



<b>Lokasi dan Daya Terpasang Pembangkit PT PJB</b>		
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**UP MUARA KARANG**  
Total Kapasitas: 909 MW



**UP MUARA TAWAR**  
PLTGU 920 MW



**UP CIRATA**  
PLTA 1.008 MW



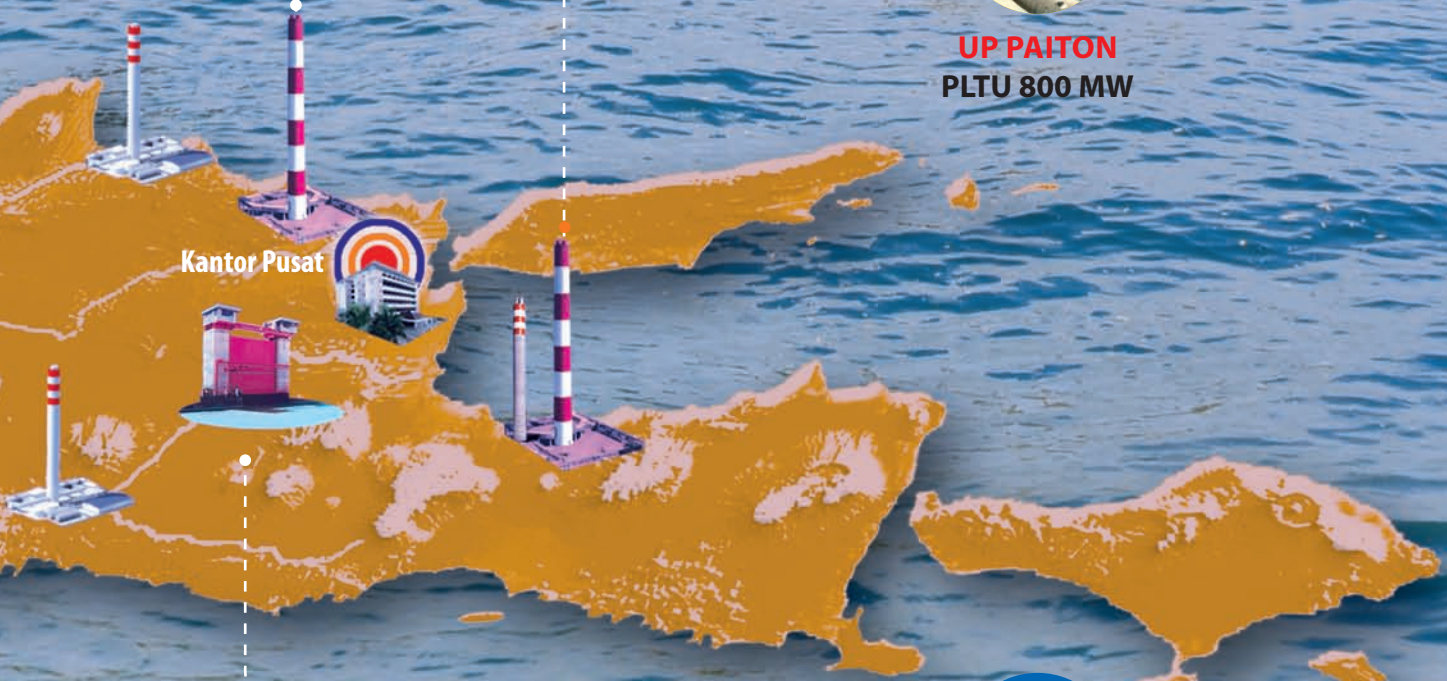




**UP GRESIK**  
Total Kapasitas: 2.239 MW



**UP PAITON**  
PLTU 800 MW



Kantor Pusat



**UP BRANTAS**  
PLTA 281 MW





**TRILAKSITO SUNU**  
Direktur SDM & Adm.  
HRD & Adm. Director

**SUSANTO PURNOMO**  
Direktur Utama  
President Director

**HARYANTO WIDODO**  
Direktur Pengembangan & Niaga  
Business Development & Commerce Director

**HUDIONO**  
Direktur Keuangan  
Finance director

**MULYO ADJI AG**  
Direktur Produksi  
production director

**K**ompetisi bisnis bidang pembangkitan sangat ketat, menyusul masuknya Proyek Percepatan 10.000 MW ke Sistem Jawa, Madura dan Bali (Jamali). Dengan bekal pengalaman selama bertahun-tahun dalam mengelola unit pembangkitan, serta konsistensi dalam melakukan continuous improvement, kami yakin PT PJB mampu mewujudkan sasaran strategis yang mencakup empat perspektif balance score-card, yaitu financial perspective, customer perspective, internal business process perspective, dan learning & growth perspective. Sehingga, PT PJB mampu mempertahankan posisi sebagai yang terdepan dalam bisnis di bidang pembangkitan di Indonesia. Semoga Allah senantiasa memberikan petunjuk dan bimbingan-Nya kepada kita semua.

*Business competition of power plant is very tight, following the acceleration project 10,000 MW to the system of Java, Madura and Bali (Jamali). By having many years experience in managing power unit and consistent to improve continuously, we believe that PT PJB is able to realize the strategic goals that included four perspectives of balance scorecard, which are; the financial perspective, customer perspective, internal business process perspective, and learning and growth perspective. Thus, PT PJB can maintain its position as the leader in power plant business in Indonesia. May Allah always gives us His hints and guidance to all of us.*

## EXECUTIVE SUMMARY

URAIAN	SATUAN	2007	2008	2009	2010	2011
<b>KWH</b>						
PRODUKSI	MWH	28.491.619	30.282.014	30.852.117	29.841.197	29.352.745
PEMAKAIAN SENDIRI	MWH	1.059.954	1.067.354	1.072.461	871.188	894.348
	%	3,72	3,52	3,48	2,92	3,05
SUSUT TRAF0	MWH	250.256	218.031	229.800	338.990	287.096
	%	0,88	0,72	0,74	1,14	0,98
PENJUALAN	MWH	27.181.410	28.996.630	29.549.856	28.631.019	28.171.301
<b>KEANDALAN</b>						
CF	%	50,22	53,37	54,38	52,60	54,42
EAF	%	86,45	87,68	90,36	89,06	92,08
SOF	%	8,81	8,38	6,76	8,77	6,18
EFOR	%	4,34	3,48	2,65	1,52	1,88
<b>EFFISIENSI</b>						
PEMAKAIAN B.BAKAR						
MINYAK	KL	2.926.707	2.984.930	2.044.055	1.534.547	1.833.562
GAS ALAM	MMBTU	76.864.852	89.710.449	128.575.549	121.602.616	115.951.578
BATUBARA	TON	3.040.419	2.986.258	3.052.438	3.072.305	3.326.160
SFC						
MINYAK	LTR/kWh	0,2544	0,2583	0,2759	0,2721	0,2513
GAS ALAM	MMBTU/kWh	0,0087	0,0085	0,0084	0,0084	0,0085
BATUBARA	KG/kWh	0,4988	0,5205	0,5260	0,5350	0,5381
NPHR	kcal/kWh	2.489	2.472	2.483	2.445	2.417
EFF THERMAL	%	34,55	34,80	34,64	35,18	35,58





# OPERASI PEMBANGKIT

## *Power Plant Operation*



**PRODUKSI** tenaga listrik tahun 2011 sebesar 29.841 GWh mengalami penurunan sebesar 0,47% dari produksi pada tahun 2010 sebesar 29.841 GWh dengan komposisi produksi pembangkit per jenis energi primer air 7,73%, batu bara 53,98%, gas alam 1,64% dan minyak 36,74%. Penurunan produksi ini disebabkan relokasi PLTG Gili Timur 1 x 21 MW ke Sumatera, dan Repowering PLTU Muara Karang unit 1, 2 dan 3.

*In 2011, the electricity production is 29,841 GWh and decreased by 0,33% comparing with production in year 2010 (30,852 GWh). The compositing of power plant production using primary energy such as water 13.31%, coal 19.24%, gas 48,54% and petroleum 18.90%. Decline in production caused by relocated PLTG Gili Timur 1 x 21 MW to Sumatera, and repowering PLTU Muara Karang 1, 2 and 3.*

**Daya Terpasang Perjenis Pembangkit**  
*Installed capacity Per Power Generating Type*

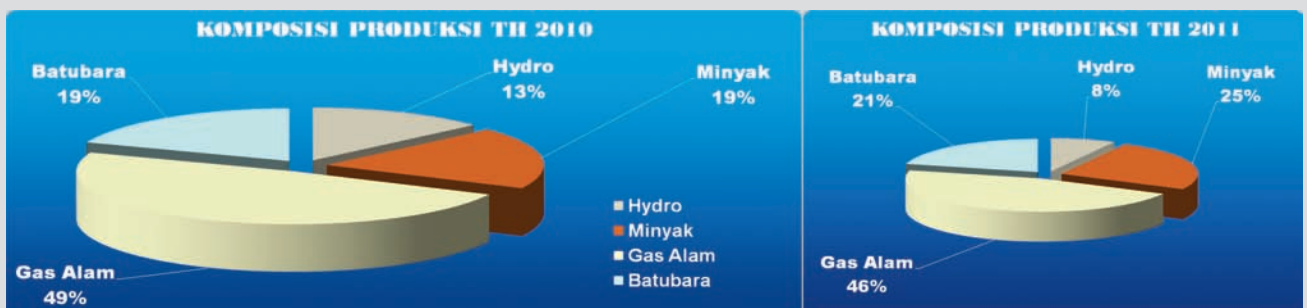
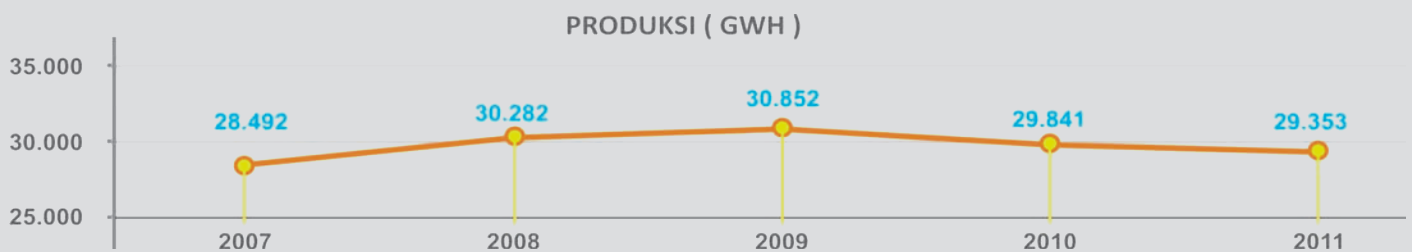
**Grafik & Tabel 1.1**  
*Graphic & table 1.1*

