

HARGA BATUBARA ACUAN (HBA) & HARGA PATOKAN BATUBARA (HPB)

BULAN AGUSTUS 2011

HBA

HBA (US\$/Ton)	117.21	FOB Vessel
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HPB BATUBARA MARKER

NO	MEREK DAGANG/ BRAND	KUALITAS TYPICAL				HPB MARKER (US\$/ton)
		CV (kcal/kg GAR)	TM (%, ar)	TS (%, ar)	Ash (%,ar)	
Batubara Utama						
1	Gunung Bayan I	7.000	10,0	1,0	15,0	126.16
2	Prima Coal	6.700	12,0	0,6	5,0	123.62
3	Pinang 6150	6.200	14,5	0,6	5,5	111.43
4	Indominco IM_East	5.700	17,5	1,6	4,8	95.53
5	Melawan Coal	5.400	22,5	0,4	5,0	89.94
6	Envirocoal	5.000	26,0	0,1	1,2	82.88
7	Jorong J-1	4.400	32,0	0,3	4,2	66.84
8	Ecocoal	4.200	35,0	0,2	3,9	60.57

HPB BATUBARA LAINNYA

No	MEREK DAGANG/ BRAND	Kualitas Tipikal				HPB (USD/ton)
		CV (kcal/kg GAR)	TM (%,ar)	TS (%,ar)	Ash (%,ar)	
9	Gunung Bayan II	7,000	12.00	2.00	10.00	121.34
10	Marunda Thermal Coal	6,600	11.00	0.50	10.00	121.57
11	Trubaindo HCV_HS	6,553	12.00	1.69	4.21	116.97
12	Trubaindo HCV_LS	6,423	11.50	0.71	4.76	119.01
13	Tanjung Formation Coal	6,420	11.00	0.70	12.50	116.55
14	Pinang 6000 NAR	6,300	14.00	0.60	5.50	113.78
15	Arutmin Satui 10	6,300	11.00	1.00	10.00	114.19
16	Arutmin Senakin	6,250	11.00	1.00	12.00	112.50
17	Arutmin A6250	6,250	10.00	1.20	12.00	112.96
18	Mandiri A	6,210	10.00	0.70	4.65	117.17
19	Wahana Coal	6,200	12.00	0.90	10.00	111.55
20	Indominco IM_West / 6500	6,171	15.50	0.76	5.22	109.16
21	TAJ Coal	6,200	12.00	1.00	14.00	109.55
22	Mandiri B	6,148	10.00	1.26	4.70	113.79
23	Trubaindo MCV_LS	6,143	14.00	0.76	5.20	110.54
24	SKB Coal	6,130	9.00	2.20	17.00	106.01
25	Baramarta Coal	6,112	9.50	0.95	13.00	111.67
26	Arutmin A6100	6,100	11.50	1.00	12.50	108.99
27	Insani Coal	6,050	19.00	0.15	3.20	106.10
28	BCS Coal	5,915	15.10	0.56	9.40	104.40
29	Indominco IM_West / 6350	6,029	15.50	0.71	5.22	106.94
30	Pinang 6000	6,000	16.00	0.60	5.00	106.37
31	Indominco IMM_MCVHS	5,970	15.50	1.65	5.05	102.24
32	Multi Coal Low	5,950	16.00	1.00	7.00	103.12
33	Bangun Coal	5,929	8.20	1.15	15.23	108.19
34	Multi Coal Middle	5,900	16.00	2.00	7.00	98.27
35	Pinang 5900	5,900	19.00	0.90	4.50	100.11
36	Arutmin A5900	5,900	12.00	0.90	13.00	105.03

No	MEREK DAGANG/ BRAND	Kualitas Tipikal				HPB (USD/ton)
		CV (kcal/kg GAR)	TM (%ar)	TS (%ar)	Ash (%ar)	
37	Multi Coal High	5,765	16.00	3.20	7.00	91.19
38	KCM Coal	5,730	10.50	0.90	20.50	100.75
39	TSA coal	5,700	18.00	2.00	8.00	92.19
40	Tanito Coal / ISC	5,700	17.50	1.00	8.50	96.57
41	Tanito Coal	5,700	17.50	1.00	8.50	96.57
42	Pinang 5700	5,700	19.00	0.50	5.00	98.24
43	Arutmin A5700	5,700	11.00	0.80	14.00	102.63
44	BSS Coal	5,520	10.00	0.45	15.50	101.32
45	Lanna Harita Coal	5,500	22.00	1.00	6.00	89.25
46	Pinang 5500	5,500	21.00	0.40	5.50	92.96
47	Berau Mah	5,500	18.00	0.65	4.50	95.25
48	Berau MahB	5,300	22.50	0.80	4.30	86.90
49	Kideco Coal	5,125	24.50	0.10	2.00	85.98
50	Berau Agathis	5,100	25.00	0.85	4.40	81.00
51	Lanna Harita Coal	5,000	27.00	1.20	6.00	75.56
52	Berau Sungkai	5,000	26.00	1.00	5.00	78.16
53	Berau Sungkai High S	5,000	26.00	1.40	5.00	76.16
54	Arutmin A5000	5,000	22.40	0.54	8.90	81.67
55	Warukin Formation Coal	4,760	25.00	0.55	4.50	77.14
56	Bas Gumay Coal	4,400	35.00	0.50	4.96	62.85
57	PIC Coal	4,200	33.00	1.75	6.00	55.20
58	BIB Coal	3,800	41.00	0.40	5.00	43.81
59	Intitirta coal	3,749	42.00	0.50	4.00	42.45
60	PKN 3500	3,520	43.40	0.15	3.40	38.85
61	LIM 3000	2,995	50.10	0.60	5.30	28.96

