

**Availability At Daily Maximum Demand Hour**

ST-Coal	1,840 MW
ST-Gas	0 MW
ST-Oil	80 MW
Gas	3,866 MW
Hydro	1,835 MW
Distillate	30 MW
<b>Total TNB</b>	<b>7,651 MW</b>
<b>Total IPP</b>	<b>10,517 MW</b>
<b>Total Co-Gen</b>	<b>43 MW</b>
<b>System Total</b>	<b>18,211 MW</b>

**Set On Bus, TNB, IPP And MD**

At Daily Maximum Demand Hour : 15:30

TNB Generation	5,983 MW
IPP Generation	8,326 MW
Total Set On Bus	15,319 MW
Maximum Demand	14,434 MW
Spinning Reserve	963 MW
Net Energy	293,438 MWH
Load Factor	84.7 %

**Maximum Demand Record**

<b>Date :</b>	09/05/2011	15,476.0 MW
<b>Date :</b>	10/05/2011	318,459.0 MWH

**Hourly System MW Generation**

	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
System Total	11154	10631	10073	9979	9726	9664	9945	10237	10910	12489	13156	13903	13984	13801	14265	14301	14370	14152	13245	13346	13623	13329	12726	12292

**Gas Usage**

Station	(mmscfd)
CBPS	42
GLGR	55
PAKA	134
SRDG	18
TJGS	53
<b>TNB Total</b>	<b>302</b>
KLPP	57
MPSS	26
PGLA	54
PKLG	2
PLPS	80
SGB3	67
SGRI	42
SKSP	48
YPGS	69
YPKA	107
<b>IPP Total</b>	<b>552</b>
<b>Total Gas</b>	<b>854</b>
<b>Total Gas Required :</b>	<b>1,107</b>
<b>Gas Calorific Value :</b>	<b>38.500</b>

**Alternate Fuel Usage**

Station	(mmscfd)
KLPP	36
PGLA	32
PGPS	17
PKLG	124
TEWA	2
TJGS	42
<b>Total</b>	<b>253</b>

**Generation Mix**

Type	MWh	Percentage
ST-Coal	44,258.00	15.08 %
ST-Oil	1,613.00	0.55 %
Gas	38,787.00	13.22 %
Hydro	22,833.00	7.78 %
Distillate	6,329.00	2.16 %
<b>Total TNB</b>	<b>113,820.0</b>	<b>38.79 %</b>
ST-Coal	80,696.0	27.50 %
ST-Oil	12,172.0	4.15 %
Gas	74,118.0	25.26 %
Distillate	9,014.0	3.07 %
<b>Total IPP</b>	<b>176,000.0</b>	<b>59.98 %</b>
Co-Gen	1,219.0	0.42 %
<b>Total Co-Gen</b>	<b>1,219.0</b>	<b>0.42 %</b>
<b>Total Generation</b>	<b>291,039.0</b>	<b>99.18 %</b>
PLTG	-19.0	-0.01 %
HVDC	-2,380.0	-0.81 %
<b>Interconnection</b>	<b>-2,399.0</b>	<b>-0.82 %</b>
<b>Net Energy</b>	<b>293,438.0</b>	<b>100.00 %</b>