No.	Jenis Pembangkit <i>Power Generating Type</i>	2007		2008		2009		2010		2011	
		MW	Kontribusi % <i>Contribution</i>	MW	Kontribusi % <i>Contribution</i>	MW	Kontribusi % <i>Contribution</i>	MW	Kontribusi % <i>Contribution</i>	MW	Kontribusi % <i>Contribution</i>
<b>PJB II</b>											
1	PLTA	1.289	19,91	1.289	19,91	1.289	19,91	1.289	19,91	1.289	20,94
2	PLTU	2.100	32,42	2.100	32,42	2.100	32,42	2.100	32,42	1.800	29,23
3	PLTG	360	5,56	360	5,56	360	5,56	360	5,56	340	5,53
4	PLTGU	2.727	42,11	2.727	42,11	2.727	42,11	2.727	42,11	2.727	44,30
<b>TOTAL PJB II</b>		<b>6.477</b>	<b>100</b>	<b>6.477</b>	<b>100</b>	<b>6.477</b>	<b>100</b>	<b>6.477</b>	<b>100</b>	<b>6.157</b>	<b>100</b>
<b>SISTEM JAWA BALI</b>											
1	Indonesia Power	8.952	39,98	8.212	38,56	8.249	38,05	8.074	37,57	8.074	38,13
2	PJB	6.477	28,93	6.477	30,41	6.477	29,87	6.477	30,13	6.157	29,08
3	PLN & Non PLN	6.962	31,09	6.607	31,02	6.954	32,08	6.942	32,30	6.942	32,79
<b>TOTAL JAWA BALI</b>		<b>22.391</b>	<b>100</b>	<b>21.296</b>	<b>100</b>	<b>21.680</b>	<b>100</b>	<b>21.493</b>	<b>100</b>	<b>21.173</b>	<b>100</b>

**Produksi Per Unit Pembangkit**  
*Production Per Power Generating Unit*

**Grafik & Tabel 1.2**  
*Graphic & table 1.2*

Unit Pembangkitan <i>Power Generating Unit</i>	2007		2008		2009		2010		2011	
	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>
UP. Brantas	929	3,26	1.160	3,83	1.066	3,46	1.573	5,27	1.206	4,11
UP. Cirata	1.110	3,89	1.217	4,02	1.290	4,18	2.399	8,04	1.061	3,61
UP. Gresik	11.679	40,99	12.367	40,84	11.654	37,78	12.165	40,77	12.495	42,57
UP. Paiton	6.104	21,43	5.740	18,96	5.810	18,83	5.748	19,26	6.186	21,07
UP. M. Karang	6.060	21,27	5.991	19,78	5.423	17,58	3.038	10,18	3.380	11,51
UP. M.Tawar	2.610	9,16	3.807	12,57	5.608	18,18	4.917	16,48	5.025	17,12
<b>TOTAL</b>	<b>28.492</b>	<b>100</b>	<b>30.282</b>	<b>100</b>	<b>30.852</b>	<b>100</b>	<b>29.841</b>	<b>100</b>	<b>29.353</b>	<b>100</b>





### Produksi Per Jenis Pembangkit Production Per Power Generating Type

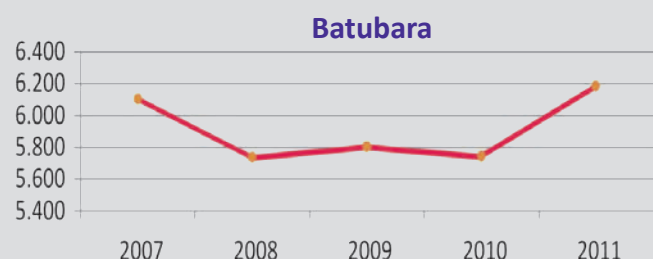
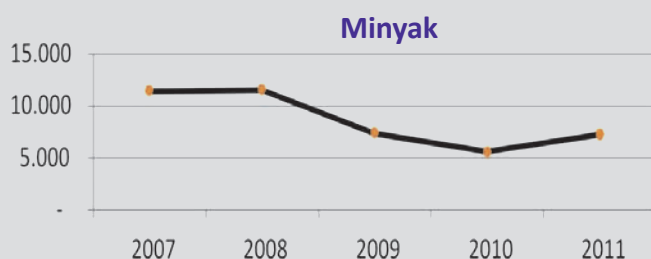
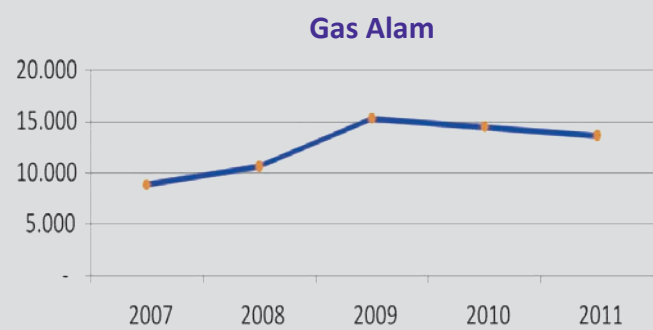
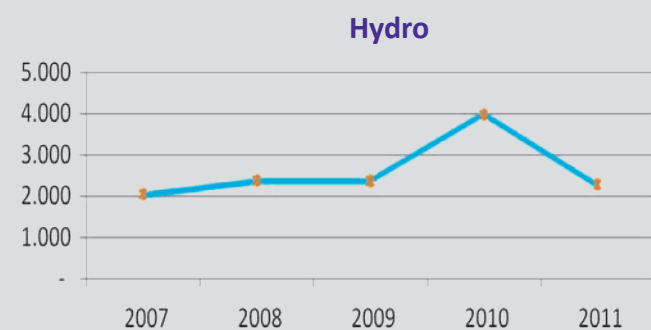
**Grafik & Tabel 1.3**  
Graphic & table 1.3

Jenis Pembangkit <i>Power Generating Type</i>	2007		2008		2009		2010		2011	
	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>
PLTA	2.039	7,16	2.376	7,85	2.357	7,64	3.972	13,31	2.268	7,73
PLTU	13.181	46,26	12.888	42,56	12.477	40,44	10.264	34,40	10.784	36,74
PLTG	185	0,65	1.021	3,37	1.212	3,93	549	1,84	484	1,65
PLTGU	13.087	45,93	13.996	46,22	14.807	47,99	15.056	50,45	15.817	53,89
<b>TOTAL</b>	<b>28.492</b>	<b>100</b>	<b>30.282</b>	<b>100</b>	<b>30.852</b>	<b>100</b>	<b>29.841</b>	<b>100</b>	<b>29.353</b>	<b>100</b>

### Produksi Per Jenis Bahan Bakar Production Per Fuel Type

**Grafik & Tabel 1.4**  
Graphic & table 1.4

Jenis Bahan Bakar <i>Fuel Type</i>	2007		2008		2009		2010		2011	
	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>
Hydro	2.039	7,16	2.376	7,85	2.357	7,64	3.972	13,31	2.268	7,73
Minyak	11.497	40,35	11.554	38,15	7.410	24,02	5.640	18,90	10.784	36,74
Gas Alam	8.852	31,07	10.615	35,05	15.283	49,54	14.486	48,54	484	1,65
Batubara	6.104	21,43	5.737	18,94	5.803	18,81	5.742	19,24	15.817	53,89
<b>TOTAL</b>	<b>28.492</b>	<b>100</b>	<b>30.282</b>	<b>100</b>	<b>30.852</b>	<b>100</b>	<b>29.841</b>	<b>100</b>	<b>29.353</b>	<b>100</b>



**Pemakaian Sendiri Per Unit Pembangkit**  
*Own-Consumption Per Power Generating Unit*

**Grafik & Tabel 1.5**  
*Graphic & table 1.5*

Unit Pembangkit <i>Power Generating Unit</i>	2007 MWh	2008 MWh	2009 MWh	2010 MWh	2011 MWh
UP. Brantas	2.550	2.712	2.603	2.908	12.652
UP. Cirata	5.553	5.268	5.363	6.711	5.085
UP. Gresik	327.539	332.142	314.486	259.205	253.216
UP. Paiton	409.898	392.976	402.815	400.002	427.123
UP. M. Karang	247.438	254.328	258.162	113.394	110.085
UP. M. Tawar	66.976	79.928	89.031	88.968	86.186
<b>TOTAL</b>	<b>1.059.954</b>	<b>1.067.354</b>	<b>1.072.461</b>	<b>871.188</b>	<b>894.348</b>

**Pemakaian Sendiri Per Jenis Pembangkit**  
*Own-Consumption Per Power Generating Type*

**Grafik & Tabel 1.6**  
*Graphic & table 1.6*

Jenis Pembangkit <i>Power Generating Type</i>	2007 MWh	2008 MWh	2009 MWh	2010 MWh	2011 MWh
PLTA	8.103	7.980	7.967	9.619	17.737
PLTU	809.298	806.685	805.287	658.287	676.892
PLTG	3.742	4.697	4.541	2.134	4.037
PLTGU	238.811	247.992	254.666	201.149	195.681
<b>TOTAL</b>	<b>1.059.954</b>	<b>1.067.354</b>	<b>1.072.461</b>	<b>871.188</b>	<b>894.348</b>

