

**PESIN
2023**

TOMO I

ANEXO II

VARIABLES HISTÓRICAS Y
PROYECCIÓN DE LA
DEMANDA

Datos Históricos de las Distribuidoras

AÑO	CONSUMOS											
	ALUMBRADO PÚBLICO			COMERCIAL			GOBIERNO			INDUSTRIAL		
	EDECHI	EDEMET	ENSA	EDECHI	EDEMET	ENSA	EDECHI	EDEMET	ENSA	EDECHI	EDEMET	ENSA
2001	16,746.00	45,160.00	23,439.34	125,550.00	906,240.00	586,030.00	30,990.00	339,860.00	204,770.00	46,050.00	154,570.00	228,544.00
2002	12,470.00	40,520.00	26,182.00	137,700.00	961,280.00	627,545.00	33,350.00	338,760.00	209,207.00	45,060.00	129,480.00	200,176.00
2003	14,850.00	45,960.00	34,126.00	137,520.00	1,092,210.00	670,156.00	34,540.00	342,740.00	212,637.00	55,320.00	42,250.00	197,699.00
2004	17,490.00	50,640.00	38,719.00	137,590.00	1,177,950.00	701,632.00	44,190.00	356,700.00	234,869.00	55,610.00	42,290.00	187,857.00
2005	17,960.00	53,300.00	38,887.00	139,870.00	1,234,530.00	754,165.00	45,870.00	349,710.00	245,339.00	54,330.00	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	140,503.78	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	139,729.03	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	56,910.69	248,980.00	1,898,190.00	1,224,989.62	63,180.00	414,120.00	381,118.44	49,950.00	190,170.00	225,041.34
2015	31,140.00	89,660.00	59,922.68	310,000.00	2,059,590.00	1,334,533.45	70,890.00	465,720.00	413,541.29	49,760.00	181,450.00	228,003.54
2016	35,561.27	95,205.29	63,087.90	322,528.81	2,146,580.59	1,407,222.56	86,731.10	481,222.83	426,489.80	51,405.27	179,540.50	218,715.98
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
2019	40,700.34	115,073.32	68,861.18	342,098.17	2,240,530.00	1,217,240.00	106,173.52	506,740.00	506,100.00	51,219.68	118,870.00	83,740.00
2020	41,656.04	119,662.40	61,986.14	308,733.02	1,749,830.00	807,885.76	100,970.27	454,580.00	452,629.68	48,171.03	85,330.00	41,039.94
2021	41,581.14	119,757.47	51,166.39	354,600.72	1,952,430.00	858,526.01	105,779.19	482,300.00	480,232.70	41,359.62	84,180.00	46,522.54
2022	41,340.00	117,340.00	53,390.83	377,700.00	2,106,610.00	935,522.00	117,120.00	520,030.00	520,462.00	39,990.00	86,100.00	49,439.00

AÑO	CONSUMOS (MWh)						PÉRDIDAS (%)					
	RESIDENCIAL			OTROS			NO TÉCNICAS			TÉCNICAS		
	EDECHI	EDEMET	ENSA	EDECHI	EDEMET	ENSA	EDECHI	EDEMET	ENSA	EDECHI	EDEMET	ENSA
2001	109,090.00	546,370.00	506,340.00	3,930.00	4,930.00	3,355.30	4.9%	7.6%	6.2%	3.8%	5.8%	3.3%
2002	121,660.00	590,900.00	548,460.00	4,020.00	4,580.00	10,660.00	4.6%	8.3%	6.2%	3.5%	6.4%	3.4%
2003	122,570.00	621,740.00	596,944.00	1,250.00	6,650.00	3,377.00	5.2%	7.9%	6.3%	4.0%	6.1%	3.4%
2004	128,530.00	677,040.00	632,178.00	1,130.00	7,230.00	4,331.00	5.1%	6.3%	6.3%	3.9%	4.8%	3.4%
2005	134,030.00	694,150.00	667,650.00	1,070.00	7,500.00	3,854.00	5.2%	6.1%	6.4%	4.0%	4.7%	3.4%
2006	137,671.00	710,532.00	686,002.00	-	7,780.22	3,735.00	5.5%	6.7%	6.4%	4.3%	5.2%	3.5%
2007	149,520.00	747,930.00	731,013.00	-	8,554.97	3,738.00	5.4%	5.4%	6.5%	4.2%	4.2%	3.5%
2008	155,121.82	750,908.63	741,150.00	1,684.15	12,045.84	2,983.00	4.4%	5.4%	6.5%	3.4%	4.1%	3.5%
2009	175,360.00	835,170.00	791,411.00	540.00	4,230.00	2,886.00	4.8%	6.0%	6.5%	3.7%	4.6%	4.5%
2010	191,290.00	910,370.00	872,384.00	430.00	4,180.00	2,666.00	5.4%	5.7%	6.6%	4.1%	4.4%	4.9%
2011	203,540.00	960,650.00	919,934.00	420.00	4,270.00	2,660.00	5.5%	5.8%	6.6%	4.2%	4.5%	4.7%
2012	220,310.00	1,041,090.00	986,615.00	470.00	4,590.00	2,700.00	5.2%	5.8%	6.6%	4.0%	4.5%	4.6%
2013	230,900.00	1,116,990.00	1,032,117.00	530.00	4,560.00	2,750.00	5.0%	5.7%	4.9%	3.9%	4.4%	5.4%
2014	245,100.00	1,194,360.00	1,088,851.90	610.00	4,420.00	2,836.69	5.9%	5.8%	5.1%	4.5%	4.4%	5.6%
2015	271,600.00	1,273,170.00	1,170,155.16	720.00	4,690.00	2,867.90	7.1%	6.0%	5.4%	5.5%	4.6%	6.8%
2016	301,741.48	1,272,670.32	1,220,690.12	780.44	4,745.84	3,292.26	6.5%	6.1%	5.6%	5.0%	4.7%	7.4%
2017	310,091.38	1,313,144.31	1,255,690.82	799.96	4,510.72	3,975.75	12.1%	6.9%	5.8%	1.3%	3.3%	7.1%
2018	319,365.91	1,323,663.38	1,264,046.95	800.47	4,328.17	3,056.76	3.1%	5.1%	5.8%	0.8%	2.6%	7.0%
2019	345,621.12	1,383,430.00	1,330,830.00	699.76	4,146.68	2,703.50	11.2%	9.3%	5.3%	1.6%	4.4%	5.4%
2020	365,445.96	1,452,450.00	1,453,412.18	733.96	3,487.60	2,703.02	11.2%	9.3%	5.7%	1.6%	4.4%	6.2%
2021	374,615.13	1,474,910.00	1,473,534.02	732.92	3,592.53	4,609.52	11.2%	9.3%	5.7%	1.6%	4.4%	4.9%
2022	381,880.00	1,468,270.00	1,440,784.00	710.00	4,760.00	2,250.00	10.2%	9.3%	5.4%	3.3%	5.3%	4.3%

Nota: El porcentaje (%) de perdidas es respecto al total de sistema.

Datos Históricos de los Grandes Usuarios

AÑO	GRANDES USUARIOS									
	ARGOS		CEMEX		CNAL		METROAND		METRO5MAY	
	MWh	% Pérdidas	MWh	% Pérdidas	MWh	% Pérdidas	MWh	% Pérdidas	MWh	% Pérdidas
2001	5,196.13	0.11	45,045.51	0.32	0.00	0.00	0.00	0.00	0.00	0.00
2002	22,021.22	0.45	48,755.04	0.45	0.00	0.00	0.00	0.00	0.00	0.00
2003	24,098.46	0.34	50,283.76	0.34	0.00	0.00	0.00	0.00	0.00	0.00
2004	25,891.70	0.40	54,523.40	0.40	0.00	0.00	0.00	0.00	0.00	0.00
2005	25,359.11	0.34	32,497.69	0.22	0.00	0.00	0.00	0.00	0.00	0.00
2006	32,623.50	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	34,361.03	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	36,333.24	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	36,856.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	42,348.75	0.24	129,539.05	0.24	0.00	0.00	0.00	0.00	0.00	0.00
2011	41,462.44	0.26	122,722.57	0.26	0.00	0.00	0.00	0.00	0.00	0.00
2012	44,216.96	0.34	123,949.79	0.34	0.00	0.00	0.00	0.00	0.00	0.00
2013	45,315.04	0.31	125,189.29	0.31	0.00	0.00	0.00	0.00	0.00	0.00
2014	44,435.67	0.34	126,441.18	0.34	0.00	0.00	0.00	0.00	0.00	0.00
2015	48,757.37	0.43	127,705.59	0.43	0.00	0.00	0.00	0.00	0.00	0.00
2016	52,170.38	0.41	128,982.65	0.41	0.00	0.00	0.00	0.00	0.00	0.00
2017	35,983.06	0.44	120,343.13	0.44	11,379.71	0.43	0.00	0.00	0.00	0.00
2018	35,728.34	0.44	123,926.21	0.44	27,602.70	0.61	0.00	0.00	0.00	0.00
2019	28,658.67	0.29	103,860.03	0.29	26,323.04	1.11	0.00	0.00	0.00	0.00
2020	17,753.54	0.46	55,169.20	0.46	18,559.77	1.11	17,153.46	0.53	23,614.87	1.11
2021	23,530.57	0.47	93,300.48	0.47	21,933.85	1.11	20,270.18	0.53	25,678.21	1.11
2022	25,346.00	0.47	102,949.32	0.47	19,466.00	1.11	19,997.66	0.53	25,204.68	1.11

Nota: El porcentaje (%) de perdidas es respecto al total de sistema.

AÑO	GRANDES USUARIOS											
	PTPCGL		PTPPSA		PTPPSB		PHTOC71		POTMEN		MANZANILLO1	
	MWh	% Pérdidas	MWh	% Pérdidas	MWh	% Pérdidas	MWh	% Pérdidas	MWh	% Pérdidas	MWh	% Pérdidas
2001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	10,307.46	0.20	19,602.60	0.20	17,265.71	0.20	15,192.74	0.43	18,933.25	0.97	37,645.85	0.43
2020	15,303.64	0.46	28,655.47	0.46	25,380.91	0.46	20,725.48	0.53	27,051.54	1.11	55,477.85	0.53
2021	15,430.72	0.47	31,079.03	0.47	27,189.68	0.47	23,580.38	0.53	25,608.42	1.11	66,235.96	0.53
2022	12,275.18	0.47	33,948.78	0.47	28,686.23	0.47	25,091.83	0.53	26,846.86	1.11	67,219.80	0.53

Nota: El porcentaje (%) de perdidas es respecto al total de sistema.

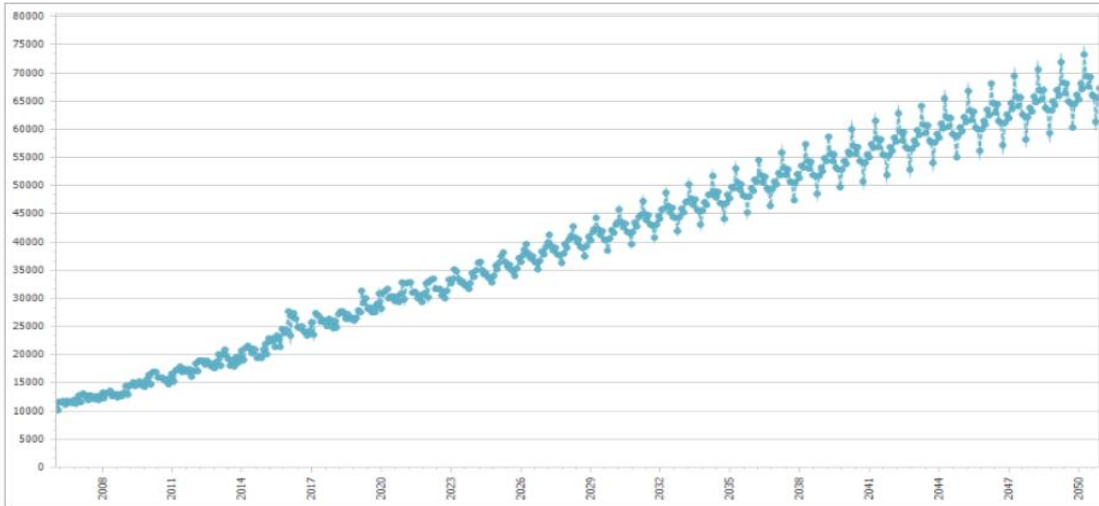
Datos Históricos de las Variables Explicativas

AÑO	IMAE	PIB	PIBIND	PIBCOM	POB	COSTMARG	EDISPSIST
	Millones de Balboa				Habitantes	Balboas/MWh	MWh
2001	1,477.89	13,266.11	1,355.61	3,111.56	1,930,694.00	51.70	4,573,988.25
2002	1,484.96	13,561.99	1,319.73	3,088.70	1,975,972.00	45.55	4,757,313.37
2003	1,542.17	14,147.55	1,298.25	3,105.32	2,021,641.00	55.59	4,918,006.87
2004	1,651.96	15,211.02	1,332.44	3,426.66	2,067,864.00	56.54	5,105,971.95
2005	1,749.98	16,287.68	1,356.22	3,832.21	2,114,807.00	90.00	5,274,143.29
2006	1,896.30	17,696.90	1,408.69	4,260.50	2,162,508.00	125.60	5,495,325.11
2007	2,081.26	19,771.87	1,492.82	4,666.22	2,210,864.00	155.48	5,826,416.79
2008	2,291.70	21,822.69	1,547.64	5,074.27	2,259,826.00	232.50	6,017,948.70
2009	2,327.26	22,520.74	1,542.50	4,937.04	2,309,354.00	153.61	6,376,160.16
2010	2,469.80	24,389.34	1,553.60	5,691.50	2,359,365.00	178.27	6,885,594.48
2011	2,682.88	26,995.35	1,604.01	6,442.05	2,409,709.00	222.21	7,300,859.51
2012	2,942.03	29,876.34	1,662.41	6,994.14	2,460,595.00	193.76	7,926,023.06
2013	3,188.41	31,851.90	1,699.83	7,266.56	2,511,951.00	211.43	8,280,919.12
2014	3,342.85	33,780.00	1,956.72	7,266.45	2,563,687.00	217.05	8,651,202.05
2015	3,482.77	35,731.60	1,930.51	7,609.63	2,615,725.00	91.13	9,336,859.60
2016	3,634.74	36,981.30	1,922.74	7,690.86	2,668,169.00	60.39	9,611,190.33
2017	3,823.62	38,456.90	2,131.29	7,212.79	2,721,062.00	58.51	9,848,624.43
2018	3,889.12	39,887.70	2,146.22	7,469.69	2,774,246.00	76.70	9,954,956.82
2019	4,018.18	40,845.07	2,176.26	7,875.97	2,873,562.00	91.40	10,320,218.20
2020	3,421.53	35,319.78	1,693.52	6,313.89	2,931,098.20	46.97	9,521,091.79
2021	3,931.47	40,736.36	1,881.90	7,526.82	2,988,271.30	71.74	10,139,032.51
2022	4,281.64	43,930.84	1,950.38	8,409.40	3,028,152.43	106.89	10,455,325.68

Proyección de la Demanda en el Escenario Bajo

EDECHI

Consumo Residencial



OLS Regression Results

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Dep. Variable:          CRES      R-squared:                0.978
Model:                 OLS      Adj. R-squared:           0.977
Method:                Least Squares  F-statistic:              619.6
Date:                  Mon, 19 Jun 2023  Prob (F-statistic):      1.27e-140
Time:                  12:32:07    Log-Likelihood:           321.72
No. Observations:      192      AIC:                      -615.4
Df Residuals:          178      BIC:                      -569.8
Df Model:              13
Covariance Type:      nonrobust
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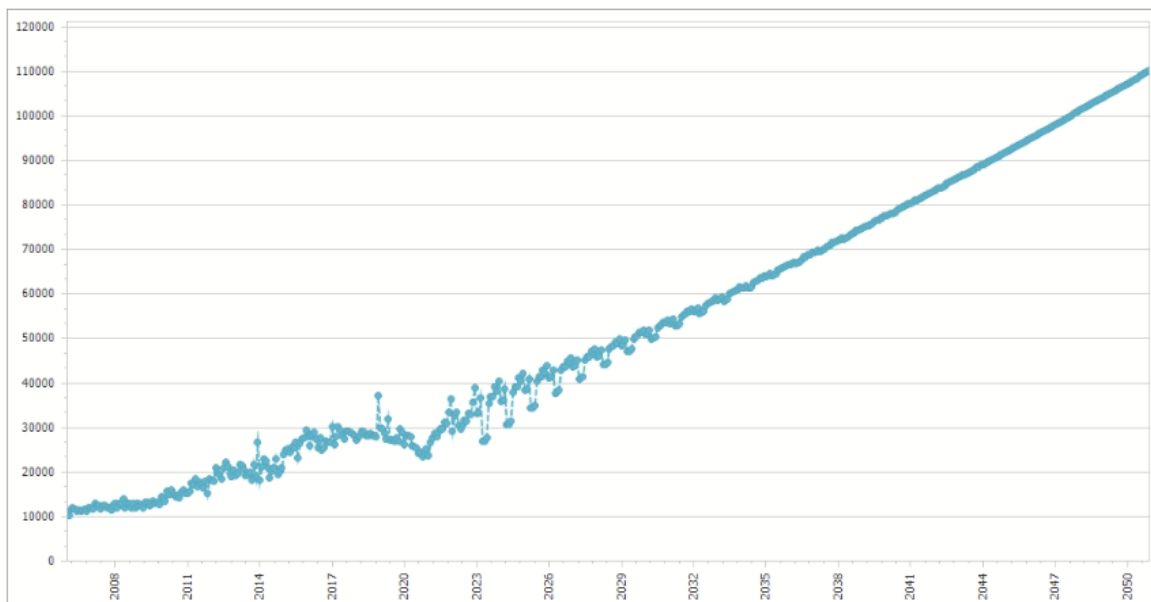
	coef	std err	t	P> t	[0.025	0.975]
const	0.6892	0.113	6.110	0.000	0.467	0.912
CRES_12	0.1000	0.043	2.328	0.021	0.015	0.185
IMAE	0.8802	0.030	29.235	0.000	0.821	0.940
M2	0.0049	0.017	0.294	0.769	-0.028	0.038
M3	0.0027	0.017	0.161	0.872	-0.030	0.036
M4	0.0133	0.017	0.793	0.429	-0.020	0.046
M5	0.0067	0.017	0.402	0.688	-0.026	0.040
M6	0.0034	0.017	0.205	0.838	-0.029	0.036
M7	0.0062	0.017	0.372	0.710	-0.027	0.039
M8	0.0002	0.017	0.014	0.989	-0.033	0.033
M9	-0.0004	0.017	-0.025	0.980	-0.033	0.032
M10	-0.0092	0.017	-0.542	0.588	-0.042	0.024
M11	-0.0012	0.017	-0.071	0.943	-0.034	0.032
M12	0.0014	0.017	0.086	0.932	-0.032	0.034

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Omnibus:                23.786    Durbin-Watson:           0.678
Prob(Omnibus):          0.000    Jarque-Bera (JB):        30.950
Skew:                   0.788    Prob(JB):                 1.90e-07
Kurtosis:               4.178    Cond. No.                 390.
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Consumo Comercial