**Average SR During Peak Hour**

Type	MW
GT	499
Hydro	176
Syncon	226
Thermal	34
<b>Total</b>	<b>936</b>

	Weather	Temperature
Morning	Sunny	24
Afternoon	Hot	29

Station	Unit	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300																												
PKLG	U003	247	247	246	247	246	246	248	247	247	247	247	247	247	278	285	283	285	283	284	284	284	284	283	284	262	246	246	246	246	246	247	248	248	248	247																	
PKLG	U004	267	267	266	267	269	269	267	267	269	269	268	268	270	270	270	272	272	269	269	272	272	274	273	273	275	272	269	272	271	274	270	270	271	271	274	271	270	267	269	269	272	272	269	272	271	271						
PKLG	U005	359	359	359	356	359	359	359	359	359	356	361	358	358	358	359	359	359	359	359	359	359	359	359	359	359	359	359	356	359	359	359	359	359	359	360	359	360	360	361	358	360	360	360	360	360							
PKLG	U006	463	463	462	462	462	462	465	462	461	461	463	465	461	459	460	463	463	463	463	465	464	461	463	463	462	462	462	462	463	463	461	464	463	460	461	461	462	462	462	462	462	460	461	462	462	462						
JMIG	U001	688	688	688	688	668	628	628	628	628	592	592	612	629	646	665	665	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684					
JMIG	U002	683	683	683	683	664	626	626	626	626	590	590	628	628	651	671	671	688	688	688	688	688	688	688	688	688	688	688	688	581	603	528	547	601	679	679	679	679	679	679	679	679	679	679	679	679	679	679	679				
JMIG	U003	585	585	585	604	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587				
TBIN	U002	330	391	447	582	670	699	634	633	627	604	601	632	632	653	668	671	690	696	696	696	696	696	696	696	696	696	696	696	694	694	694	694	694	694	694	694	694	694	694	694	694	694	694	694	694	694	694	694				
TBIN	U003	695	694	695	693	671	653	633	632	629	563	599	633	633	652	673	673	690	693	696	694	692	690	702	691	701	691	703	687	694	693	694	696	692	694	692	709	696	694	698	698	698	698	698	698	698	698	698	698	698			
JMAH	U002	706	703	698	696	652	634	634	634	629	604	603	635	630	650	672	676	682	700	702	702	702	702	702	701	707	704	704	705	699	705	703	702	699	702	702	702	703	704	705	700	706	700	706	699	704	704	700	699	705			
Total ST-Coal		5023	5080	5129	5278	5248	5163	5079	5076	5062	4873	4910	5072	5075	5175	5275	5280	5359	5385	5390	5388	5386	5388	5399	5399	5403	5413	5441	5420	5345	5342	5267	5288	5337	5419	5413	5436	5427	5398	5381	5384	5382	5383	5383	5394	5388	5378	5386	5390				
PGPS	U002	79	79	80	79	77	78	78	77	77	78	78	78	78	79	79	78	78	78	78	78	78	78	78	78	78	78	77	77	78	78	78	78	78	78	78	78	78	78	77	77	77	77	77	77	77	77	77	77	77			
PKLG	U001	0	0	44	60	72	92	137	146	154	174	200	223	264	273	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272			
PKLG	U002	278	278	278	272	267	272	276	276	277	277	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278		
Total ST-Oil		357	357	402	411	418	441	491	500	508	528	556	579	620	629	628	634	628	628	628	628	628	628	628	628	628	628	628	628	628	628	627	627	627	627	627	627	628	628	628	628	627	627	627	627	627	627	627	627	627			
CBPS	GT1A	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88		
CBPS	GT1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CBPS	ST1C	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42		
GLGR	GT01	103	104	89	63	63	64	64	64	64	63	64	64	65	65	65	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64		
GLGR	GT02	106	106	91	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	
GLGR	ST1C	100	100	100	100	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	
KLPP	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	GT14	0	92	61	61	59	60	60	60	60	60	60	60	60	60	62	136	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	GT15	147	63	61	61	61	60	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61		
KLPP	ST17	102	102	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77		
MPSS	GT01	110	87	83	86	82	83	83	85	83	86	82	85	87	85	86	87	86	85	85	84	84	85	93	104	104	106	106	105	105	105	105	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	
MPSS	ST01	55	45	36	38	34	37	36	35	35	35	35	37	35	35	38	39	40	37	40	37	39	39	40	53	54	52	54	53	52	54	54	53	52	53	54	53	54	55	55	53	54	56	56	55	55	55	55	55	55	55	55	
PAKA	GT1A	62	62	62	62	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	
PAKA	GT1B	59	61	60	61	60	61	61	60	60	61	61	61	61	61	60	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
PAKA	ST1C	69	70	70																																																	