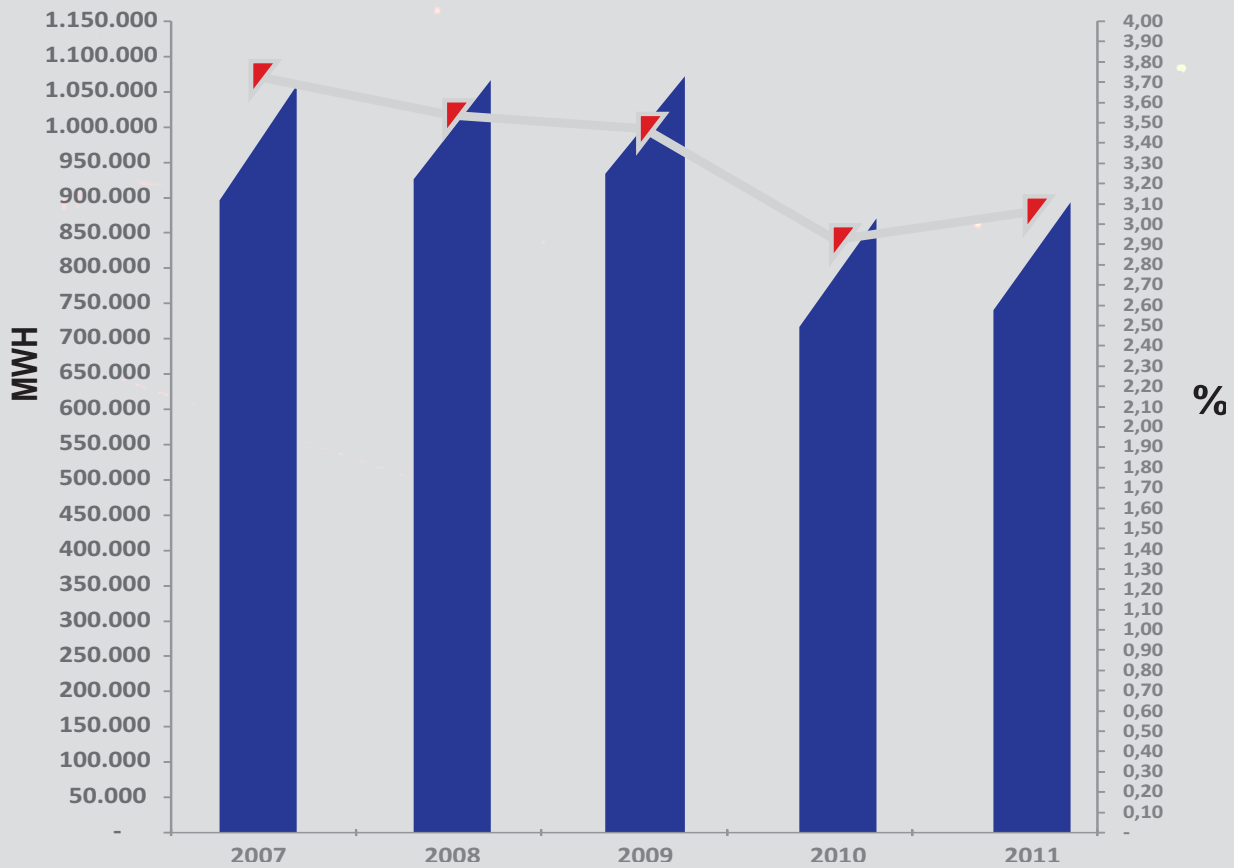
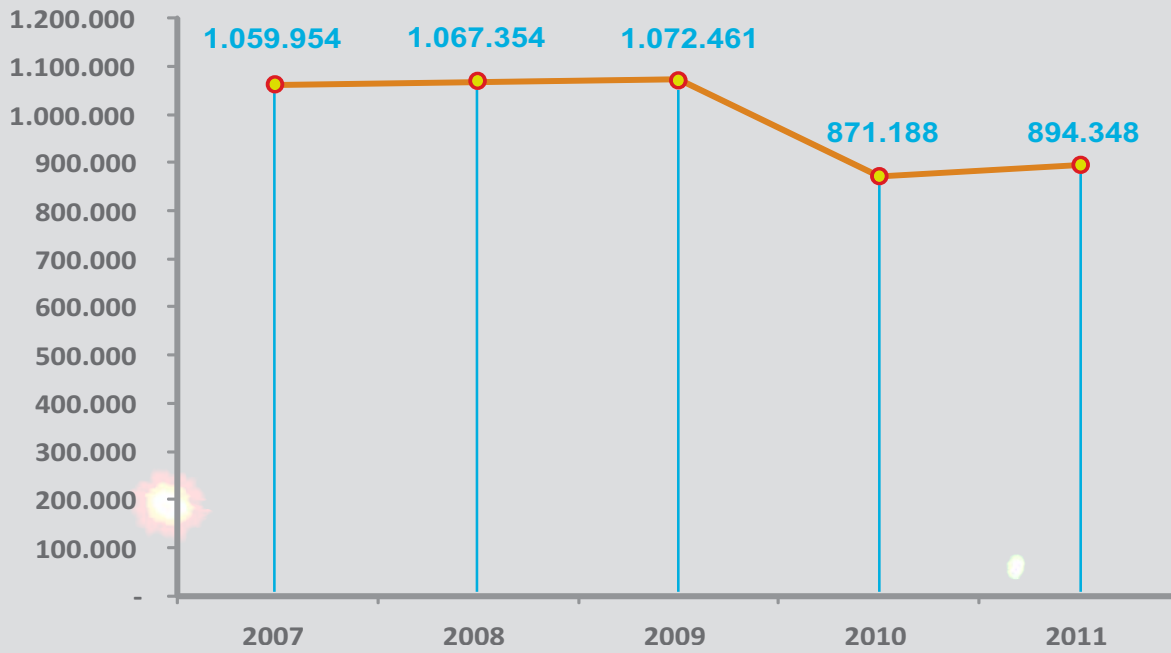
**Pemakaian Sendiri Per Jenis Bahan Bakar**  
*Own-Consumption Per Fuel Type*

**Grafik & Tabel 1.7**  
*Graphic & table 1.7*

Jenis Bahan Bakar <i>Fuel Type</i>	2007 MWh	2008 MWh	2009 MWh	2010 MWh	2011 MWh
Hydro	8.103	7.980	7.967	9.619	17.737
BBM	459.032	481.417	395.438	254.554	259.151
BBG	182.921	184.981	266.242	207.014	190.337
Batu Bara	409.898	392.976	402.815	400.002	427.123
<b>TOTAL</b>	<b>1.059.954</b>	<b>1.067.354</b>	<b>1.072.461</b>	<b>871.188</b>	<b>894.348</b>



### Pemakaian Sendiri (MWh)



**Susut Trafo Per Unit Pembangkit**

*Voltage Regulator Losses Per Power Generating Type*

**Grafik & Tabel 1.8**

*Graphic & table 1.8*

Unit Pembangkitan <i>Power Generating Unit</i>	2007 MWh	2008 MWh	2009 MWh	2010 MWh	2011 MWh
UP. Brantas	17.526	19.685	31.854	28.662	30.494
UP. Cirata	24.069	28.932	43.363	69.706	22.550
UP. Gresik	49.470	52.407	50.168	118.613	119.844
UP. Paiton	40.684	40.346	32.166	44.255	33.424
UP. M. Karang	96.181	50.017	42.573	48.235	49.339
UP. M. Tawar	22.325	26.643	29.677	29.519	31.445
<b>TOTAL</b>	<b>250.256</b>	<b>218.031</b>	<b>229.800</b>	<b>338.990</b>	<b>287.096</b>

**Susut Trafo Per Jenis Bahan Bakar**

*Voltage Regulator Losses Per Fuel Type*

**Grafik & Tabel 1.9**

*Graphic & table 1.9*

Jenis Pembangkit <i>Power Generating Type</i>	2007 MWh	2008 MWh	2009 MWh	2010 MWh	2011 MWh
Hydro	41.596	48.618	75.216	98.368	53.044
PLTU	53.403	58.330	45.218	55.876	52.939
PLTG	1.431	1.614	1.904	1.977	3.769
PLTGU	153.826	109.469	107.462	182.769	177.343
<b>TOTAL</b>	<b>250.256</b>	<b>218.031</b>	<b>229.800</b>	<b>338.990</b>	<b>287.096</b>

**Susut Trafo Per Jenis Bahan Bakar**

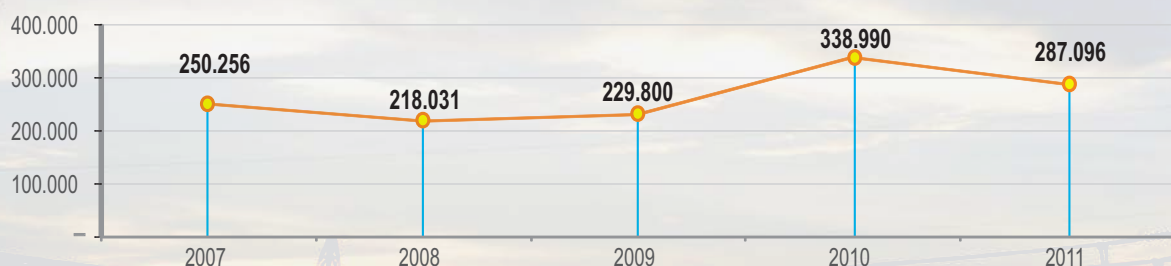
*Voltage Regulator Losses Per Fuel Type*

**Grafik & Tabel 1.10**

*Graphic & table 1.10*

Jenis Bahan Bakar <i>Fuel Type</i>	2007 MWh	2008 MWh	2009 MWh	2010 MWh	2011 MWh
Hydro	41.596	48.618	75.216	98.368	53.044
BBM	50.353	57.304	27.941	41.975	64.720
BBG	117.623	71.764	94.476	154.392	135.908
Batu Bara	40.684	40.346	32.166	44.255	33.424
<b>TOTAL</b>	<b>250.256</b>	<b>218.031</b>	<b>229.800</b>	<b>338.990</b>	<b>287.096</b>

**SUSUT TRAF0 (MWh)**





### Penjualan Per Unit Pembangkit

Sales Per Power Generating Unit

### Grafik & Tabel 1.11

Graphic & table 1.11

Unit Pembangkitan <i>Power Generating Unit</i>	2007		2008		2009		2010		2011	
	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>
UP. Brantas	909	3,34	1.137	3,92	1.032	3,49	1.541	5,38	1.163	4,13
UP. Cirata	1.080	3,97	1.182	4,08	1.242	4,20	2.323	8,11	1.033	3,67
UP. Gresik	11.302	41,58	11.983	41,32	11.290	38,21	11.787	41,17	12.122	43,03
UP. Paiton	5.654	20,80	5.307	18,30	5.375	18,19	5.304	18,53	5.725	20,32
UP. M. Karang	5.716	21,03	5.687	19,61	5.122	17,33	2.876	10,05	3.220	11,43
UP. M. Tawar	2.521	9,27	3.700	12,76	5.489	18,58	4.799	16,76	4.907	17,42
<b>TOTAL PJB</b>	<b>27.181</b>	<b>100</b>	<b>28.997</b>	<b>100</b>	<b>29.550</b>	<b>100</b>	<b>28.631</b>	<b>100</b>	<b>28.171</b>	<b>100</b>

### Penjualan Per Jenis Pembangkit

Sales Per Power Generating Type

### Grafik & Tabel 1.12

Graphic & table 1.12

Jenis Pembangkit <i>Power Generating Type</i>	2007		2008		2009		2010		2011	
	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>
PLTA	1.989	7,32	2.320	8,00	2.273	7,69	3.864	13,50	2.197	7,80
PLTU	12.318	45,32	12.023	41,46	11.627	39,35	9.550	33,35	10.054	35,69
PLTG	180	0,66	929	3,20	1.205	4,08	545	1,90	476	1,69
PLTGU	12.695	46,70	13.725	47,33	14.445	48,88	14.672	51,24	15.444	54,82
<b>TOTAL PJB</b>	<b>27.181</b>	<b>100</b>	<b>28.997</b>	<b>100</b>	<b>29.550</b>	<b>100</b>	<b>28.631</b>	<b>100</b>	<b>28.171</b>	<b>100</b>

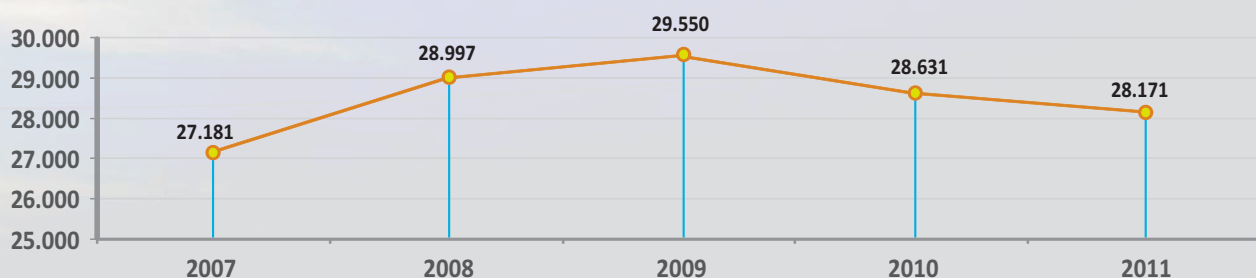
### Penjualan Per Jenis Bahan Bakar

Sales Per Fuel Type

### Grafik & Tabel 1.13

Graphic & table 1.13

Jenis Bahan Bakar <i>Fuel Type</i>	2007		2008		2009		2010		2011	
	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>	GWh	Kontribusi % <i>Contribution</i>
Hydro	1.989	7,85	2.320	8,00	2.273	7,69	3.864	13,50	2.197	7,80
Minyak	10.988	39,46	11.015	37,99	6.986	23,64	5.344	18,66	6.971	24,75
Gas Alam	8.551	33,60	10.358	35,72	14.922	50,50	14.125	49,33	13.282	47,15
Batubara	5.654	19,09	5.303	18,29	5.368	18,17	5.298	18,50	5.721	20,31
<b>TOTAL</b>	<b>27.181</b>	<b>100</b>	<b>28.997</b>	<b>100</b>	<b>29.550</b>	<b>100</b>	<b>28.631</b>	<b>100</b>	<b>28.171</b>	<b>100</b>



