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

BULAN JUNI 2011

HBA BULAN JUNI 2011

HBA JUNI	US$/Ton	119,03	FOB *Vessel*

HPB BATUBARA MARKER

NO	MEREK DAGANG/ *BRAND*	KUALITAS *TYPICAL*				HPB MARKER
		CV (kcal/kg GAR)	TM (%, ar)	TS (%, ar)	Ash (%,ar)	Juni 2011
	Batubara Utama					
1	Gunung Bayan I	7.000	10,0	1,0	15,0	128.13
2	Prima Coal	6.700	12,0	0,6	5,0	125.46
3	Pinang 6150	6.200	14,5	0,6	5,5	113.09
4	Indominco IM_East	5.700	17,5	1,6	4,8	97.00
5	Melawan Coal	5.400	22,5	0,4	5,0	91.25
6	Envirocoal	5.000	26,0	0,1	1,2	84.04
7	Jorong J-1	4.400	32,0	0,3	4,2	67.77
8	Ecocoal	4.200	35,0	0,2	3,9	61.40

HPB BATUBARA LAINNYA

No	MEREK DAGANG/ BRAND	Kualitas Tipikal				Formula	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	(0.9778 * Gunung Bayan I) - 2.0181	123.27
10	Marunda Thermal Coal	6,600	11.00	0.50	10.00	(0.9963 * Prima Coal) - 1.582	123.41
11	Trubaindo HCV_HS	6,553	12.00	1.69	4.21	(0.9781 * Prima Coal) - 3.939	118.77
12	Trubaindo HCV_LS	6,423	11.50	0.71	4.76	(0.9641 * Prima Coal) - 0.172	120.79
13	Tanjung Formation Coal	6,420	11.00	0.70	12.50	(0.9691 * Prima Coal) - 3.252	118.33
14	Pinang 6000 NAR	6,300	14.00	0.60	5.50	(1.0221 * Pinang 6150) - 0.102	115.48
15	Arutmin Satui 10	6,300	11.00	1.00	10.00	(1.0577 * Pinang 6150) - 3.666	115.95
16	Arutmin Senakin	6,250	11.00	1.00	12.00	(1.0493 * Pinang 6150) - 4.427	114.24
17	Arutmin A6250	6,250	10.00	1.20	12.00	(1.0611 * Pinang 6150) - 5.281	114.72
18	Mandiri A	6,210	10.00	0.70	4.65	(1.0543 * Pinang 6150) - 0.310	118.92
19	Wahana Coal	6,200	12.00	0.90	10.00	(1.0292 * Pinang 6150) - 3.135	113.26
20	Indominco IM_West / 6500	6,171	15.50	0.76	5.22	(0.9837 * Pinang 6150) - 0.453	110.79
21	TAJ Coal	6,200	12.00	1.00	14.00	(1.0292 * Pinang 6150) - 5.135	111.26
22	Mandiri B	6,148	10.00	1.26	4.70	(1.0438 * Pinang 6150) - 2.521	115.52
23	Trubaindo MCV_LS	6,143	14.00	0.76	5.20	(0.9966 * Pinang 6150) - 0.504	112.20
24	SKB Coal	6,130	9.00	2.20	17.00	(1.0523 * Pinang 6150) - 11.241	107.76
25	Baramarta Coal	6,112	9.50	0.95	13.00	(1.0435 * Pinang 6150) - 4.600	113.40
26	Arutmin A6100	6,100	11.50	1.00	12.50	(1.0184 * Pinang 6150) - 4.485	110.68
27	Insani Coal	6,050	19.00	0.15	3.20	(0.9244 * Pinang 6150) + 3.088	107.63
28	BCS Coal	6,050	16.26	0.45	9.32	(0.9557 * Pinang 6150) - 0.724	107.35
29	Indominco IM_West / 6350	6,029	15.50	0.71	5.22	(0.9610 * Pinang 6150) - 0.149	108.53
30	Pinang 6000	6,000	16.00	0.60	5.00	(0.9508 * Pinang 6150) + 0.426	107.94
31	Indominco IMM_MCVHS	5,970	15.50	1.65	5.05	(0.9516 * Pinang 6150) - 3.798	103.82
32	Multi Coal Low	5,950	16.00	1.00	7.00	(0.9428 * Pinang 6150) - 1.937	104.68
33	Bangun Coal	5,929	8.20	1.15	15.23	(1.0268 * Pinang 6150) - 6.215	109.90
34	Multi Coal Middle	5,900	16.00	2.00	7.00	(0.9349 * Pinang 6150) - 5.901	99.83
35	Pinang 5900	5,900	19.00	0.90	4.50	(0.9015 * Pinang 6150) - 0.347	101.60
36	Arutmin A5900	5,900	12.00	0.90	13.00	(0.9794 * Pinang 6150) - 4.105	106.65
37	Multi Coal High	5,765	16.00	3.20	7.00	(1.0298 * Indominco IM_East) - 7.183	92.70
38	KCM Coal	5,730	10.50	0.90	20.50	(1.0906 * Indominco IM_East) - 3.429	102.35