OLS Regression Results

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Dep. Variable:          CCOM      R-squared:                0.914
Model:                  OLS       Adj. R-squared:           0.913
Method:                 Least Squares   F-statistic:              1006.
Date:                   Mon, 19 Jun 2023   Prob (F-statistic):       7.92e-102
Time:                   12:46:03         Log-Likelihood:           175.17
No. Observations:      193          AIC:                      -344.3
Df Residuals:          190          BIC:                      -334.6
Df Model:               2
Covariance Type:       nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
const	0.1819	0.228	0.799	0.425	-0.267	0.631
log(PIBCOM)	0.3637	0.049	7.406	0.000	0.267	0.461
log(CCOM(-12))	0.7557	0.030	25.537	0.000	0.697	0.814

```

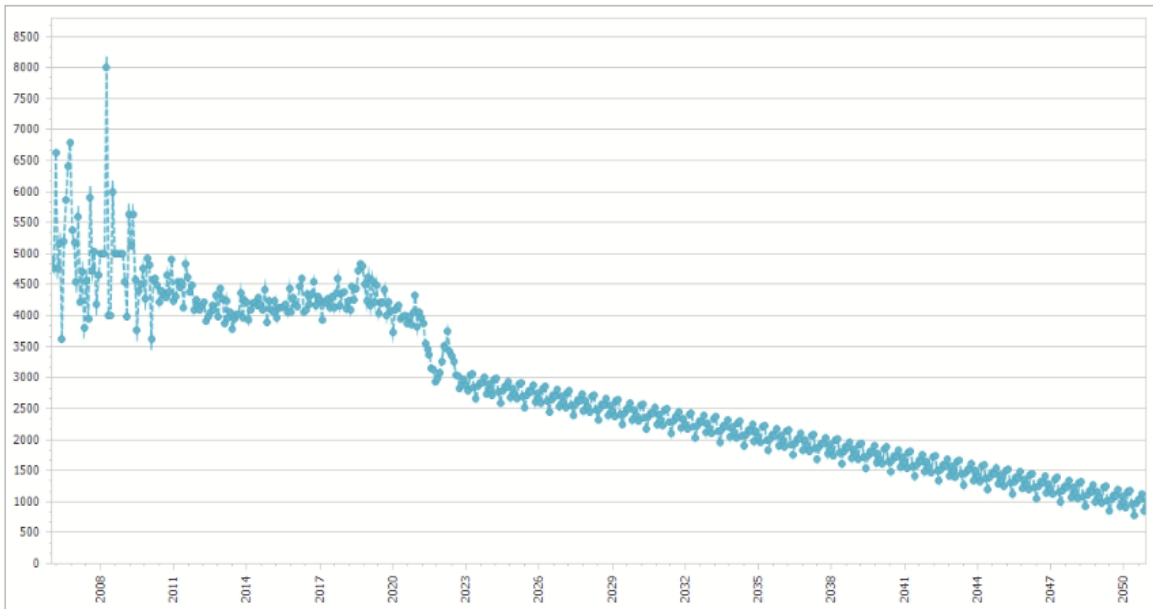
=====
Omnibus:                1.288      Durbin-Watson:           1.180
Prob(Omnibus):          0.525      Jarque-Bera (JB):        0.934
Skew:                   0.082      Prob(JB):                 0.627
Kurtosis:               3.299      Cond. No.                 381.
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Consumo Industrial



```

=====
                        OLS Regression Results
=====
Dep. Variable:                CIND    R-squared:                0.451
Model:                        OLS     Adj. R-squared:           0.417
Method:                       Least Squares   F-statistic:              13.09
Date:                          Mon, 19 Jun 2023   Prob (F-statistic):       2.00e-19
Time:                          12:52:23     Log-Likelihood:           -1551.8
No. Observations:              204     AIC:                      3130.
Df Residuals:                  191     BIC:                      3173.
Df Model:                      12
Covariance Type:               nonrobust
=====

```

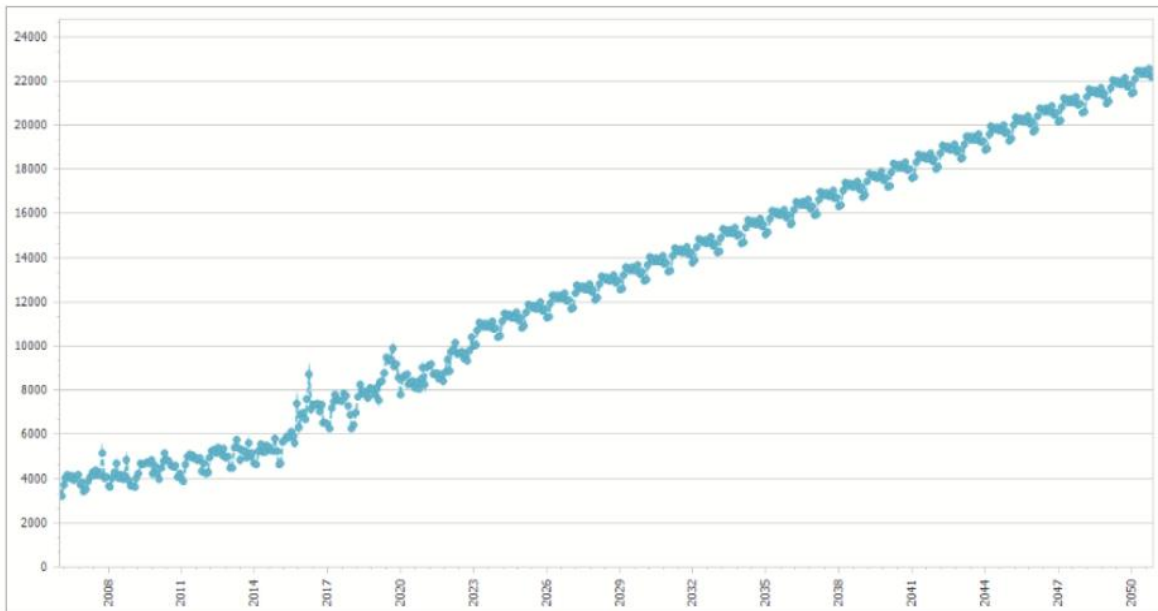
	coef	std err	t	P> t	[0.025	0.975]
const	4988.2355	135.174	36.902	0.000	4721.610	5254.861
trend	-7.1251	0.599	-11.890	0.000	-8.307	-5.943
m2	-98.2414	172.588	-0.569	0.570	-438.664	242.181
m3	211.7755	172.591	1.227	0.221	-128.653	552.204
m4	245.5159	172.596	1.422	0.157	-94.923	585.955
m5	-24.2413	172.603	-0.140	0.888	-364.695	316.212
m6	-229.7120	172.613	-1.331	0.185	-570.184	110.760
m7	12.1337	172.624	0.070	0.944	-328.361	352.628
m8	104.3311	172.638	0.604	0.546	-236.190	444.852
m9	94.1539	172.653	0.545	0.586	-246.398	434.706
m10	226.6355	172.671	1.313	0.191	-113.951	567.222
m11	-95.6876	172.691	-0.554	0.580	-436.313	244.938
m12	103.5828	172.712	0.600	0.549	-237.086	444.251

```

=====
Omnibus:                      81.563    Durbin-Watson:            1.382
Prob(Omnibus):                 0.000    Jarque-Bera (JB):         442.188
Skew:                          1.436    Prob(JB):                  9.55e-97
Kurtosis:                      9.616    Cond. No.:                 1.47e+03
=====

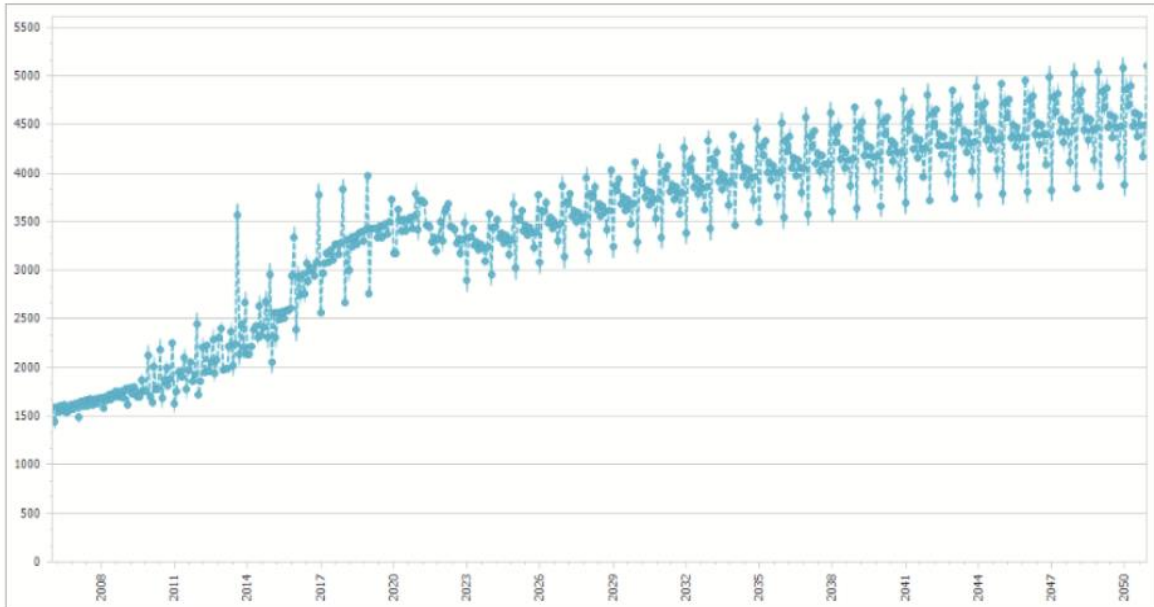
```

Consumo Gobierno



OLS Regression Results						
Dep. Variable:	CGOB		R-squared:	0.913		
Model:	OLS		Adj. R-squared:	0.908		
Method:	Least Squares		F-statistic:	167.0		
Date:	Mon, 19 Jun 2023		Prob (F-statistic):	2.66e-94		
Time:	12:57:50		Log-Likelihood:	-1586.0		
No. Observations:	204		AIC:	3198.		
Df Residuals:	191		BIC:	3241.		
Df Model:	12					
Covariance Type:	nonrobust					
	coef	std err	t	P> t	[0.025	0.975]
const	2449.9311	159.816	15.330	0.000	2134.700	2765.163
trend	31.2708	0.709	44.136	0.000	29.873	32.668
m2	29.7204	204.051	0.146	0.884	-372.762	432.203
m3	560.3408	204.054	2.746	0.007	157.851	962.831
m4	850.1448	204.061	4.166	0.000	447.643	1252.647
m5	776.8134	204.069	3.807	0.000	374.295	1179.332
m6	643.6997	204.080	3.154	0.002	241.159	1046.240
m7	720.9854	204.094	3.533	0.001	318.418	1123.553
m8	554.2423	204.110	2.715	0.007	151.643	956.841
m9	538.3127	204.128	2.637	0.009	135.677	940.948
m10	723.7702	204.149	3.545	0.000	321.094	1126.447
m11	363.0712	204.173	1.778	0.077	-39.651	765.794
m12	408.7581	204.198	2.002	0.047	5.985	811.532
Omnibus:	1.214		Durbin-Watson:	0.404		
Prob(Omnibus):	0.545		Jarque-Bera (JB):	1.299		
Skew:	0.176		Prob(JB):	0.522		
Kurtosis:	2.829		Cond. No.	1.47e+03		

Consumo alumbrado



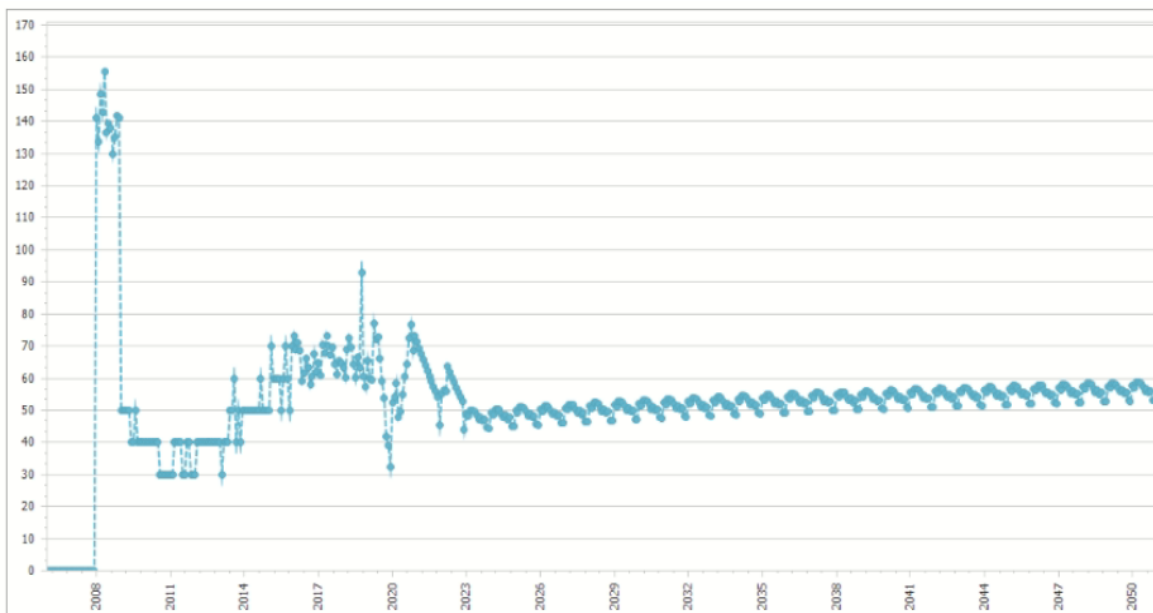
OLS Regression Results

Dep. Variable:	CALP	R-squared:	0.933
Model:	OLS	Adj. R-squared:	0.929
Method:	Least Squares	F-statistic:	208.7
Date:	Mon, 19 Jun 2023	Prob (F-statistic):	2.31e-98
Time:	13:02:43	Log-Likelihood:	227.16
No. Observations:	192	AIC:	-428.3
Df Residuals:	179	BIC:	-386.0
Df Model:	12		
Covariance Type:	nonrobust		

	coef	std err	t	P> t	[0.025	0.975]
const	0.5214	0.148	3.527	0.001	0.230	0.813
CALP_12	0.9378	0.019	48.982	0.000	0.900	0.976
M2	0.0152	0.027	0.560	0.576	-0.038	0.069
M3	0.0125	0.027	0.460	0.646	-0.041	0.066
M4	0.0154	0.027	0.564	0.573	-0.038	0.069
M5	0.0094	0.027	0.345	0.730	-0.044	0.063
M6	0.0114	0.027	0.418	0.676	-0.042	0.065
M7	0.0078	0.027	0.287	0.774	-0.046	0.062
M8	0.0111	0.027	0.407	0.684	-0.043	0.065
M9	0.0095	0.027	0.350	0.727	-0.044	0.063
M10	0.0046	0.027	0.167	0.867	-0.049	0.058
M11	0.0097	0.027	0.355	0.723	-0.044	0.063
M12	0.0178	0.028	0.647	0.519	-0.037	0.072

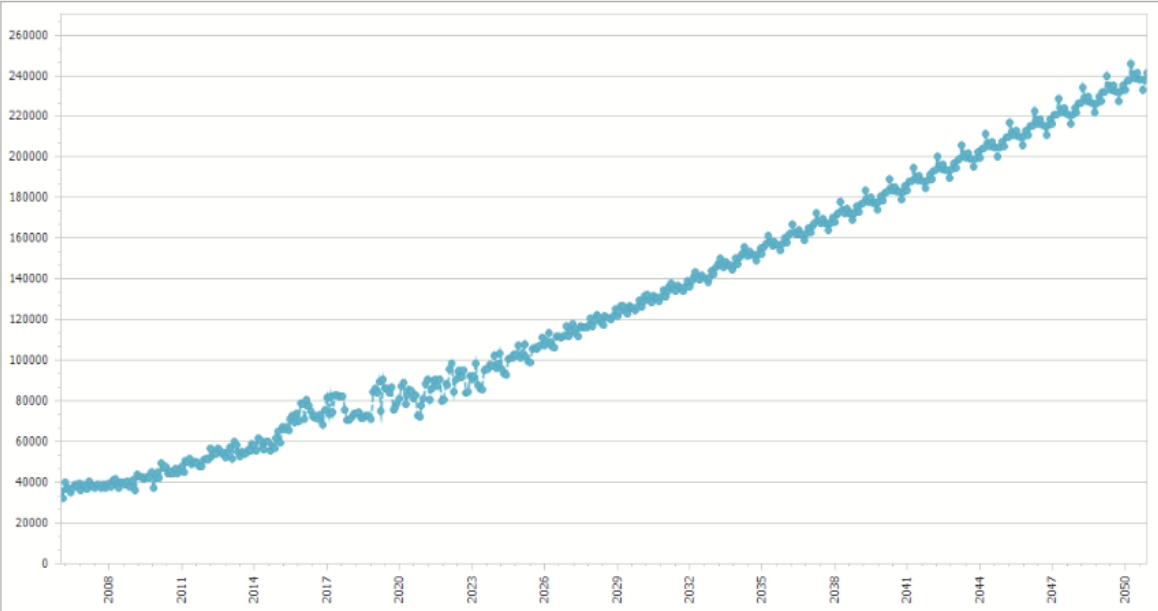
Omnibus:	46.048	Durbin-Watson:	1.987
Prob(Omnibus):	0.000	Jarque-Bera (JB):	735.177
Skew:	-0.185	Prob(JB):	2.28e-160
Kurtosis:	12.579	Cond. No.	211.

Consumo Otros



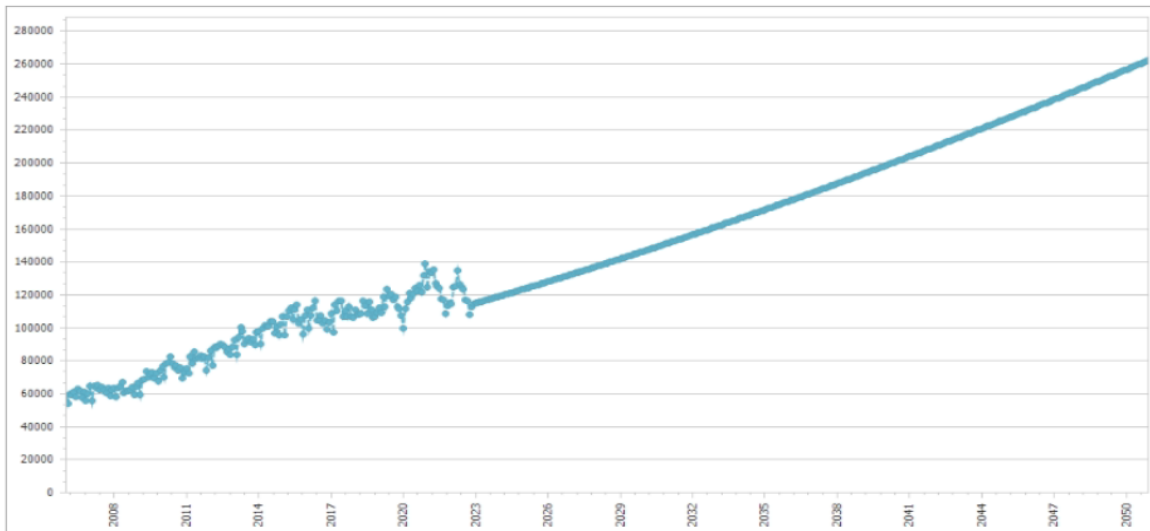
OLS Regression Results						
Dep. Variable:	COIR		R-squared:	0.163		
Model:	OLS		Adj. R-squared:	0.111		
Method:	Least Squares		F-statistic:	3.103		
Date:	Mon, 19 Jun 2023		Prob (F-statistic):	0.000488		
Time:	13:09:42		Log-Likelihood:	-967.31		
No. Observations:	204		AIC:	1961.		
Df Residuals:	191		BIC:	2004.		
Df Model:	12					
Covariance Type:	nonrobust					
	coef	std err	t	P> t	[0.025	0.975]
const	-1.5107	11.215	-0.135	0.893	-23.632	20.610
@trend	12.7675	2.116	6.035	0.000	8.594	16.941
M2	-0.9144	9.833	-0.093	0.926	-20.310	18.481
M3	1.3392	9.834	0.136	0.892	-18.059	20.737
M4	1.2765	9.836	0.130	0.897	-18.124	20.678
M5	0.8830	9.838	0.090	0.929	-18.521	20.288
M6	-0.7501	9.840	-0.076	0.939	-20.158	18.658
M7	-2.4610	9.842	-0.250	0.803	-21.873	16.951
M8	-1.6505	9.844	-0.168	0.867	-21.067	17.766
M9	-3.2130	9.846	-0.326	0.745	-22.633	16.207
M10	-2.6543	9.848	-0.270	0.788	-22.079	16.770
M11	-6.3245	9.850	-0.642	0.522	-25.753	13.104
M12	-6.5270	9.852	-0.662	0.508	-25.960	12.906
Omnibus:	130.729	Durbin-Watson:	0.232			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	697.781			
Skew:	2.631	Prob(JB):	3.01e-152			
Kurtosis:	10.376	Cond. No.	56.8			

Consumo Total



EDEMET

Consumo Residencial



OLS Regression Results

