

Histórico - Precios FOB Spot de EIA - Brent Europa (Dólares por Barril)													
Año	Promedio	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
2010	79.51	76.17	73.75	78.83	84.82	75.95	74.76	75.58	77.04	77.84	82.66	85.27	91.45
2011	111.26	96.52	103.72	114.64	123.26	114.99	113.83	116.97	110.22	112.83	109.55	110.77	107.87
2012	111.65	110.69	119.33	125.45	119.75	110.34	95.16	102.62	113.36	112.86	111.71	109.06	109.49
2013	108.44	112.96	116.02	108.47	102.25	102.56	102.92	107.93	111.28	111.60	109.06	107.79	

Histórico - Variación de Precios FOB Spot de EIA - Brent Europa (Porcentaje)													
Año	Promedio	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
2010			-3.17%	6.88%	7.60%	-10.46%	-1.56%	1.10%	1.93%	1.04%	6.20%	3.16%	7.24%
2011	39.94%	5.55%	7.45%	10.54%	7.51%	-6.71%	-1.01%	2.76%	-5.77%	2.37%	-2.91%	1.11%	-2.62%
2012	0.35%	2.61%	7.81%	5.13%	-4.54%	-7.86%	-13.76%	7.84%	10.46%	-0.43%	-1.02%	-2.37%	0.40%
2013	-2.88%	3.17%	2.71%	-6.50%	-5.74%	0.30%	0.35%	4.87%	3.10%	0.28%	-2.27%	-1.16%	

Pronóstico - Precios FOB Spot de EIA - Brent Europa (Dólares por Barril)													
Año	Promedio	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
2013	1.32%	112.96	116.02	108.47	102.25	102.56	102.92	107.93	111.28	111.60	109.06	107.79	107.91
2014	1.32%	108.03	108.15	108.27	108.39	108.50	108.62	108.74	108.86	108.98	109.10	109.22	109.34
2015	1.32%	109.46	109.58	109.70	109.82	109.94	110.07	110.19	110.31	110.43	110.55	110.67	110.79
2016	1.32%	110.91	111.04	111.16	111.28	111.40	111.53	111.65	111.77	111.89	112.02	112.14	112.26
2017	1.32%	112.39	112.51	112.63	112.76	112.88	113.00	113.13	113.25	113.38	113.50	113.63	113.75

### Histórico - Precios de Paridad del Diesel Liviano Bajo en Azufre (Dólares por Barril)

Año	Promedio	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
2010	93.67	90.84	87.15	91.76	96.11	97.38	87.81	90.48	92.13	90.42	96.12	100.60	103.23
2011	128.43	109.57	117.77	129.31	136.83	135.79	131.29	129.87	131.33	129.99	126.36	134.00	129.10
2012	133.62	129.67	134.95	141.69	140.79	136.05	121.89	121.49	131.24	140.51	140.10	133.37	131.68
2013	130.77	133.04	138.60	137.04	131.46	125.09	124.31	126.89	130.92	134.24	130.17	126.71	

### Histórico - Variación de Precios de Paridad del Diesel Liviano Bajo en Azufre (Porcentaje)

Año	Promedio	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
2010			-4.06%	5.29%	4.74%	1.32%	-9.83%	3.04%	1.82%	-1.86%	6.31%	4.66%	2.61%
2011	37.11%	6.14%	7.48%	9.80%	5.81%	-0.75%	-3.32%	-1.08%	1.13%	-1.03%	-2.79%	6.05%	-3.66%
2012	4.04%	0.44%	4.07%	5.00%	-0.64%	-3.37%	-10.41%	-0.33%	8.02%	7.06%	-0.29%	-4.81%	-1.26%
2013	-2.13%	1.03%	4.18%	-1.13%	-4.07%	-4.85%	-0.62%	2.08%	3.17%	2.54%	-3.03%	-2.66%	

### Pronóstico - Precios de Paridad del Diesel Liviano Bajo en Azufre (Dólares por Barril)

Año	Promedio	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
2013	2.87%	133.04	138.60	137.04	131.46	125.09	124.31	126.89	130.92	134.24	130.17	126.71	127.02
2014	2.87%	127.32	127.62	127.93	128.23	128.54	128.85	129.15	129.46	129.77	130.08	130.39	130.70
2015	2.87%	131.02	131.33	131.64	131.96	132.27	132.59	132.90	133.22	133.54	133.86	134.18	134.50
2016	2.87%	134.82	135.14	135.46	135.79	136.11	136.44	136.76	137.09	137.42	137.75	138.07	138.40
2017	2.87%	138.73	139.07	139.40	139.73	140.06	140.40	140.73	141.07	141.41	141.74	142.08	142.42