Data Operasi Tahun 2007-2011  
Operating Data 2007-2011

Grafik & Tabel 1.14  
Graphic & table 1.14

No.	Jenis Pembangkit Power Generating Type	2 0 0 7					2 0 0 8					2009						
		Daya Terpasang Installed capacity	CF	Produksi Production	PS- Strfo OS-VRL	Penjualan Sales	Daya Terpasang Installed capacity	CF	Produksi Production	PS- Strfo OS-VRL	Penjualan Sales	Daya Terpasang Installed capacity	CF	Produksi Production	PS- Strfo OS-VRL	Penjualan Sales		
		(MW)	%	(Gwh)	(Gwh)	(Gwh)	(MW)	%	(Gwh)	(Gwh)	(Gwh)	(MW)	%	(Gwh)	(Gwh)	(Gwh)		
	<b>PLTA</b>	<b>1.289</b>	<b>18,05</b>	<b>2.039</b>	<b>50</b>	<b>1.989</b>		<b>1.289</b>	<b>20,99</b>	<b>2.376</b>	<b>57</b>	<b>2.320</b>		<b>1.289</b>	<b>20,86</b>	<b>2.357</b>	<b>83</b>	<b>2.273</b>
1	Brantas	281		929	20	909		281		1.160	22	1.137		281		1.066	34	1.032
2	Cirata	1.008		1.110	30	1.080		1.008		1.217	34	1.182		1.008		1.290	49	1.242
	<b>PLTU</b>	<b>2.100</b>	<b>71,65</b>	<b>13.181</b>	<b>863</b>	<b>12.318</b>		<b>2.100</b>	<b>69,87</b>	<b>12.888</b>	<b>865</b>	<b>12.023</b>		<b>2.100</b>	<b>67,82</b>	<b>12.477</b>	<b>851</b>	<b>11.627</b>
1	PLTU Grk MFO	200		3.307	182	3.125		200		3.263	181	3.082		200		2.976	170	2.806
2	PLTU Grk NG	400		508	28	480		400		595	33	561		400		571	33	539
3	Paiton	800		6.104	451	5.654		800		5.740	433	5.307		800		5.810	435	5.375
4	PLTU Mkr MFO	300		2.768	170	2.598		300		3.152	208	2.944		300		3.094	211	2.883
5	PLTU Mkr NG	400		493	32	461		400		139	9	129		400		26	2	24
	<b>PLTG</b>	<b>360</b>	<b>36,16</b>	<b>1.140</b>	<b>5</b>	<b>180</b>		<b>360</b>	<b>9,42</b>	<b>298</b>	<b>6</b>	<b>292</b>		<b>360</b>	<b>38,42</b>	<b>1.212</b>	<b>6</b>	<b>1.205</b>
1	Gresik HSD	80		15	1	14		80		26	1	25		80		26	1	25
2	Gresik NG	0		0	0	0		0		0	0	0		0		0	0	0
3	M.Tawar	280		1.125	4	165		280		272	6	266		280		1.185	6	1.180
	<b>PLTGU</b>	<b>2.727</b>	<b>63,35</b>	<b>15.056</b>	<b>393</b>	<b>12.695</b>		<b>2.727</b>	<b>61,44</b>	<b>14.720</b>	<b>357</b>	<b>14.362</b>		<b>2.727</b>	<b>61,98</b>	<b>14.807</b>	<b>362</b>	<b>14.445</b>
1	Gresik GT HSD	0		727	68	2.729		0		2.260	40	2.219		0		727	6	721
2	Gresik GT NG	1.012		7.354	22	3.213		1.012		3.714	34	3.680		1.012		4.790	37	4.753
3	Gresik ST NG	567		1.816	76	1.740		567		2.510	96	2.414		567		2.564	118	2.446
4	Mkr GT HSD	0		0	0	0		0		399	5	394		0		512	20	492
5	Mkr GT NG	324		1.966	83	1.883		324		1.582	32	1.550		324		1.019	39	980
6	Mkr ST NG	185		832	59	773		185		720	49	670		185		773	30	743
7	M Tawar	640		2.440	85	2.356		640		3.535	101	3.434		640		4.422	113	4.309
	<b>Total PJB II</b>	<b>6.476</b>	<b>55,51</b>	<b>31.495</b>	<b>1.310</b>	<b>27.181</b>		<b>6.476</b>	<b>53,23</b>	<b>30.282</b>	<b>1.285</b>	<b>28.997</b>		<b>6.477</b>	<b>54,38</b>	<b>30.852</b>	<b>1.302</b>	<b>29.550</b>

No.	Jenis Pembangkit Power Generating Type	2 0 1 0					2 0 1 1					
		Daya Terps Installed capacity	CF %	Produksi Production	PS -Strfo OS-VRL	Penjualan Sales	Daya Terps Installed capacity	CF %	Produksi Production	PS -Strfo OS-VRL	Penjualan Sales	
		(MW)		(Gwh)	(Gwh)	(Gwh)	(MW)		(Gwh)	(Gwh)	(Gwh)	
	<b>PLTA</b>	<b>1.289</b>	<b>35,17</b>	<b>3.972</b>	<b>108</b>	<b>3.864</b>		<b>1.289</b>	<b>20,08</b>	<b>2.268</b>	<b>71</b>	<b>2.197</b>
1	Brantas	281		1.573	32	1.541		281		1.206	43	1.163
2	Cirata	1.008		2.399	76	2.323		1.008		1.061	28	1.033
	<b>PLTU</b>	<b>2.100</b>	<b>55,79</b>	<b>10.264</b>	<b>714</b>	<b>9.550</b>		<b>1.800</b>	<b>68,39</b>	<b>10.784</b>	<b>730</b>	<b>10.054</b>
1	PLTU Grk MFO	200		2.979	172	2.806		200		2.758	159	2.599
2	PLTU Grk NG	400		521	30	491		400		638	36	602
3	Paiton	800		5.748	444	5.304		800		6.186	461	5.725
4	PLTU Mkr MFO	300		883	59	824	*)	0		1.009	62	947
5	PLTU Mkr NG	400		133	9	124		400		194	12	182
	<b>PLTG</b>	<b>360</b>	<b>17,41</b>	<b>549</b>	<b>4</b>	<b>545</b>		<b>340</b>	<b>16,24</b>	<b>484</b>	<b>8</b>	<b>476</b>
1	Gresik HSD	80		16	1	15	**)	60		23	1	23
2	Gresik NG	0		0	0	0		0		0	0	0
3	M.Tawar	280		533	4	530		280		461	7	454
	<b>PLTGU</b>	<b>2.727</b>	<b>63,02</b>	<b>15.056</b>	<b>384</b>	<b>14.672</b>		<b>2.727</b>	<b>66,20</b>	<b>15.817</b>	<b>373</b>	<b>15.444</b>
1	Gresik GT HSD	0		463	9	453		0		1.271	25	1.247
2	Gresik GT NG	1.012		5.342	34	5.308		1.012		5.121	100	5.021
3	Gresik ST NG	567		2.845	132	2.713		567		2.683	52	2.631
4	Mkr GT HSD	0		1.123	52	1.071		0		1.713	67	1.646
5	Mkr GT NG	324		397	12	385		324		339	13	325
6	Mkr ST NG	185		502	30	472		185		126	5	121
7	M Tawar	640		4.384	115	4.269		640		4.564	110	4.454
	<b>Total PJB II</b>	<b>6.476</b>	<b>52,60</b>	<b>29.841</b>	<b>1.210</b>	<b>28.631</b>		<b>6.157</b>	<b>54,42</b>	<b>29.353</b>	<b>1.181</b>	<b>28.171</b>

\*) Repowering PLTU M.Karang unit 1,2,3 | \*\*) Relokasi PLTG Gilitimur unit 1



## Faktor Operasional Keandalan Per Jenis Pembangkit

Operational Reliability Factor Per Power Generating Type

## Grafik & Tabel 1.15

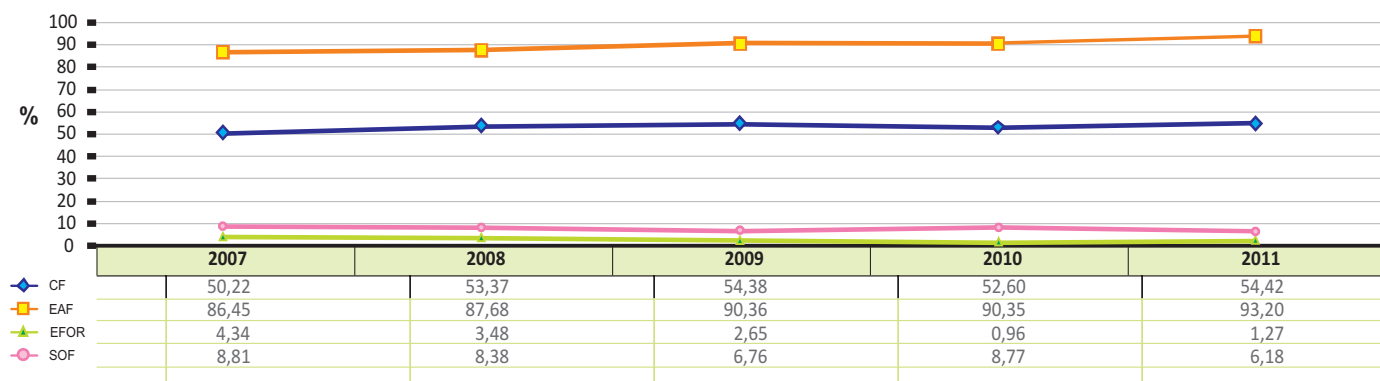
Graphic & table 1.15

Jenis Pembangkit Power Generating Type	CF (%)					EAF (%)				
	2007	2008	2009	2010	2011	2007	2008	2009	2010	2011
PLTA	18,05	21,04	20,86	35,17	20,08	95,95	94,62	97,34	96,67	97,42
PLTU	71,65	70,06	67,82	55,79	68,39	81,60	82,99	86,00	83,85	95,81
PLTG	5,86	32,38	38,42	17,41	16,24	81,90	88,53	85,60	88,50	62,82
PLTGU	54,78	58,58	61,97	63,02	66,20	86,45	87,53	90,71	91,43	95,96
<b>PJB II</b>	<b>50,22</b>	<b>53,37</b>	<b>54,38</b>	<b>52,60</b>	<b>54,42</b>	<b>86,45</b>	<b>87,68</b>	<b>90,36</b>	<b>90,35</b>	<b>93,20</b>