```

=====
Dep. Variable:          CRES      R-squared:                0.919
Model:                  OLS      Adj. R-squared:           0.918
Method:                 Least Squares  F-statistic:              1144.
Date:                   Mon, 19 Jun 2023  Prob (F-statistic):       1.45e-110
Time:                   10:35:34   Log-Likelihood:           249.94
No. Observations:      204        AIC:                      -493.9
Df Residuals:          201        BIC:                      -483.9
Df Model:               2
Covariance Type:       nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
const	-13.3608	1.505	-8.880	0.000	-16.328	-10.394
log(PIB)	0.3028	0.046	6.546	0.000	0.212	0.394
log(POB)	1.5194	0.124	12.225	0.000	1.274	1.764

```

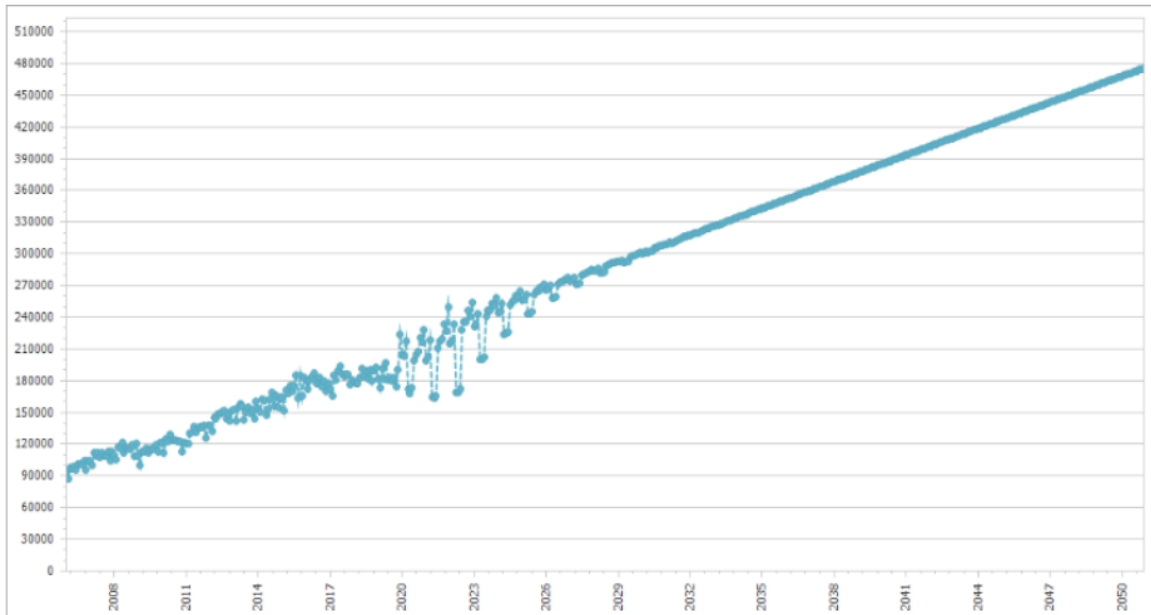
=====
Omnibus:                8.254   Durbin-Watson:           0.683
Prob(Omnibus):          0.016   Jarque-Bera (JB):        8.202
Skew:                   -0.484   Prob(JB):                 0.0166
Kurtosis:               3.171   Cond. No.                 5.04e+03
=====

```

Notes:

- [1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
- [2] The condition number is large, 5.04e+03. This might indicate that there are strong multicollinearity or other numerical problems.

Consumo Comercial



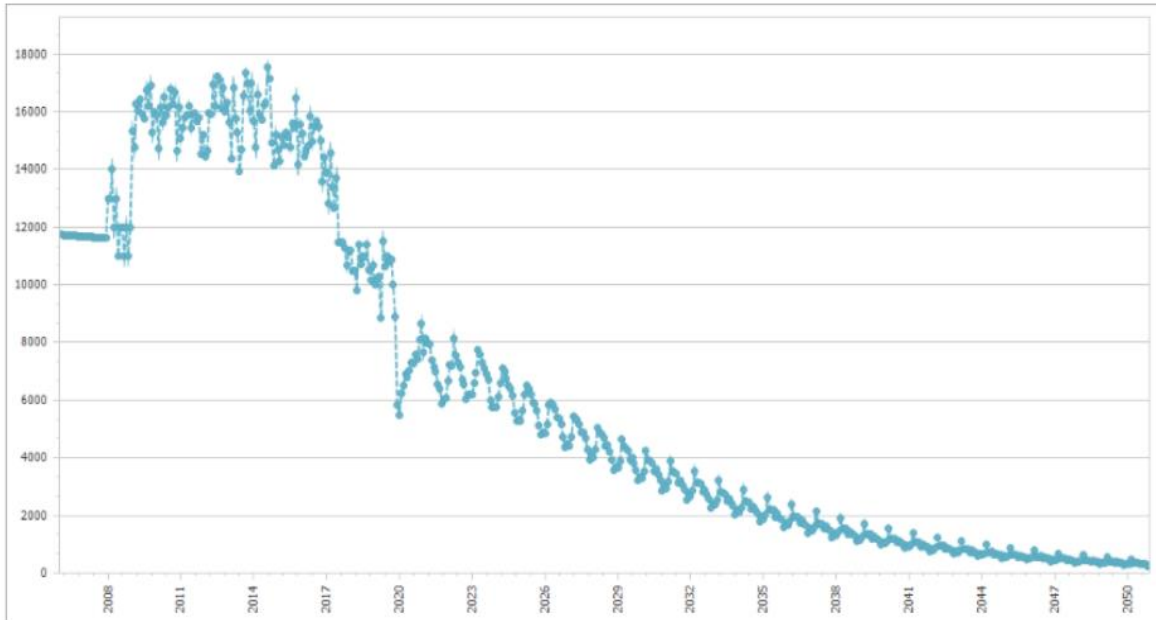
OLS Regression Results

Dep. Variable:	Unnamed: 0	R-squared:	0.931			
Model:	OLS	Adj. R-squared:	0.930			
Method:	Least Squares	F-statistic:	1043.			
Date:	Mon, 19 Jun 2023	Prob (F-statistic):	2.85e-90			
Time:	10:41:14	Log-Likelihood:	239.92			
No. Observations:	157	AIC:	-473.8			
Df Residuals:	154	BIC:	-464.7			
Df Model:	2					
Covariance Type:	nonrobust					
	coef	std err	t	P> t	[0.025	0.975]
const	2.3498	0.266	8.831	0.000	1.824	2.875
log(PIBCOM)	0.3569	0.044	8.131	0.000	0.270	0.444
log(CCOM(-12))	0.6160	0.039	15.703	0.000	0.538	0.693
Omnibus:	1.663	Durbin-Watson:	1.742			
Prob(Omnibus):	0.435	Jarque-Bera (JB):	1.267			
Skew:	-0.103	Prob(JB):	0.531			
Kurtosis:	3.389	Cond. No.	856.			

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Consumo Industrial



```

=====
                        OLS Regression Results
=====
Dep. Variable:          CIND      R-squared:             0.753
Model:                  OLS      Adj. R-squared:       0.735
Method:                 Least Squares  F-statistic:         41.72
Date:                   Mon, 19 Jun 2023  Prob (F-statistic):  4.38e-47
Time:                   10:44:34  Log-Likelihood:      82.246
No. Observations:      192      AIC:                 -136.5
Df Residuals:          178      BIC:                 -90.89
Df Model:               13
Covariance Type:       nonrobust
=====

```

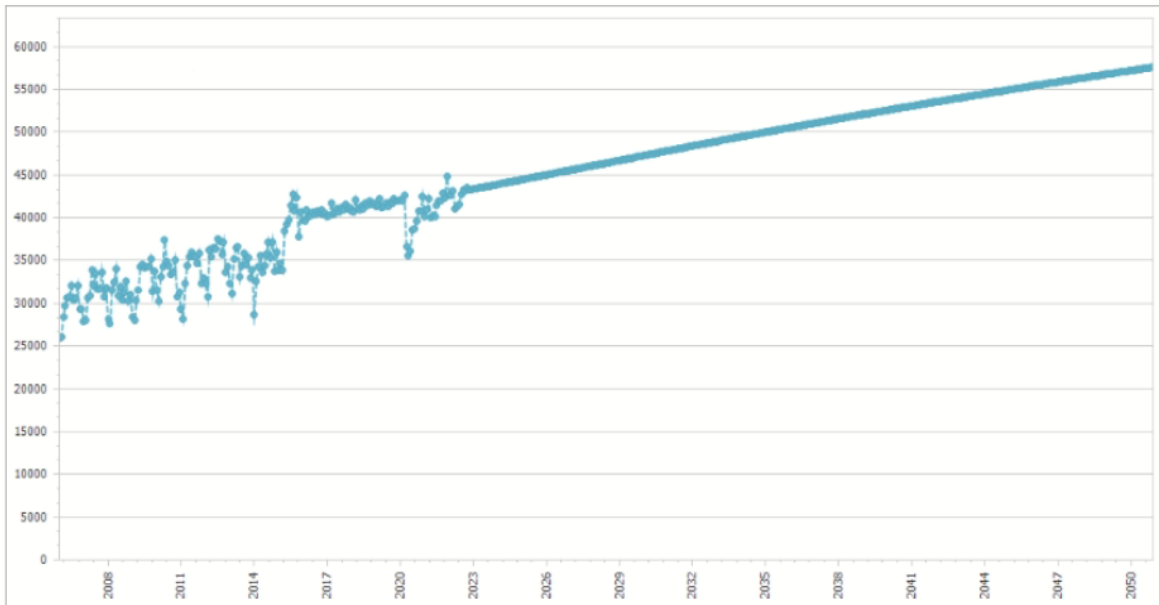
	coef	std err	t	P> t	[0.025	0.975]
const	1.9965	0.611	3.266	0.001	0.790	3.203
CIND_12	-0.3076	0.083	-3.703	0.000	-0.472	-0.144
PIBIND	0.9473	0.043	22.273	0.000	0.863	1.031
M2	0.0052	0.058	0.089	0.929	-0.109	0.119
M3	0.0318	0.058	0.546	0.586	-0.083	0.147
M4	0.0072	0.058	0.125	0.901	-0.107	0.122
M5	0.0081	0.058	0.140	0.889	-0.106	0.122
M6	0.0106	0.058	0.184	0.854	-0.104	0.125
M7	0.0009	0.058	0.016	0.987	-0.113	0.115
M8	0.0082	0.058	0.142	0.887	-0.106	0.123
M9	0.0035	0.058	0.060	0.952	-0.111	0.118
M10	0.0066	0.058	0.115	0.909	-0.108	0.121
M11	-0.0071	0.058	-0.123	0.902	-0.121	0.107
M12	0.0023	0.058	0.039	0.969	-0.112	0.117

```

=====
Omnibus:                41.087  Durbin-Watson:         0.311
Prob(Omnibus):          0.000  Jarque-Bera (JB):     102.720
Skew:                   -0.920  Prob(JB):              4.95e-23
Kurtosis:                6.075  Cond. No.              559.
=====

```

Consumo Gobierno



OLS Regression Results

```

=====
Dep. Variable:          Unnamed: 0      R-squared:              0.807
Model:                  OLS             Adj. R-squared:        0.807
Method:                 Least Squares   F-statistic:           847.2
Date:                   Mon, 19 Jun 2023  Prob (F-statistic):    3.37e-74
Time:                   10:59:16        Log-Likelihood:        293.73
No. Observations:      204             AIC:                   -583.5
Df Residuals:          202             BIC:                   -576.8
Df Model:               1
Covariance Type:       nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
const	7.2236	0.113	64.134	0.000	7.002	7.446
log(PIB)	0.4176	0.014	29.107	0.000	0.389	0.446

```

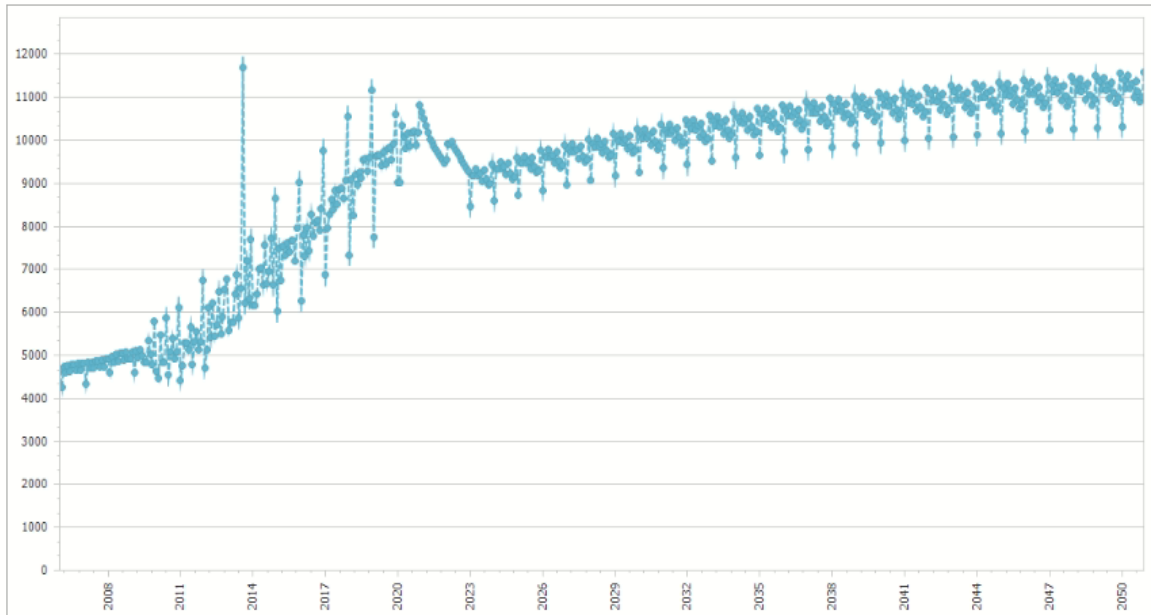
=====
Omnibus:                40.061      Durbin-Watson:         0.572
Prob(Omnibus):          0.000      Jarque-Bera (JB):     61.506
Skew:                   -1.093     Prob(JB):              4.41e-14
Kurtosis:               4.569      Cond. No.              223.
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Consumo alumbrado



OLS Regression Results

```

=====
Dep. Variable:          CALP      R-squared:          0.886
Model:                 OLS       Adj. R-squared:    0.879
Method:               Least Squares  F-statistic:       116.4
Date:                 Mon, 19 Jun 2023  Prob (F-statistic): 9.02e-78
Time:                 11:37:09     Log-Likelihood:    -1526.9
No. Observations:     192        AIC:               3080.
Df Residuals:         179        BIC:               3122.
Df Model:              12
Covariance Type:      nonrobust
=====

```

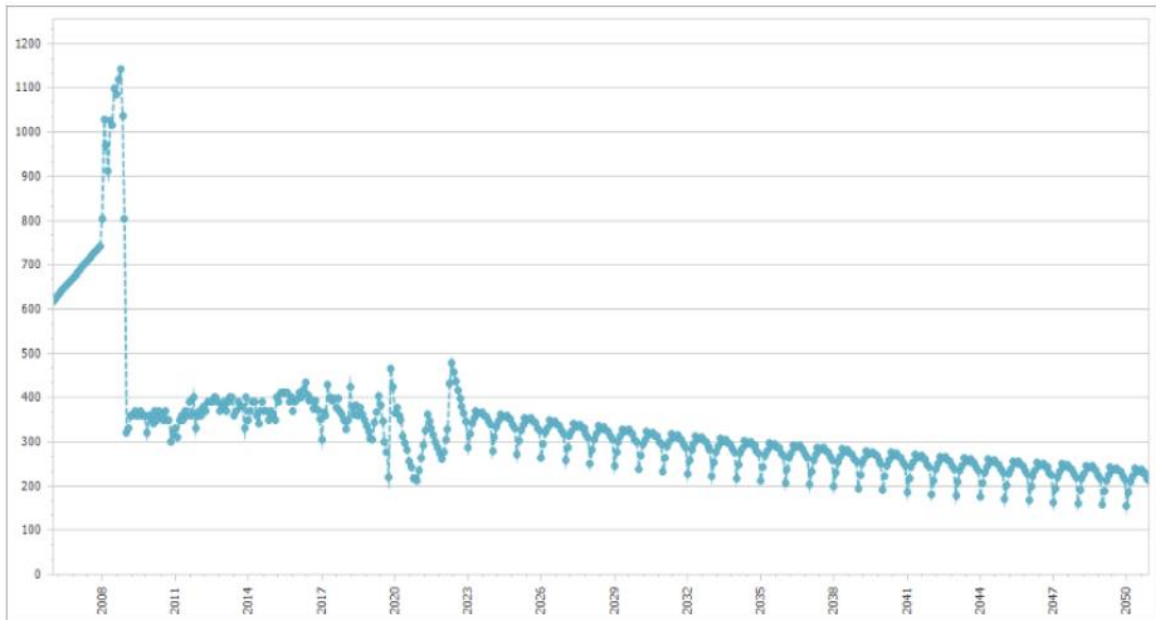
	coef	std err	t	P> t	[0.025	0.975]
const	674.6867	238.837	2.825	0.005	203.388	1145.985
CALP_12	0.9402	0.026	36.545	0.000	0.889	0.991
m2	74.1168	252.085	0.294	0.769	-423.325	571.558
m3	59.0974	252.445	0.234	0.815	-439.053	557.248
m4	78.1264	252.639	0.309	0.757	-420.407	576.660
m5	57.9070	252.625	0.229	0.819	-440.600	556.414
m6	67.1345	252.796	0.266	0.791	-431.710	565.979
m7	45.3136	252.565	0.179	0.858	-453.074	543.702
m8	69.5202	253.864	0.274	0.785	-431.431	570.471
m9	53.2219	252.916	0.210	0.834	-445.859	552.303
m10	36.5388	252.833	0.145	0.885	-462.378	535.456
m11	44.7810	252.976	0.177	0.860	-454.419	543.981
m12	82.9539	256.101	0.324	0.746	-422.412	588.320

```

=====
Omnibus:              72.528     Durbin-Watson:      1.763
Prob(Omnibus):        0.000     Jarque-Bera (JB):   5274.429
Skew:                 -0.173    Prob(JB):           0.00
Kurtosis:             28.675    Cond. No.           9.11e+04
=====