FORMULA HARGA PATOKAN BATUBARA STEAM (THERMAL)

1. Harga Batubara Acuan (dalam kesetaraan nilai kalor 6322 kkal/kg GAR)

$$\text{HBA} = 25\% \text{ ICI} + 25\% \text{ Platts1} + 25\% \text{ NEX} + 25\% \text{ GC} \quad [\text{USD/ton}]$$

Di mana:

- HBA = Harga Batubara Acuan [US\$/ton]
- ICI = Indonesia Coal Index [US\$/ton]
- NEX = New Castle Export Index [US\$/ton]
- GC = New Castle Global Coal Index [US\$/ton]

Konversi nilai kalor batubara dari kondisi ADB ke GAR:

$$K_{\text{GAR}} = K_{\text{ADB}} * (100 - \text{TM}) / (100 - \text{IM})$$

Di mana:

K GAR = Nilai kalor batubara kondisi GAR (*gross as received*)

K ADB = Nilai kalor batubara kondisi ADB (*as dried basis*)

TM = *Total moisture*

IM = *Inherent Moisture*

Untuk :

Kandungan Belerang Batubara dalam *as received* (ar)

Kandungan Abu Batubara dalam *as received* (ar)

2. Menghitung HPB marker No. 1 - 7

$$\text{HPB Marker}_{(i)} = (\text{HBA} * K_{(i)} * A_{(i)}) - (B_{(i)} + U_{(i)}) \quad [\text{US}\$/\text{ton}]$$

Di mana:

- HBP Marker_(i) = HPB dari 7 batubara price marker [US\$/ton]
- K_(i) = Nilai Kalor Batubara_(i) / 6322 [fraksi]
- A_(i) = (100 - Kandungan Air Batubara_(i)) / (100 - 8) [fraksi]
- B_(i) = (Kandungan Belerang Batubara_(i) - 0.8) * 4 [US\$/ton]
- U_(i) = (Kandungan Abu Batubara_(i) - 15) * 0.4 [US\$/ton]
- (i) = price marker 1 - 7

3. Harga Patokan Batubara Marker No. 8

$$\text{HPB Marker}_{(i)} = (\text{HBA} * K_{(i)} * A_{(i)}) - (B_{(i)} + U_{(i)}) \quad [\text{US}\$/\text{ton}]$$

Di mana:

- HBP Marker_(i) = HPB batubara price marker 8 [US\$/ton]
- K_(i) = Nilai Kalor Batubara_(i) / 6322 [fraksi]
- A_(i) = (100 - Kandungan Air Batubara_(i)) / (100 - 8/FKA_(i)) [fraksi]
- FKA_(i) = (((100-8)/(100 - Kandungan Air Batubara_(i)))*
Kandungan Air Batubara_(i))+(100 - 8))/100 [persen]

- $B_{(i)}$ = (Kandungan Belerang Batubara (i) – 0.8) * 4 [US\$/ton]
- $U_{(i)}$ = (Kandungan Abu Batubara (i) – 15) * 0.4 [US\$/ton]
- (i) = price marker 8

4. Harga Patokan Batubara Lain No. 9 – 56

$$HPB_{(j)} = \{ \{ (HBA \text{ Price Marker}_{(i)} + (B_{(i)} + U_{(i)})) * (K_{(j)} / K_{(i)}) * [(100 - \text{Kandungan Air}_{(j)}) / (100 - \text{Kandungan Air}_{(i)})] * [(100 - 8) / (100 - 8)] \} - (B_{(j)} + U_{(j)}) \}$$
 [USD/ton]

Di mana:

