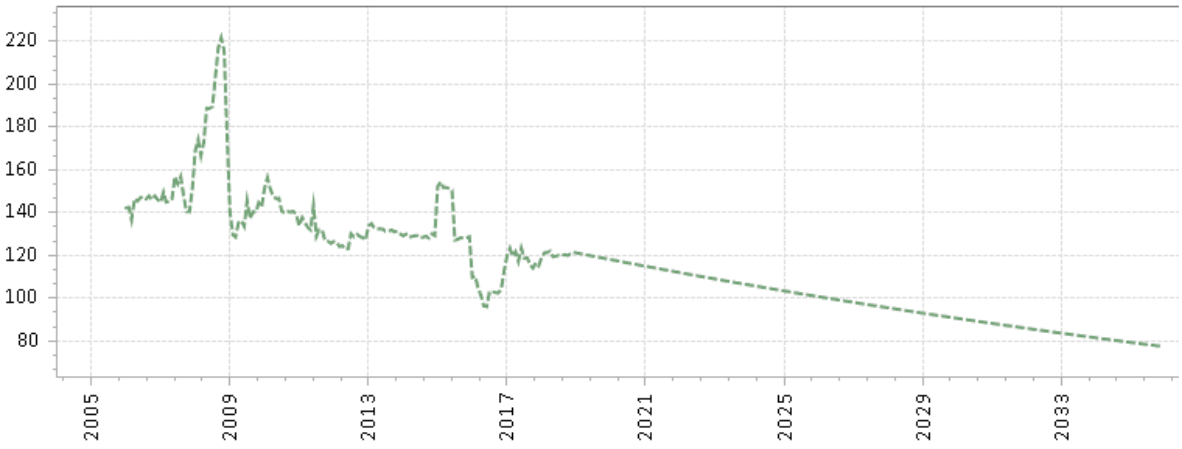
Consumo Otros



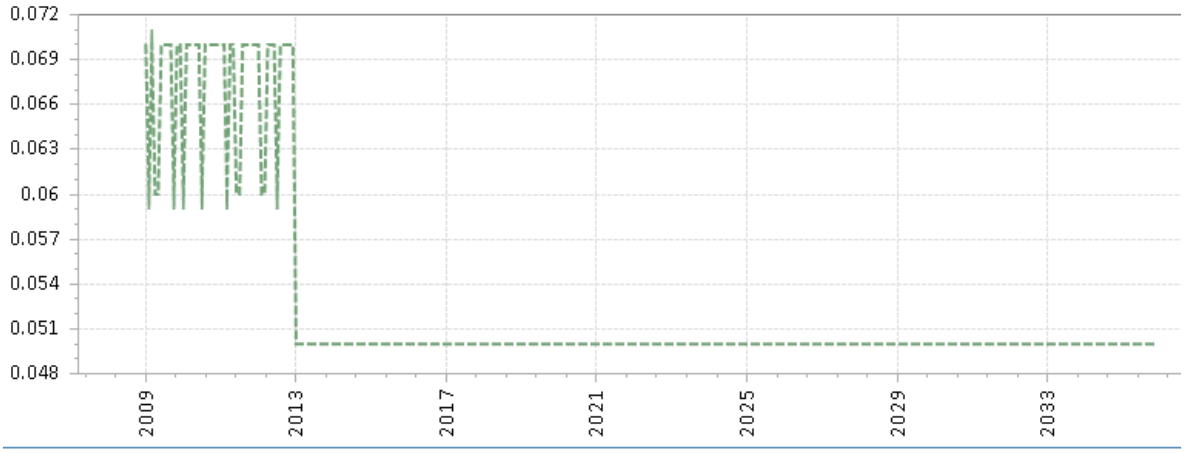


Año	Mes	Consumo Otros [MWh]	Tasa [%]
2001	1	-203.000	0.000
2001	2	-2222.000	994.580
2001	3	-2796.000	25.830
2001	4	174.000	-106.220
2001	5	2421.000	1291.380
2001	6	2560.000	5.740
2001	7	-571.000	-122.300

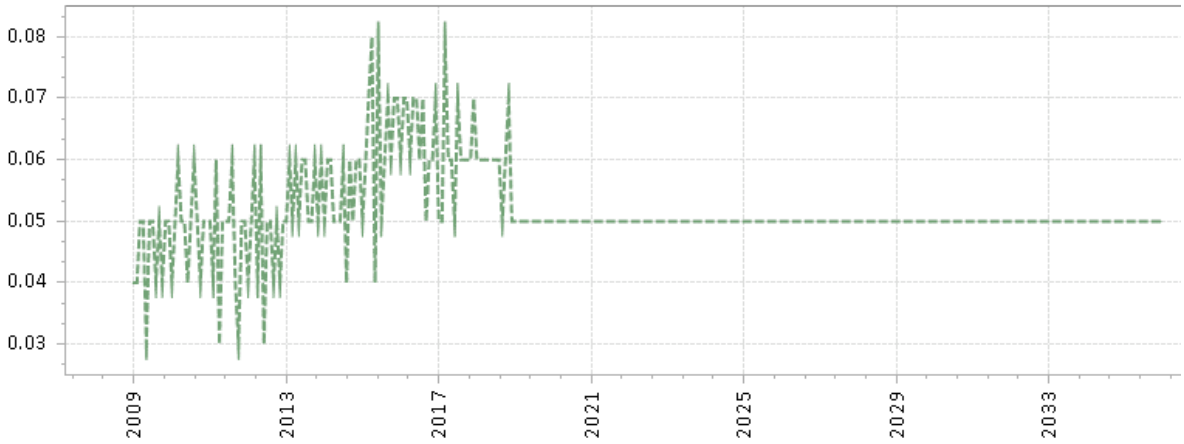
Tarifa media de la distribuidora real



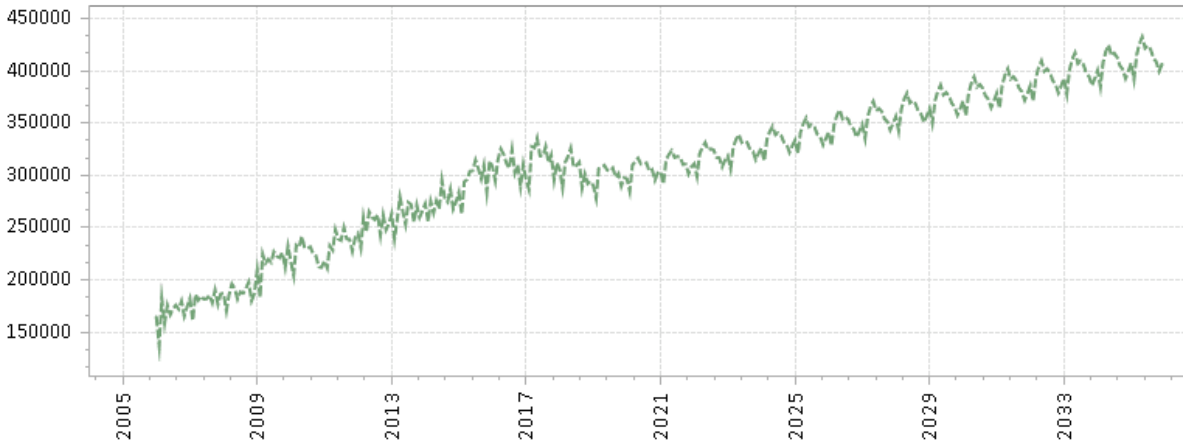
Pérdidas técnicas



Pérdidas no técnicas

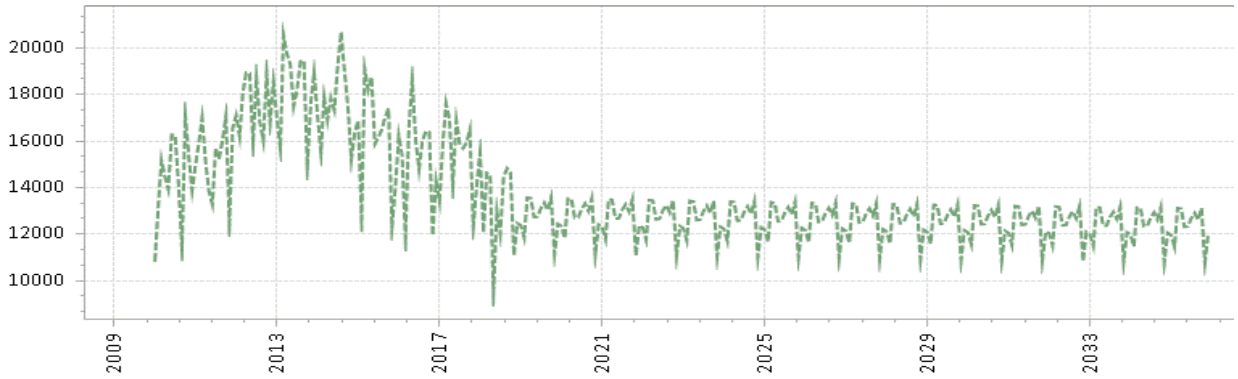


Consumo Total



GRANDES USUARIOS

Alta Tensión



Variable Dependiente: GU_AT

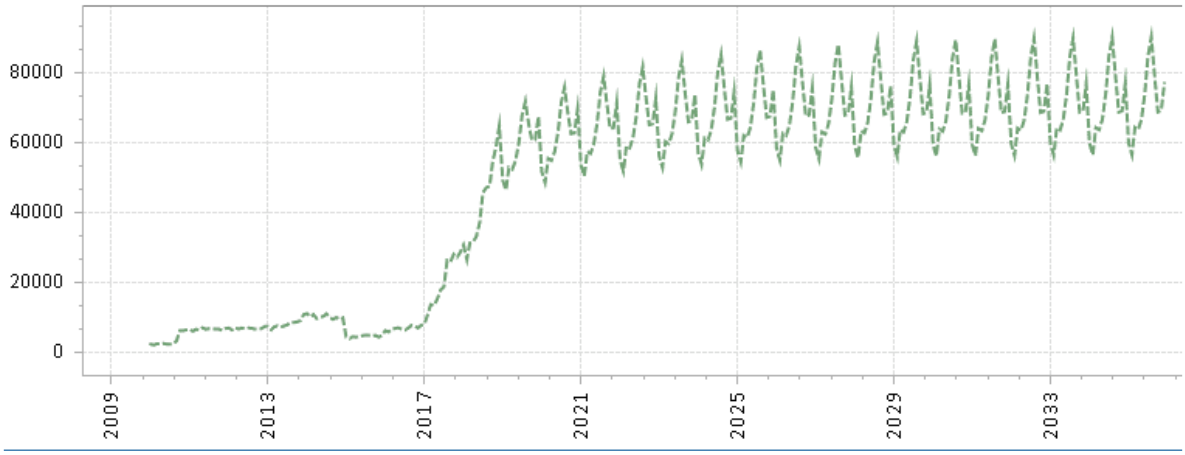
Estadistico - F =	1.38439029028088
Probabilidad Estadistico - F =	0.186898588647652000000
R-Squared =	0.148842254884461
R-Squared Ajustado =	0.0413275923435513

Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	10.15	0.704	14.404	0
log(PIB)	-0.065	0.089	-0.731	0.466
@seas(2)	-0.043	0.069	-0.627	0.531
@seas(3)	0.091	0.07	1.311	0.192
@seas(4)	0.09	0.069	1.298	0.197
@seas(5)	0.028	0.069	0.415	0.678
@seas(6)	0.03	0.069	0.436	0.663
@seas(7)	0.058	0.069	0.839	0.403
@seas(8)	0.076	0.069	1.096	0.275
@seas(9)	0.052	0.069	0.758	0.45
@seas(10)	0.093	0.07	1.321	0.189
@seas(11)	-0.103	0.069	-1.479	0.142
@seas(12)	0.007	0.07	0.1	0.92

Indicadores de bondad estadísticos:

Root Mean Squared Error:	2098.91790006356
Mean Absolute Error:	1690.4146383047
Mean Absolute Percent Error:	10.7933632914396
Theil Inequality Coefficient:	0.0658803241893755
Covariance Proportion:	772231.346014005
Akaike information criterion:	-0.877413373420817
Schwarz information criterion:	-0.554564244229939
Hannan-Quinn information criterion:	-0.746509777923306
Durbin-Watson statistic:	0.940135633503981
Log-Likehood:	60.3803221647241

Baja Tensión



Variable Dependiente: GU_BT

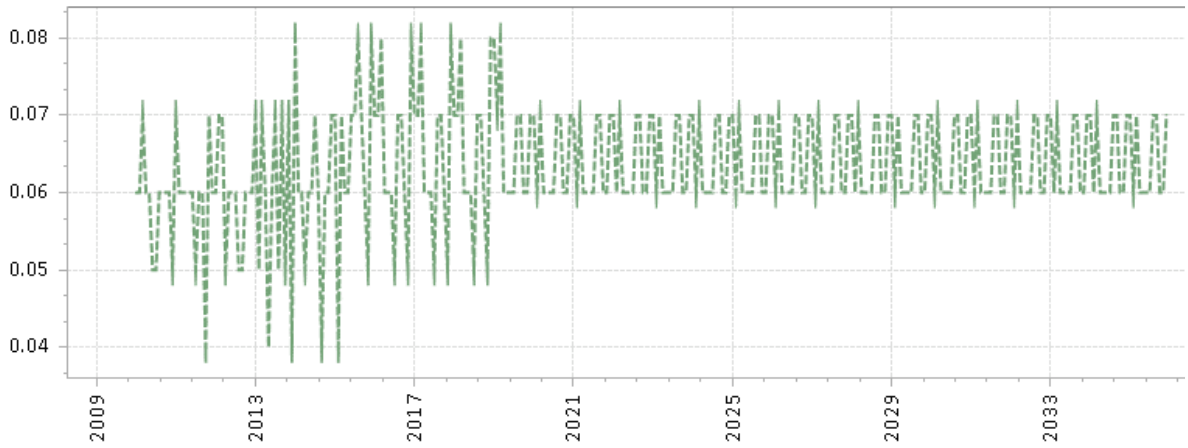
Estadistico - F =	3.75959461055013
Probabilidad Estadistico - F =	0.00014829486304995900
R-Squared =	0.352145241946554
R-Squared Ajustado =	0.258479493794248