```

Consumo Otros



OLS Regression Results

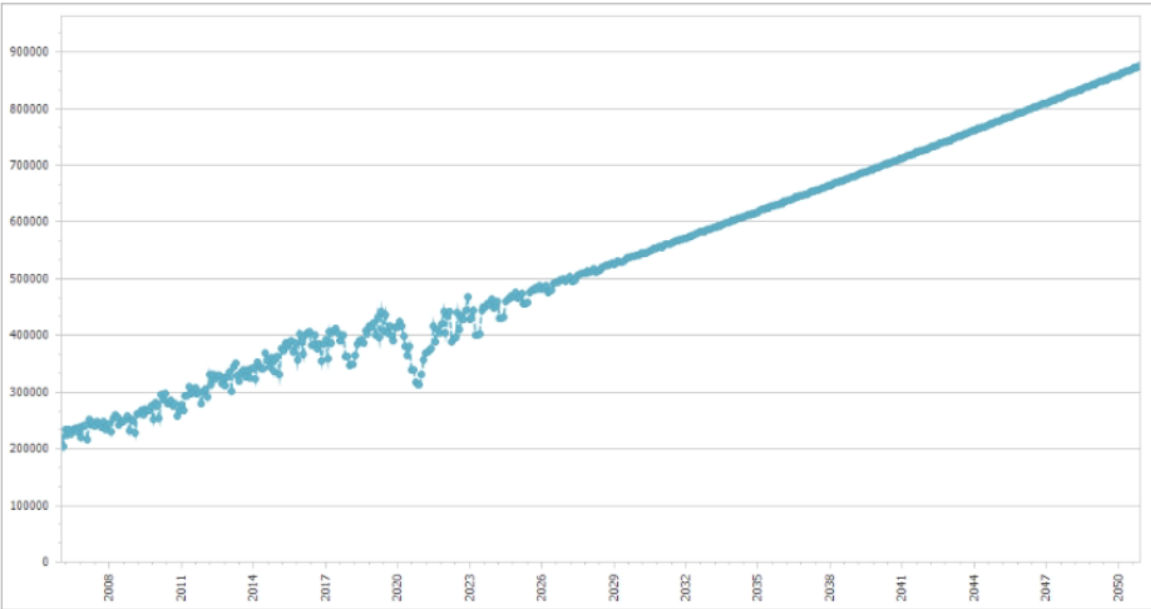
```

=====
Dep. Variable:          Unnamed: 0      R-squared:                0.423
Model:                 OLS             Adj. R-squared:           0.397
Method:                Least Squares    F-statistic:              11.68
Date:                  Mon, 19 Jun 2023  Prob (F-statistic):       1.68e-17
Time:                  11:13:04         Log-Likelihood:           -1296.0
No. Observations:     204             AIC:                     2618.
Df Residuals:         191             BIC:                     2661.
Df Model:              12
Covariance Type:      nonrobust
=====

```

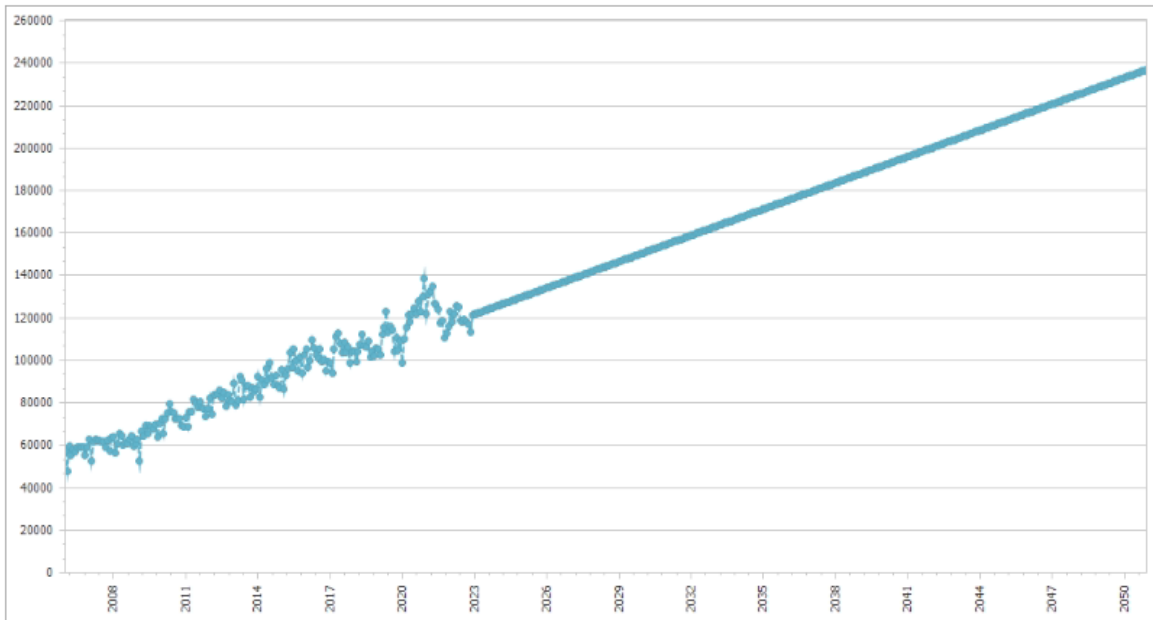
	coef	std err	t	P> t	[0.025	0.975]
const	916.5916	56.167	16.319	0.000	805.804	1027.380
@trend	-124.2989	10.596	-11.730	0.000	-145.200	-103.398
M2	27.8973	49.246	0.565	0.573	-69.299	124.974
M3	50.1231	49.253	1.018	0.310	-47.027	147.273
M4	61.0351	49.261	1.239	0.217	-36.130	158.200
M5	77.0537	49.270	1.564	0.119	-20.129	174.236
M6	71.2043	49.279	1.445	0.150	-25.997	168.406
M7	73.7951	49.289	1.497	0.136	-23.425	171.016
M8	76.4197	49.299	1.550	0.123	-20.821	173.660
M9	70.0420	49.310	1.420	0.157	-27.219	167.303
M10	68.7481	49.320	1.394	0.165	-28.535	166.031
M11	59.1448	49.331	1.199	0.232	-38.160	156.449
M12	53.3697	49.343	1.082	0.281	-43.957	150.696
Omnibus:	105.495	Durbin-Watson:	0.137			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	449.924			
Skew:	2.100	Prob(JB):	2.00e-98			
Kurtosis:	8.940	Cond. No.	56.8			

Consumo Total



ENSA

Consumo Residencial



OLS Regression Results

```

=====
Dep. Variable:          CRES      R-squared:                0.937
Model:                 OLS      Adj. R-squared:          0.937
Method:                Least Squares  F-statistic:             1504.
Date:                  Thu, 15 Jun 2023  Prob (F-statistic):      1.17e-121
Time:                  17:50:23    Log-Likelihood:         -2047.0
No. Observations:     204        AIC:                    4100.
Df Residuals:         201        BIC:                    4110.
Df Model:              2
Covariance Type:      nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
const	-1.146e+05	6158.392	-18.608	0.000	-1.27e+05	-1.02e+05
FIB	-0.3176	1.422	-0.223	0.824	-3.122	2.487
POB	0.0806	0.004	21.843	0.000	0.073	0.088

```

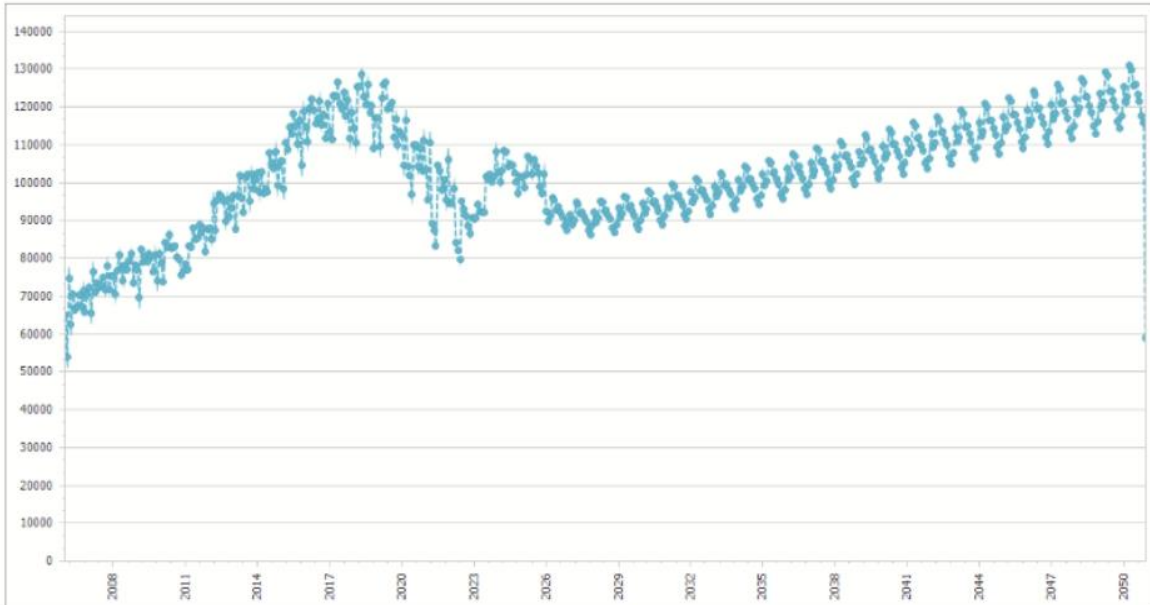
=====
Omnibus:                3.714    Durbin-Watson:           0.961
Prob(Omnibus):          0.156    Jarque-Bera (JB):        4.501
Skew:                   -0.017   Prob(JB):                 0.105
Kurtosis:                3.727    Cond. No.                 4.06e+07
=====

```

Notes:

- [1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
- [2] The condition number is large, 4.06e+07. This might indicate that there are strong multicollinearity or other numerical problems.

Consumo Comercial



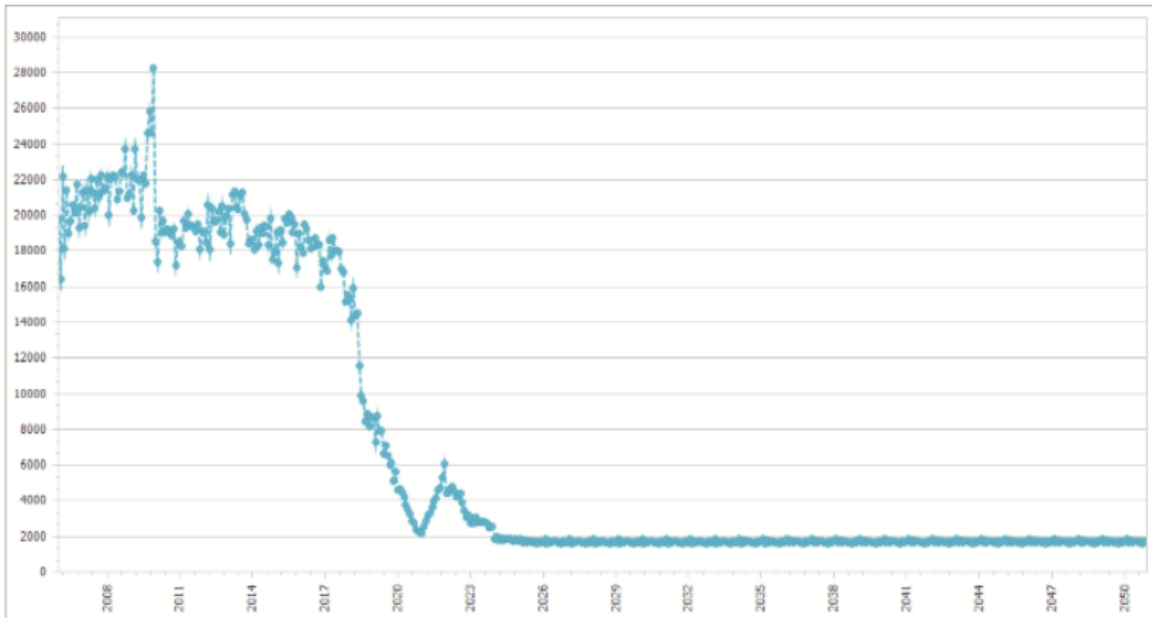
OLS Regression Results

Dep. Variable:	Unnamed: 0	R-squared:	0.958
Model:	OLS	Adj. R-squared:	0.953
Method:	Least Squares	F-statistic:	191.4
Date:	Fri, 16 Jun 2023	Prob (F-statistic):	1.40e-73
Time:	10:45:48	Log-Likelihood:	253.33
No. Observations:	132	AIC:	-476.7
Df Residuals:	117	BIC:	-433.4
Df Model:	14		
Covariance Type:	nonrobust		

	coef	std err	t	P> t	[0.025	0.975]
const	9.0489	0.266	34.006	0.000	8.522	9.576
CCOM_12	0.2732	0.033	8.317	0.000	0.208	0.338
PIBCCOM	-0.0028	0.030	-0.092	0.926	-0.063	0.057
TMEDR	7.833e-06	3.98e-07	19.697	0.000	7.05e-06	8.62e-06
M2	-0.0144	0.016	-0.885	0.378	-0.047	0.018
M3	-0.0097	0.016	-0.600	0.550	-0.042	0.022
M4	0.0116	0.016	0.723	0.471	-0.020	0.043
M5	0.0082	0.016	0.508	0.612	-0.024	0.040
M6	-0.0045	0.016	-0.282	0.779	-0.037	0.027
M7	-0.0014	0.016	-0.089	0.929	-0.033	0.031
M8	-0.0086	0.016	-0.532	0.596	-0.041	0.024
M9	-0.0150	0.016	-0.925	0.357	-0.047	0.017
M10	-0.0300	0.017	-1.804	0.074	-0.063	0.003
M11	-0.0394	0.017	-2.369	0.019	-0.072	-0.006
M12	-0.0253	0.016	-1.542	0.126	-0.058	0.007

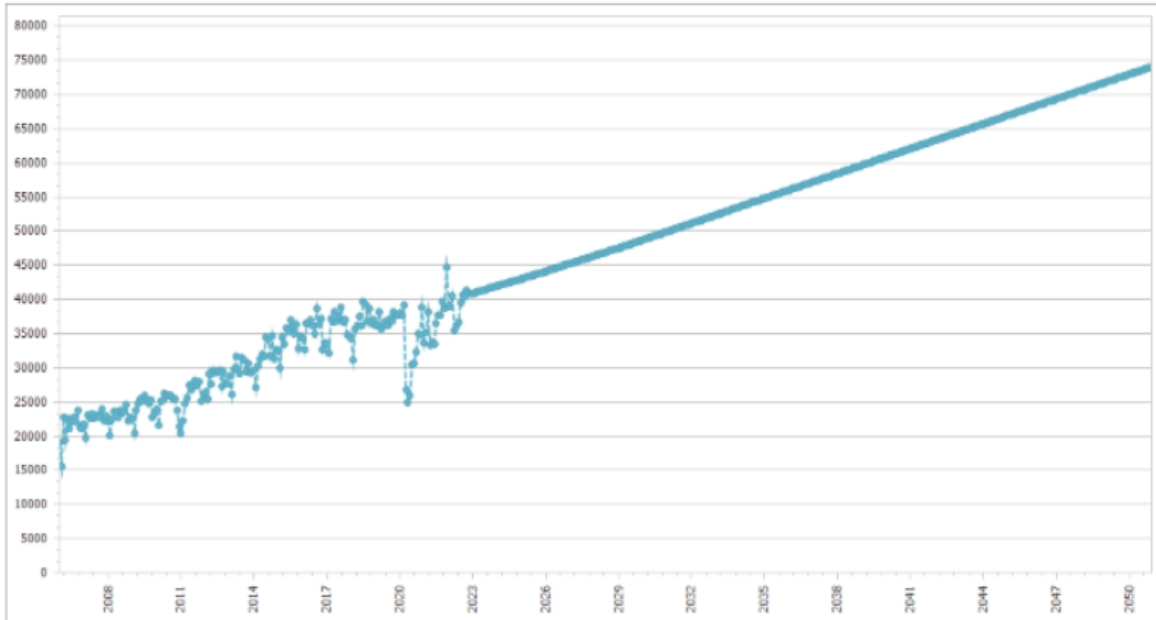
Omnibus:	1.325	Durbin-Watson:	1.164
Prob(Omnibus):	0.515	Jarque-Bera (JB):	0.897
Skew:	-0.161	Prob(JB):	0.639
Kurtosis:	3.244	Cond. No.	7.41e+06

Consumo Industrial



OLS Regression Results						
Dep. Variable:	CIND	R-squared:	0.885			
Model:	OLS	Adj. R-squared:	0.875			
Method:	Least Squares	F-statistic:	96.92			
Date:	Fri, 16 Jun 2023	Prob (F-statistic):	4.11e-75			
Time:	11:17:52	Log-Likelihood:	8.1939			
No. Observations:	192	AIC:	13.61			
Df Residuals:	177	BIC:	62.47			
Df Model:	14					
Covariance Type:	nonrobust					
	coef	std err	t	P> t	[0.025	0.975]
const	6.7920	1.149	5.909	0.000	4.524	9.060
CIND_12	0.0277	0.137	0.202	0.840	-0.242	0.298
PIBIND	0.1856	0.150	1.235	0.218	-0.111	0.482
TMEDR	9.993e-05	3.58e-06	27.908	0.000	9.29e-05	0.000
M2	0.0669	0.086	0.782	0.435	-0.102	0.236
M3	-0.0320	0.086	-0.372	0.710	-0.202	0.138
M4	0.0305	0.085	0.357	0.721	-0.138	0.199
M5	-0.0185	0.085	-0.216	0.829	-0.187	0.150
M6	0.0176	0.085	0.206	0.837	-0.151	0.186
M7	0.0079	0.085	0.092	0.927	-0.161	0.176
M8	-0.0112	0.085	-0.131	0.896	-0.180	0.157
M9	-0.0049	0.085	-0.058	0.954	-0.173	0.164
M10	-0.0512	0.086	-0.599	0.550	-0.220	0.118
M11	0.0122	0.085	0.143	0.886	-0.156	0.181
M12	-0.0249	0.085	-0.292	0.771	-0.194	0.144
Omnibus:	21.478	Durbin-Watson:	0.316			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	26.466			
Skew:	-0.755	Prob(JB):	1.79e-06			
Kurtosis:	4.014	Cond. No.	1.17e+06			

Consumo Gobierno



OLS Regression Results