Jenis Pembangkit Power Generating Type	EFOR (%)					SOF (%)				
	2007	2008	2009	2010	2011	2007	2008	2009	2010	2011
PLTA	0,24	0,77	0,02	0,06	0,54	3,98	5,15	2,65	3,55	2,34
PLTU	7,55	4,44	5,07	1,63	0,56	10,42	11,29	7,67	14,35	5,76
PLTG	9,55	13,47	2,00	0,94	3,03	17,09	9,18	13,42	11,67	31,96
PLTGU	2,23	2,93	1,15	1,13	0,95	8,65	7,73	7,27	7,28	4,98
<b>PJB II</b>	<b>4,34</b>	<b>3,48</b>	<b>2,65</b>	<b>0,96</b>	<b>1,27</b>	<b>8,81</b>	<b>8,38</b>	<b>6,76</b>	<b>8,77</b>	<b>6,18</b>

## Faktor Operasi (%)

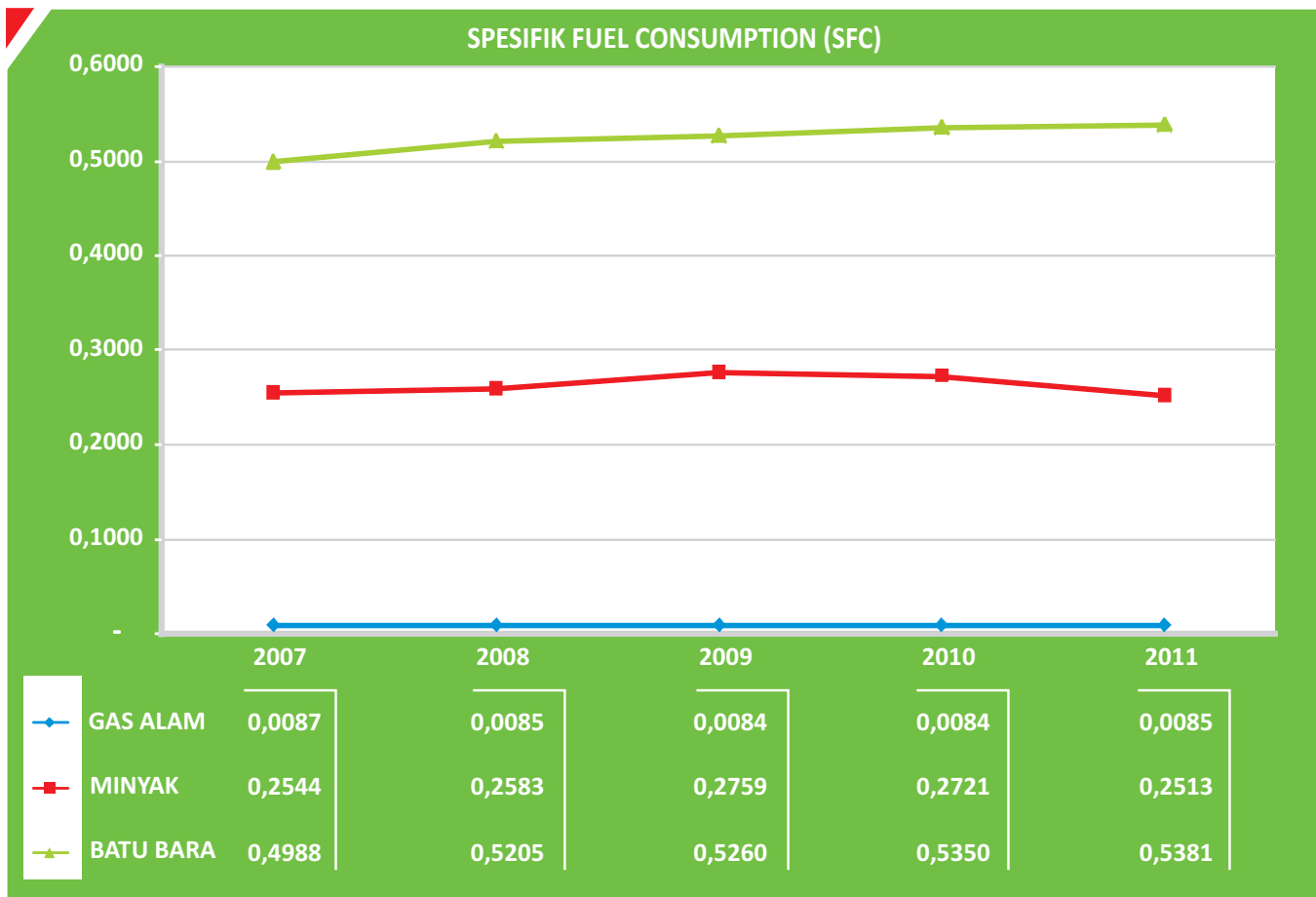
Operation Factor



**SFC PER JENIS BAHAN BAKAR**  
SFC Per Fuel Type

**Grafik & Tabel 1.14**  
Graphic & table 1.14

Jenis Bahan Bakar Fuel Type	Satuan	2007	2008	2009	2010	2011
<b>GAS ALAM</b>	MSCF/kWh	0,0087	0,0085	0,0084	0,0084	0,0085
<b>MINYAK</b>	Ltr/Kwh	0,2544	0,2583	0,2759	0,2721	0,2513
<b>BATU BARA</b>	Kg/kWh	0,4988	0,5205	0,5260	0,5350	0,5381

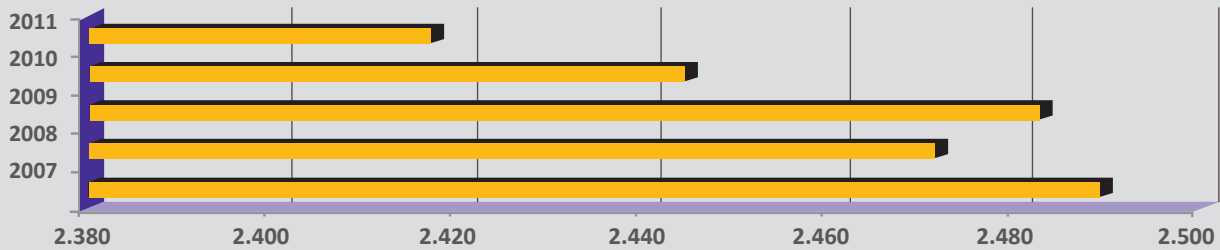


## NET PLANT HEAT RATE PER UNIT PEMBANGKIT

Net Plant Heat Rate Per Power Generating Type

Unit Pembangkit Power Generating Unit	Satuan	2007	2008	2009	2010	2011
GRESIK	Kcal/kWh	2.316	2.277	2.279	2.274	2.271
MUARA KARANG	Kcal/kWh	2.744	2.778	2.800	2.599	2.524
MUARA TAWAR	Kcal/kWh	2.206	2.197	2.252	2.324	2.241
PAITON	Kcal/kWh	2.703	2.774	2.844	2.848	2.818
<b>TOTAL</b>		<b>2.489</b>	<b>2.472</b>	<b>2.483</b>	<b>2.445</b>	<b>2.417</b>

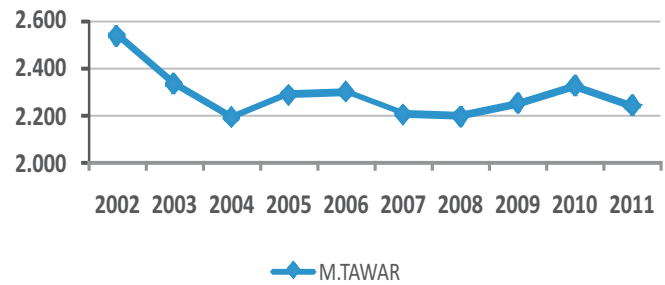
### NET PLAN HEAT RATE (NPHR)