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	2.376	1.057	2.246	0.027
LOG(GU_BT(-12))	0.763	0.118	6.451	
@seas(2)	-0.013	0.288	-0.046	0.963
@seas(3)	0.017	0.288	0.058	0.953
@seas(4)	0.014	0.288	0.051	0.959
@seas(5)	0.025	0.289	0.087	0.93
@seas(6)	0.049	0.289	0.172	0.863
@seas(7)	0.081	0.289	0.282	0.778
@seas(8)	0.096	0.289	0.333	0.739
@seas(9)	0.065	0.289	0.225	0.822
@seas(10)	0.032	0.291	0.111	0.911
@seas(11)	0.033	0.29	0.115	0.908
@seas(12)	0.059	0.291	0.202	0.84

Indicadores de bondad estadísticos:

Root Mean Squared Error:	10345.312882247
Mean Absolute Error:	7235.79590766159
Mean Absolute Percent Error:	43.4141058958423
Theil Inequality Coefficient:	0.301967061149325
Covariance Proportion:	47241657.859456
Akaike information criterion:	1.86520287380689
Schwarz information criterion:	2.21245835806816
Hannan-Quinn information criterion:	2.00556921462562

Pérdidas Técnicas



Variable Dependiente: PERT_GU

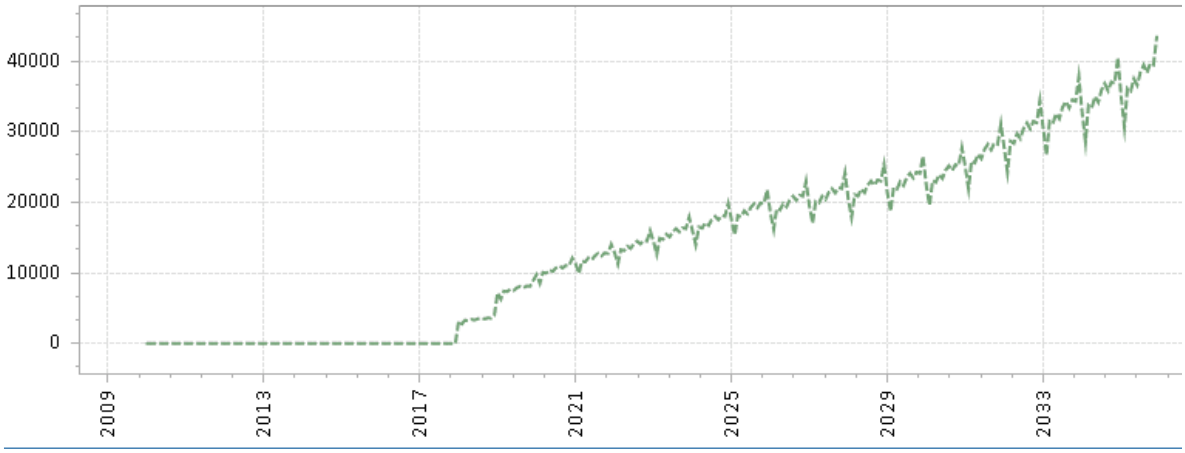
Estadistico - F =	2.90824522371572
Probabilidad Estadistico - F =	0.00210402284736179000
R-Squared =	0.296007257486207
R-Squared Ajustado =	0.194225174231201

Variable	Coefficient	Std. Error	t-Statistic	Prob.
PERT_GU(-12)	0.228	0.107	2.139	0.035
c	0.054	0.008	6.773	0
@seas(2)	-0.006	0.004	-1.475	0.143
@seas(3)	0	0.004	0.215	0.83
@seas(4)	-0.009	0.004	-2.141	0.035
@seas(5)	-0.009	0.004	-2.141	0.035
@seas(6)	-0.006	0.004	-1.475	0.143
@seas(7)	-0.008	0.004	-1.947	0.054
@seas(8)	-0.004	0.004	-1.065	0.289
@seas(9)	-0.005	0.004	-1.272	0.206
@seas(10)	-0.01	0.004	-2.331	0.022
@seas(11)	-0.01	0.004	-2.219	0.029
@seas(12)	0	0.004	-0.087	0.93

Indicadores de bondad estadísticos:

Root Mean Squared Error:	0.00845770097852363
Mean Absolute Error:	0.00654264296628438
Mean Absolute Percent Error:	10.5041058272798
Theil Inequality Coefficient:	0.0674081847245419
Covariance Proportion:	2.67601662125617E-05
Akaike information criterion:	-6.4693581169209
Schwarz information criterion:	-6.12210263265963
Hannan-Quinn information criterion:	-6.32899177610217

Consumo del Metro de Panamá



Variable Dependiente: CMETRO

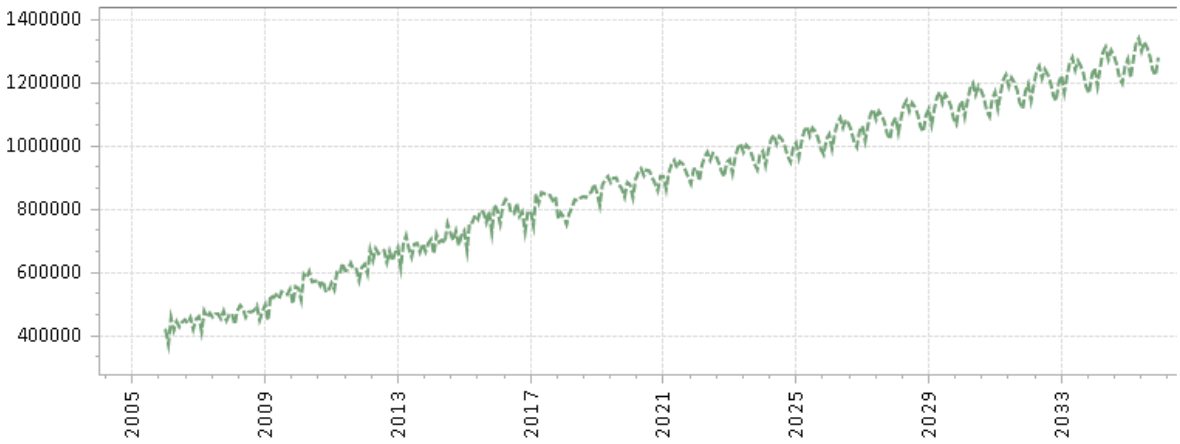
Estadistico - F =	1913.62448556805
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.98867672400488
R-Squared Ajustado =	0.988160072628677

Variable	Coefficient	Std. Error	t-Statistic	Prob.
CMETRO(-12)	1.048	0.006	150.83	0
c	800.432	256.501	3.12	0.002
@seas(2)	-100.406	347.079	-0.289	0.772
@seas(3)	25.229	346.96	0.072	0.942
@seas(4)	16.8	346.956	0.048	0.961
@seas(5)	56.013	346.992	0.161	0.871
@seas(6)	36.074	346.969	0.103	0.917
@seas(7)	77.925	347.029	0.224	0.822
@seas(8)	100.394	347.079	0.289	0.772
@seas(9)	75.81	347.025	0.218	0.827
@seas(10)	106.371	347.095	0.306	0.759
@seas(11)	101.163	347.081	0.291	0.77
@seas(12)	191.757	347.416	0.551	0.581

Indicadores de bondad estadísticos:

Root Mean Squared Error:	3025.18321273035
Mean Absolute Error:	2324.66631718371
Mean Absolute Percent Error:	37.1710351615036
Theil Inequality Coefficient:	0.085967467433375
Covariance Proportion:	109459780.021804
Akaike information criterion:	17.0245574157268
Schwarz information criterion:	17.1950835434599
Hannan-Quinn information criterion:	17.0929866828801

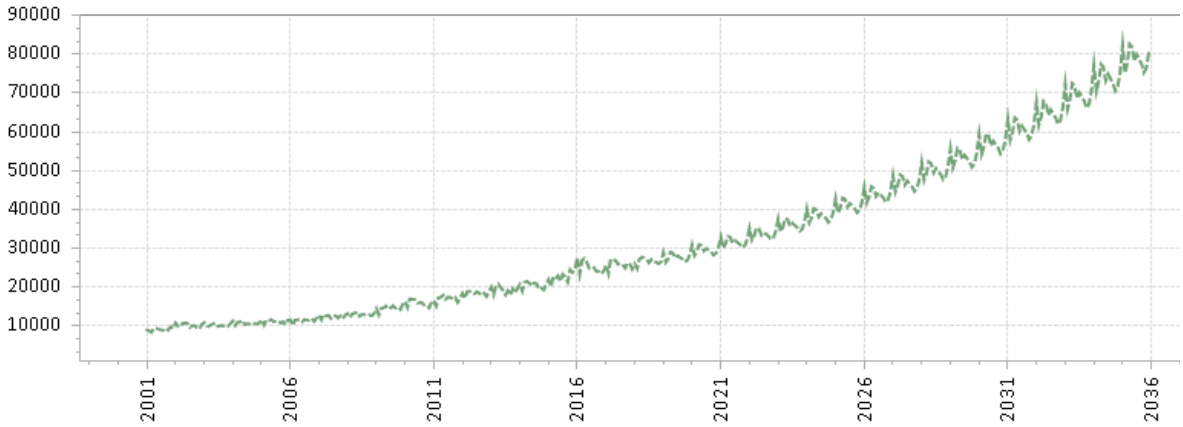
CONSUMO TOTAL DEL PAÍS



Proyección de la Demanda en el escenario Optimista.

EDECHI

Consumo Residencial



Variable Dependiente: CRES

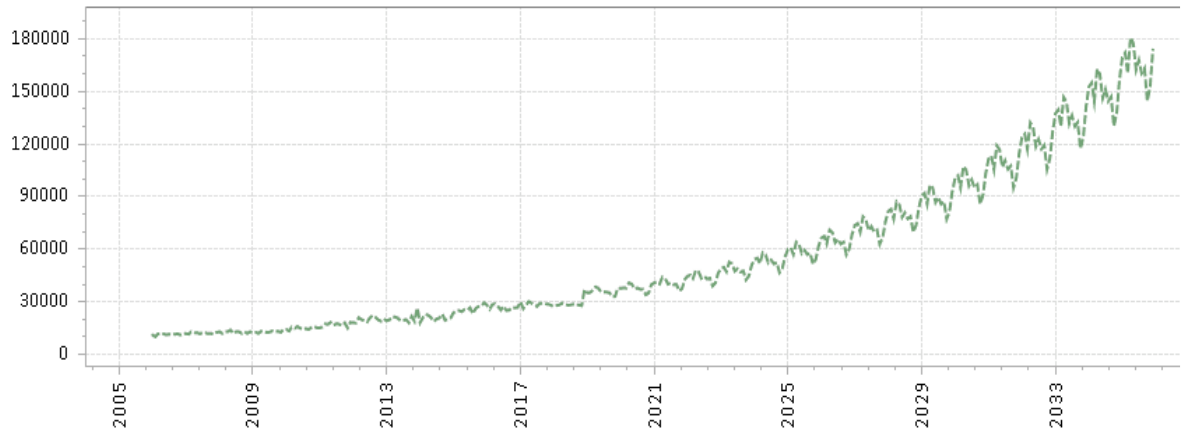
Estadistico - F =	536.158505626322
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.969413440497551
R-Squared Ajustado =	0.967605368014648

Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	2.853	0.086	32.999	0
log(PIB)	0.905	0.011	79.89	0
@seas(2)	-0.096	0.02	-4.635	0
@seas(3)	-0.069	0.02	-3.304	0.001
@seas(4)	-0.012	0.02	-0.609	0.543
@seas(5)	-0.026	0.02	-1.277	0.202
@seas(6)	-0.078	0.02	-3.767	0
@seas(7)	-0.062	0.02	-2.987	0.003
@seas(8)	-0.083	0.02	-4.007	0
@seas(9)	-0.104	0.02	-4.996	0
@seas(10)	-0.137	0.02	-6.557	0
@seas(11)	-0.127	0.02	-6.08	0
@seas(12)	-0.082	0.02	-3.94	0

Indicadores de bondad estadísticos:

Root Mean Squared Error:	1087.04581135315
Mean Absolute Error:	836.87705249924
Mean Absolute Percent Error:	5.01977249613708
Theil Inequality Coefficient:	0.0315546124964313
Covariance Proportion:	30290831.853129
Akaike information criterion:	-2.64293621378384
Schwarz information criterion:	-2.43979445776581
Hannan-Quinn information criterion:	-2.56086644709069
Durbin-Watson statistic:	0.479389504502752
Log-Likehood:	298.437111088655