```

=====
Dep. Variable:          Unnamed: 0      R-squared:                0.912
Model:                  OLS             Adj. R-squared:          0.911
Method:                 Least Squares   F-statistic:             1692.
Date:                   Fri, 16 Jun 2023 Prob (F-statistic):      4.31e-83
Time:                   16:10:16        Log-Likelihood:          -1381.2
No. Observations:      156             AIC:                     2766.
Df Residuals:          154             BIC:                     2772.
Df Model:               1
Covariance Type:       nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
const	7032.9508	561.201	12.532	0.000	5924.305	8141.596
CGOB	8.9212	0.224	39.896	0.000	8.479	9.363

```

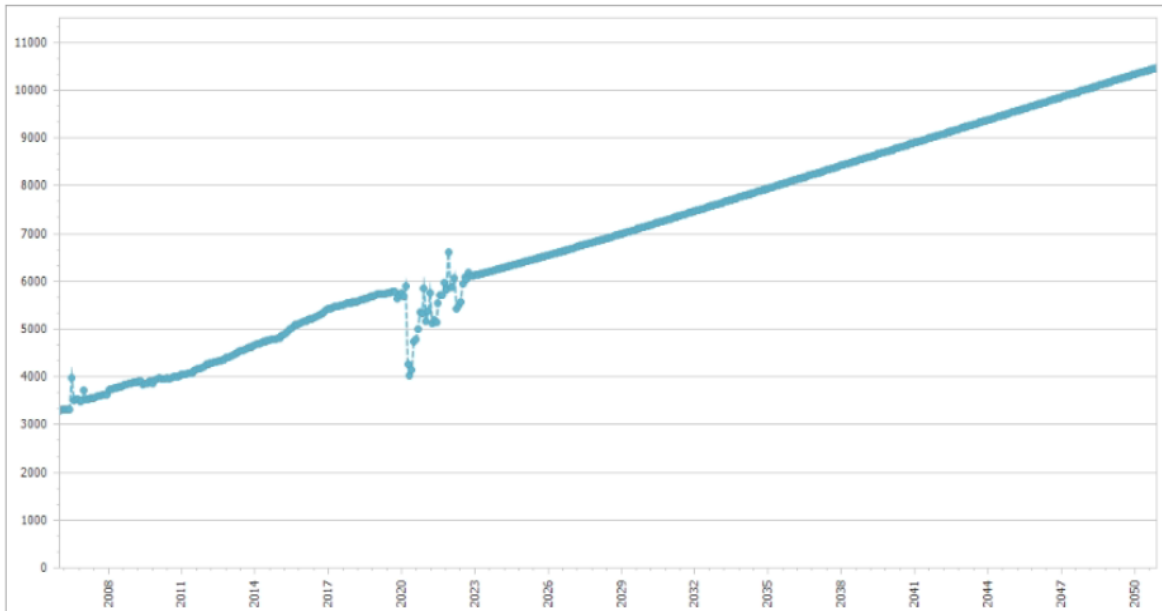
=====
Omnibus:                3.995      Durbin-Watson:           0.892
Prob(Omnibus):           0.136      Jarque-Bera (JB):        3.561
Skew:                    -0.356     Prob(JB):                 0.169
Kurtosis:                3.203      Cond. No.                 1.03e+04
=====

```

Notes:

- [1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
- [2] The condition number is large, 1.03e+04. This might indicate that there are strong multicollinearity or other numerical problems.

Consumo alumbrado



OLS Regression Results

```

=====
Dep. Variable:          CALP      R-squared:                0.956
Model:                  OLS       Adj. R-squared:           0.955
Method:                 Least Squares   F-statistic:              3570.
Date:                   Mon, 19 Jun 2023   Prob (F-statistic):       3.66e-114
Time:                   10:28:28         Log-Likelihood:           -1089.9
No. Observations:      168           AIC:                      2184.
Df Residuals:          166           BIC:                      2190.
Df Model:               1
Covariance Type:       nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
const	1652.9655	49.852	33.158	0.000	1554.540	1751.391
CALP.l	1.1527	0.019	59.747	0.000	1.115	1.191

```

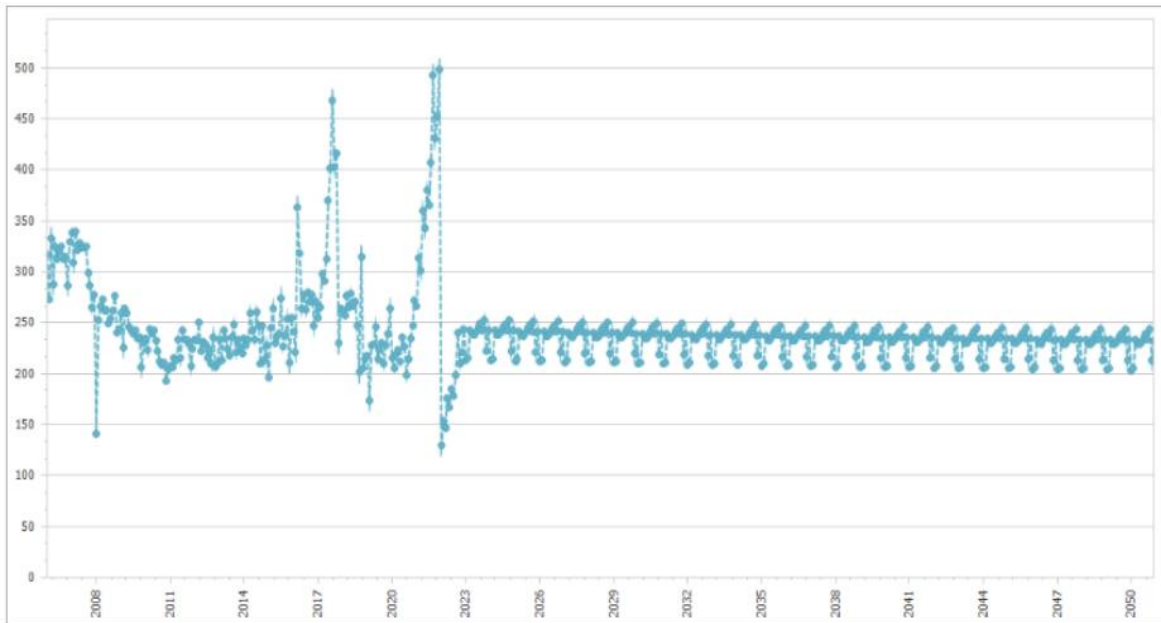
=====
Omnibus:                6.475      Durbin-Watson:            0.911
Prob(Omnibus):          0.039      Jarque-Bera (JB):         7.112
Skew:                   0.310      Prob(JB):                 0.0286
Kurtosis:               3.795      Cond. No.                 1.04e+04
=====

```

Notes:

- [1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
- [2] The condition number is large, 1.04e+04. This might indicate that there are strong multicollinearity or other numerical problems.

Consumo Otros



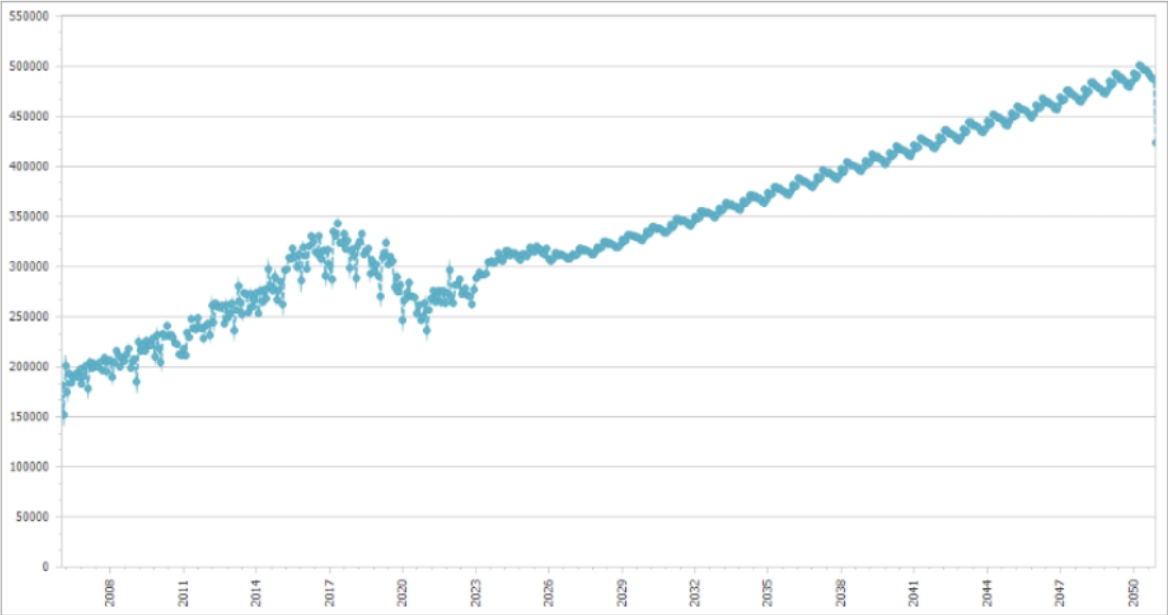
OLS Regression Results

Dep. Variable:	COTR	R-squared:	0.076
Model:	OLS	Adj. R-squared:	0.018
Method:	Least Squares	F-statistic:	1.311
Date:	Mon, 19 Jun 2023	Prob (F-statistic):	0.215
Time:	09:56:53	Log-Likelihood:	-1112.0
No. Observations:	204	AIC:	2250.
Df Residuals:	191	BIC:	2293.
Df Model:	12		
Covariance Type:	nonrobust		

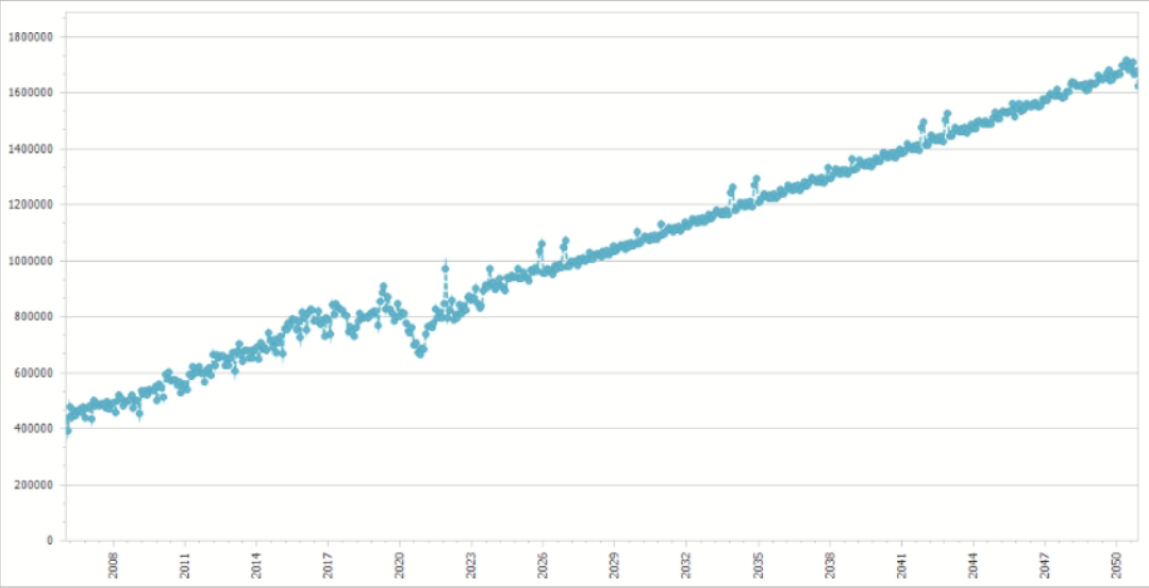
	coef	std err	t	P> t	[0.025	0.975]
const	280.0635	22.791	12.289	0.000	235.110	325.017
@trend	-11.0251	4.300	-2.564	0.011	-19.506	-2.544
M2	1.5237	19.982	0.076	0.939	-37.891	40.938
M3	30.5462	19.985	1.528	0.128	-8.874	69.966
M4	26.1761	19.988	1.310	0.192	-13.250	65.602
M5	25.9530	19.992	1.298	0.196	-13.480	65.386
M6	28.9074	19.996	1.446	0.150	-10.533	68.348
M7	33.2725	20.000	1.664	0.098	-6.176	72.721
M8	36.9652	20.004	1.848	0.066	-2.492	76.422
M9	30.8785	20.008	1.543	0.124	-8.587	70.344
M10	41.3217	20.012	2.065	0.040	1.848	80.795
M11	9.7689	20.017	0.488	0.626	-29.714	49.252
M12	30.6791	20.021	1.532	0.127	-8.813	70.171

Omnibus:	89.032	Durbin-Watson:	0.476
Prob(Omnibus):	0.000	Jarque-Bera (JB):	293.331
Skew:	1.838	Prob(JB):	2.01e-64
Kurtosis:	7.583	Cond. No.	56.8

Consumo Total



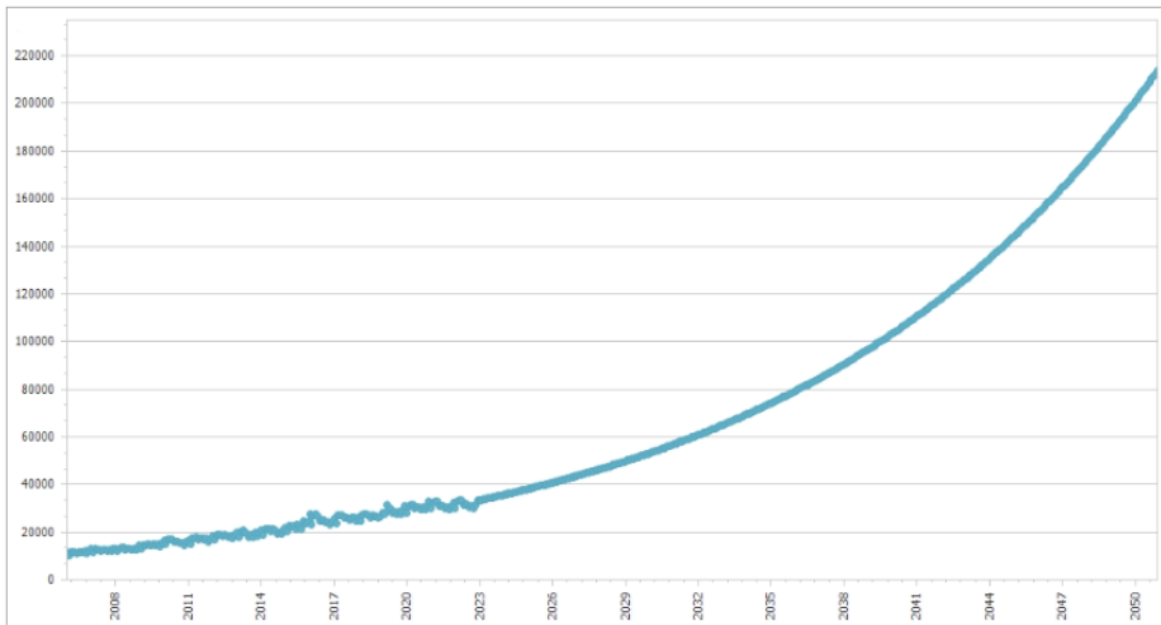
CONSUMO TOTAL DEL PAÍS



Proyección de la Demanda en el escenario Optimista

EDECHI

Consumo Residencial



OLS Regression Results

```

=====
Dep. Variable:          CRES      R-squared:                0.967
Model:                  OLS      Adj. R-squared:           0.967
Method:                 Least Squares  F-statistic:              5950.
Date:                   Tue, 20 Jun 2023  Prob (F-statistic):      7.99e-152
Time:                   18:07:09      Log-Likelihood:          284.13
No. Observations:      204          AIC:                     -564.3
Df Residuals:          202          BIC:                     -557.6
Df Model:               1
Covariance Type:       nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
const	9.3533	0.008	1101.857	0.000	9.337	9.370
@trend	0.0055	7.18e-05	77.139	0.000	0.005	0.006

```

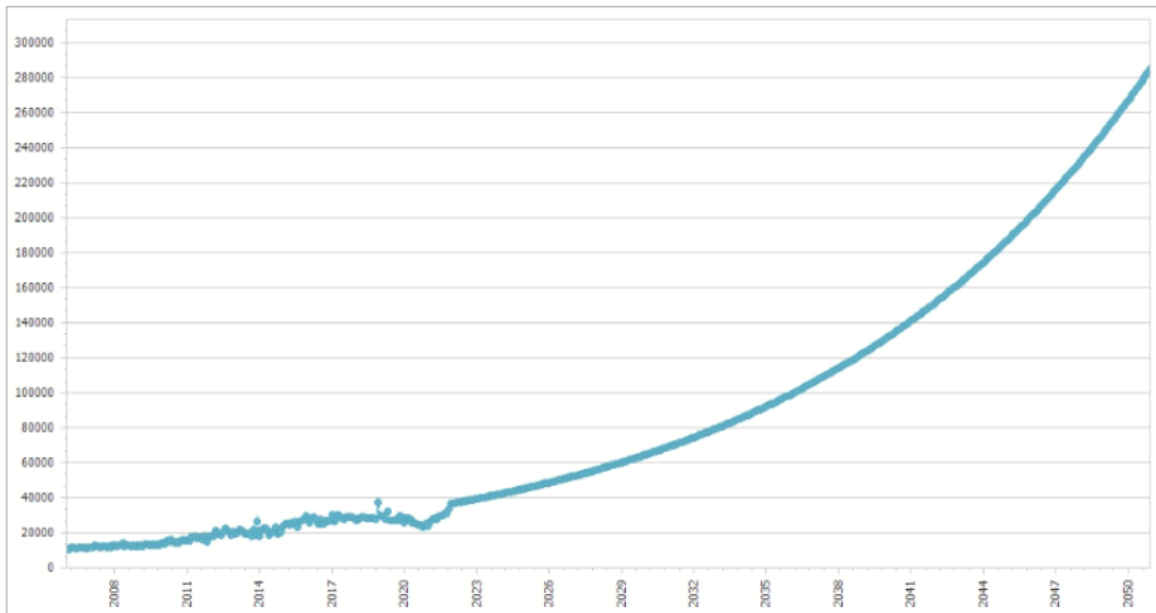
=====
Omnibus:                2.254      Durbin-Watson:           0.955
Prob(Omnibus):          0.324      Jarque-Bera (JB):        1.900
Skew:                   0.157      Prob(JB):                0.387
Kurtosis:               3.353      Cond. No.                237.
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Consumo Comercial



OLS Regression Results