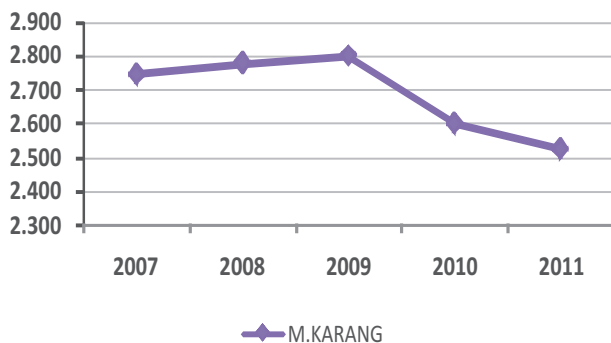
#### GRESIK



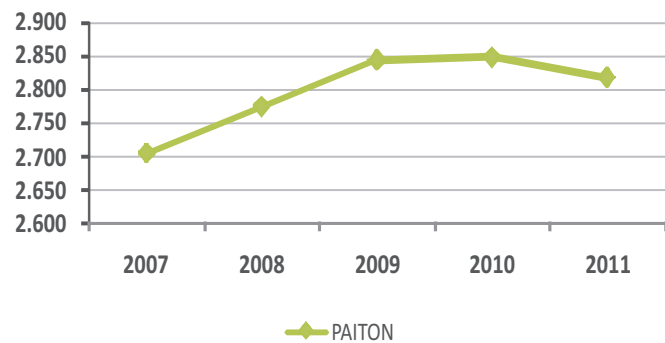
#### M.TAWAR



#### M.KARANG



#### PAITON



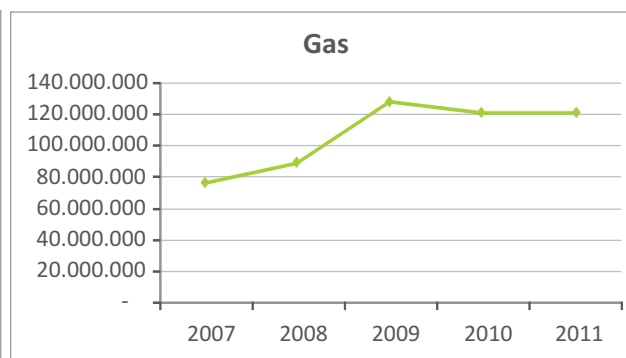
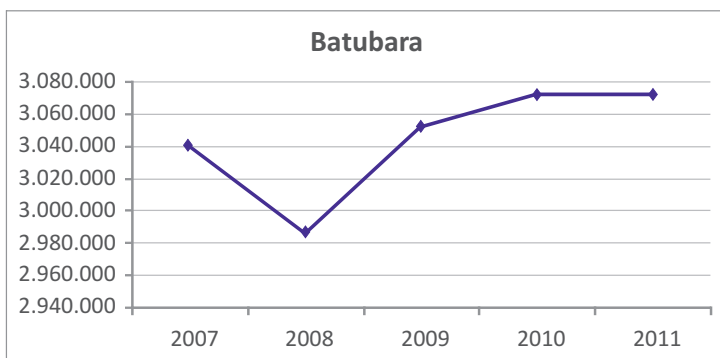
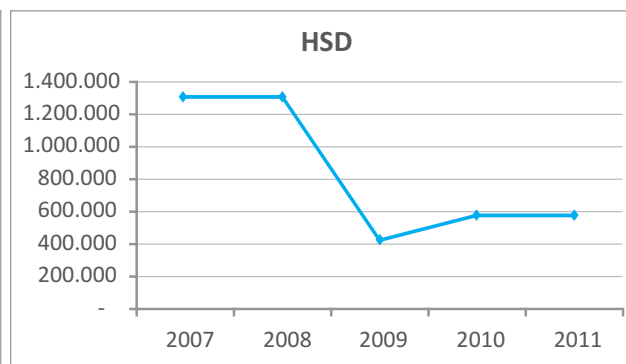
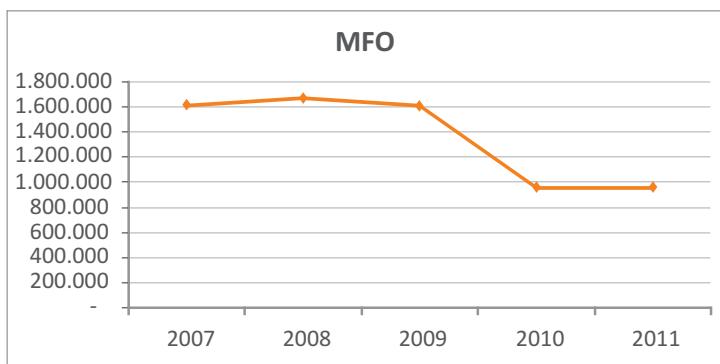
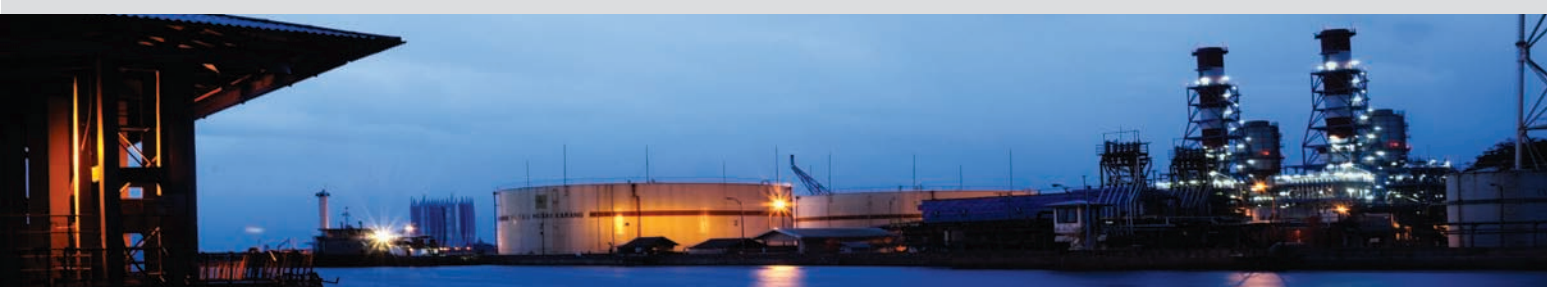


**PEMAKAIAN BAHAN BAKAR**

*Fuel Consumption*

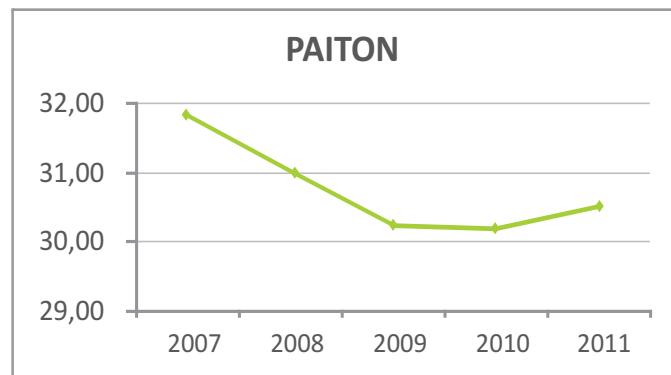
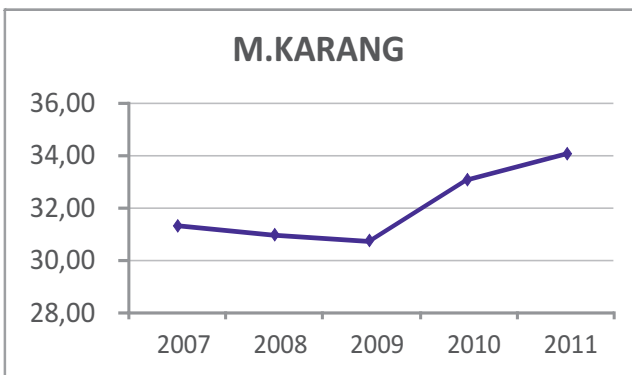
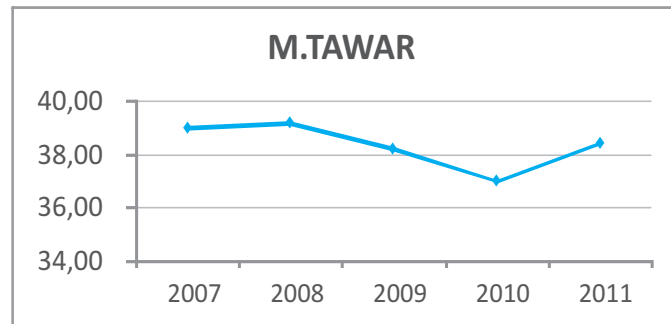
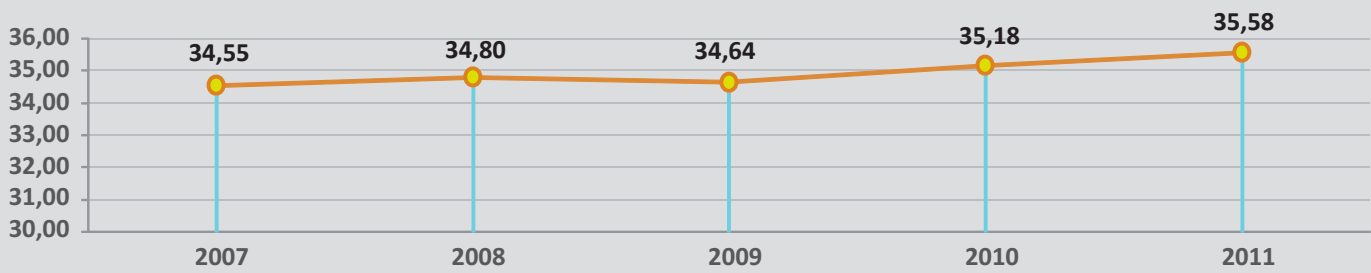
	2007		2008		2009		2010		2011	
	Produksi MWh	Pemk. B.Bkr (Ton,kL, MMBTU)	Produksi MWh	Pemk. B.Bkr (Ton,kL, MMBTU)	Produksi MWh	Pemk. B.Bkr (Ton,kL, MMBTU)	Produksi MWh	Pemk. B.Bkr (Ton,kL, MMBTU)	Produksi MWh	Pemk. B.Bkr (Ton,kL, MMBTU)
Batubara	6.095.275	3.040.419	5.736.766	2.986.258	5.802.766	3.052.438	5.742.308	3.072.305	6.181.471	3.326.160
BBM	11.506.047	2.926.707	11.553.913	2.984.930	7.409.603	2.044.055	5.640.148	1.534.547	7.295.257	1.833.562
- MFO *)	6.074.807	1.614.879	6.414.555	1.676.869	6.069.820	1.619.853	3.861.368	956.398	3.766.459	913.271
- HSD	5.431.240	1.311.828	5.139.358	1.308.061	1.339.783	424.201	1.778.781	578.148	3.528.798	920.292
GAS	8.851.702	76.864.852	10.615.001	89.710.449	15.283.090	128.575.549	14.486.362	121.602.616	13.608.500	115.951.578
- ARBNI+KDCO	5.559.868	46.489.747	6.818.792	56.994.987	7.925.367	66.276.916	8.707.731	72.999.284	8.442.289	71.134.249
- ARII	3.291.835	30.375.105	3.796.209	32.715.462	7.357.723	62.298.633	5.778.631	48.603.333	5.166.211	44.817.329
<b>Total</b>	<b>26.453.025</b>		<b>27.905.680</b>		<b>28.495.459</b>		<b>25.868.819</b>		<b>27.085.227</b>	

\*) Termasuk pemakaian IDO



**EFISIENSI THERMAL PER UNIT PEMBANGKIT**  
*Thermal Efficiency per Power Generating Unit*

Jenis Bahan Bakar <i>Fuel Type</i>	Satuan	2007	2008	2009	2010	2011
GRESIK	%	37,13	37,77	37,73	37,82	37,87
MUARA KARANG	%	31,34	30,96	30,71	33,09	34,07
MUARA TAWAR	%	38,98	39,14	38,20	37,00	38,38
PAITON	%	31,81	31,00	30,24	30,19	30,52
<b>TOTAL</b>		<b>34,55</b>	<b>34,80</b>	<b>34,64</b>	<b>35,18</b>	<b>35,58</b>







# SUMBER DAYA MANUSIA

## *Human Resources*



**JUMLAH** pegawai tahun 2011 sebanyak 2.407 orang dengan komposisi pendidikan terbanyak adalah SLTA 1.121 orang dan sarjana sebanyak 920 orang.

*In 2011, PJB is supported by 2,407 employees, the most graduated is from Senior High School 1,121 employees, and bachelor Degree is around 920 employees.*

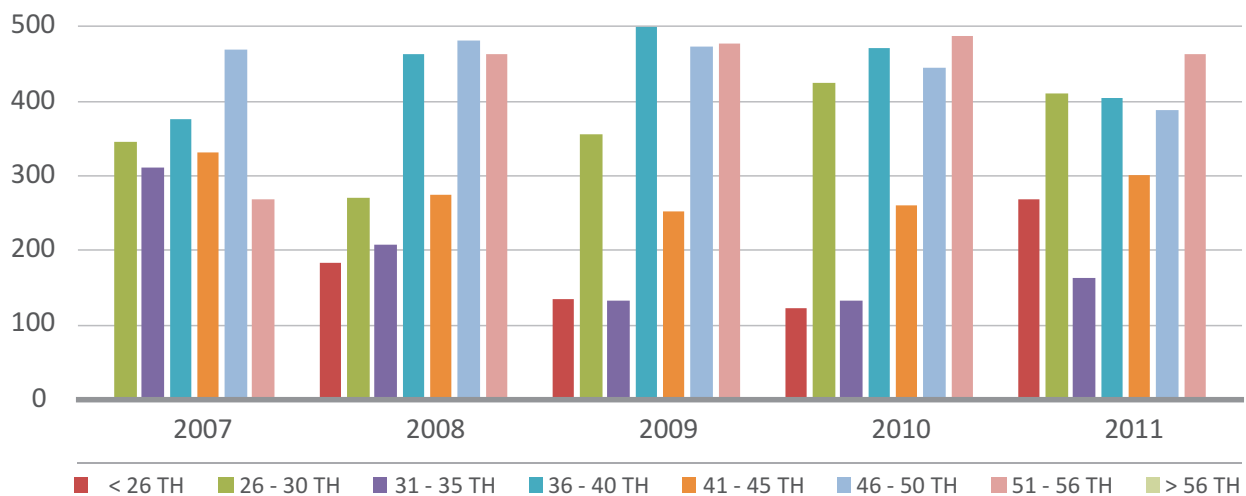
JUMLAH PEGAWAI BERDASARKAN USIA

Total Employee Based on Age

Grafik & Tabel 2.1

Graphic & table 2.1

USIA Age	2007	2008	2009	2010	2011
< 26 TH	0	184	136	124	270
26 - 30 TH	346	271	357	425	411
31 - 35 TH	312	208	133	134	164
36 - 40 TH	378	464	500	472	405
41 - 45 TH	333	275	254	261	302
46 - 50 TH	470	483	475	445	390
51 - 56 TH	270	464	478	488	465
> 56 TH	0	0	0	0	0
<b>JUMLAH</b>	<b>2.109</b>	<b>2.349</b>	<b>2.333</b>	<b>2.349</b>	<b>2.407</b>