Consumo Comercial



Variable Dependiente: CCOM

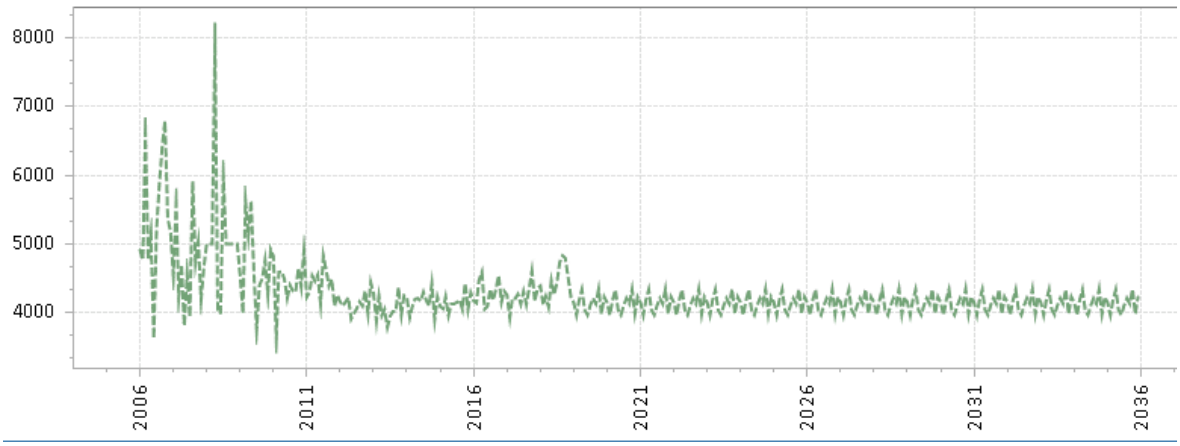
Estadistico - F =	137.596337056945
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.932247641104116
R-Squared Ajustado =	0.925472405214528

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.125	0.247	-0.507	0.612
LOG(PIBCOM)	0.588	0.081	7.222	0
LOG(CCOM(-12))	0.645	0.046	13.745	0
@seas(2)	0.002	0.035	0.063	0.949
@seas(3)	-0.025	0.035	-0.728	0.467
@seas(4)	0.013	0.035	0.389	0.697
@seas(5)	0.004	0.035	0.114	0.909
@seas(6)	-0.03	0.035	-0.864	0.388
@seas(7)	-0.021	0.035	-0.617	0.537
@seas(8)	-0.041	0.035	-1.149	0.252
@seas(9)	-0.038	0.035	-1.068	0.287
@seas(10)	-0.084	0.037	-2.266	0.025
@seas(11)	-0.067	0.036	-1.842	0.067
@seas(12)	-0.025	0.036	-0.696	0.487

Indicadores de bondad estadísticos:

Root Mean Squared Error:	1728.1858747382
Mean Absolute Error:	1193.19157436211
Mean Absolute Percent Error:	5.48255682823448
Theil Inequality Coefficient:	0.041080202131248
Covariance Proportion:	34784958.1973738
Akaike information criterion:	-1.96771790127622
Schwarz information criterion:	-1.67898605270633

Consumo Industrial



Variable Dependiente: CIND

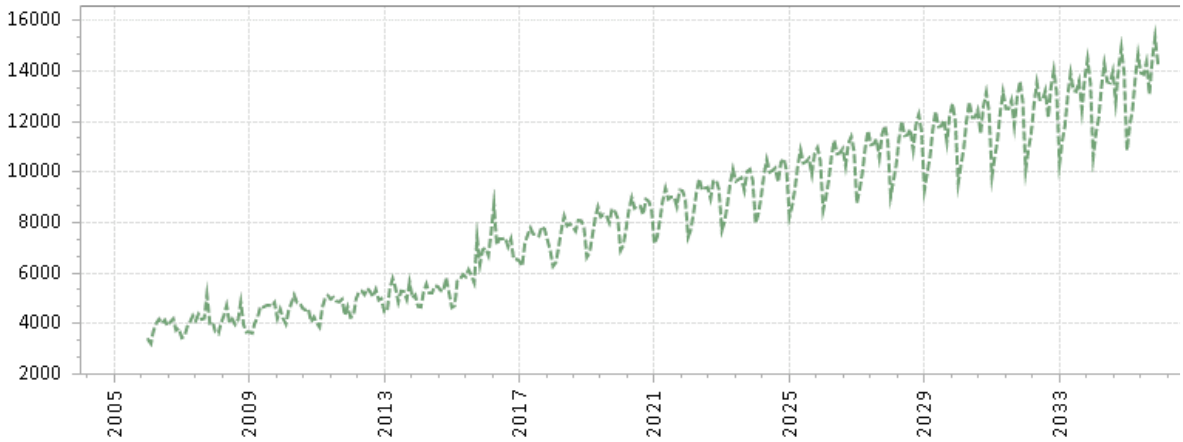
Estadistico - F =	2.1517300288456
Probabilidad Estadistico - F =	0.017677414572196500000
R-Squared =	0.164651416618269
R-Squared Ajustado =	0.0881309356978048

Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	6.549	0.582	11.241	0
LOG(CIND(-12))	0.218	0.069	3.155	0.001
@seas(2)	-0.035	0.039	-0.893	0.372
@seas(3)	0.005	0.039	0.137	0.891
@seas(4)	0.034	0.039	0.862	0.39
@seas(5)	-0.02	0.039	-0.516	0.606
@seas(6)	-0.035	0.039	-0.879	0.38
@seas(7)	-0.008	0.039	-0.217	0.827
@seas(8)	0.011	0.039	0.286	0.775
@seas(9)	-0.003	0.039	-0.09	0.928
@seas(10)	0.035	0.039	0.882	0.379
@seas(11)	-0.032	0.039	-0.81	0.418
@seas(12)	0.014	0.039	0.378	0.705

Indicadores de bondad estadísticos:

Root Mean Squared Error:	473.581289362655
Mean Absolute Error:	288.590076738193
Mean Absolute Percent Error:	6.55636380327356
Theil Inequality Coefficient:	0.0537317356013047
Covariance Proportion:	27087.4973796218
Akaike information criterion:	-1.74726092461038
Schwarz information criterion:	-1.47915277950977
Hannan-Quinn information criterion:	-1.63831690292943

Consumo Gobierno



Variable Dependiente: CGOB

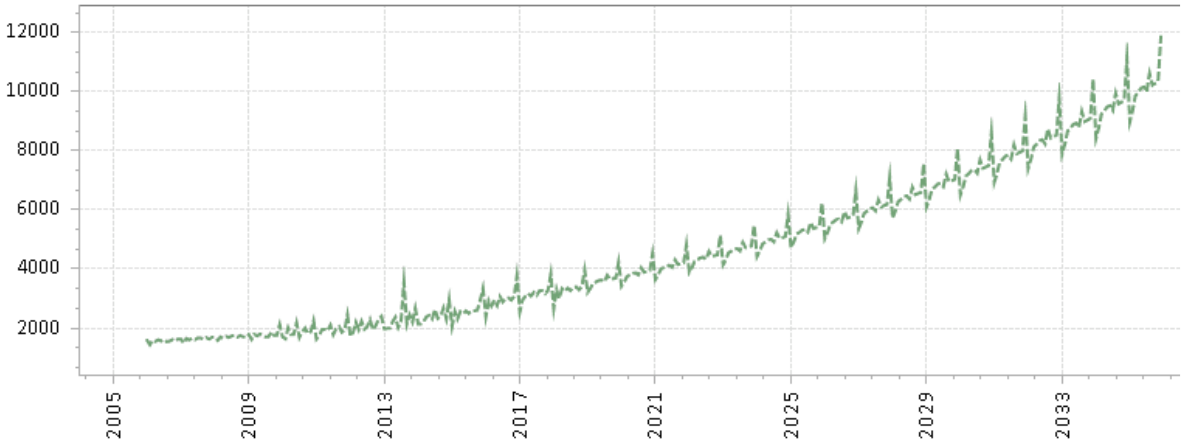
Estadistico - F =	60.4688114840684
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.847074405754971
R-Squared Ajustado =	0.833065954373747

Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	0.325	0.32	1.014	0.312
LOG(CGOB(-12))	0.967	0.038	25.382	0
@seas(2)	0.005	0.038	0.149	0.881
@seas(3)	0.005	0.038	0.136	0.891
@seas(4)	0.008	0.039	0.227	0.82
@seas(5)	0.011	0.039	0.293	0.769
@seas(6)	0.009	0.039	0.247	0.804
@seas(7)	0.008	0.039	0.224	0.822
@seas(8)	0.011	0.039	0.3	0.763
@seas(9)	0.006	0.039	0.156	0.875
@seas(10)	0.01	0.039	0.269	0.788
@seas(11)	0.016	0.038	0.417	0.677
@seas(12)	0.012	0.038	0.31	0.756

Indicadores de bondad estadísticos:

Root Mean Squared Error:	566.071320961598
Mean Absolute Error:	458.997524658545
Mean Absolute Percent Error:	8.0321275150961
Theil Inequality Coefficient:	0.0496015462096 34
Covariance Proportion:	1365792.38535567
Akaike information criterion:	-1.7875948558893
Schwarz information criterion:	-1.51948671078869
Hannan-Quinn information criterion:	-1.67865083420835

Consumo alumbrado



Variable Dependiente: CALP

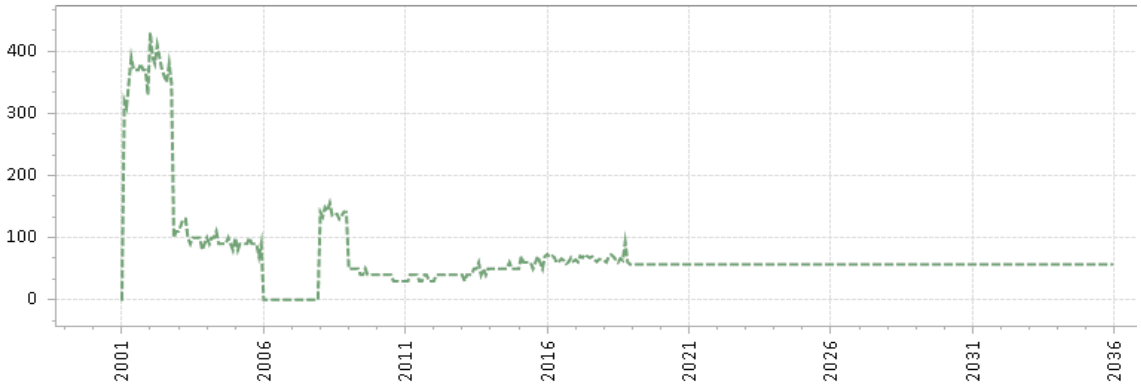
Estadistico - F =	137.355491623363
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.920168189412033
R-Squared Ajustado =	0.91346901649556

Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	7.18	0.023	306.271	0
@trend	0.005	0	39.226	0
@seas(2)	0.037	0.03	1.254	0.211
@seas(3)	0.082	0.03	2.736	0.006
@seas(4)	0.088	0.03	2.94	0.003
@seas(5)	0.097	0.03	3.242	0.001
@seas(6)	0.096	0.03	3.214	0.001
@seas(7)	0.074	0.03	2.476	0.014
@seas(8)	0.129	0.03	4.289	0
@seas(9)	0.086	0.03	2.879	0.004
@seas(10)	0.087	0.03	2.892	0.004
@seas(11)	0.087	0.03	2.917	0.004
@seas(12)	0.219	0.03	7.288	0

Indicadores de bondad estadísticos:

Root Mean Squared Error:	174.624799819071
Mean Absolute Error:	129.230744912488
Mean Absolute Percent Error:	5.76562141543828
Theil Inequality Coefficient:	0.0374829579466573
Covariance Proportion:	331230.579647397
Akaike information criterion:	-2.2177526154817
Schwarz information criterion:	-1.9635979482109
Hannan-Quinn information criterion:	-2.11452599390423

Consumo Otros



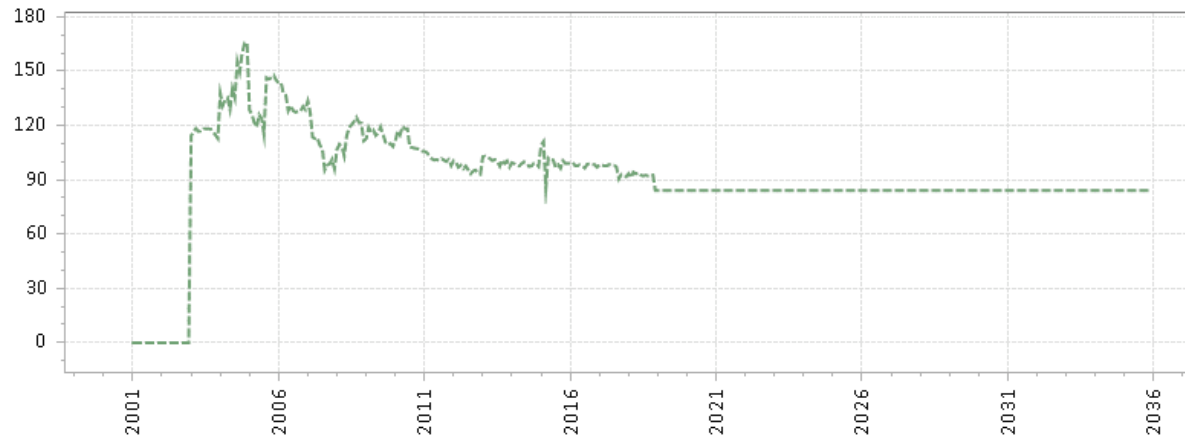
Archivo | Fórmula: COTR = COTR (t-1) * (1+%)