### Histórico - Precios de Paridad del Bunker C (Dólares por Barril)

Año	Promedio	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
2010	73.93	75.89	73.59	75.04	75.33	75.93	68.53	70.86	72.38	70.44	74.27	76.89	78.03
2011	100.26	82.38	87.33	97.85	104.80	104.56	103.06	103.64	104.24	103.73	102.25	107.22	102.10
2012	106.34	104.71	110.76	116.82	116.41	110.68	97.77	93.59	101.38	107.24	117.15	99.99	99.62
2013	99.81	101.82	104.88	103.27	100.56	97.05	96.88	97.18	98.71	100.91	99.82	96.89	

### Histórico - Variación de Precios de Paridad del Bunker C (Porcentaje)

Año	Promedio	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
2010			-3.03%	1.97%	0.39%	0.80%	-9.75%	3.40%	2.14%	-2.67%	5.43%	3.53%	1.48%
2011	35.62%	5.58%	6.01%	12.05%	7.10%	-0.22%	-1.43%	0.56%	0.58%	-0.49%	-1.43%	4.86%	-4.77%
2012	6.06%	2.55%	5.79%	5.47%	-0.35%	-4.92%	-11.66%	-4.28%	8.33%	5.78%	9.25%	-14.65%	-0.36%
2013	-6.14%	2.20%	3.01%	-1.53%	-2.62%	-3.49%	-0.18%	0.31%	1.58%	2.23%	-1.08%	-2.94%	

### Pronóstico - Precios de Paridad del Bunker C (Dólares por Barril)

Año	Promedio	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
2013	4.49%	101.82	104.88	103.27	100.56	97.05	96.88	97.18	98.71	100.91	99.82	96.89	97.25
2014	4.49%	97.61	97.98	98.34	98.71	99.08	99.45	99.82	100.20	100.57	100.95	101.32	101.70
2015	4.49%	102.08	102.46	102.85	103.23	103.62	104.00	104.39	104.78	105.17	105.57	105.96	106.36
2016	4.49%	106.76	107.15	107.56	107.96	108.36	108.77	109.17	109.58	109.99	110.40	110.81	111.23
2017	4.49%	111.64	112.06	112.48	112.90	113.32	113.75	114.17	114.60	115.03	115.46	115.89	116.32

### Histórico - Precios de Paridad del Carbón de Colombia en Puerto Bolivar - 11600 BTU/6450 cal /kgr (Dólares por Barril)

Año	Promedio	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
2010	78.31	72.75	60.75	61.93	70.50	76.75	79.50	79.25	79.50	79.05	85.75	93.75	100.25
2011	110.46	109.13	110.69	114.54	119.63	113.58	113.33	113.10	115.65	111.63	103.83	101.85	98.58
2012	84.07	95.38	90.18	88.75	89.20	79.75	77.65	78.88	85.78	80.21	75.80	80.58	86.64
2013	84.40	92.70	85.38	86.10	85.01	81.75	82.95	84.47	76.84				

### Histórico - Variación de Precios del Carbón de Colombia en Puerto Bolivar - 11600 BTU/6450 cal /kgr (Porcentaje)

Año	Promedio	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
2010			-16.49%	1.94%	13.84%	8.87%	3.58%	-0.31%	0.32%	-0.57%	8.48%	9.33%	6.93%
2011	41.05%	8.85%	1.43%	3.47%	4.44%	-5.06%	-0.22%	-0.20%	2.25%	-3.48%	-6.99%	-1.90%	-3.22%
2012	-23.89%	-3.25%	-5.45%	-1.59%	0.51%	-10.59%	-2.63%	1.58%	8.74%	-6.49%	-5.50%	6.30%	7.52%
2013	0.40%	7.00%	-7.90%	0.84%	-1.27%	-3.83%	1.47%	1.83%	-9.03%				

### Pronóstico - Precios del Carbón de Colombia en Puerto Bolivar - 11600 BTU/6450 cal /kgr (USD / Ton)

Año	Promedio	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
2013	2.79%	92.70	85.38	86.10	85.01	81.75	82.95	84.47	76.84	77.02	77.20	77.38	77.56
2014	2.79%	77.74	77.92	78.10	78.28	78.46	78.64	78.83	79.01	79.19	79.38	79.56	79.75
2015	2.79%	79.93	80.12	80.30	80.49	80.68	80.87	81.05	81.24	81.43	81.62	81.81	82.00
2016	2.79%	82.19	82.38	82.57	82.76	82.96	83.15	83.34	83.54	83.73	83.92	84.12	84.32
2017	2.79%	84.51	84.71	84.90	85.10	85.30	85.50	85.70	85.90	86.10	86.30	86.50	86.70