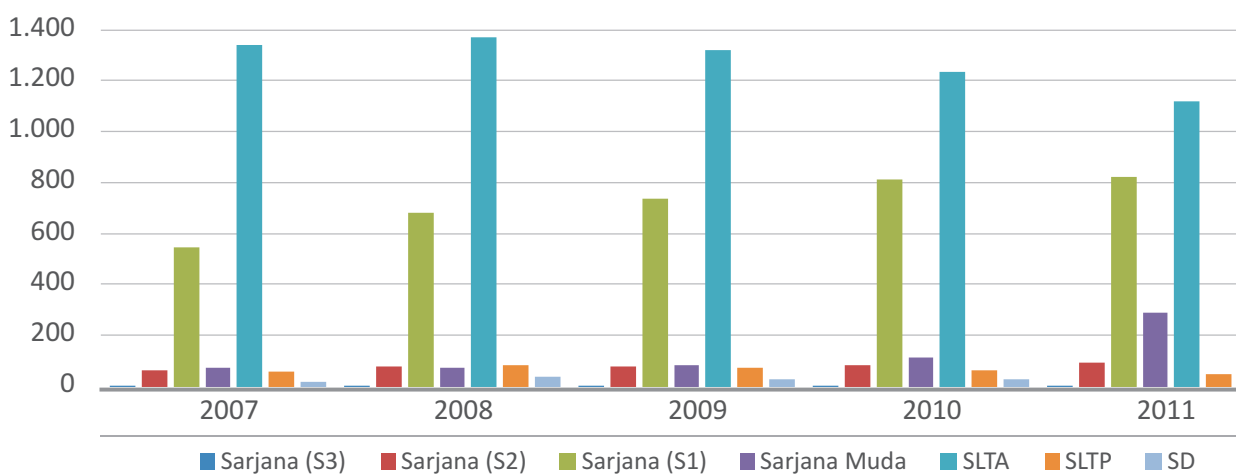
## JUMLAH PEGAWAI BERDASARKAN PENDIDIKAN

Total Employee on Education Level

## Grafik & Tabel 2.2

Graphic & table 2.2

Pendidikan Education	2007	2008	2009	2010	2011
Sarjana (S3)	1	1	1	1	1
Sarjana (S2)	64	83	82	85	95
Sarjana (S1)	548	686	738	815	824
Sarjana Muda	74	75	85	116	292
SLTA	1.343	1.374	1.321	1.237	1.121
SLTP	58	88	75	65	52
SD	21	42	31	30	22
<b>Jumlah</b>	<b>2.109</b>	<b>2.349</b>	<b>2.333</b>	<b>2.349</b>	<b>2.407</b>





JUMLAH PEGAWAI BERDASARKAN UNIT SATUAN

Total Employee on Based on Units

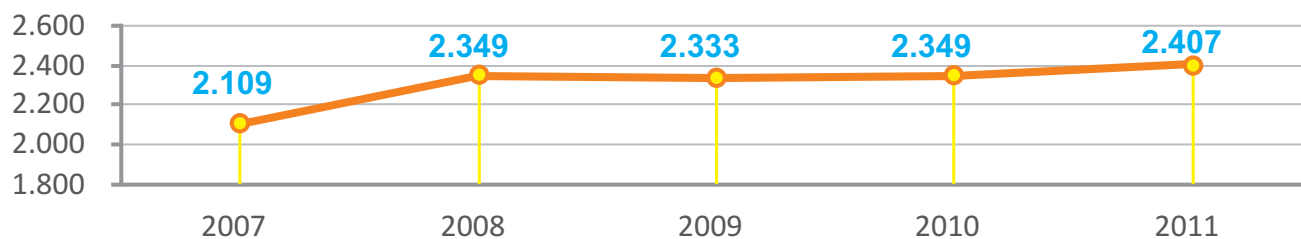
Grafik & Tabel 2.3

Graphic & table 2.3

NO	UNIT SATUAN	2007	2008	2009	2010	2011
1	KANTOR PUSAT	310	320	337	343	342
2	UP GRESIK	389	391	400	387	377
3	UP MUARA KARANG	237	261	262	271	313
4	UP PAITON	267	276	276	243	246
5	UP CIRATA	175	188	191	192	181
6	UP BRANTAS	256	268	257	249	233
7	UP MUARA TAWAR	152	160	169	180	216
8	UPHAR WIL TIMUR	-	-	-	172	165
9	UPHAR WIL BARAT	-	-	-	136	144
10	BPWC	11	10	10	10	10
11	PT PJBS	18	29	33	22	28
12	UBJ INDRAMAYU	-	-	-	30	31
13	UBJ PAITON	-	-	-	29	28
14	UBJ REMBANG	-	-	-	30	31
15	UBJ PACITAN	-	-	-	-	26
16	KARYAWAN MPP	-	154	101	55	36
17	UB PENGEMB. USAHA	8	8	4	-	-
18	UB PEMELIHARAAN	278	275	290	-	-
19	UBP TALANG DUKU	3	3	3	-	-
20	UBP KENDARI	5	6	-	-	-
<b>JUMLAH :</b>		<b>2.109</b>	<b>2.349</b>	<b>2.333</b>	<b>2.349</b>	<b>2.407</b>

JUMLAH PEGAWAI

Total Employee





Pendapatan operasi tahun 2011 Rp. 25.037,591 miliar, biaya operasi Rp. 23.735,469 miliar, sehingga diperoleh laba bersih tahun 2011 sebesar Rp. 1.302,122 miliar.

*In 2011, operation income Rp. 25,037.591 billion, operation costs Rp. 23,735.469 billion, so that in 2011, PJB obtain the nett profit Rp. 1,302.122 billion.*

**NERACA (Dalam Jutaan Rp)**  
**Balance Sheet**

Rincian	TAHUN 2007 AUDITED	TAHUN 2008 AUDITED	TAHUN 2009 AUDITED	TAHUN 2010 AUDITED	TAHUN 2011 AUDITED
<b>A S E T</b>					
<b>Aset Tidak Lancar</b>					
Aset Tetap Operasi (Bruto)	37.001.059	36.873.470	36.717.649	35.691.007	35.681.462
Akumulasi Penyusutan	(12.196.104)	(13.715.166)	(14.978.241)	(15.358.501)	(16.763.844)
Aset Tetap Operasi (Netto)	24.804.956	23.158.305	21.739.408	20.332.506	18.917.618
Pekerjaan Dalam Pelaksanaan	29.971	1.722	115.619	2.561	52.749
Aset Lainnya	740.050	1.731.491	1.494.578	432.736	524.480
Investasi pada entitas asosiasi	545.178	323.587	587.432	726.119	933.221
<b>Jumlah Aset Tidak Lancar</b>	<b>26.120.154</b>	<b>25.215.104</b>	<b>23.937.037</b>	<b>21.493.922</b>	<b>20.428.068</b>
<b>Aset Lancar</b>					
Kas dan Setara Kas	840.512	843.908	1.497.198	745.844	869.404
Investasi Sementara	1.972.801	1.226.060	1.125.620	110.000	235.000
Piutang Usaha	11.699.625	10.535.449	10.207.506	15.187.144	16.956.784
BBM & Material Pemeliharaan	1.302.824	2.025.670	2.164.620	1.699.810	2.665.164
Aset Lancar Lainnya	75.809	357.945	161.232	157.673	164.214
<b>Jumlah Aset Lancar</b>	<b>15.891.571</b>	<b>14.989.032</b>	<b>15.156.176</b>	<b>17.900.471</b>	<b>20.890.566</b>
<b>JUMLAH ASET</b>	<b>42.011.725</b>	<b>40.204.136</b>	<b>39.093.213</b>	<b>39.394.393</b>	<b>41.318.634</b>
<b>E K U I T A S   D A N   K E W A J I B A N</b>					
<b>Modal</b>					
Modal Saham Ditempatkan dan Disetor	3.000.000	3.000.000	3.000.000	3.000.000	3.000.000
Tambahan Modal Disetor	2.870.999	2.870.999	2.870.998	2.870.998	2.870.998
Selisih Penilaian Kembali Aset Tetap	26.408.107	26.408.107	27.668.406	27.784.842	27.989.883
Saldo Laba (Tidak ditentukan Pengg)	2.800.856	2.407.862	1.429.875	1.429.875	1.429.875
Ekuitas yg Tdk dapt diatribusikan kepada pemilik perusahaan	35.079.961	34.686.967	34.969.279	35.085.715	35.290.756
Kepentingan non pengendali	742	53.324	53.265	1.855	2.400
<b>Jumlah Ekuitas</b>	<b>35.080.703</b>	<b>34.740.292</b>	<b>35.022.544</b>	<b>35.087.570</b>	<b>35.293.156</b>
<b>Kewajiban Jangka Panjang</b>					
Kewajiban Pajak Tangguhan	1.479.867	1.264.844	1.258.367	1.381.948	1.361.254
Pinjaman Jangka Panjang	274.295	115.469	0	0	0
Kewajiban Jangka Panjang Pajak Final Revaluasi	0	0	0	0	0
Kewajiban Manfaat Pekerja	425.083	529.998	577.482	639.393	738.273
Kewajiban Jangka Panjang Lainnya	10.500	0	0	0	0
<b>Jumlah Kewajiban Jangka Panjang</b>	<b>2.189.745</b>	<b>1.910.311</b>	<b>1.835.849</b>	<b>2.021.341</b>	<b>2.099.527</b>
<b>Kewajiban Jangka Pendek</b>					
Hutang Pajak	318.247	173.815	121.057	172.044	209.969
Pinjaman Jangka Panjang Jt. Tempo	0	79.413	0	0	0
Bunga Yang Harus Dibayar	6.446	5.440	6.171	0	0
Hutang Usaha	4.364.639	3.259.797	2.037.112	1.886.674	3.506.915
Lainnya	51.944	35.068	70.480	226.764	209.067
<b>Jumlah Kewajiban Jangka Pendek</b>	<b>4.741.277</b>	<b>3.553.533</b>	<b>2.234.820</b>	<b>2.285.482</b>	<b>3.925.951</b>
<b>JUMLAH MODAL &amp; KEWAJIBAN</b>	<b>42.011.725</b>	<b>40.204.136</b>	<b>39.093.213</b>	<b>39.394.393</b>	<b>41.318.634</b>



**PENDAPATAN OPERASI (Dalam Jutaan Rp)****Operational Income**

Rincian	TAHUN	TAHUN	TAHUN	TAHUN	TAHUN
	2007	2008	2009	2010	2011
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED
<b>PENDAPATAN USAHA</b>					
1.1. Pendapatan Penjualan Tenaga Listrik	20.851.199	29.497.209	20.099.858	19.428.697	24.473.152
1.2. Pendapatan Jasa Operasi & Pemeliharaan dan EPC	42.892	219.539	362.872	435.275	563.605
1.3. Pendapatan Jasa Lainnya	15.990	14.624	1.251	417	834
<b>Jumlah Pendapatan Usaha</b>	<b>20.910.082</b>	<b>29.731.372</b>	<b>20.463.981</b>	<b>19.864.389</b>	<b>25.037.591</b>