Station	Unit	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300																												
TMGR	HY02	48	57	36	38	40	40	39	38	37	40	40	41	47	41	44	45	83	45	71	40	57	72	82	82	41	39	40	80	41	71	81	39	41	40	38	38	81	49	81	52	36	80	71	36	40	41	72	40				
TMGR	HY03	48	57	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	80	79	77	78	80	79	79	79	77	77	77	78	76	78	78	80	79	79	79	78	79	78	79	78	79	80			
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	73	74	74	73	74	73	74	74	-1				
UPIA	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4				
UPIA	HY02	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4				
<b>Total Hydro</b>		<b>893</b>	<b>743</b>	<b>597</b>	<b>577</b>	<b>563</b>	<b>537</b>	<b>323</b>	<b>365</b>	<b>244</b>	<b>207</b>	<b>212</b>	<b>244</b>	<b>364</b>	<b>335</b>	<b>456</b>	<b>546</b>	<b>612</b>	<b>644</b>	<b>690</b>	<b>861</b>	<b>947</b>	<b>1217</b>	<b>1404</b>	<b>1389</b>	<b>1305</b>	<b>1226</b>	<b>1265</b>	<b>1381</b>	<b>1580</b>	<b>1573</b>	<b>1591</b>	<b>1510</b>	<b>1468</b>	<b>1420</b>	<b>1479</b>	<b>1021</b>	<b>861</b>	<b>822</b>	<b>1088</b>	<b>1490</b>	<b>1396</b>	<b>1414</b>	<b>1366</b>	<b>1254</b>	<b>1170</b>	<b>980</b>	<b>1068</b>	<b>838</b>				
KLPP	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133	132	133	133	134	133	134	133	133	134	134	135	135	135	134	26	0	
KLPP	GT14	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123	126	127	128	127	127	128	126	126	126	126	127	126	127	126	126	126	126	127	128	127	128	127	128	128	128	128	128	125		
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217	215	214	216	216	215	216	214	216	213	214	214	215	219	218	220	222	220	222	223	224	222	223	224	223	223	224	223	223	178
TEWA	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TJGS	GT2A	228	228	228	209	123	123	123	44	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TJGS	GT2B	223	222	222	203	17	117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TJGS	ST2C	244	244	244	243	90	148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Total Distillate</b>		<b>803</b>	<b>694</b>	<b>694</b>	<b>655</b>	<b>230</b>	<b>388</b>	<b>123</b>	<b>44</b>	<b>79</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>123</b>	<b>126</b>	<b>344</b>	<b>343</b>	<b>371</b>	<b>373</b>	<b>374</b>	<b>372</b>	<b>372</b>	<b>370</b>	<b>372</b>	<b>369</b>	<b>504</b>	<b>502</b>	<b>505</b>	<b>510</b>	<b>509</b>	<b>1204</b>	<b>1206</b>	<b>1201</b>	<b>1176</b>	<b>1179</b>	<b>1181</b>	<b>1179</b>	<b>1181</b>	<b>1182</b>	<b>1182</b>	<b>1071</b>	<b>998</b>			
PCUF	CUFG	23	18	17	17	15	16	15	17	16	16	17	19	18	17	17	19	17	16	14	15	13	15	14	13	13	12	12	12	13	13	14	15	14	14	15	16	15	16	16	16	16	16	14	14	14	16	19	20				
PCUF	CUFK	36	36	36	36	36	36	35	35	36	36	37	37	36	36	36	36	36	36	36	36	36	36	36	33	33	33	33	32	32	31	31	33	33	32	32	32	32	32	34	34	34	34	34	34	34	34	34	34	34	34		
<b>Total Co-Gen</b>		<b>59</b>	<b>54</b>	<b>53</b>	<b>53</b>	<b>51</b>	<b>52</b>	<b>50</b>	<b>52</b>	<b>52</b>	<b>53</b>	<b>54</b>	<b>55</b>	<b>53</b>	<b>53</b>	<b>55</b>	<b>53</b>	<b>52</b>	<b>50</b>	<b>51</b>	<b>49</b>	<b>48</b>	<b>47</b>	<b>46</b>	<b>46</b>	<b>44</b>	<b>44</b>	<b>43</b>	<b>44</b>	<b>46</b>	<b>47</b>	<b>47</b>	<b>46</b>	<b>46</b>	<b>47</b>	<b>50</b>	<b>49</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>50</b>	<b>53</b>	<b>54</b>						