- $HPB_{(j)}$ = HPB batubara selain batubara Price Marker [US\$/ton]
- $B_{(i)}$ = (Kandungan Belerang Batubara (i) – 0.8) * 4 [US\$/ton]
- $U_{(i)}$ = (Kandungan Abu Batubara (i) – 15) * 0.4 [US\$/ton]
- $B_{(j)}$ = (Kandungan Belerang Batubara (j) – 0.8) * 4 [US\$/ton]
- $U_{(j)}$ = (Kandungan Abu Batubara (j) – 15) * 0.4 [US\$/ton]
- $K_{(j)} / K_{(i)}$ = Nilai Kalor Batubara (j) / Nilai Kalor Batubara (i) [fraksi]
- (i) = price marker 1 – 7
- (j) = batubara lain 9 – 56

5. Harga Patokan Batubara Lain No. 57 – 61 (Batubara Kalori Rendah)

– Bila TM < 40%

$$HPB_{(j)} = \{ \{ (HBA \text{ Price Marker}_{(i)} + (B_{(i)} + U_{(i)})) * (K_{(j)} / K_{(i)}) * [(100 - \text{Kandungan Air}_{(j)}) / (100 - \text{Kandungan Air}_{(i)})] * [(100 - 8 / FKA_{(i)}) / (100 - 8 / FKA_{(j)})] \} - (B_{(j)} + U_{(j)}) \}$$
 [USD/ton]

Di mana:

- $HPB_{(j)}$ = HPB batubara selain batubara Price Marker [USD/ton]
- $HPB \text{ Marker}_{(i)}$ = HPB batubara price marker (i) [USD/ton]
- $B_{(i)}$ = (Kandungan Belerang Batubara (i) – 0.8) * 4 [USD/ton]
- $U_{(i)}$ = (Kandungan Abu Batubara (i) – 15) * 0.4 [USD/ton]
- $B_{(j)}$ = (Kandungan Belerang Batubara (j) – 0.8) * 4 [USD/ton]
- $U_{(j)}$ = (Kandungan Abu Batubara (j) – 15) * 0.4 [USD/ton]
- $FKA_{(j)}$ = $\{ ((100 - \text{Kandungan Air Batubara}_{(j)}) / (100 - \text{Kandungan Air Batubara}_{(i)})) * \text{Kandungan Air Batubara}_{(j)} + (100 - \text{Kandungan Air Batubara}_{(i)}) \} / 100$ [persen]
- $K_{(j)} / K_{(i)}$ = Nilai Kalor Batubara (j) / Nilai Kalor Batubara (i) [fraksi]
- (i) = price marker 8
- (j) = batubara lain 57 – 58

– Bila TM ≥ 40%

$$HPB_{(i)} = \left\{ \left(\text{HBA Price Marker}_{(i)} + (B_{(i)} + U_{(i)}) \right) * \left(K_{(j)} / K_{(i)} \right) * \right. \\ \left. \left[\frac{100 - \text{Kandungan Air}_{(j)}}{100 - \text{Kandungan Air}_{(i)}} \right] * \right. \\ \left. \left[\frac{100 - 8/\text{FKA}_{(i)}}{100 - 8/\text{FKA}_{(j)}} \right] \right\} \quad [\text{USD/ton}]$$

Di mana:

- $HPB_{(i)}$ = HPB batubara selain batubara Price Marker [USD/ton]
- $HPB \text{ Marker}_{(i)}$ = HPB batubara price marker (i) [USD/ton]
- $FKA_{(j)}$ = $\left(\frac{100 - \text{Kandungan Air Batubara}_{(j)}}{100 - \text{Kandungan Air Batubara}_{(i)}} \right) * \text{Kandungan Air Batubara}_{(j)} + (100 - \text{Kandungan Air Batubara}_{(i)}) / 100$ [persen]
- $K_{(j)} / K_{(i)}$ = Nilai Kalor Batubara (j) / Nilai Kalor Batubara (i) [fraksi]
- $B_{(i)}$ = $(\text{Kandungan Belerang Batubara}_{(i)} - 0.8) * 4$ [USD/ton]
- $U_{(i)}$ = $(\text{Kandungan Abu Batubara}_{(i)} - 15) * 0.4$ [USD/ton]
- $B_{(j)}$ = $(\text{Kandungan Belerang Batubara}_{(j)} - 0.8) * 4$ [USD/ton]
- $U_{(j)}$ = $(\text{Kandungan Abu Batubara}_{(j)} - 15) * 0.4$ [USD/ton]
- (i) = price marker 8
- (j) = batubara lain 59 – 61

Ketentuan :

1. Harga Batubara Acuan dan Harga Patokan Batubara diatas merupakan harga batubara untuk penjualan *spot* dalam periode 1 Agustus 2011 sampai dengan 31 Agustus 2011
2. Dalam hal penjualan batubara dilakukan secara jangka tertentu (*term*), harga batubara mengacu pada rata-rata 3 (tiga) Harga Patokan Batubara terakhir pada bulan dimana dilakukan kesepakatan harga batubara, dengan faktor pengali 50% untuk Harga Patokan Batubara bulan terakhir, 30% untuk Harga Patokan Batubara satu bulan sebelumnya dan 20% untuk Harga Patokan Batubara dua bulan sebelumnya.