```

=====
Dep. Variable:          Unnamed: 0      R-squared:                0.906
Model:                  OLS             Adj. R-squared:          0.906
Method:                 Least Squares   F-statistic:             1951.
Date:                   Tue, 20 Jun 2023  Prob (F-statistic):      9.32e-106
Time:                   12:46:28        Log-Likelihood:          157.13
No. Observations:      204              AIC:                     -310.3
Df Residuals:          202              BIC:                     -303.6
Df Model:               1
Covariance Type:       nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
const	9.3296	0.016	589.738	0.000	9.298	9.361
@trend	0.0059	0.000	44.172	0.000	0.006	0.006

```

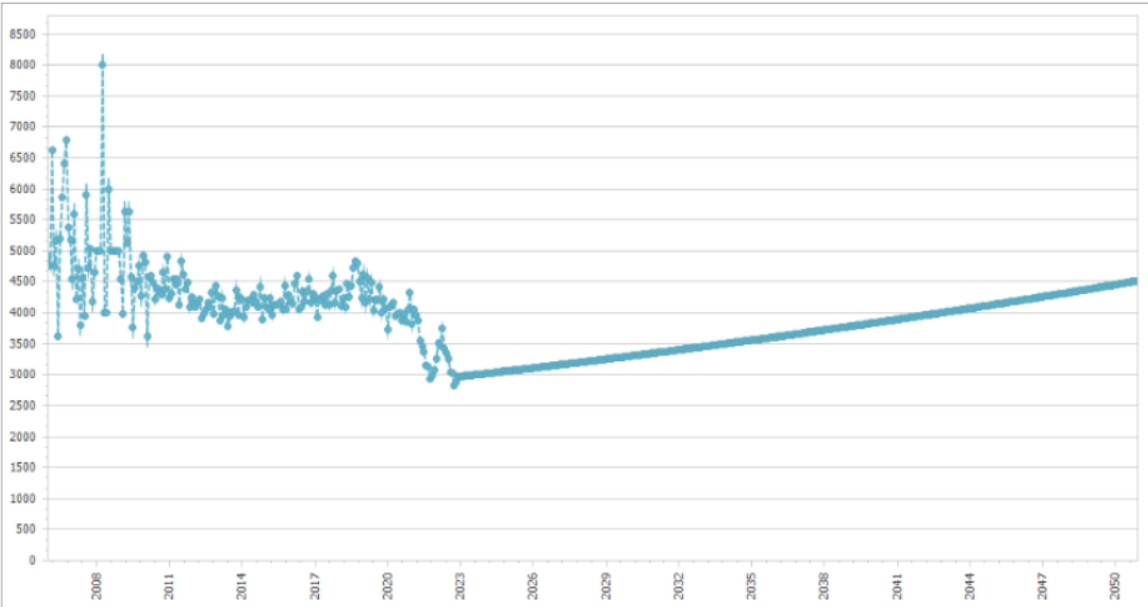
=====
Omnibus:                2.818      Durbin-Watson:           0.502
Prob(Omnibus):          0.244      Jarque-Bera (JB):        2.417
Skew:                   -0.238     Prob(JB):                 0.299
Kurtosis:               3.241     Cond. No.                 237.
=====

```

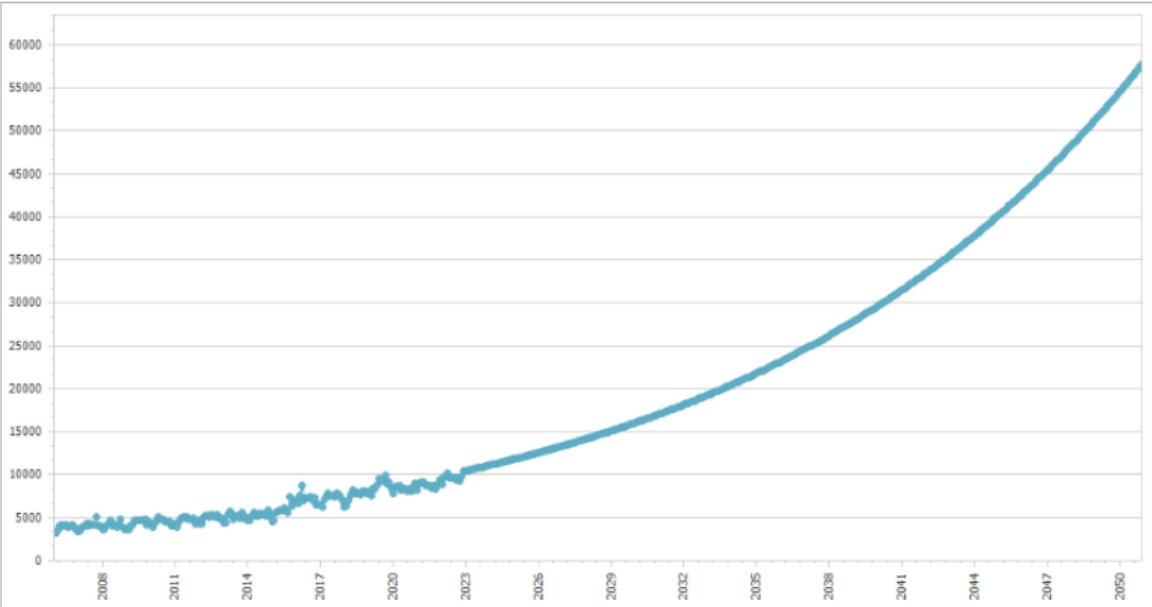
Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Consumo Industrial



Consumo Gobierno



OLS Regression Results

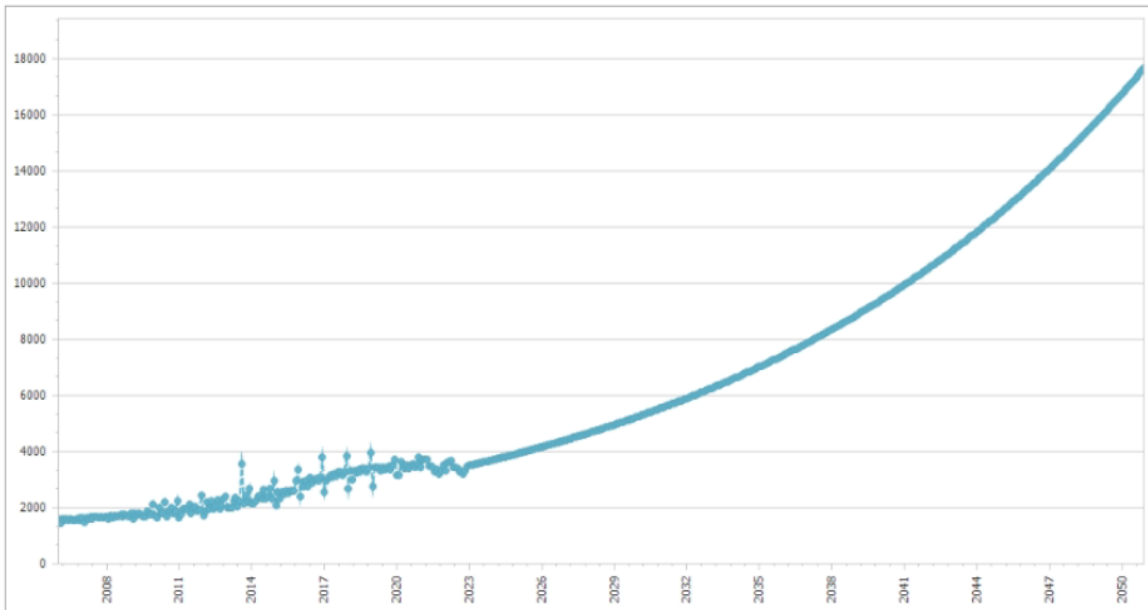
Dep. Variable:	CGOB	R-squared:	0.914
Model:	OLS	Adj. R-squared:	0.913
Method:	Least Squares	F-statistic:	2143.
Date:	Tue, 20 Jun 2023	Prob (F-statistic):	1.68e-109
Time:	14:55:12	Log-Likelihood:	196.88
No. Observations:	204	AIC:	-389.8
Df Residuals:	202	BIC:	-383.1
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P> t	[0.025	0.975]
const	8.1553	0.013	626.423	0.000	8.130	8.181
@trend	0.0051	0.000	46.291	0.000	0.005	0.005

Omnibus:	1.836	Durbin-Watson:	0.675
Prob(Omnibus):	0.399	Jarque-Bera (JB):	1.509
Skew:	-0.109	Prob(JB):	0.470
Kurtosis:	3.360	Cond. No.	237.

Notes:
 [1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Consumo alumbrado



OLS Regression Results

```

=====
Dep. Variable:          CALP      R-squared:              0.906
Model:                 OLS       Adj. R-squared:        0.906
Method:                Least Squares  F-statistic:           1949.
Date:                  Tue, 20 Jun 2023  Prob (F-statistic):    1.05e-105
Time:                  12:53:44   Log-Likelihood:        198.08
No. Observations:     204        AIC:                   -392.2
Df Residuals:         202        BIC:                   -385.5
Df Model:              1
Covariance Type:      nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
const	7.2989	0.013	563.949	0.000	7.273	7.324
@trend	0.0048	0.000	44.143	0.000	0.005	0.005

```

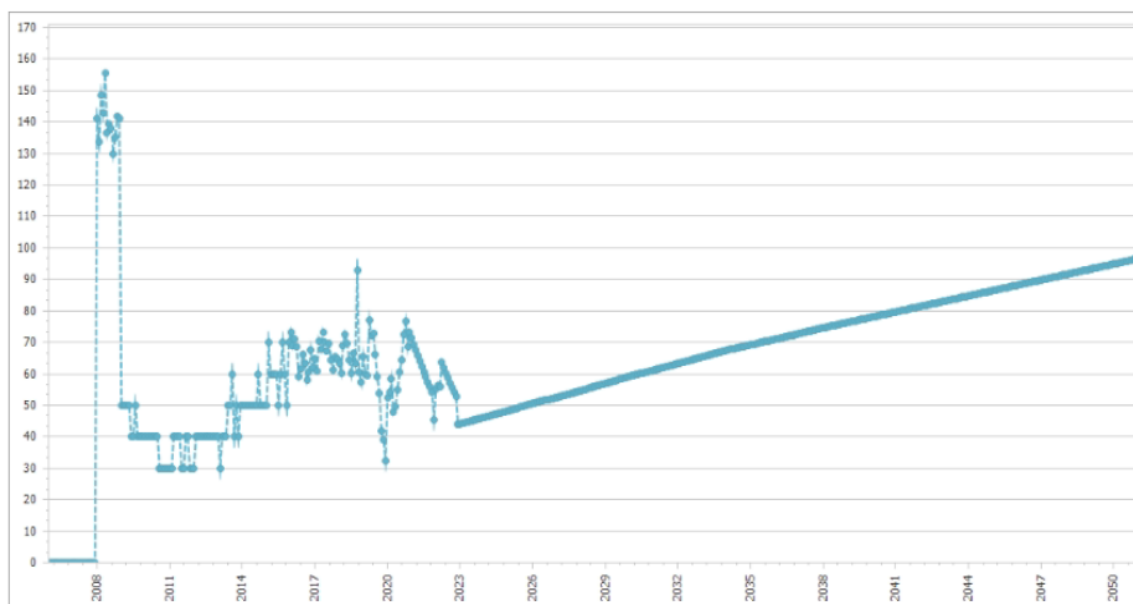
=====
Omnibus:                26.535   Durbin-Watson:          1.716
Prob(Omnibus):          0.000   Jarque-Bera (JB):       56.206
Skew:                   0.613   Prob(JB):                6.24e-13
Kurtosis:                5.260   Cond. No.                 237.
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Consumo Otros



OLS Regression Results

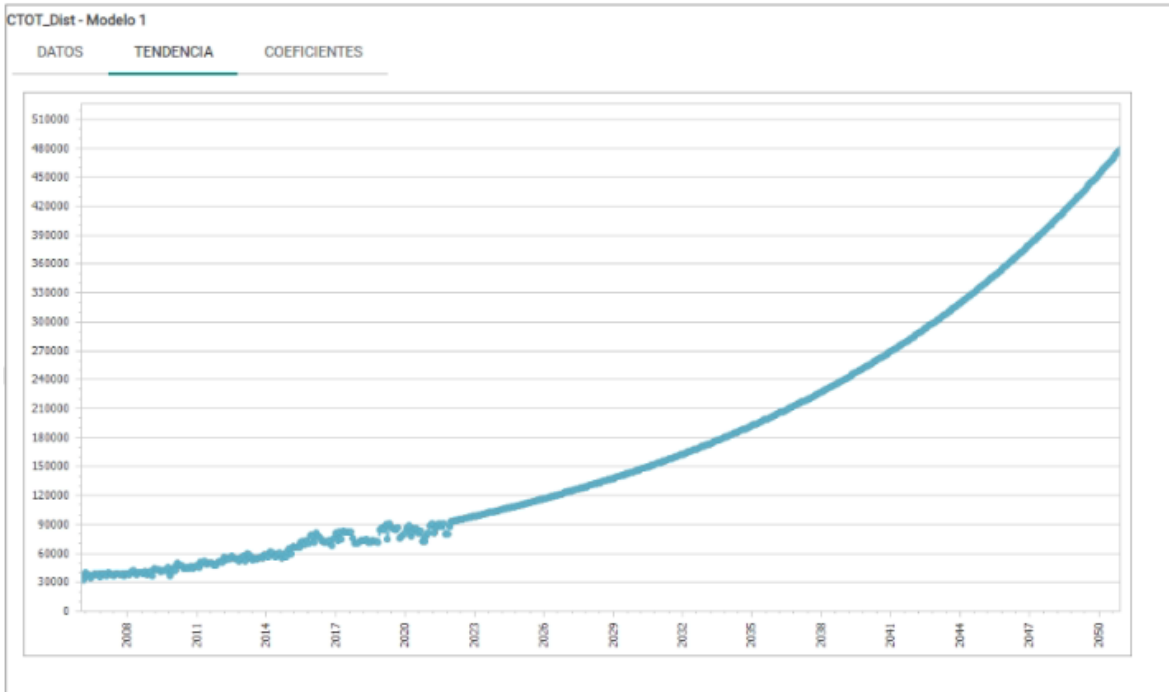
Dep. Variable:	COTR	R-squared:	0.090
Model:	OLS	Adj. R-squared:	0.085
Method:	Least Squares	F-statistic:	19.97
Date:	Tue, 20 Jun 2023	Prob (F-statistic):	1.31e-05
Time:	12:57:43	Log-Likelihood:	-975.86
No. Observations:	204	AIC:	1956.
Df Residuals:	202	BIC:	1962.
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P> t	[0.025	0.975]
const	17.3432	8.038	2.158	0.032	1.495	33.192
COTR.1	0.0131	0.003	4.469	0.000	0.007	0.019

Omnibus:	105.350	Durbin-Watson:	0.222
Prob(Omnibus):	0.000	Jarque-Bera (JB):	432.524
Skew:	2.119	Prob(JB):	1.20e-94
Kurtosis:	8.739	Cond. No.	1.08e+04

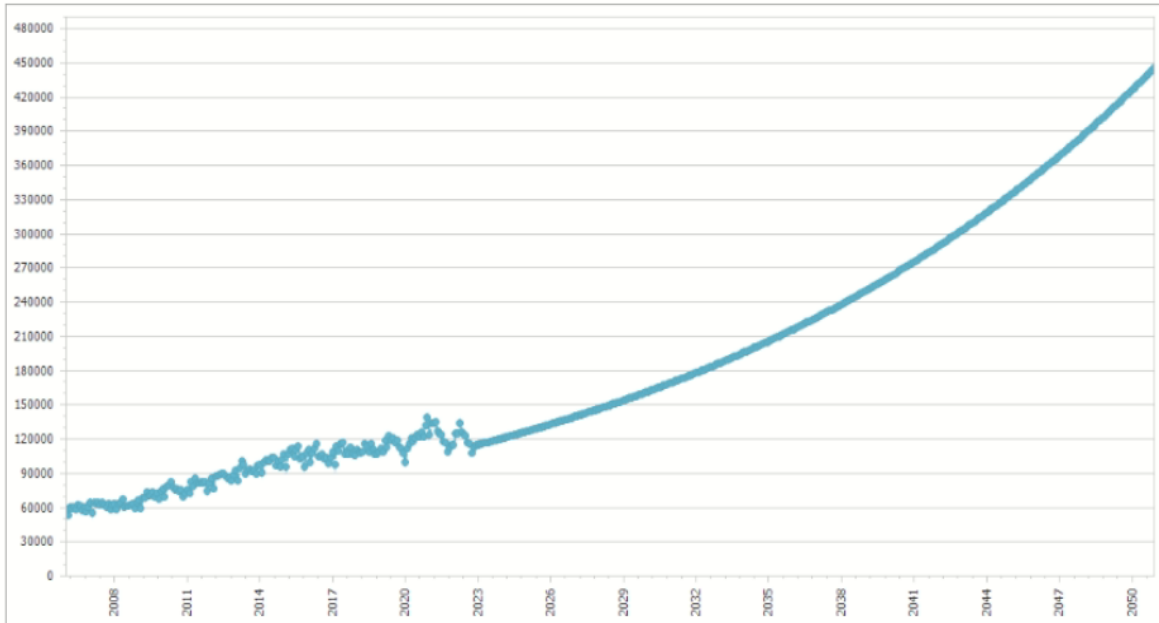
Notes:
 [1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
 [2] The condition number is large, 1.08e+04. This might indicate that there are strong multicollinearity or other numerical problems.