Datos | Tendencia | Residuos

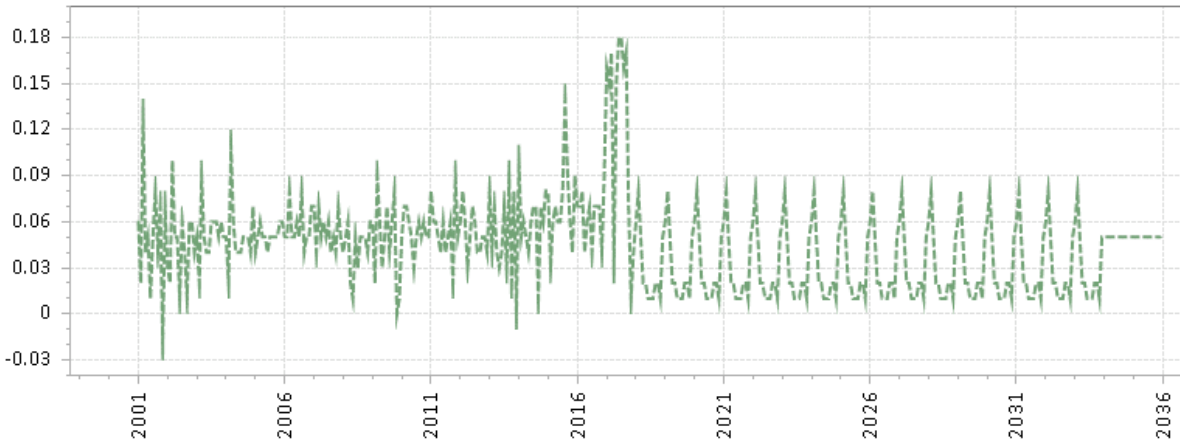
Año Inicial: 2001 | Año Final: 2018 | Cargar Datos | Generar Proyección | Tasa tendencial mensual: 0.00 | Aceptar Proyección

Año	Mes	Consumo Otros [MWh]	Tasa [%]
2001	1	0.000	0.000
2001	2	320.000	0.000
2001	3	310.000	-3.130
2001	4	350.000	12.900
2001	5	390.000	11.430
2001	6	370.000	-5.130
2001	7	370.000	0.000

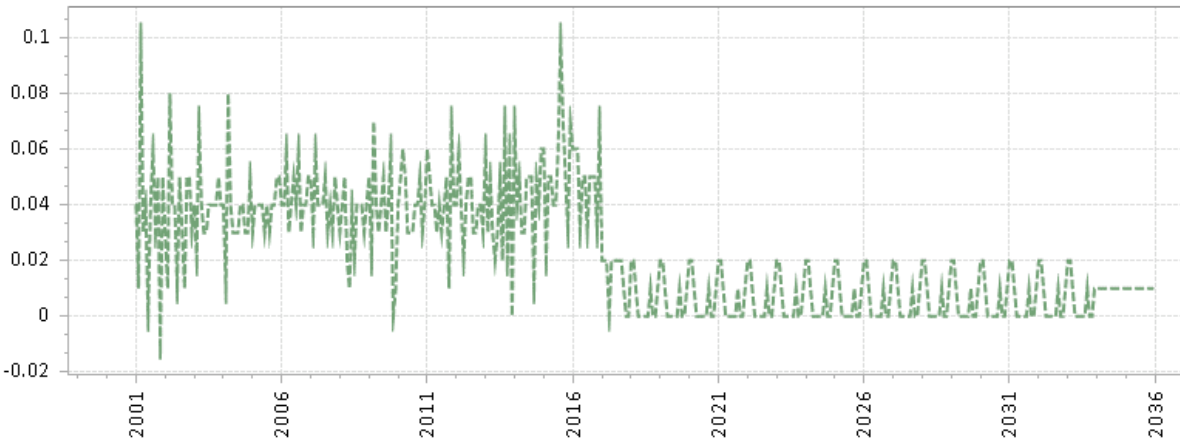
Tarifa media de la distribuidora real



Pérdidas técnicas

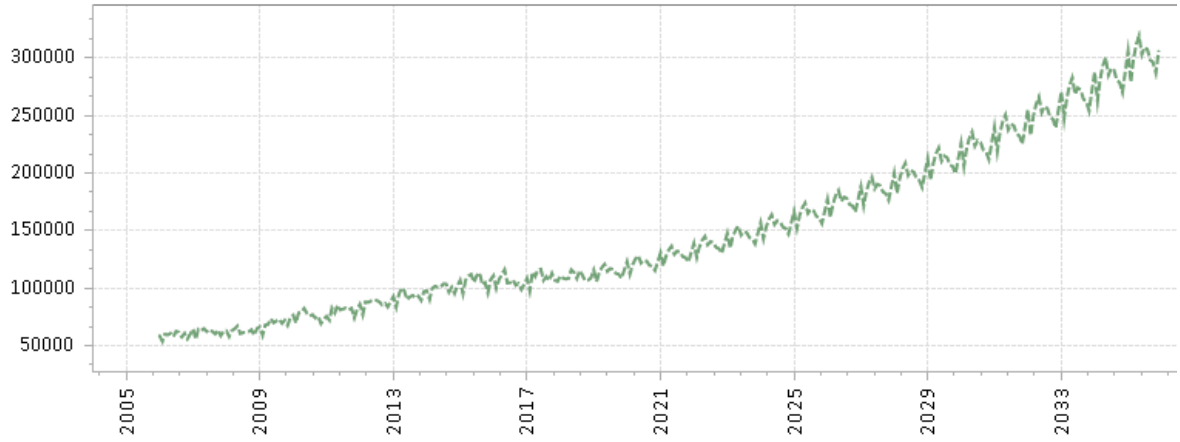


Pérdidas no técnicas



Consumo Total

Consumo Residencial



Variable Dependiente: CRES

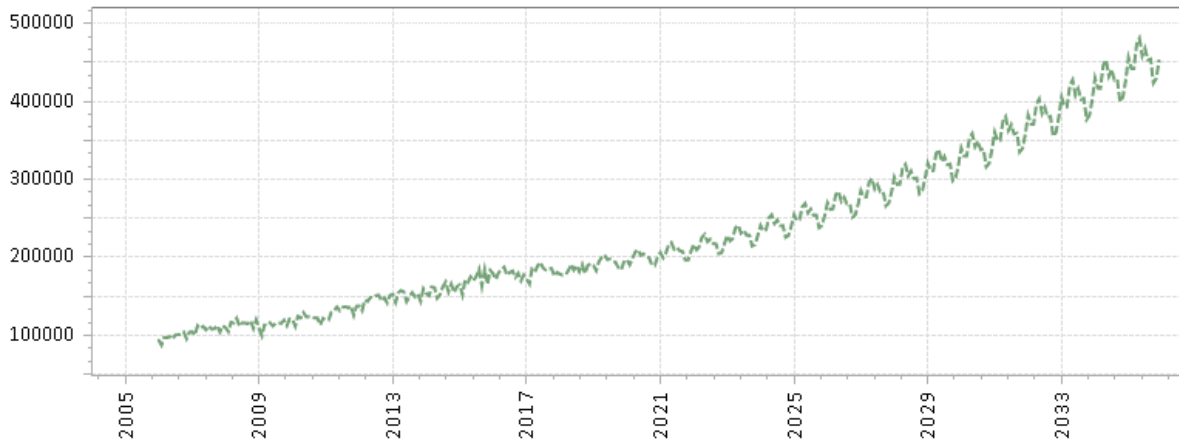
Estadistico - F =	359.693752852111
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.970527304629683
R-Squared Ajustado =	0.967829100123949

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-6.489	3.681	-1.762	0.08
LOG(PIB/POB)	0.568	0.088	6.424	0
LOG(POB)	1.483	0.209	7.094	0
@seas(2)	-0.096	0.015	-6.037	0
@seas(3)	-0.033	0.017	-1.933	0.055
@seas(4)	0.004	0.015	0.278	0.78
@seas(5)	0.022	0.016	1.415	0.159
@seas(6)	-0.034	0.016	-2.123	0.035
@seas(7)	-0.018	0.016	-1.172	0.243
@seas(8)	-0.03	0.016	-1.857	0.065
@seas(9)	-0.065	0.016	-4.074	0
@seas(10)	-0.077	0.017	-4.432	0
@seas(11)	-0.114	0.016	-7.068	0
@seas(12)	-0.056	0.016	-3.467	0

Indicadores de bondad estadísticos:

Root Mean Squared Error:	3360.59265194339
Mean Absolute Error:	2654.58526155658
Mean Absolute Percent Error:	3.09165814093541
Theil Inequality Coefficient:	0.0190499083790724
Covariance Proportion:	345167930.914645
Akaike information criterion:	-3.47832774504435
Schwarz information criterion:	-3.20462271875272
Hannan-Quinn information criterion:	-3.36716061411477
Durbin-Watson statistic:	0.687602113661573
Log-Likehood:	285.309564113459

Consumo Comercial



Variable Dependiente: CCOM

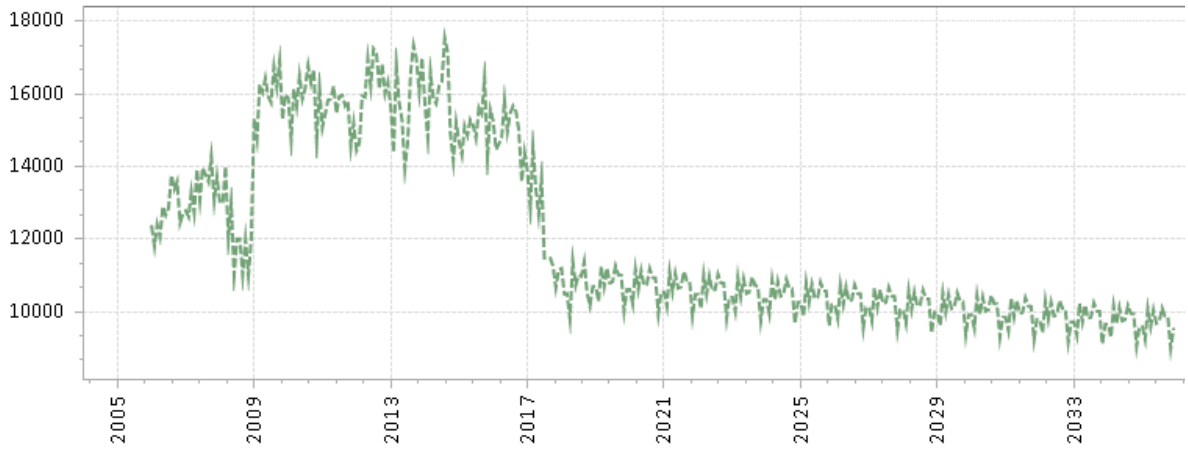
Estadistico - F =	268.262646160445
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.964062729446503
R-Squared Ajustado =	0.960469002391153

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.996	0.223	8.924	0
LOG(PIBCOM)	0.301	0.038	7.938	0
LOG(CCOM(-12))	0.676	0.034	19.742	0
@seas(2)	-0.011	0.015	-0.719	0.473
@seas(3)	-0.013	0.015	-0.835	0.405
@seas(4)	0.007	0.015	0.47	0.638
@seas(5)	0.01	0.015	0.682	0.496
@seas(6)	-0.006	0.015	-0.386	0.699
@seas(7)	-0.001	0.015	-0.072	0.942
@seas(8)	-0.013	0.015	-0.835	0.405
@seas(9)	-0.013	0.015	-0.878	0.381
@seas(10)	-0.038	0.016	-2.314	0.022
@seas(11)	-0.035	0.016	-2.127	0.035
@seas(12)	-0.02	0.016	-1.254	0.212

Indicadores de bondad estadísticos:

Root Mean Squared Error:	5501.4010905924
Mean Absolute Error:	4222.99297383317
Mean Absolute Percent Error:	2.87939963227768
Theil Inequality Coefficient:	0.0183690297998811
Covariance Proportion:	751793076.048632
Akaike information criterion:	-3.5771709344378
Schwarz information criterion:	-3.28843908586791
Hannan-Quinn information criterion:	-3.45984660339678
Durbin-Watson statistic:	0.912303859667977
Log-Likehood:	271.556307279522