**LABA (RUGI) USAHA (Dalam Jutaan Rp)****Operational Profit (Loss)**

Rincian	TAHUN	TAHUN	TAHUN	TAHUN	TAHUN
	2007	2008	2009	2010	2011
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED
<b>Jumlah Pendapatan Operasi</b>	<b>20.910.082</b>	<b>29.731.372</b>	<b>20.463.981</b>	<b>19.864.389</b>	<b>25.037.591</b>
<b>BIAYA OPERASI</b>					
2.1. Pembelian Tenaga Listrik	-	-	-	-	-
2.2. Bahan Bakar & Minyak Pelumas					
- B B M	13.345.650	21.593.069	9.350.329	8.491.905	13.237.675
- Pelumas & Kimia	15.777	21.170	19.396	17.573	18.182
- Air - (E & P - PAP)	47.535	71.941	81.193	176.340	166.253
- Gas Alam	1.800.973	2.845.154	5.030.662	4.499.336	4.559.773
- Batubara	903.439	1.284.091	1.853.896	1.605.558	1.989.751
<b>Jumlah Bahan Bakar &amp; Minyak Pelumas</b>	<b>16.113.375</b>	<b>25.815.425</b>	<b>16.335.476</b>	<b>14.790.712</b>	<b>19.971.634</b>
2.3. Pemeliharaan					
- Material	795.510	618.220	618.220	897.647	710.945
- Jasa	180.449	213.430	232.929	290.855	343.061
<b>Jumlah Pemeliharaan</b>	<b>975.959</b>	<b>831.651</b>	<b>557.719</b>	<b>1.188.502</b>	<b>1.054.006</b>
2.4. Biaya Kepegawaian	386.308	473.390	529.320	698.450	772.920
2.5. Biaya <u>Operasi Lainnya</u>	132.618	336.601	529.988	739.321	503.597
2.6. Biaya Penyusutan	1.647.628	1.574.234	1.437.719	1.416.285	1.433.312
<b>Jumlah Biaya Operasi</b>	<b>19.255.888</b>	<b>29.031.301</b>	<b>19.390.222</b>	<b>18.833.270</b>	<b>23.735.469</b>
<b>LABA / (RUGI) OPERASI</b>	<b>1.654.194</b>	<b>700.071</b>	<b>1.073.759</b>	<b>1.031.119</b>	<b>1.302.122</b>

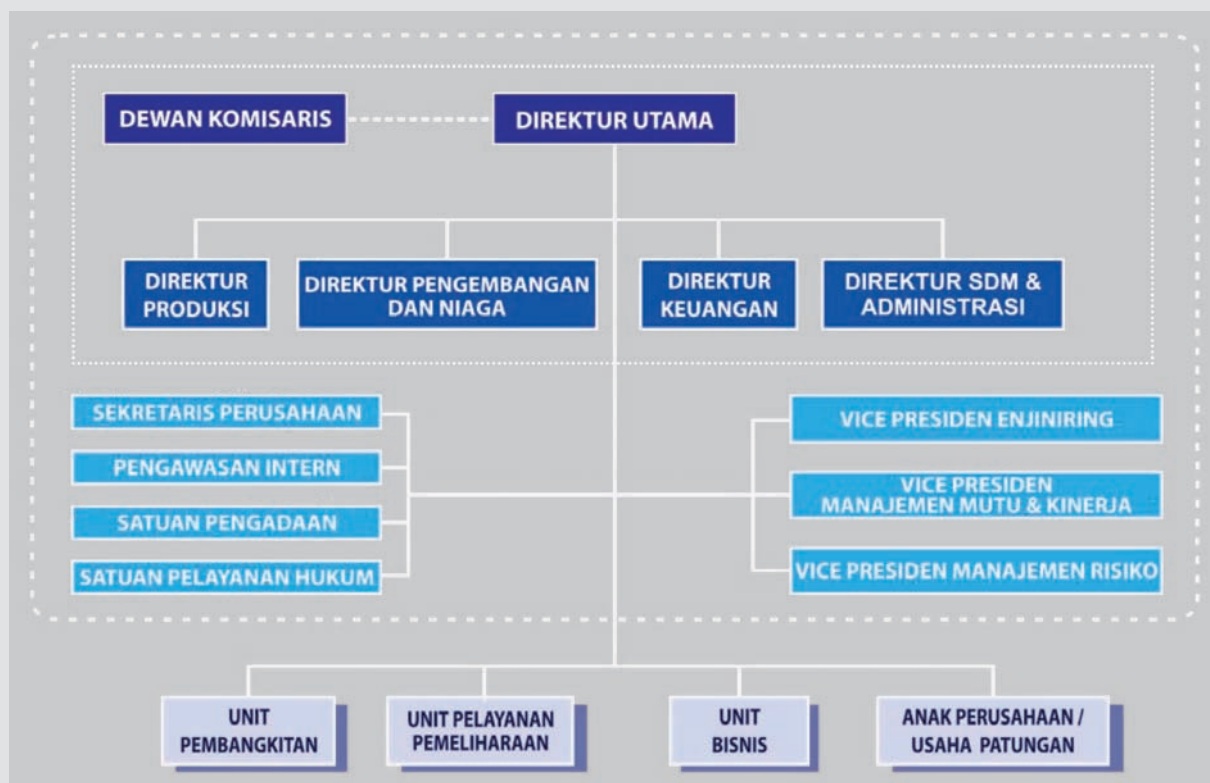
**LABA (RUGI) SEBELUM PAJAK (Dalam Jutaan Rp)****Profit (Loss) Before Tax**

Rincian	TAHUN	TAHUN	TAHUN	TAHUN	TAHUN
	2007	2008	2009	2010	2011
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED
<b>LABA / (RUGI) OPERASI</b>	<b>1.654.194</b>	<b>700.071</b>	<b>1.073.759</b>	<b>1.031.119</b>	<b>1.302.122</b>
<b>PENDAPATAN/(BEBAN) LUAR OPERASI</b>					
4.1. Pendapatan	248.335	(4.236)	697.652	502.369	300.580
4.2. Biaya	(38.034)	(217.732)	(244.494)	(77.897)	(104.561)
4.3. Beban Bunga	(19.725)	(18.634)	(10.404)	-	-
4.4. Pendapatan/(Bunga) Pajak Revaluasi	-	-	-	-	-
4.4. Pend/(Biaya) Selisih Kurs	86.359	318.929	(368.271)	(84.935)	2.546
<b>Jumlah Pendapatan/(Biaya ) Luar Operasi</b>	<b>276.935</b>	<b>78.327</b>	<b>74.483</b>	<b>339.537</b>	<b>198.565</b>
<b>LABA / (RUGI) SEBELUM PAJAK</b>	<b>1.931.129</b>	<b>778.397</b>	<b>1.148.242</b>	<b>1.370.656</b>	<b>1.500.687</b>

**LABA (RUGI) SETELAH HAK MINORITAS ANAK PERUSAHAAN (Dalam Jutaan Rp)****Income After Minority Interest**

Rincian	TAHUN	TAHUN	TAHUN	TAHUN	TAHUN
	2007	2008	2009	2010	2011
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED
<b>LABA / (RUGI) SEBELUM PAJAK</b>	<b>1.931.129</b>	<b>778.397</b>	<b>1.148.242</b>	<b>1.370.656</b>	<b>1.500.687</b>
<b>PENGHASILAN/(BEBAN) PAJAK</b>					
PENGHASILAN/(BEBAN) PAJAK TANGGUHAN	(155.786)	215.102	6.500	(123.483)	20.877
BEBAN PAJAK KINI ( )	(393.990)	(278.481)	(232.933)	(259.558)	(380.366)
<b>LABA TH.BERJALAN DAN JUML.LABA KOMPREHENSIF</b>	<b>1.381.353</b>	<b>715.018</b>	<b>921.809</b>	<b>987.615</b>	<b>1.141.198</b>
<b>LABA TH.BERJALAN DAN JUML.LABA KOMPREHENSIF</b> diatribusikan kepada :					
Pemilik entitas induk	1.381.404	712.048	923.153	1.039.590	1.140.673
Kepentingan non pengendali	(51)	2.970	(1.344)	(51.975)	525
<b>Jumlah Laba Komprehensif</b>	<b>1.381.353</b>	<b>715.018</b>	<b>921.809</b>	<b>987.615</b>	<b>1.141.198</b>

STRUKTUR ORGANISASI | organization structure



RUMUS | Formulas

$$CF = \frac{\text{Faktor Kapasitas Capacity Factor Produksi (KWh)}}{\text{Daya Terpasang (KW) X Periode Tahunan (jam)}} \times 100\%$$

$$EAF = \frac{\text{Faktor Kesiapan Equivalent Availability Factor [ AH - (EUDH + ESDH ESEDH) ]}}{PH} \times 100\%$$

$$SOF = \frac{\text{Faktor Pemeliharaan Schedule Outage Factor MOH + POH}}{PH} \times 100\%$$

$$EFOR = \frac{\text{Faktor Kesiapan Equivalent Forced Outage Rate FOH + EFDH}}{FOH + SH + EFDHRS} \times 100\%$$

DAFTAR ISTILAH | Glossary

KW : Kilowatt	ESDH : Equivalent Schedule Derated Hours
MW : Megawatt	ESEDH : Equivalent Seasonal Derated Hours
KWh : Kilowatt-hour	EFDH : Equivalent Forced Derated Hours
MWh : Megawatt-hour	EFDHRS : Equivalent Forced Derated Hours Reserve Shutdown
GWh : Gigawatt-hour	PLTA : Pusat Listrik Tenaga Air
HSD : High Speed Diesel Oil	PLTU : Pusat Listrik Tenaga Uap
MFO : Marine Fuel Oil	PLTG : Pusat Listrik Tenaga Gas
SFC : Specific Fuel Consumption	PLTGU : Pusat Listrik Tenaga Gas Uap
CF : Capacity Factor	MSCF : 10 <sup>3</sup> Standart Cubic Feet (m=10 <sup>3</sup> )
EAF : Equivalent Availability Factor	MMSCF : 10 <sup>6</sup> Standart Cubic Feet (m=10 <sup>6</sup> )
EFOR : Equivalent Forced Outage Rate	UP : Unit Pembangkitan
SOF : Schedule Outage Factor	UB : Unit Bisnis
AH : Availability Hours	
SH : Service Hours	
PH : Periode Hours	
MOH : Maintenance Outage Hours	
POH : Planned Oytage Hours	
FOH : Forced Outage Hours	
EUDH : Equivalent Unplanned Derated Hours	

**Equivalent Availability Factor**

Merupakan Availability Factor yang terkoreksi dengan memperhitungkan lama (jam) derating.

**Equivalent Forced Outage Rate**

Merupakan Forced Outage Rate yang terkoreksi dengan memperhitungkan lama (jam) derating.

**Schedule Outage Factor**

adalah perbandingan rencana keluar sistem (jam) dengan periode (jam) dikalikan 100%