Histórico - Precios de Paridad FOB del LPG H5 a Granel Propano (Dólares por Barril)													
Año	Promedio	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
2010	65.77	71.31	71.38	67.33	64.24	64.31	61.41	58.77	61.49	62.51	67.21	69.39	69.84
2011	84.46	73.33	73.86	76.57	76.48	81.60	82.01	91.70	92.98	94.43	92.28	90.63	87.59
2012	70.71	83.28	80.07	79.43	79.47	73.37	61.74	61.99	65.41	65.77	67.44	68.21	62.33
2013	68.91	63.06	64.01	64.71	67.40	68.42	66.71	65.45	69.65	76.01	74.85	77.77	

Histórico - Variación de Precios de Paridad FOB del LPG H5 a Granel Propano (Porcentaje)													
Año	Promedio	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
2010			0.10%	-5.68%	-4.58%	0.10%	-4.50%	-4.30%	4.63%	1.65%	7.52%	3.24%	0.66%
2011	28.42%	5.00%	0.72%	3.67%	-0.12%	6.70%	0.49%	11.82%	1.39%	1.57%	-2.28%	-1.79%	-3.36%
2012	-16.28%	-4.92%	-3.85%	-0.80%	0.04%	-7.67%	-15.85%	0.41%	5.50%	0.56%	2.54%	1.14%	-8.62%
2013	-2.54%	1.16%	1.51%	1.10%	4.16%	1.51%	-2.50%	-1.89%	6.41%	9.14%	-1.52%	3.90%	

Pronóstico - Precios de Paridad FOB del LPG H5 a Granel Propano (Dólares por Barril)													
Año	Promedio	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
2013	2.35%	63.06	64.01	64.71	67.40	68.42	66.71	65.45	69.65	76.01	74.85	77.77	77.93
2014	2.35%	78.08	78.23	78.39	78.54	78.69	78.85	79.00	79.16	79.31	79.47	79.62	79.78
2015	2.35%	79.93	80.09	80.25	80.40	80.56	80.72	80.88	81.04	81.19	81.35	81.51	81.67
2016	2.35%	81.83	81.99	82.15	82.31	82.47	82.64	82.80	82.96	83.12	83.29	83.45	83.61
2017	2.35%	83.78	83.94	84.10	84.27	84.43	84.60	84.76	84.93	85.10	85.26	85.43	85.60

**Histórico - Precios Spot del Gas Natural Henry Hub en la Costa del Golfo (Dólares por Barril)**

Año	Promedio	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
2010	4.39	5.83	5.32	4.29	4.03	4.14	4.80	4.63	4.32	3.89	3.43	3.71	4.25
2011	4.00	4.49	4.09	3.97	4.24	4.31	4.54	4.42	4.06	3.90	3.57	3.24	3.17
2012	2.75	2.67	2.51	2.17	1.95	2.43	2.46	2.95	2.84	2.85	3.32	3.54	3.34
2013	3.69	3.33	3.33	3.81	4.17	4.04	3.83	3.62	3.43	3.62	3.68		

**Histórico - Variación de Precios Spot de EIA del Gas Natural Natural Henry Hub en la Costa del Golfo (Dólares por Millón de Btu)**

Año	Promedio	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
2010			-8.75%	-19.36%	-6.06%	2.73%	15.94%	-3.54%	-6.70%	-9.95%	-11.83%	8.16%	14.56%
2011	-8.81%	5.65%	-8.91%	-2.93%	6.80%	1.65%	5.34%	-2.64%	-8.14%	-3.94%	-8.46%	-9.24%	-2.16%
2012	-31.19%	-15.77%	-5.99%	-13.55%	-10.14%	24.62%	1.23%	19.92%	-3.73%	0.35%	16.49%	6.63%	-5.65%
2013	33.91%	-0.30%	0.00%	14.41%	9.45%	-3.12%	-5.20%	-5.48%	-5.25%	5.54%	1.66%		

**Pronóstico - Precios Spot del Gas Natural Henry Hub en la Costa del Golfo (Dólares por Millón de Btu)**

Año	Promedio	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
2013	3.73%	3.33	3.33	3.81	4.17	4.04	3.83	3.62	3.43	3.62	3.68	3.69	3.70
2014	3.73%	3.71	3.73	3.74	3.75	3.76	3.77	3.78	3.80	3.81	3.82	3.83	3.84
2015	3.73%	3.86	3.87	3.88	3.89	3.90	3.92	3.93	3.94	3.95	3.96	3.98	3.99
2016	3.73%	4.00	4.01	4.03	4.04	4.05	4.06	4.08	4.09	4.10	4.12	4.13	4.14
2017	3.73%	4.15	4.17	4.18	4.19	4.21	4.22	4.23	4.25	4.26	4.27	4.29	4.30