Consumo Industrial



Variable Dependiente: CIND

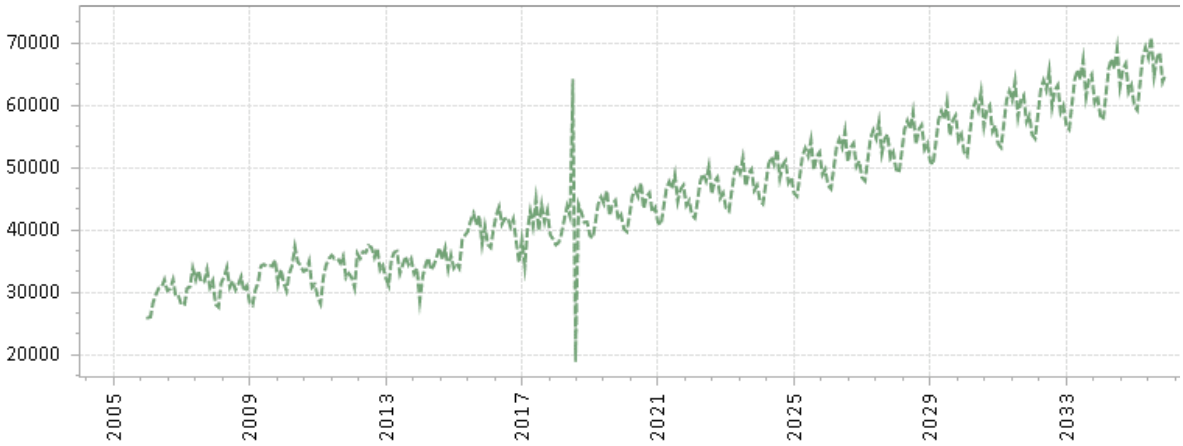
Estadistico - F =	1.15130301667873
Probabilidad Estadistico - F =	0.32413123450775400000
R-Squared =	0.0881011392416999
R-Squared Ajustado =	0.011578157919325

Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	10.673	0.411	25.956	0
LOG(PIBIND)	-0.226	0.083	-2.722	0.007
@seas(2)	-0.037	0.055	-0.687	0.493
@seas(3)	0.052	0.055	0.937	0.35
@seas(4)	0.001	0.055	0.027	0.978
@seas(5)	0.049	0.055	0.888	0.375
@seas(6)	0.012	0.055	0.225	0.822
@seas(7)	0.016	0.055	0.298	0.765
@seas(8)	0.056	0.055	1.011	0.313
@seas(9)	0.034	0.055	0.626	0.531
@seas(10)	0.034	0.055	0.621	0.535
@seas(11)	-0.059	0.055	-1.078	0.282
@seas(12)	0	0.055	-0.012	0.989

Indicadores de bondad estadísticos:

Root Mean Squared Error:	1853.46002101614
Mean Absolute Error:	1669.72939430572
Mean Absolute Percent Error:	11.7310791658842
Theil Inequality Coefficient:	0.064434613884492
Covariance Proportion:	323699.838599087
Akaike information criterion:	-1.00074235754145
Schwarz information criterion:	-0.746587690270658
Hannan-Quinn information criterion:	-0.897515735963982
Durbin-Watson statistic:	0.138377232878394
Log-Likehood:	91.0579038882333

Consumo Gobierno



Variable Dependiente: CGOB

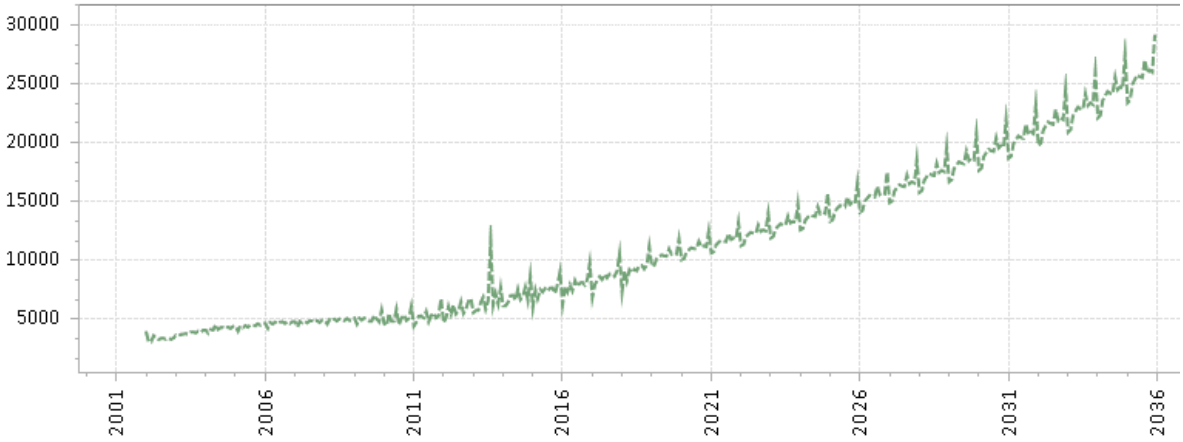
Estadistico - F =	25.1633972847347
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.678623351829028
R-Squared Ajustado =	0.651654682052443

Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	7.516	0.191	39.353	0
LOG(PIB)	0.368	0.024	14.972	0
@seas(2)	-0.013	0.031	-0.416	0.677
@seas(3)	0.049	0.031	1.561	0.12
@seas(4)	0.115	0.031	3.658	0
@seas(5)	0.137	0.031	4.344	0
@seas(6)	0.11	0.031	3.512	0
@seas(7)	0.156	0.031	4.945	0
@seas(8)	0.062	0.031	1.963	0.051
@seas(9)	0.103	0.031	3.282	0.001
@seas(10)	0.114	0.031	3.595	0
@seas(11)	0.04	0.031	1.293	0.197
@seas(12)	0.056	0.031	1.774	0.078

Indicadores de bondad estadísticos:

Root Mean Squared Error:	2830.04400743263
Mean Absolute Error:	1668.83350665333
Mean Absolute Percent Error:	4.58201396856744
Theil Inequality Coefficient:	0.0400655324032019
Covariance Proportion:	15489689.9122945
Akaike information criterion:	-2.12315508056619
Schwarz information criterion:	-1.86900041329539
Hannan-Quinn information criterion:	-2.01992845898872
Durbin-Watson statistic:	2.15628733542432
Log-Likehood:	178.606096284163

Consumo alumbrado



Variable Dependiente: CALP

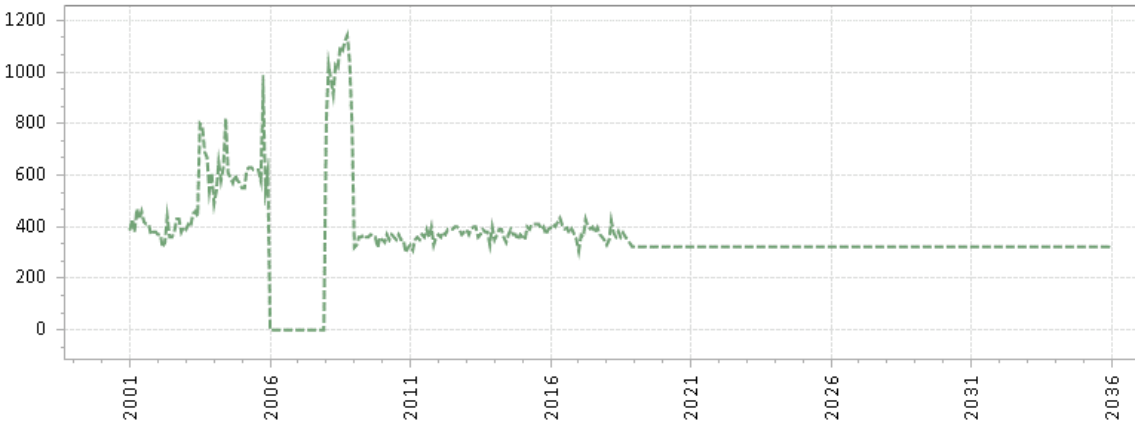
Estadistico - F =	177.95317000009
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.917900242037002
R-Squared Ajustado =	0.912742142060269

Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	8.078	0.023	346.786	0
@trend	0.004	0	45.338	0
@seas(2)	0.005	0.029	0.168	0.866
@seas(3)	0.054	0.029	1.821	0.07
@seas(4)	0.067	0.029	2.254	0.025
@seas(5)	0.077	0.029	2.602	0.009
@seas(6)	0.066	0.029	2.233	0.026
@seas(7)	0.059	0.029	1.982	0.048
@seas(8)	0.111	0.029	3.749	0
@seas(9)	0.064	0.029	2.169	0.031
@seas(10)	0.07	0.029	2.351	0.019
@seas(11)	0.058	0.029	1.973	0.049
@seas(12)	0.166	0.029	5.569	0

Indicadores de bondad estadísticos:

Root Mean Squared Error:	552.593464101242
Mean Absolute Error:	373.227481995197
Mean Absolute Percent Error:	6.41857715044581
Theil Inequality Coefficient:	0.0458318440981064
Covariance Proportion:	2748509.83694618
Akaike information criterion:	-1.9870918234221
Schwarz information criterion:	-1.77564300028497
Hannan-Quinn information criterion:	-1.90155693977822

Consumo Otros



Archivo Fórmula: COTR = COTR (t-1) * (1+%)

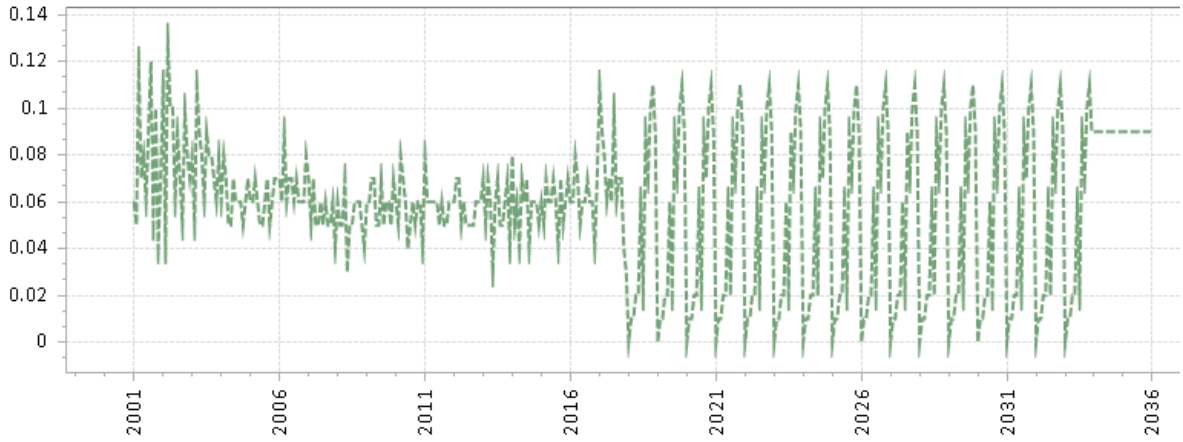
Datos | Tendencia | Residuos

Año Inicial: 2001 Año Final: 2018 Cargar Datos Generar Proyección Tasa tendencial mensual: 0.02 Aceptar Proyección

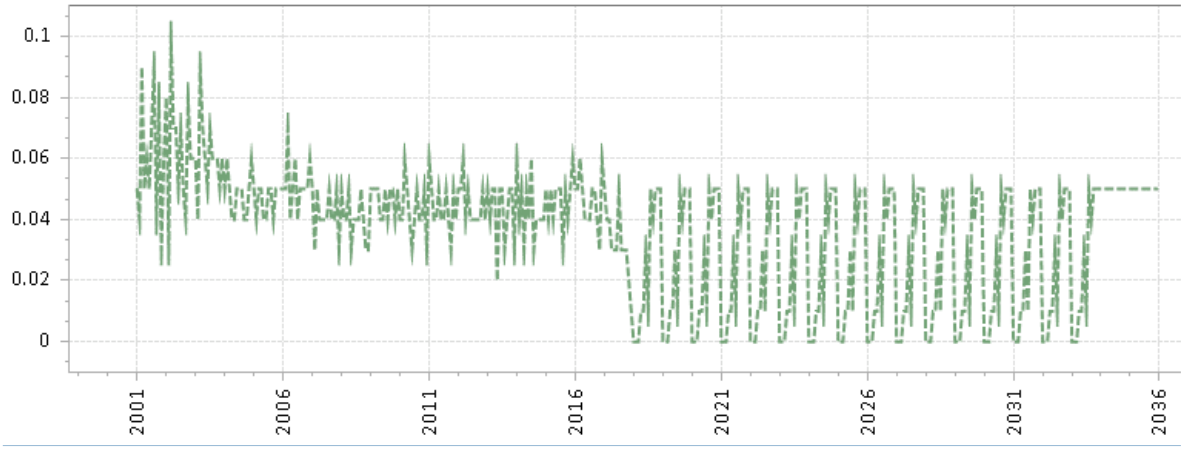
Año	Mes	Consumo Otros [MWh]	Tasa [%]
2001	1	390.000	0.000
2001	2	430.000	10.260
2001	3	380.000	-11.630
2001	4	470.000	23.680
2001	5	430.000	-8.510
2001	6	460.000	6.980
2001	7	420.000	-8.700
2001	8	410.000	-2.380