BULAN	HBA (USD/ton)	MARKER							
		Gunung Bayan I 7000 kcal/kg (gar)	Prima Coal 6700 kcal/kg (gar)	Pinang Coal 6150 kcal/kg (gar)	Indominco IM East 5700 kcal/kg (gar)	Melawan Coal 5400 kcal/kg (gar)	Envirocoal 5000 kcal/kg (gar)	Jorong J-1 4400 kcal/kg (gar)	Arutmin Ecocoal 4200 kcal/kg (gar)
2011									
Des 2011									
Nov 2011									
Okt 2011									
Sept 2011									
Ags 2011	117.21	126.16	123.62	111.43	95.53	89.94	82.88	66.84	60.57
Juli 2011	118.24	127.27	124.66	112.37	96.36	90.68	83.54	67.37	61.04
Juni 2011	119.03	128.13	125.46	113.09	97.00	91.25	84.04	67.77	61.40
Mei 2011	117.61	126.59	124.02	111.79	95.85	90.22	83.14	67.04	60.75
Apr 2011	122.02	131.37	128.49	115.81	99.41	93.40	85.94	69.31	62.77
Mar 2011	122.43	132.01	127.71	115.03	99.56	92.29	84.12	67.89	61.23
Feb 2011	127.05	137.02	132.39	119.25	103.29	95.62	87.06	70.26	63.34
Jan 2011	112.40	121,15	117,54	105,89	91,45	85,08	77,74	62,73	56,64
Rata2	119.50	129.79	126.62	114.11	98.14	91.91	84.39	68.07	61.58
2010									
Des 2010	103.41	111.41	108.43	97.70	84.18	78.61	72.02	58.10	52.52
Nov 2010	95.51	102.85	100.42	90.50	77.79	72.92	67.00	54.04	48.90
Okt 2010	92.68	99.79	97.55	87.92	75.50	70.89	65.20	52.58	47.61
Sept 2010	90.05	96.94	94.88	85.52	73.38	68.99	63.53	51.23	46.41
Ags 2010	94.86	102.15	99.76	89.91	77.27	72.46	66.59	53.70	48.61
Juli 2010	96.65	104.09	101.58	91.54	78.71	73.74	67.72	54.62	49.43
Juni 2010	97.22	104.71	102.16	92.06	79.18	74.16	68.09	54.92	50.82
Mei 2010	92.07	99.13	96.93	87.36	75.01	70.45	64.81	52.27	48.41
Apr 2010	86.58	93.18	91.37	82.36	70.57	66.50	61.32	49.44	45.83
Mar 2010	86.64	93.25	91.43	82.41	70.62	66.54	61.36	49.47	45.86
Feb 2010	87.81	94.61	92.70	83.56	71.63	67.44	62.15	50.12	46.45
Jan 2010	77.39	83.22	82.05	73.98	63.14	59.88	55.47	44.71	41.51
Rata2	103.64	111.18	108.61	97.88	84.11	78.89	72.52	58.49	53.25
2009									
Des 2009	74.51	80.11	79.14	71.36	60.82	57.82	53.64	43.24	40.17
Nov 2009	68.99	74.13	73.54	66.33	56.35	53.84	50.13	40.40	37.57
Okt 2009	66.71	71.66	71.23	64.25	54.51	52.20	48.68	39.22	36.50
Sept 2009	70.44	75.70	75.01	67.65	57.52	54.89	51.05	41.14	38.25
Ags 2009	71.47	76.82	76.05	68.59	58.36	55.63	51.71	41.67	38.74
Juli 2009	71.29	76.62	75.86	68.42	58.21	55.49	51.59	41.58	38.65
Juni 2009	63.87	68.58	68.34	61.66	52.21	50.15	46.87	37.76	35.17
Mei 2009	62.83	67.45	67.29	60.71	51.37	49.41	46.21	37.22	34.68
Apr 2009	63.08	67.72	67.54	60.94	51.57	49.59	46.37	37.35	34.80
Mar 2009	75.11	80.75	79.74	71.90	61.29	58.24	54.02	43.54	40.44
Feb 2009	81.35	87.51	86.06	77.59	66.34	62.73	57.99	46.75	43.37
Jan 2009	78.70	84.65	83.38	75.18	64.20	60.83	56.30	45.39	41.21
Rata2	70.70	75.97	75.26	67.88	57.73	55.07	51.21	41.27	38.30