No	MEREK DAGANG/ BRAND	Kualitas Tipikal				Formula	HPB (USD/ton)
		CV (kcal/kg GAR)	TM (%,ar)	TS (%,ar)	Ash (%,ar)		
39	TSA coal	5,700	18.00	2.00	8.00	(0.9939 * Indominco IM_East) - 2.755	93.65
40	Tanito Coal / ISC	5,700	17.50	1.00	8.50	(1.0000 * Indominco IM_East) + 1.040	98.04
41	Tanito Coal	5,700	17.50	1.00	8.50	(1.0000 * Indominco IM_East) + 1.040	98.04
42	Pinang 5700	5,700	19.00	0.50	5.00	(0.9818 * Indominco IM_East) + 4.454	99.69
43	Arutmin A5700	5,700	11.00	0.80	14.00	(1.0788 * Indominco IM_East) - 0.420	104.22
44	BSS Coal	5,520	10.00	0.45	15.50	(1.0565 * Indominco IM_East) + 0.397	102.87
45	Lanna Harita Coal	5,500	22.00	1.00	6.00	(0.9123 * Indominco IM_East) + 2.107	90.60
46	Pinang 5500	5,500	21.00	0.40	5.50	(0.9240 * Indominco IM_East) + 4.698	94.32
47	Berau Mah	5,500	18.00	0.65	4.50	(0.9591 * Indominco IM_East) + 3.631	96.66
48	Berau MahB	5,300	22.50	0.80	4.30	(0.9815 * Melawan Coal) - 1.376	88.18
49	Kideco Coal	5,125	24.50	0.10	2.00	(0.9246 * Melawan Coal) + 2.822	87.19
50	Berau Agathis	5,100	25.00	0.85	4.40	(1.0338 * Envirocoal) - 4.681	82.20
51	Lanna Harita Coal	5,000	27.00	1.20	6.00	(0.9865 * Envirocoal) - 6.208	76.70
52	Berau Sungkai	5,000	26.00	1.00	5.00	(1.0000 * Envirocoal) - 4.720	79.32
53	Berau Sungkai High S	5,000	26.00	1.40	5.00	(1.0000 * Envirocoal) - 6.720	77.32
54	Arutmin A5000	5,000	22.40	0.54	8.90	(1.0486 * Envirocoal) - 5.245	82.88
55	Warukin Formation Coal	4,760	25.00	0.55	4.50	(0.9649 * Envirocoal) - 2.828	78.26
56	Bas Gumay Coal	4,400	35.00	0.50	4.96	(0.9559 * Jorong J-1) - 1.035	63.75
57	PIC Coal	4,200	33.00	1.75	6.00	(1.0327 * Ecocoal) - 7.346	56.06
58	BIB Coal	3,800	41.00	0.40	5.00	(0.8167 * Ecocoal) - 5.652	44.49
59	Intitirta coal	3,749	42.00	0.50	4.00	(0.7914 * Ecocoal) - 5.476	43.11
60	PKN 3500	3,520	43.40	0.15	3.40	(0.7242 * Ecocoal) - 5.011	39.45
61	LIM 3000	2,995	50.10	0.60	5.30	(0.5399 * Ecocoal) - 3.736	29.41

FORMULA HARGA PATOKAN BATUBARA *STEAM* (*THERMAL*)

1. Harga Batubara Acuan (dalam kesetaraan nilai kalor 6322 kkal/kg GAR)
   HBA = 25% lCl1 + 25% Platts1 + 25% NEX + 25% GC [USDIton]

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

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*
I M = *Inherent Moisture*
Untuk :
Kandungan Belerang Batubara dalam *as received* (ar)
Kandungan Abu Batubara dalam *as received* (ar)

2. Menghitung HPB marker No. 1 - 7

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

   Di mana:

- $\text{HBP Marker}_{(i)}$ = 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

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

   Di mana:

- $\text{HBP Marker}_{(i)}$ = 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 $\text{Batubara}_{(i)}$))* Kandungan Air $\text{Batubara}_{(i)}$))+(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 Price Marker $_{(i)}$ + ($B_{(i)}$ + $U_{(i)}$)) * ($K_{(j)}$ / $K_{(i)}$) *
[(100 – Kandungan Air $_{(j)}$)/(100 – 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)

– <u>Bila TM < 40%</u>

$HPB_{(j)}$ = {(HBA Price Marker $_{(i)}$ + ($B_{(i)}$ + $U_{(i)}$)) * ($K_{(j)}$ / $K_{(i)}$) *
[(100 – Kandungan Air $_{(j)}$)/(100 – 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 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]
- $FKA_{(i)}$ = (((100-8)/(100 – Kandungan Air $Batubara_{(i)}$))*
Kandungan Air $Batubara_{(i)}$)+(100 – 8))/100 [persen]
- $FKA_{(j)}$ = (((100-8)/(100 – Kandungan Air $Batubara_{(j)}$))*
Kandungan Air $Batubara_{(j)}$)+(100 – 8))/100 [persen]
- $K_{(j)}$ / $K_{(i)}$ = Nilai Kalor Batubara (j) / Nilai Kalor Batubara (i) [fraksi]
- (i) = price marker 8
- (j) = batubara lain 57 – 58

– <u>Bila TM ≥ 40%</u>

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

Di mana:

- $HPB_{(j)}$ = HPB batubara selain batubara Price Marker [USD/ton]
- $HPB\ Marker_{(i)}$ = HPB batubara price marker (i) [USD/ton]
- $FKA_{(i)}$ = (((100-8)/(100 – Kandungan Air $Batubara_{(i)}$))* Kandungan Air $Batubara_{(i)}$)+(100 – 8))/100 [persen]
- $FKA_{(j)}$ = (((100-8)/(100 – Kandungan Air $Batubara_{(j)}$))* Kandungan Air $Batubara_{(j)}$)+(100 – 8))/100 [persen]
- $K_{(j)}$ / $K_{(i)}$ = Nilai Kalor Batubara (j) / Nilai Kalor Batubara (i) [fraksi]
- $B_{(i)}$ = (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]
- (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 Juni 2011 sampai dengan 30 Juni 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 fakor 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									
Juli 2011									
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	120.09	131.02	127.62	114.99	99.02	92.56	84.86	68.45	61.90
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	102.18	109.53	106.94	96.38	82.84	77.66	71.36	57.55	52.43
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