Tarifa media de la distribuidora real

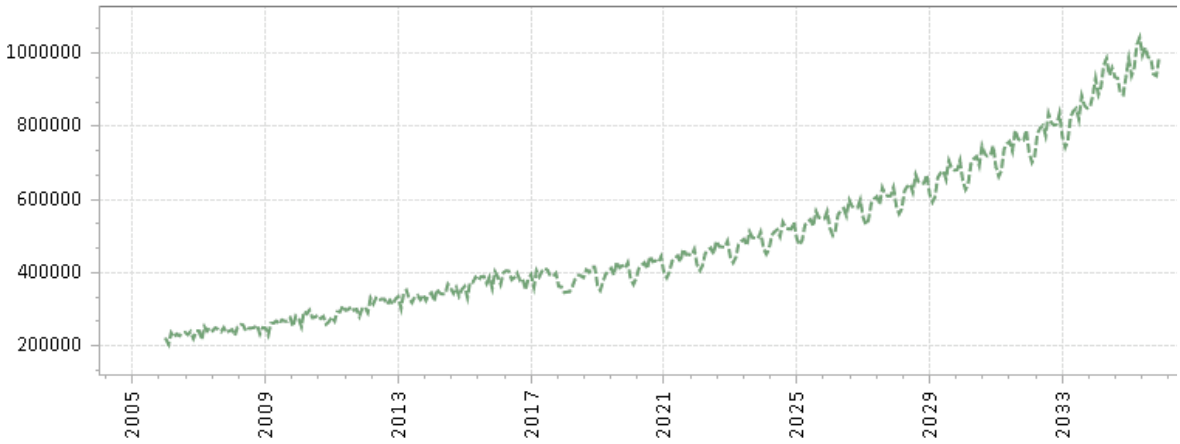
Pérdidas técnicas



Pérdidas no técnicas

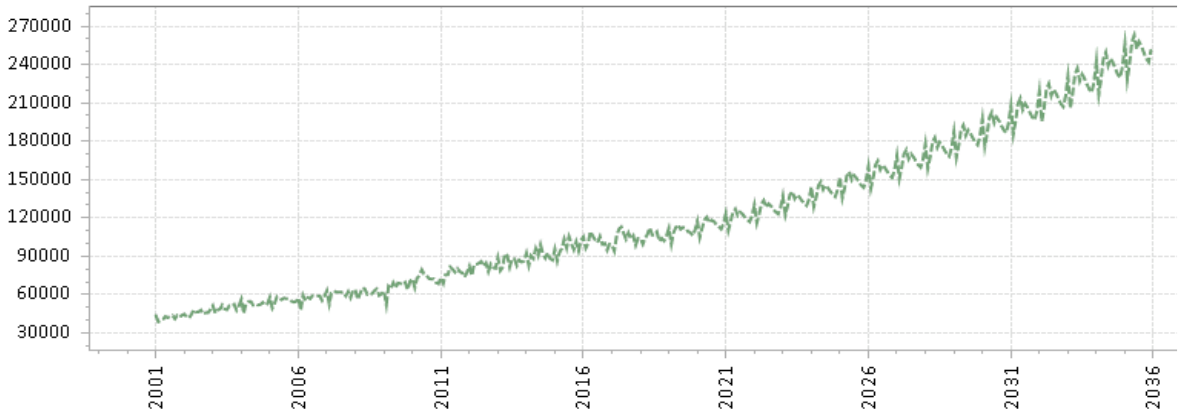


Consumo Total



ENSA

Consumo Residencial



Variable Dependiente: CRES

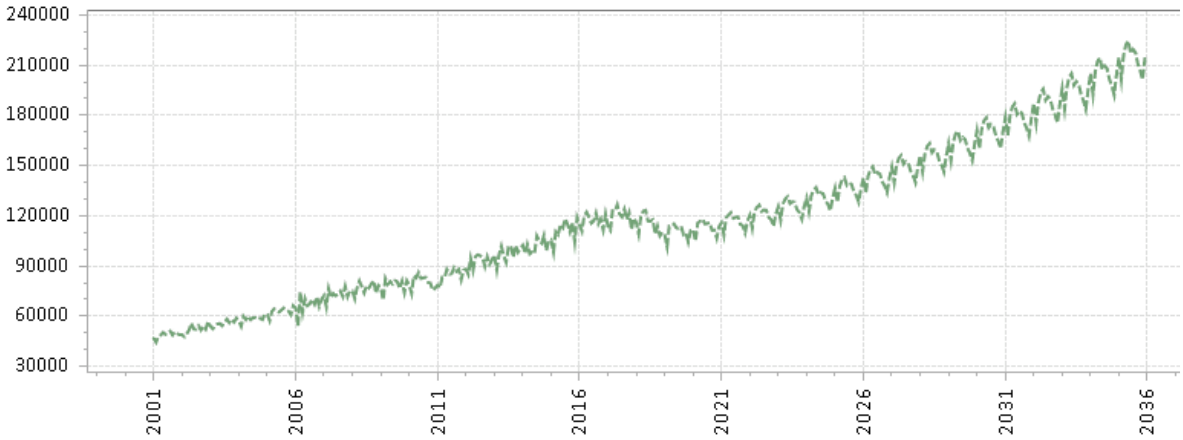
Estadistico - F =	735.127599913991
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.980506140214758
R-Squared Ajustado =	0.979172349808399

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	3.289	0.325	10.115	0
LOG(PIB)	0.409	0.046	8.849	0
LOG(CRES(-12))	0.431	0.059	7.234	0
@seas(2)	-0.066	0.015	-4.294	0
@seas(3)	-0.039	0.014	-2.737	0.006
@seas(4)	-0.002	0.013	-0.217	0.828
@seas(5)	0.005	0.013	0.422	0.673
@seas(6)	-0.02	0.013	-1.484	0.139
@seas(7)	-0.01	0.013	-0.737	0.461
@seas(8)	-0.02	0.013	-1.494	0.136
@seas(9)	-0.034	0.014	-2.421	0.016
@seas(10)	-0.046	0.014	-3.228	0.001
@seas(11)	-0.055	0.014	-3.757	0
@seas(12)	-0.037	0.014	-2.63	0.009

Indicadores de bondad estadísticos:

Root Mean Squared Error:	2795.49568414173
Mean Absolute Error:	2097.18049039612
Mean Absolute Percent Error:	2.88963807483886
Theil Inequality Coefficient:	0.0181361661075422
Covariance Proportion:	385829460.81108
Akaike information criterion:	-3.56253698121607
Schwarz information criterion:	-3.33482286399147
Hannan-Quinn information criterion:	-3.47042249113805
Durbin-Watson statistic:	1.24990011001487
Log-Likehood:	377.378772084039

Consumo Comercial



Variable Dependiente: CCOM

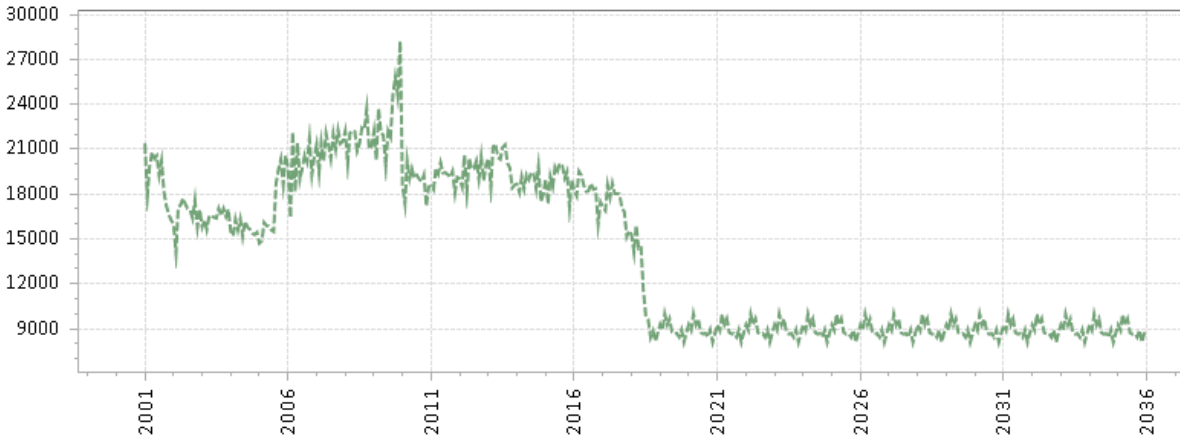
Estadistico - F =	704.850269527395
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.979685778561871
R-Squared Ajustado =	0.978295858147683

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	2.14	0.21	10.194	0
LOG(PIBCOM)	0.222	0.027	8.124	0
LOG(CCOM(-12))	0.694	0.032	21.627	0
@seas(2)	-0.02	0.013	-1.505	0.133
@seas(3)	-0.001	0.013	-0.103	0.917
@seas(4)	0.006	0.013	0.515	0.606
@seas(5)	0.008	0.013	0.659	0.51
@seas(6)	-0.002	0.013	-0.201	0.84
@seas(7)	0	0.013	-0.03	0.975
@seas(8)	-0.004	0.013	-0.3	0.764
@seas(9)	-0.014	0.013	-1.095	0.274
@seas(10)	-0.021	0.013	-1.596	0.111
@seas(11)	-0.031	0.013	-2.286	0.023
@seas(12)	-0.014	0.013	-1.035	0.301

Indicadores de bondad estadisticos:

Root Mean Squared Error:	3789.4103364092
Mean Absolute Error:	2843.00894232691
Mean Absolute Percent Error:	3.19484731639045
Theil Inequality Coefficient:	0.0215871791388795
Covariance Proportion:	466357749.558423
Akaike information criterion:	-3.57129862812761
Schwarz information criterion:	-3.34358451090301
Hannan-Quinn information criterion:	-3.47918413804959
Durbin-Watson statistic:	1.31947942925235
Log-Likehood:	378.272460069017

Consumo Industrial



Variable Dependiente: CIND

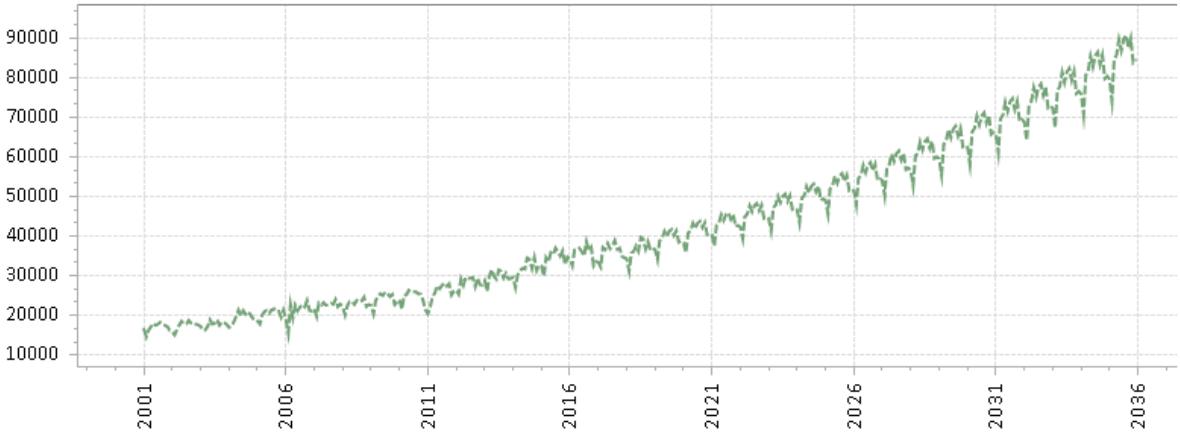
Estadistico - F =	6.07167279990537
Probabilidad Estadistico - F =	0.00000005651735105955
R-Squared =	0.276131483650045
R-Squared Ajustado =	0.230652833408163

Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	2.183	0.954	2.287	0.023
LOG(CIND(-12))	0.775	0.097	7.995	0
@seas(2)	-0.009	0.053	-0.169	0.865
@seas(3)	0.016	0.053	0.309	0.757
@seas(4)	0	0.053	-0.002	0.997
@seas(5)	0.009	0.053	0.172	0.863
@seas(6)	-0.013	0.053	-0.245	0.806
@seas(7)	-0.015	0.053	-0.292	0.77
@seas(8)	-0.014	0.053	-0.271	0.786
@seas(9)	-0.021	0.053	-0.395	0.692
@seas(10)	-0.008	0.053	-0.16	0.872
@seas(11)	-0.03	0.053	-0.564	0.572
@seas(12)	-0.014	0.053	-0.264	0.791

Indicadores de bondad estadísticos:

Root Mean Squared Error:	3495.31657958615
Mean Absolute Error:	2953.88866979473
Mean Absolute Percent Error:	17.7029445562157
Theil Inequality Coefficient:	0.0979061493135285
Covariance Proportion:	-65671.063884448
Akaike information criterion:	-0.819474245014327
Schwarz information criterion:	-0.608025421877196
Hannan-Quinn information criterion:	-0.733939361370448

Consumo Gobierno



Variable Dependiente: CGOB

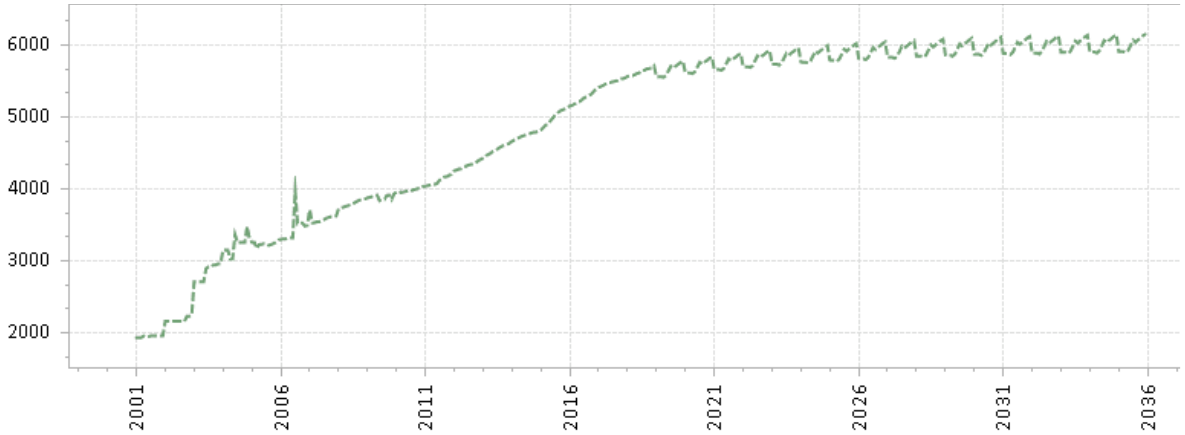
Estadistico - F =	655.725311563574
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.974850414909912
R-Squared Ajustado =	0.973363739929217

Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	9.644	0.011	865.069	0
@trend	0.004	0	86.624	0
@seas(2)	-0.074	0.014	-5.231	0
@seas(3)	0.051	0.014	3.637	0
@seas(4)	0.061	0.014	4.288	0
@seas(5)	0.101	0.014	7.148	0
@seas(6)	0.066	0.014	4.648	0
@seas(7)	0.094	0.014	6.661	0
@seas(8)	0.101	0.014	7.143	0
@seas(9)	0.06	0.014	4.266	0
@seas(10)	0.084	0.014	5.935	0
@seas(11)	0.01	0.014	0.71	0.477
@seas(12)	0.012	0.014	0.906	0.365

Indicadores de bondad estadísticos:

Root Mean Squared Error:	1074.3576461018
Mean Absolute Error:	800.072767339748
Mean Absolute Percent Error:	3.08266195086338
Theil Inequality Coefficient:	0.0200982167773271
Covariance Proportion:	44224573.1284679
Akaike information criterion:	-3.40812502448025
Schwarz information criterion:	-3.20498326846222
Hannan-Quinn information criterion:	-3.3260552577871

Consumo alumbrado



Variable Dependiente: CALP

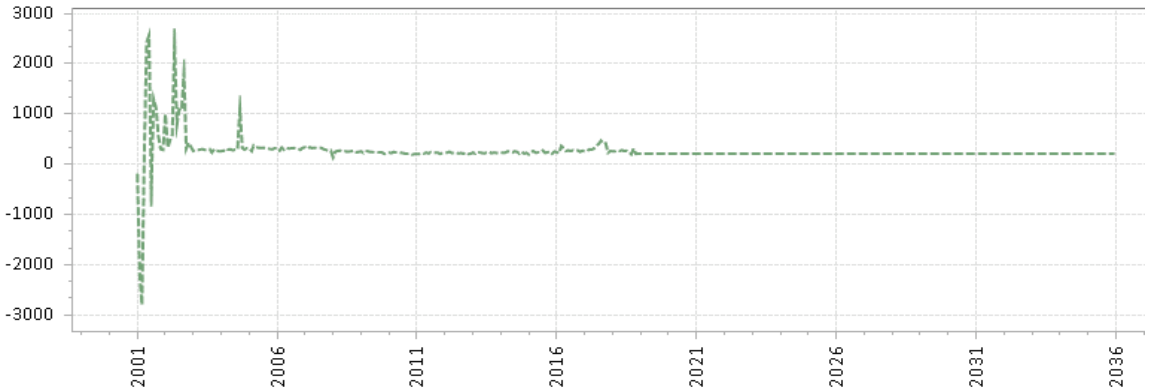
Estadistico - F =	390.269129651714
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.960814319922229
R-Squared Ajustado =	0.958352392378076

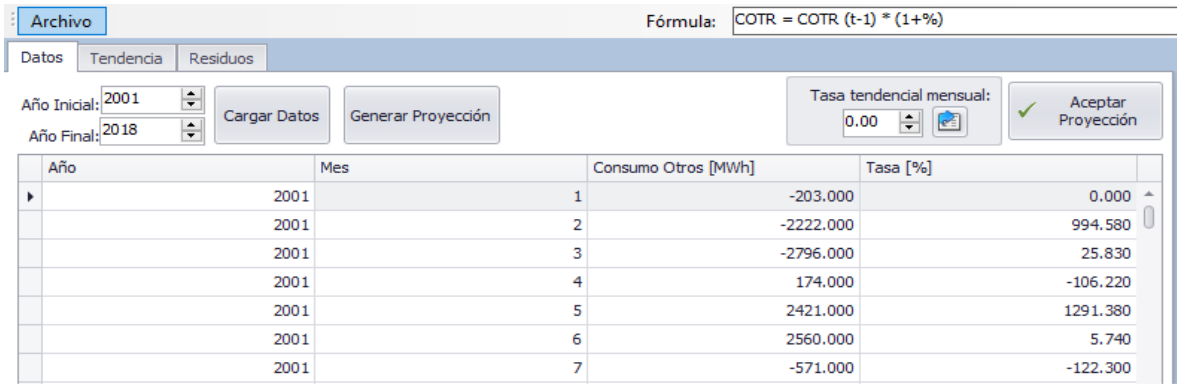
Variable	Coefficient	Std. Error	t-Statistic	Prob.
c	1.237	0.103	11.936	0
LOG(CALP(-12))	0.856	0.012	68.319	0
@seas(2)	0	0.017	-0.003	0.997
@seas(3)	0	0.017	-0.002	0.997
@seas(4)	0	0.017	-0.023	0.98
@seas(5)	0	0.017	0.021	0.983
@seas(6)	0.002	0.017	0.121	0.903
@seas(7)	0.003	0.017	0.22	0.826
@seas(8)	0.003	0.017	0.178	0.858
@seas(9)	0.003	0.017	0.223	0.823
@seas(10)	0.004	0.017	0.259	0.795
@seas(11)	0.005	0.017	0.302	0.762
@seas(12)	0.005	0.017	0.331	0.74

Indicadores de bondad estadísticos:

Root Mean Squared Error:	270.777905320786
Mean Absolute Error:	235.333401226064
Mean Absolute Percent Error:	5.7531431201922
Theil Inequality Coefficient:	0.0320366166024641
Covariance Proportion:	848166.10606773
Akaike information criterion:	-3.09572143638526
Schwarz information criterion:	-2.88427261324813
Hannan-Quinn information criterion:	-3.01018655274138

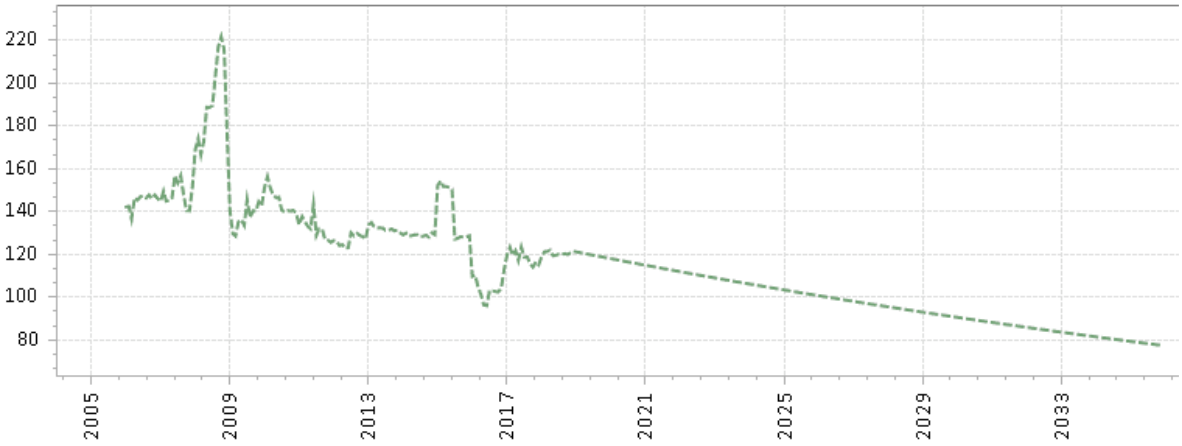
Consumo Otros



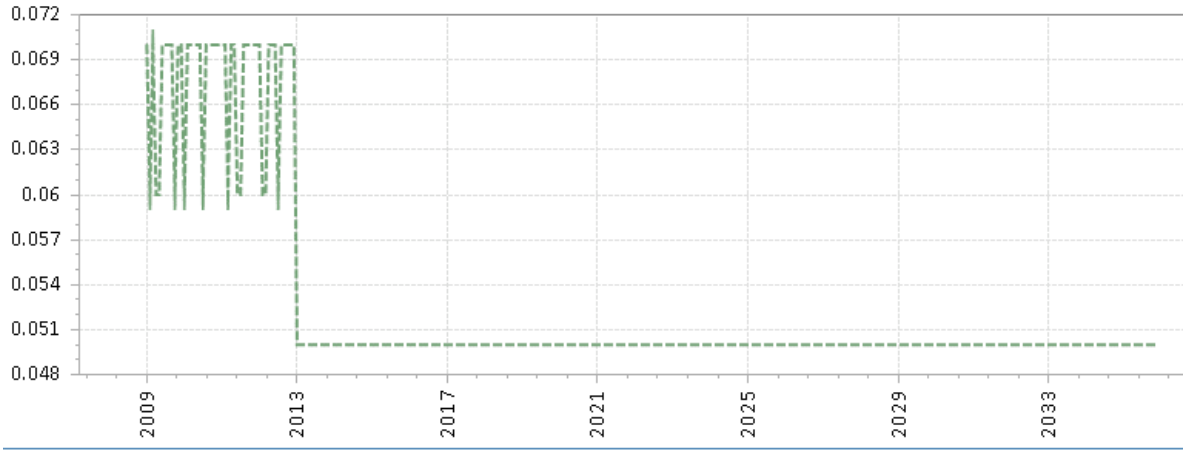


Año	Mes	Consumo Otros [MWh]	Tasa [%]
2001	1	-203.000	0.000
2001	2	-2222.000	994.580
2001	3	-2796.000	25.830
2001	4	174.000	-106.220
2001	5	2421.000	1291.380
2001	6	2560.000	5.740
2001	7	-571.000	-122.300