<b>Total Gen</b>		<b>10895</b>	<b>10573</b>	<b>10355</b>	<b>10357</b>	<b>9853</b>	<b>9934</b>	<b>9735</b>	<b>9607</b>	<b>9511</b>	<b>9476</b>	<b>9532</b>	<b>9758</b>	<b>9920</b>	<b>10025</b>	<b>10235</b>	<b>10334</b>	<b>10943</b>	<b>11802</b>	<b>12452</b>	<b>12812</b>	<b>13047</b>	<b>13512</b>	<b>13725</b>	<b>14002</b>	<b>13891</b>	<b>13792</b>	<b>13682</b>	<b>13793</b>	<b>14146</b>	<b>14333</b>	<b>14300</b>	<b>14356</b>	<b>14270</b>	<b>14155</b>	<b>14083</b>	<b>13412</b>	<b>13103</b>	<b>13024</b>	<b>13227</b>	<b>13706</b>	<b>13611</b>	<b>13505</b>	<b>13360</b>	<b>13127</b>	<b>12784</b>	<b>12513</b>	<b>12265</b>	<b>11779</b>				
TIE-EGAT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TIE-HVDC		-294	-293	-295	-295	-292	-295	-293	-294	-293	30	30	31	30	31	30	30	-98	-98	-97	-97	-98	-99	-98	-100	-99	-99	-98	-99	-100	-100	-99	-99	-98	-98	30	30	30	30	30	30	30	30	30	30	30	30	30	-295				
TIE-PLTG		35	56	19	-1	75	30	51	-5	78	13	161	-29	-55	-50	-33	-41	2	4	-67	-1	-11	-55	-81	-41	6	169	-19	-23	-20	4	98	22	0	-1	30	51	-44	16	-149	9	-42	-64	1	72	28	56	-57	24				
<b>Interconnection</b>		<b>-259</b>	<b>-237</b>	<b>-276</b>	<b>-296</b>	<b>-220</b>	<b>-262</b>	<b>-244</b>	<b>-300</b>	<b>-215</b>	<b>-281</b>	<b>-132</b>	<b>1</b>	<b>-25</b>	<b>-20</b>	<b>-11</b>	<b>33</b>	<b>34</b>	<b>-37</b>	<b>-99</b>	<b>-109</b>	<b>-152</b>	<b>-178</b>	<b>-139</b>	<b>-93</b>	<b>71</b>	<b>-119</b>	<b>-122</b>	<b>-119</b>	<b>-94</b>	<b>-1</b>	<b>-78</b>	<b>-100</b>	<b>-100</b>	<b>-69</b>	<b>-47</b>	<b>-142</b>	<b>46</b>	<b>-119</b>	<b>39</b>	<b>-12</b>	<b>-34</b>	<b>31</b>	<b>102</b>	<b>58</b>	<b>86</b>	<b>-27</b>	<b>-271</b>					
<b>System Total</b>		<b>11154</b>	<b>10810</b>	<b>10631</b>	<b>10653</b>	<b>10073</b>	<b>10196</b>	<b>9979</b>	<b>9907</b>	<b>9726</b>	<b>9757</b>	<b>9664</b>	<b>9757</b>	<b>9945</b>	<b>10045</b>	<b>10237</b>	<b>10345</b>	<b>10910</b>	<b>11768</b>	<b>12489</b>	<b>12911</b>	<b>13156</b>	<b>13664</b>	<b>13903</b>	<b>14141</b>	<b>13984</b>	<b>13721</b>	<b>13801</b>	<b>13915</b>	<b>14265</b>	<b>14427</b>	<b>14301</b>	<b>14434</b>	<b>14370</b>	<b>14255</b>	<b>14152</b>	<b>13459</b>	<b>13245</b>	<b>12978</b>	<b>13346</b>	<b>13667</b>	<b>13623</b>	<b>13539</b>	<b>13329</b>	<b>13025</b>	<b>12726</b>	<b>12427</b>	<b>12292</b>	<b>12050</b>				
SRev	ST-Coal	97	101	108	94	172	257	341	344	353	368	363	339	345	245	145	140	61	35	30	32	34	32	21	21	17	7	-21	0	35	-12	48	27	98	36	42	19	28	27	50	52	54	53	53	42	38	48	40	36				
SRev	ST-Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SRev	ST-Oil	3	3	-42	-51	22	-1	-51	-60	-8	-3	-31	-19	0	-9	2	-4	2	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	2	2	2	2	3	3	3	3	3	1	4	3		
SRev	CCGT-Gas	1020	1275	1440	1537	1567	1557	1711	1810	1814	1794	1809	1801	1804	1778	1787	1769	1301	1428	1018	858	712	515	497	335	367	397	570	553	392	379	430	489	625	634	666	691	607	519	481	462	383	370	393	317	351	426	659	748				
SRev	OCGT-Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
SRev	Distillate	37	6	6	45	470	312	107	186	151	0	0	0	0	0	0	0	0	0	0	0	0	17	14	16	17	19	17	16	18	18	20	18	21	26	48	45	40	41	6	4	9	44	21	19	21	19	18	18	129	62		
SRev	Co-Gen	-5	-5	-5	-2	-5	-4	-4	-3	-5	-3	-7	-4	-5	-5	-6	-5	-6	-4	-4	-4	-5	-5	-2	-3	-3	-6	-2	-4	-4	-3																						