Consumo Total



EDEMET

Consumo Residencial



OLS Regression Results

```

=====
Dep. Variable:          CRES      R-squared:                0.905
Model:                 OLS      Adj. R-squared:           0.904
Method:                Least Squares  F-statistic:              1917.
Date:                  Tue, 20 Jun 2023  Prob (F-statistic):       4.65e-105
Time:                  11:44:00      Log-Likelihood:           233.00
No. Observations:     204          AIC:                      -462.0
Df Residuals:         202          BIC:                      -455.4
Df Model:              1
Covariance Type:      nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
const	11.0085	0.011	1009.372	0.000	10.987	11.030
@trend	0.0040	9.23e-05	43.786	0.000	0.004	0.004

```

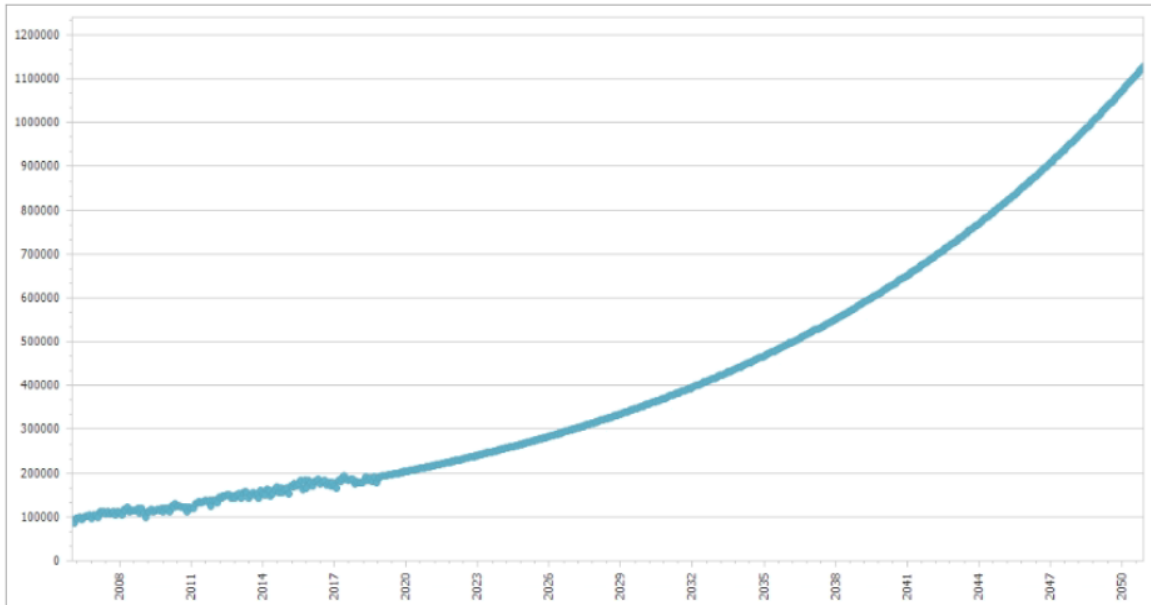
=====
Omnibus:                3.754      Durbin-Watson:            0.604
Prob(Omnibus):          0.153      Jarque-Bera (JB):         3.694
Skew:                   -0.329      Prob(JB):                  0.158
Kurtosis:               2.948      Cond. No.                  237.
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Consumo Comercial



OLS Regression Results

```

=====
Dep. Variable:          Unnamed: 0      R-squared:                0.949
Model:                  OLS             Adj. R-squared:           0.949
Method:                 Least Squares   F-statistic:              2892.
Date:                   Tue, 20 Jun 2023 Prob (F-statistic):       1.02e-101
Time:                   17:31:07        Log-Likelihood:           252.68
No. Observations:      156             AIC:                      -501.4
Df Residuals:          154             BIC:                      -495.3
Df Model:               1
Covariance Type:       nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
const	11.4875	0.008	1481.015	0.000	11.472	11.503
@trend	0.0046	8.57e-05	53.778	0.000	0.004	0.005

```

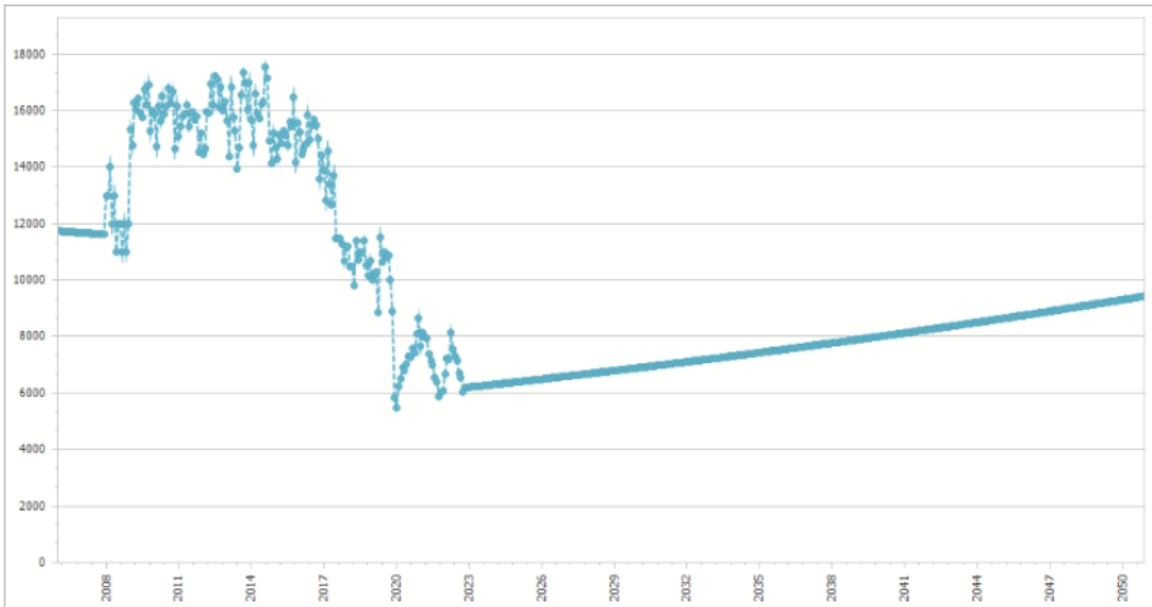
=====
Omnibus:                2.797      Durbin-Watson:            1.264
Prob(Omnibus):          0.247      Jarque-Bera (JB):         2.826
Skew:                   -0.317     Prob(JB):                  0.243
Kurtosis:               2.820     Cond. No.                  182.
=====

```

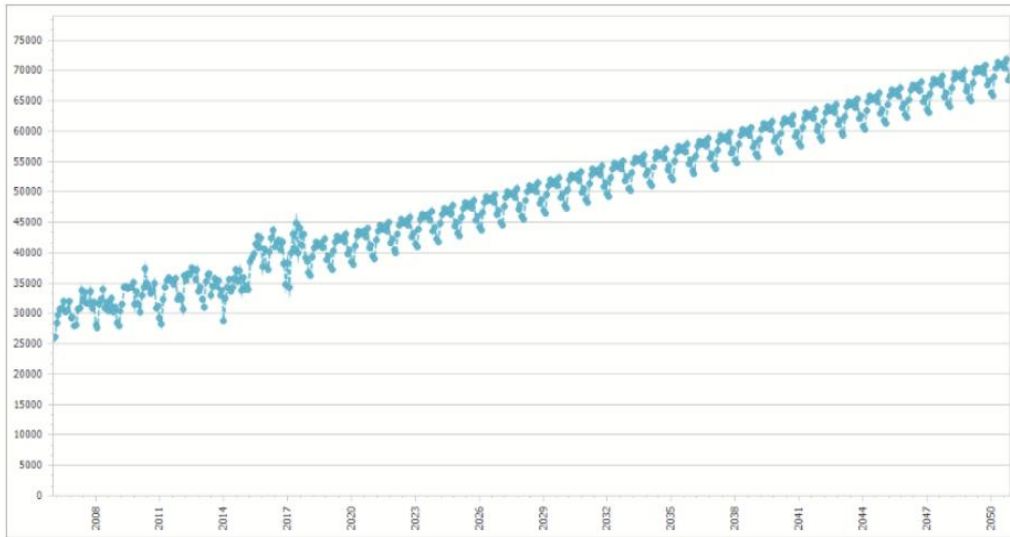
Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Consumo Industrial



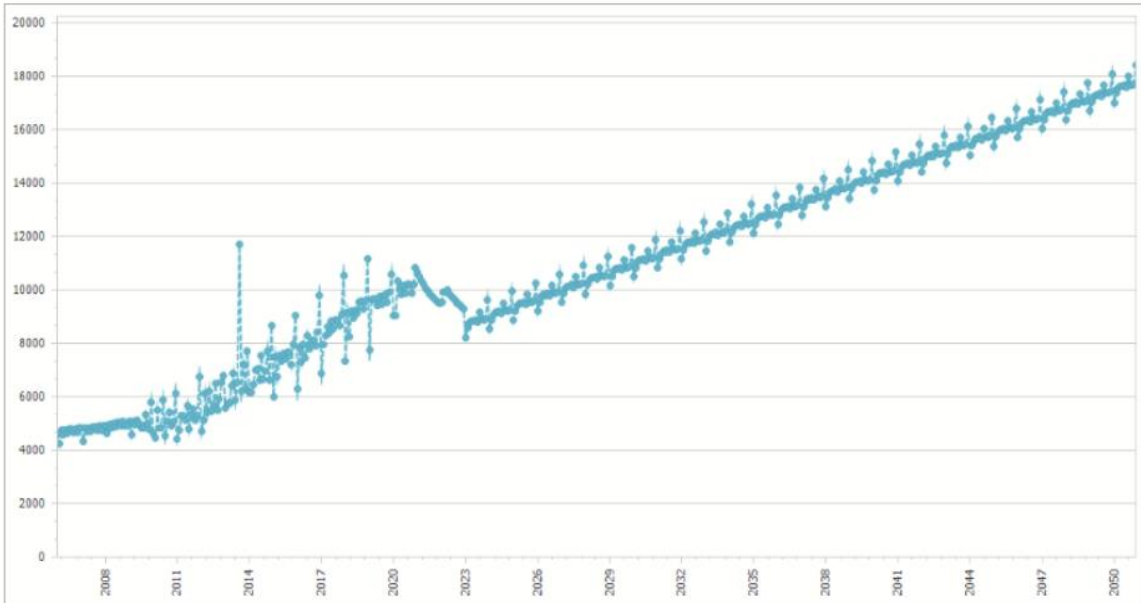
Consumo Gobierno



OLS Regression Results

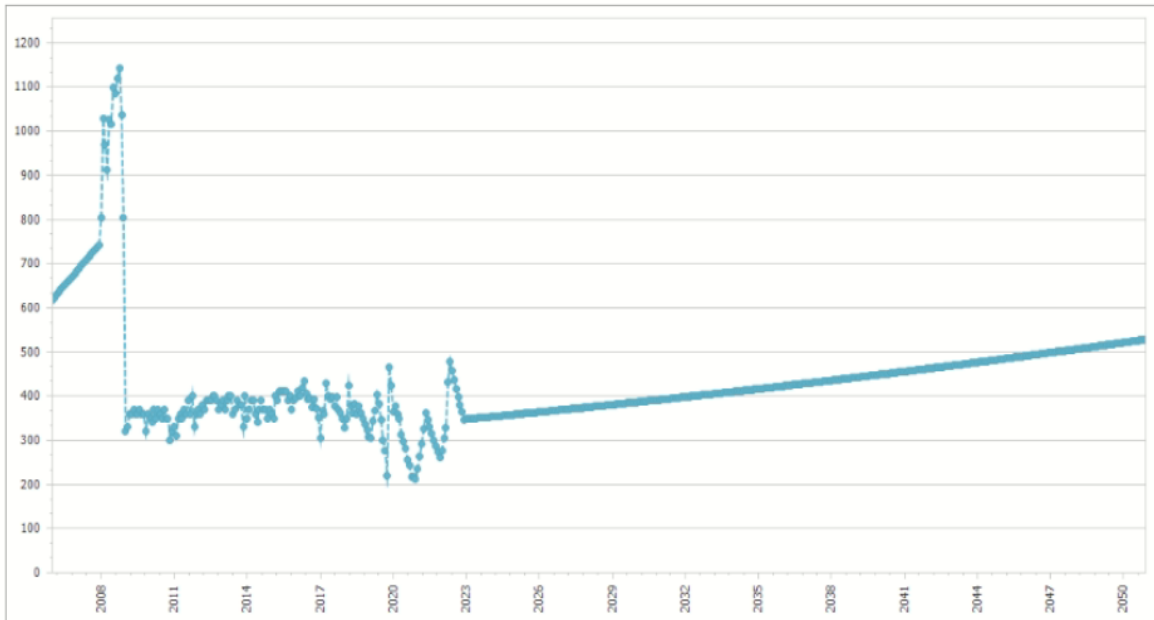
Dep. Variable:	CGOB	R-squared:	0.847			
Model:	OLS	Adj. R-squared:	0.833			
Method:	Least Squares	F-statistic:	60.24			
Date:	Tue, 20 Jun 2023	Prob (F-statistic):	2.62e-47			
Time:	12:14:47	Log-Likelihood:	-1266.9			
No. Observations:	144	AIC:	2560.			
Df Residuals:	131	BIC:	2598.			
Df Model:	12					
Covariance Type:	nonrobust					
	coef	std err	t	P> t	[0.025	0.975]
const	2.597e+04	534.991	48.544	0.000	2.49e+04	2.7e+04
trend	78.3857	3.378	23.204	0.000	71.703	85.068
m2	-566.1557	685.557	-0.826	0.410	-1922.350	790.039
m3	2456.6478	685.581	3.583	0.000	1100.404	3812.892
m4	3924.2447	685.623	5.724	0.000	2567.919	5280.571
m5	4787.2815	685.681	6.982	0.000	3430.840	6143.723
m6	4100.3642	685.756	5.979	0.000	2743.775	5456.954
m7	4331.3860	685.848	6.315	0.000	2974.616	5688.157
m8	4425.2862	685.956	6.451	0.000	3068.302	5782.271
m9	3495.6480	686.081	5.095	0.000	2138.417	4852.879
m10	4830.3290	686.222	7.039	0.000	3472.818	6187.840
m11	1376.4059	686.380	2.005	0.047	18.583	2734.229
m12	1949.4761	686.555	2.840	0.005	591.307	3307.645
Omnibus:	6.985	Durbin-Watson:	0.930			
Prob(Omnibus):	0.030	Jarque-Bera (JB):	6.821			
Skew:	-0.429	Prob(JB):	0.0330			
Kurtosis:	3.632	Cond. No.	1.04e+03			

Consumo alumbrado

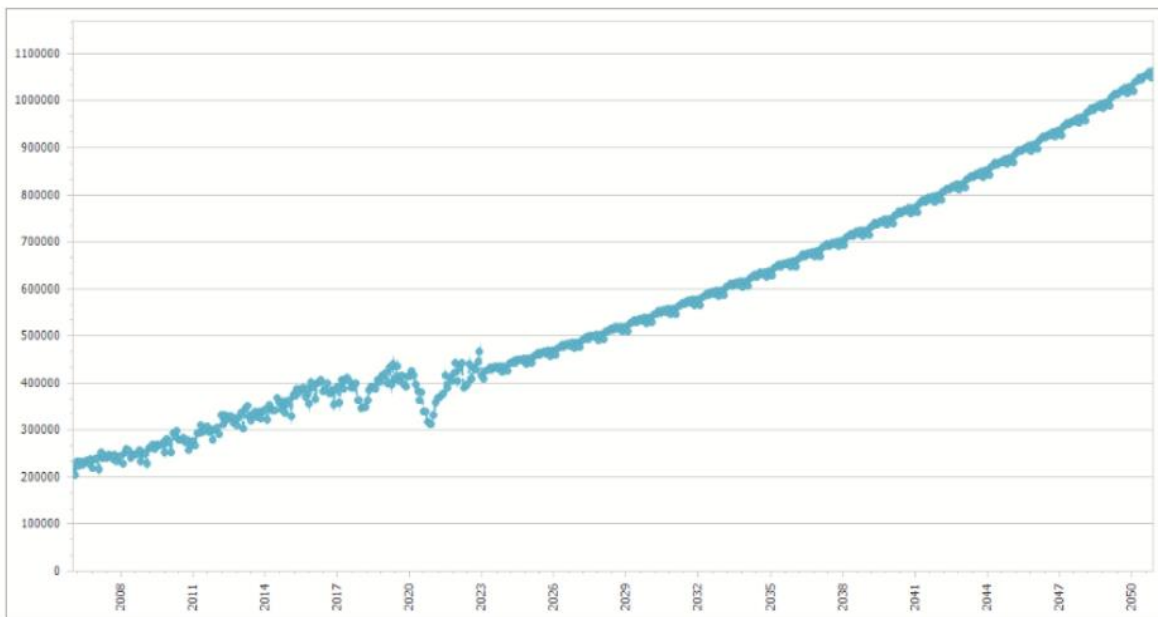


OLS Regression Results						
Dep. Variable:	CALP	R-squared:	0.896			
Model:	OLS	Adj. R-squared:	0.889			
Method:	Least Squares	F-statistic:	136.8			
Date:	Tue, 20 Jun 2023	Prob (F-statistic):	7.21e-87			
Time:	12:19:01	Log-Likelihood:	-1616.9			
No. Observations:	204	AIC:	3260.			
Df Residuals:	191	BIC:	3303.			
Df Model:	12					
Covariance Type:	nonrobust					
	coef	std err	t	P> t	[0.025	0.975]
const	3205.1856	185.989	17.233	0.000	2838.329	3572.042
trend	32.7757	0.825	39.751	0.000	31.149	34.402
m2	381.9343	237.468	1.608	0.109	-86.462	850.331
m3	586.4309	237.472	2.469	0.014	118.026	1054.836
m4	653.9981	237.479	2.754	0.006	185.579	1122.417
m5	605.9888	237.489	2.552	0.012	137.550	1074.428
m6	644.7807	237.502	2.715	0.007	176.316	1113.245
m7	502.2779	237.518	2.115	0.036	33.783	970.773
m8	938.7321	237.537	3.952	0.000	470.200	1407.264
m9	582.0411	237.558	2.450	0.015	113.467	1050.615
m10	510.7248	237.582	2.150	0.033	42.102	979.347
m11	531.0578	237.610	2.235	0.027	62.382	999.734
m12	1322.5486	237.640	5.565	0.000	853.813	1791.284
Omnibus:	88.325	Durbin-Watson:	1.345			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	746.081			
Skew:	1.408	Prob(JB):	9.79e-163			
Kurtosis:	11.936	Cond. No.	1.47e+03			

Consumo Otros

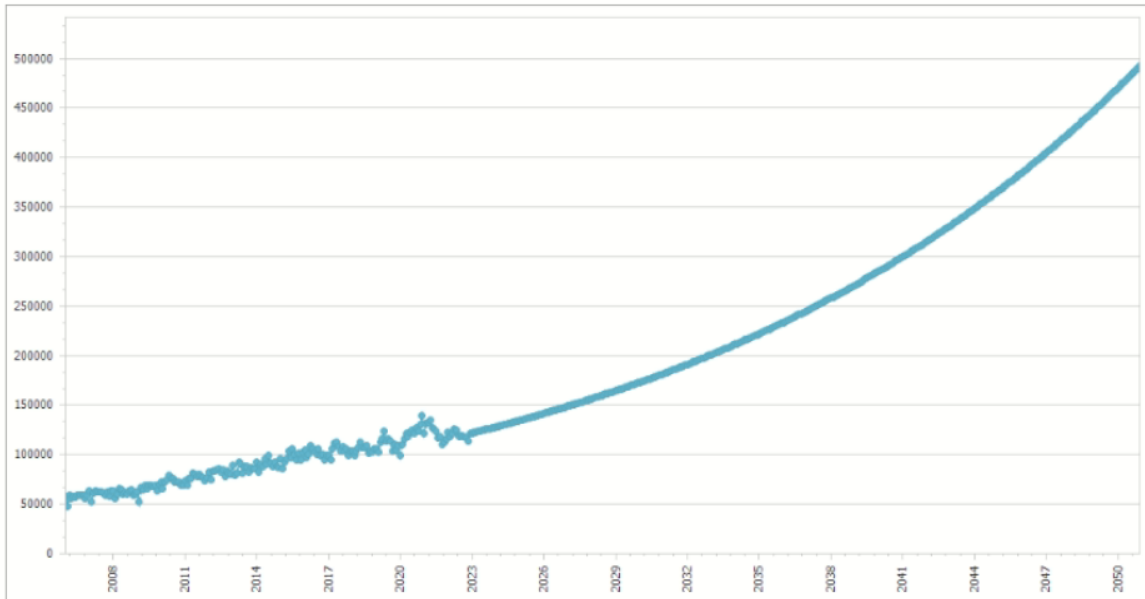


Consumo Total



ENSA

Consumo Residencial



OLS Regression Results