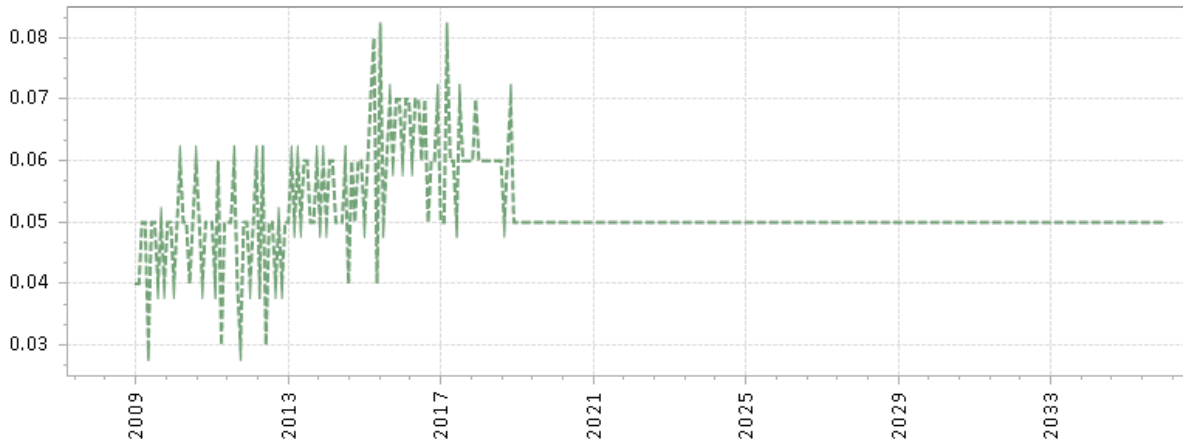
Tarifa media de la distribuidora real



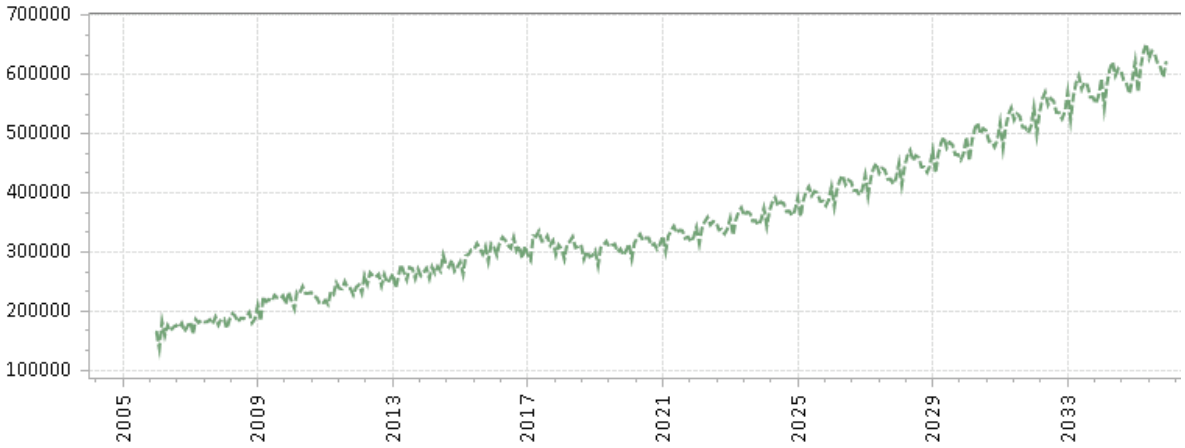
Pérdidas técnicas



Perdidas no técnicas

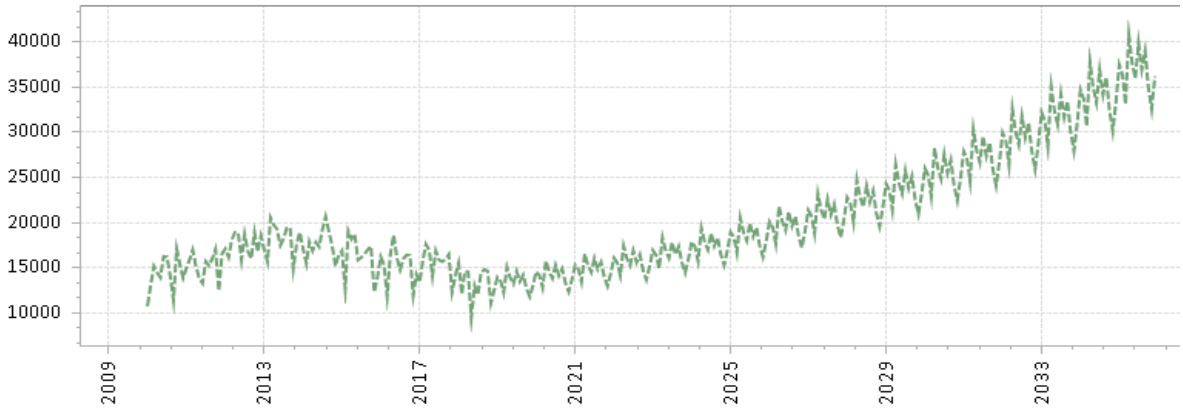


Consumo Total



GRANDES USUARIOS

Alta Tensión



Variable Dependiente: GU_AT

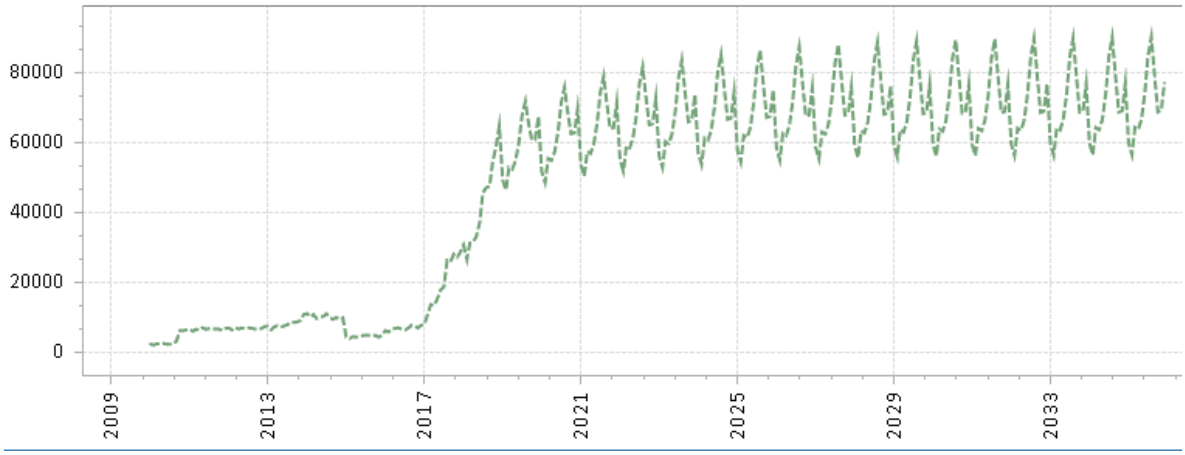
Estadistico - F =	7.87309991744362
Probabilidad Estadistico - F =	0.00000000022458366050
R-Squared =	0.521263779511437
R-Squared Ajustado =	0.455055578805572

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	115.065	12.28	9.369	0
LOG(PIB/POB)	2.732	0.334	8.178	0
LOG(POB)	-5.876	0.682	-8.605	0
@seas(2)	-0.036	0.052	-0.7	0.485
@seas(3)	-0.137	0.059	-2.319	0.022
@seas(4)	0.066	0.052	1.267	0.207
@seas(5)	-0.018	0.052	-0.343	0.731
@seas(6)	-0.074	0.054	-1.371	0.173
@seas(7)	0.023	0.052	0.448	0.655
@seas(8)	-0.06	0.055	-1.089	0.278
@seas(9)	-0.011	0.053	-0.219	0.826
@seas(10)	-0.125	0.058	-2.13	0.035
@seas(11)	-0.205	0.054	-3.793	0
@seas(12)	-0.109	0.054	-2.004	0.047

Indicadores de bondad estadísticos:

Root Mean Squared Error:	1561.14938639907
Mean Absolute Error:	1257.45194671056
Mean Absolute Percent Error:	8.01861513169899
Theil Inequality Coefficient:	0.0488044344197419
Covariance Proportion:	2755401.13865533
Akaike information criterion:	-1.43434257289958
Schwarz information criterion:	-1.08665889530941
Hannan-Quinn information criterion:	-1.29336947005611
Durbin-Watson statistic:	1.64972269591526
Log-Likehood:	91.4544989365775

Baja Tensión



Variable Dependiente: GU_BT

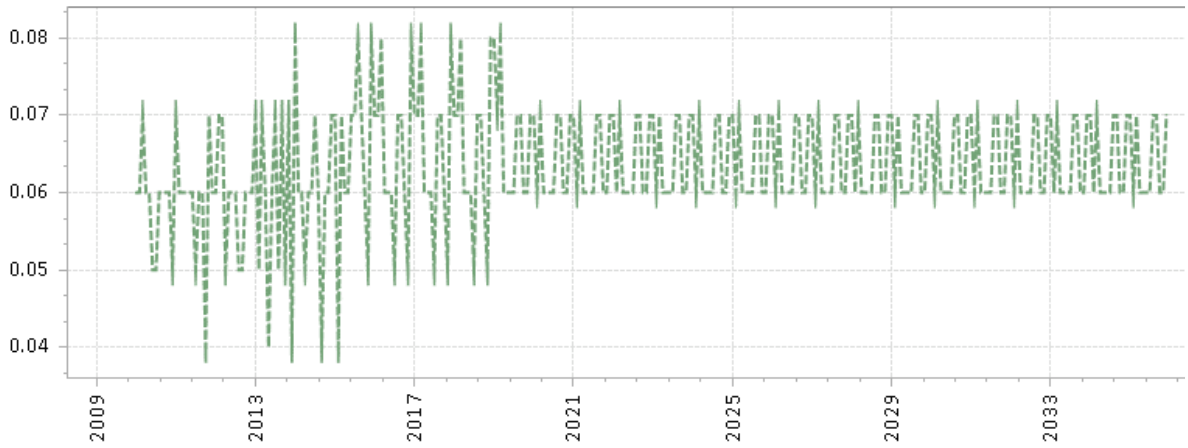
Estadistico - F =	3.75959461055013
Probabilidad Estadistico - F =	0.00014829486304995900
R-Squared =	0.352145241946554
R-Squared Ajustado =	0.258479493794248

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	2.376	1.057	2.246	0.027
LOG(GU_BT(-12))	0.763	0.118	6.451	
@seas(2)	-0.013	0.288	-0.046	0.963
@seas(3)	0.017	0.288	0.058	0.953
@seas(4)	0.014	0.288	0.051	0.959
@seas(5)	0.025	0.289	0.087	0.93
@seas(6)	0.049	0.289	0.172	0.863
@seas(7)	0.081	0.289	0.282	0.778
@seas(8)	0.096	0.289	0.333	0.739
@seas(9)	0.065	0.289	0.225	0.822
@seas(10)	0.032	0.291	0.111	0.911
@seas(11)	0.033	0.29	0.115	0.908
@seas(12)	0.059	0.291	0.202	0.84

Indicadores de bondad estadísticos:

Root Mean Squared Error:	10345.312882247
Mean Absolute Error:	7235.79590766159
Mean Absolute Percent Error:	43.4141058958423
Theil Inequality Coefficient:	0.301967061149325
Covariance Proportion:	47241657.859456
Akaike information criterion:	1.86520287380689
Schwarz information criterion:	2.21245835806816
Hannan-Quinn information criterion:	2.00556921462562

Pérdidas Técnicas



Variable Dependiente: PERT_GU

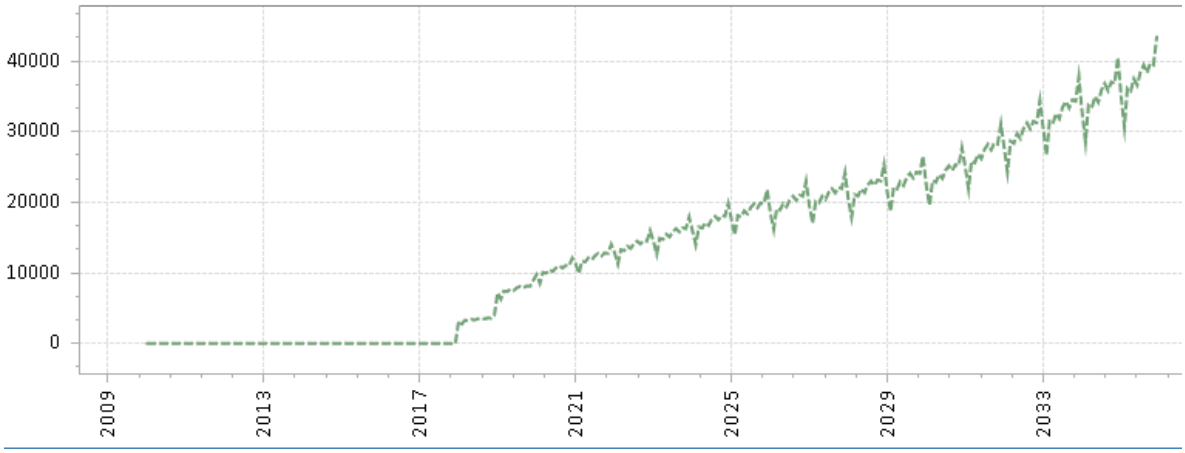
Estadistico - F =	2.90824522371572
Probabilidad Estadistico - F =	0.00210402284736179000
R-Squared =	0.296007257486207
R-Squared Ajustado =	0.194225174231201

Variable	Coefficient	Std. Error	t-Statistic	Prob.
PERT_GU(-12)	0.228	0.107	2.139	0.035
c	0.054	0.008	6.773	0
@seas(2)	-0.006	0.004	-1.475	0.143
@seas(3)	0	0.004	0.215	0.83
@seas(4)	-0.009	0.004	-2.141	0.035
@seas(5)	-0.009	0.004	-2.141	0.035
@seas(6)	-0.006	0.004	-1.475	0.143
@seas(7)	-0.008	0.004	-1.947	0.054
@seas(8)	-0.004	0.004	-1.065	0.289
@seas(9)	-0.005	0.004	-1.272	0.206
@seas(10)	-0.01	0.004	-2.331	0.022
@seas(11)	-0.01	0.004	-2.219	0.029
@seas(12)	0	0.004	-0.087	0.93

Indicadores de bondad estadísticos:

Root Mean Squared Error:	0.00845770097852363
Mean Absolute Error:	0.00654264296628438
Mean Absolute Percent Error:	10.5041058272798
Theil Inequality Coefficient:	0.0674081847245419
Covariance Proportion:	2.67601662125617E-05
Akaike information criterion:	-6.4693581169209
Schwarz information criterion:	-6.12210263265963
Hannan-Quinn information criterion:	-6.32899177610217

Consumo del Metro de Panamá



Variable Dependiente: CMETRO

Estadistico - F =	1913.62448556805
Probabilidad Estadistico - F =	0.00000000000000000000
R-Squared =	0.98867672400488
R-Squared Ajustado =	0.988160072628677

Variable	Coefficient	Std. Error	t-Statistic	Prob.
CMETRO(-12)	1.048	0.006	150.83	0
c	800.432	256.501	3.12	0.002
@seas(2)	-100.406	347.079	-0.289	0.772
@seas(3)	25.229	346.96	0.072	0.942
@seas(4)	16.8	346.956	0.048	0.961
@seas(5)	56.013	346.992	0.161	0.871
@seas(6)	36.074	346.969	0.103	0.917
@seas(7)	77.925	347.029	0.224	0.822
@seas(8)	100.394	347.079	0.289	0.772
@seas(9)	75.81	347.025	0.218	0.827
@seas(10)	106.371	347.095	0.306	0.759
@seas(11)	101.163	347.081	0.291	0.77
@seas(12)	191.757	347.416	0.551	0.581

Indicadores de bondad estadísticos:

Root Mean Squared Error:	3025.18321273035
Mean Absolute Error:	2324.66631718371
Mean Absolute Percent Error:	37.1710351615036
Theil Inequality Coefficient:	0.085967467433375
Covariance Proportion:	109459780.021804
Akaike information criterion:	17.0245574157268
Schwarz information criterion:	17.1950835434599
Hannan-Quinn information criterion:	17.0929866828801

CONSUMO TOTAL DEL PAÍS