```

=====
Dep. Variable:          CRES      R-squared:                0.937
Model:                  OLS      Adj. R-squared:           0.937
Method:                 Least Squares   F-statistic:              3015.
Date:                   Mon, 19 Jun 2023   Prob (F-statistic):       2.25e-123
Time:                   20:24:55   Log-Likelihood:           272.75
No. Observations:      204      AIC:                      -541.5
Df Residuals:          202      BIC:                      -534.9
Df Model:               1
Covariance Type:       nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
const	10.9544	0.009	1220.450	0.000	10.937	10.972
@trend	0.0042	7.59e-05	54.907	0.000	0.004	0.004

```

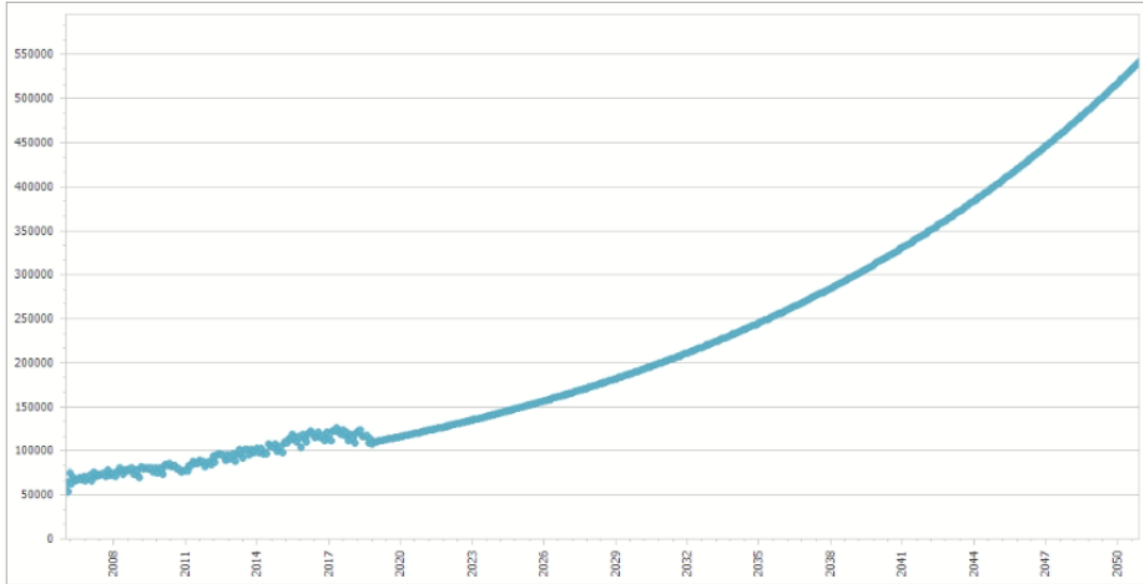
=====
Omnibus:                11.250   Durbin-Watson:           1.020
Prob(Omnibus):          0.004   Jarque-Bera (JB):        11.927
Skew:                   -0.495   Prob(JB):                 0.00257
Kurtosis:                3.651   Cond. No.                 237.
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Consumo Comercial



OLS Regression Results

```

=====
Dep. Variable:          CCOM      R-squared:                0.921
Model:                  OLS      Adj. R-squared:           0.920
Method:                 Least Squares      F-statistic:              1793.
Date:                   Mon, 19 Jun 2023   Prob (F-statistic):       9.66e-87
Time:                   20:30:26         Log-Likelihood:           231.85
No. Observations:      156             AIC:                      -459.7
Df Residuals:          154             BIC:                      -453.6
Df Model:               1
Covariance Type:       nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
const	11.1017	0.009	1252.330	0.000	11.084	11.119
@trend	0.0041	9.8e-05	42.342	0.000	0.004	0.004

```

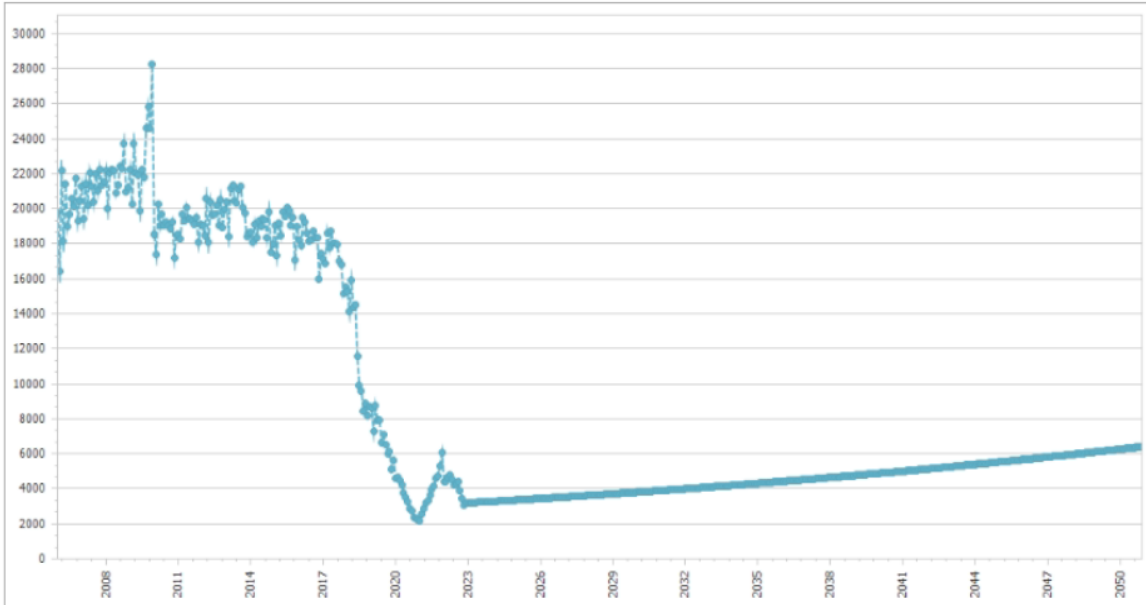
=====
Omnibus:                18.820      Durbin-Watson:            1.466
Prob(Omnibus):          0.000      Jarque-Bera (JB):         22.374
Skew:                   -0.791     Prob(JB):                  1.39e-05
Kurtosis:               3.968      Cond. No.                  182.
=====

```

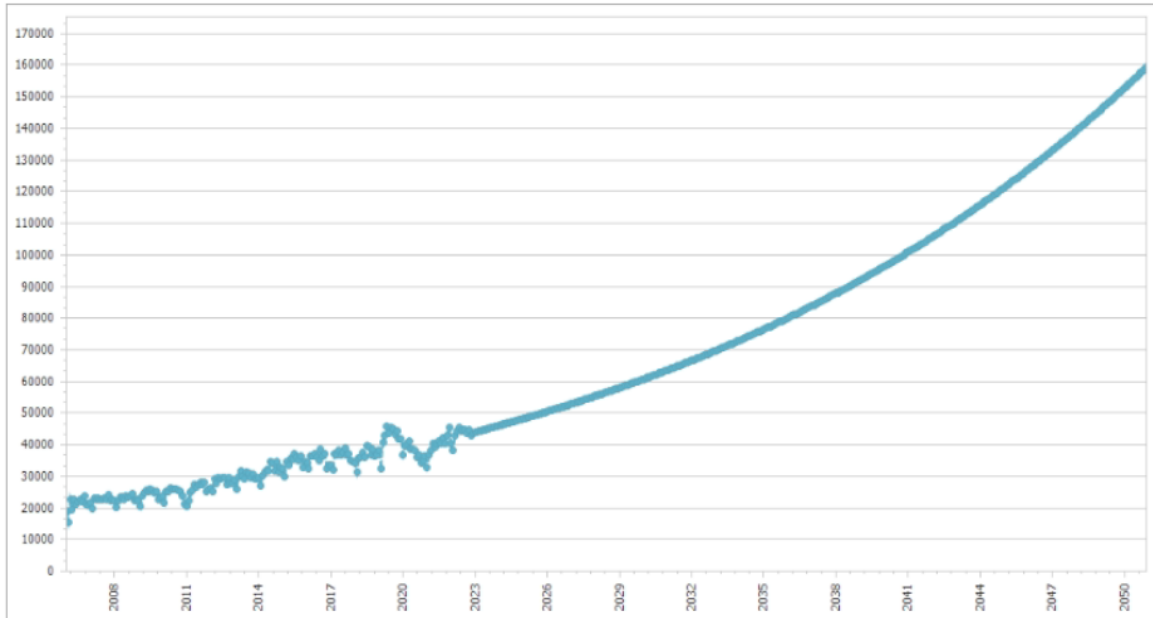
Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Consumo Industrial



Consumo Gobierno



OLS Regression Results

```

=====
Dep. Variable:          CGOB      R-squared:              0.900
Model:                 OLS       Adj. R-squared:        0.900
Method:                Least Squares  F-statistic:           1824.
Date:                  Tue, 20 Jun 2023  Prob (F-statistic):    4.30e-103
Time:                  09:53:38    Log-Likelihood:        238.08
No. Observations:     204        AIC:                   -472.2
Df Residuals:         202        BIC:                   -465.5
Df Model:              1
Covariance Type:      nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
const	9.9387	0.011	934.265	0.000	9.918	9.960
@trend	0.0038	9e-05	42.713	0.000	0.004	0.004

```

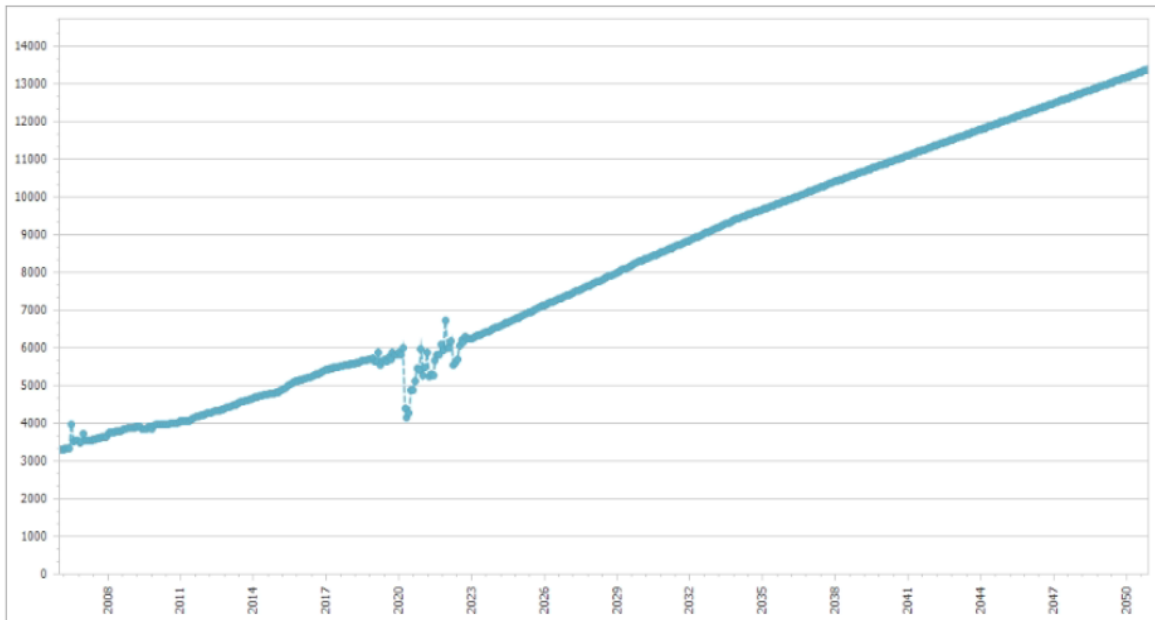
=====
Omnibus:                25.586    Durbin-Watson:          0.886
Prob(Omnibus):           0.000    Jarque-Bera (JB):       35.347
Skew:                   -0.771    Prob(JB):                2.11e-08
Kurtosis:                4.334    Cond. No.                237.
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Consumo alumbrado



OLS Regression Results

```

=====
Dep. Variable:          CALP      R-squared:                0.952
Model:                  OLS      Adj. R-squared:           0.952
Method:                 Least Squares  F-statistic:              3050.
Date:                   Tue, 20 Jun 2023  Prob (F-statistic):       2.09e-103
Time:                   09:57:19   Log-Likelihood:           -1007.0
No. Observations:      156      AIC:                      2018.
Df Residuals:          154      BIC:                      2024.
Df Model:               1
Covariance Type:       nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
const	1714.5169	51.002	33.617	0.000	1613.763	1815.271
CALP.1	1.1223	0.020	55.225	0.000	1.082	1.162

```

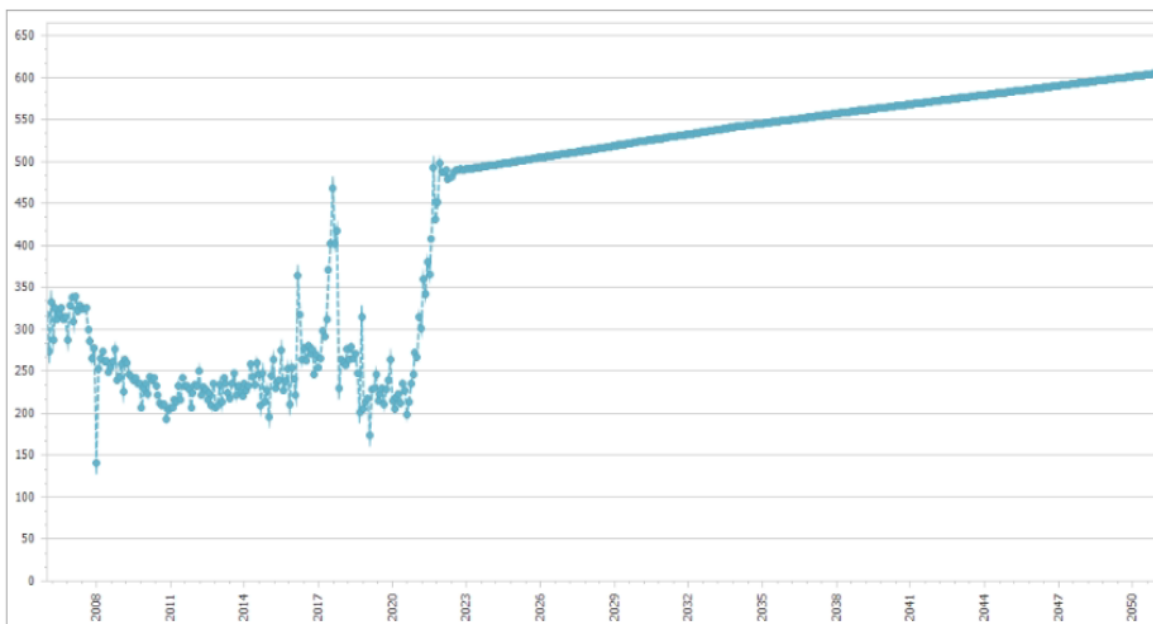
=====
Omnibus:                11.006   Durbin-Watson:           0.940
Prob(Omnibus):           0.004   Jarque-Bera (JB):        13.034
Skew:                    0.487   Prob(JB):                 0.00148
Kurtosis:                4.027   Cond. No.                 1.03e+04
=====

```

Notes:

- [1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
- [2] The condition number is large, 1.03e+04. This might indicate that there are strong multicollinearity or other numerical problems.

Consumo Otros



OLS Regression Results

```

=====
Dep. Variable:          COTR      R-squared:                0.014
Model:                  OLS      Adj. R-squared:           0.009
Method:                 Least Squares  F-statistic:              2.794
Date:                   Tue, 20 Jun 2023  Prob (F-statistic):       0.0962
Time:                   10:16:04    Log-Likelihood:          -1047.6
No. Observations:      192        AIC:                     2099.
Df Residuals:          190        BIC:                     2106.
Df Model:               1
Covariance Type:       nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
const	234.4751	16.547	14.171	0.000	201.836	267.114
COTR.1	0.0104	0.006	1.672	0.096	-0.002	0.023

```

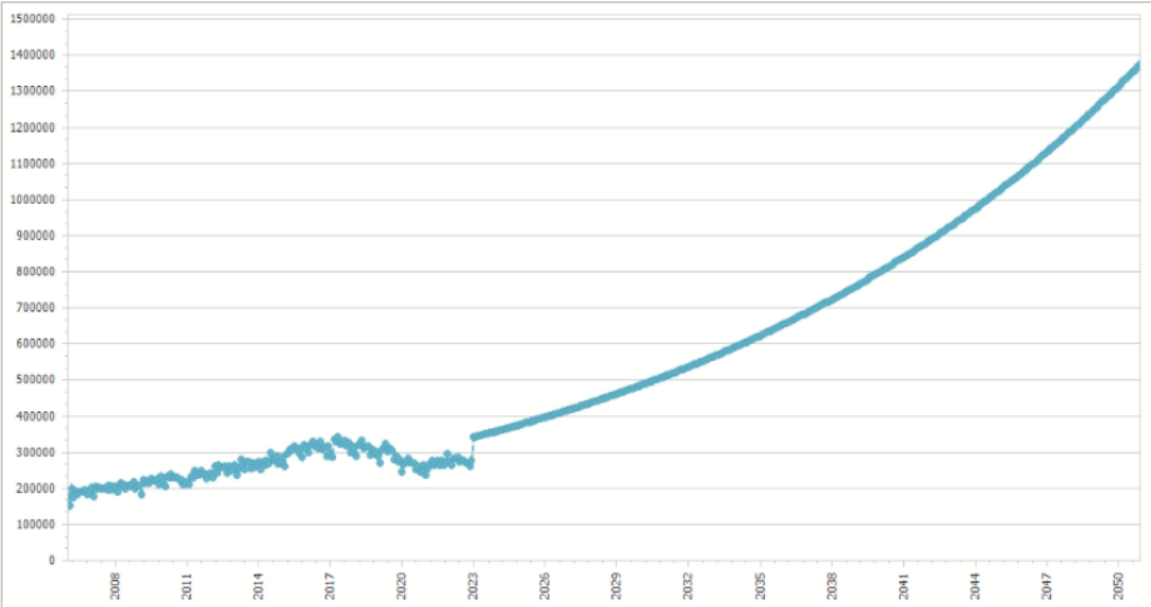
=====
Omnibus:                62.874    Durbin-Watson:           0.361
Prob(Omnibus):          0.000    Jarque-Bera (JB):       133.077
Skew:                   1.542    Prob(JB):                1.27e-29
Kurtosis:               5.669    Cond. No.                1.07e+04
=====

```

Notes:

- [1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
- [2] The condition number is large, 1.07e+04. This might indicate that there are strong multicollinearity or other numerical problems.

Consumo Total



CONSUMO TOTAL DEL PAÍS

