



***Maharashtra State Electricity Transmission  
Company Ltd.***

# **State Load Dispatch Center, Airoli**

## **Daily system Report**

**for**

**26/Jun/2009**

**State Load Dispatch Center, Airoli (MSETCL)**  
**Daily system Report for 26/Jun/2009 FRIDAY**

I GENERATION (MUs)			II EXCHANGES (MUs)		
<b>A) MSGENCO</b>	<b>Daily</b>	<b>Monthly</b>	<b>E) Central Sector</b>	<b>Daily</b>	<b>Monthly</b>
1) Thermal	111.082	2907.937	1) Madhya Pradesh	44.619	1591.410
2) Hydro	6.372	315.714	2) Gujrat	29.843	447.299
3) Gas	14.411	367.178	3) Goa	-6.087	-154.655
<b>Total MSGENCO</b>	<b>131.865</b>	<b>3590.829</b>	4) TAPS 1&2 (Inj.)	3.657	143.087
<b>B) OTHERS</b>			5) Pench (Excess)	-0.088	-2.961
1) RGPPL Gas	22.407	572.160	<b># Total Cent. Sector</b>	<b>71.944</b>	<b>2024.180</b>
2) Wind Generation	11.538	332.101	<b>F) Other Exchanges</b>		
3) PENCH (MS)	0.088	2.961	1) With TPCL	-14.688	-237.282
<b>C) TPCL &amp; REL</b>			<b>G) Bilateral Power *</b>		
1) TPCL Thermal	18.662	737.524	1) MSEDCL Bilateral	9.731	240.258
2) TPCL Hydro	2.349	108.124	Include PX	0.000	4.633
<b>TOTAL TPCL</b>	<b>21.011</b>	<b>845.648</b>	2) MUMBAI Bilateral	10.171	220.644
3) REL Thermal	12.675	327.295	Include PX	2.881	68.549
<b>D) STATE</b>			3) MUMBAI Schedule	16.481	247.919
1) Thermal (A1+C1+C3)	142.419	3972.756	<b>H) ENERGY CATERED (MUs)</b>		
2) Hydro (A2+B3+C2)	8.809	426.799	1) MSEDCL	223.154	6287.910
3) Gas (A3+B1)	36.818	939.338	2) TPCL	31.932	931.135
4) Wind (B2)	11.538	332.101	3) REL	16.442	479.041
<b>TOTAL STATE</b>	<b>199.584</b>	<b>5670.994</b>	<b>TOTAL STATE</b>	<b>271.528</b>	<b>7698.086</b>

**DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW)**

PARTICULARS	A. Morning Peak at 11 Hrs	B. Evening Peak at 21 Hrs	C. Night Minimum at 5 Hrs
MSGENCO Thermal	4742	4549	4523
MSGENCO Hydro	227	424	145
MSGENCO Gas	641	642	569
<b>MSGENCO Total Generation</b>	<b>5610</b>	<b>5615</b>	<b>5237</b>
Central Sector Receipt	3090	3089	2737
RGPPL	931	933	933
WIND	397	941	291
Exchange with TPCL	-797	-709	-184
<b>MSEDCL DEMAND MET</b>	<b>9231</b>	<b>9893</b>	<b>9014</b>
Load Shedding	2252	2820	1137
<b>MSEDCL DEMAND (INCL. LS)</b>	<b>11483</b>	<b>12713</b>	<b>10151</b>
TPCL GENERATION	1081	983	708
REL GENERATION	530	527	529
<b>TPCL+REL DEMAND</b>	<b>2408</b>	<b>2219</b>	<b>1421</b>
<b>STATE DEMAND MET</b>	<b>11639</b>	<b>12112</b>	<b>10435</b>
<b>STATE DEMAND (INCL. LS)</b>	<b>13891</b>	<b>14932</b>	<b>11572</b>
Frequency (Hz)	49.40	48.93	49.28
MSEDCL's Max Demand-Supply Gap (excluding UI, D.A.Power & Unsch.Hyd.Gen)	2517 MW at 22.00 Hrs		
MSEDCL's Dem.-Supply Gap for day (excluding UI, D.A.Power & Unsch.Hyd.Gen)	40.08 Mus		

**FREQUENCY PARTICULARS**

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49Hz
49.88 Hz at 06.35 Hrs	48.71 Hz at 23.11 Hrs	49.24	16.57 % of Time

\* Displayed for information, not added in total. # Total Cent. Sector includes MSEDCL and TPCL bilateral power.

# State Load Dispatch Center, Airoli (MSETCL)

## Daily and Progressive Generation, Maximum, Minimum, OLC Details for 26/Jun/2009

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
<b>Koradi</b>					
Unit 1	1.87	32.16	85	60	75
Unit 2	0.00	8.73	0	0	0
Unit 3	1.62	23.62	74	62	75
Unit 4	1.02	21.28	75	0	0
Unit 5	3.78	97.94	173	145	160
Unit 6	3.70	68.45	172	135	150
Unit 7	3.95	101.86	182	145	160
	<b>15.95</b>	<b>354.05</b>			<b>620</b>
<b>Bhusawal</b>					
Unit 1	1.11	30.44	58	36	50
Unit 2	3.68	93.23	166	133	170
Unit 3	4.08	108.60	177	160	175
	<b>8.87</b>	<b>232.27</b>			<b>395</b>
<b>Parli</b>					
Unit 1	0.46	13.60	21	18	20
Unit 2	0.59	13.95	27	22	20
Unit 3	3.13	85.64	163	0	120
Unit 4	3.77	97.72	164	152	150
Unit 5	3.50	103.60	155	129	150
Unit 6	0.00	0.58	0	0	0
	<b>11.45</b>	<b>315.08</b>			<b>460</b>
<b>Chandrapur</b>					
Unit 1	4.02	105.47	172	163	170
Unit 2	3.84	101.15	163	153	165
Unit 3	4.31	114.36	194	153	210
Unit 4	1.62	78.24	75	63	70
Unit 5	9.79	241.87	450	350	400
Unit 6	9.53	226.20	425	354	400
Unit 7	9.88	259.54	436	359	400
	<b>42.98</b>	<b>1126.84</b>			<b>1815</b>
<b>Paras</b>					
Unit 2	0.89	16.24	40	35	40
Unit 3	3.96	113.30	181	155	160
	<b>4.85</b>	<b>129.54</b>			<b>200</b>
<b>Khaparkheda</b>					
Unit 1	4.02	107.92	177	162	160
Unit 2	4.02	102.21	176	161	160
Unit 3	4.09	102.69	178	163	160
Unit 4	4.05	108.93	174	162	160
	<b>16.18</b>	<b>421.76</b>			<b>640</b>
<b>Nasik</b>					
Unit 1	1.86	44.71	87	70	75
Unit 2	0.00	24.09	0	0	0
Unit 3	0.00	30.08	0	0	0
Unit 4	4.56	117.05	193	187	185
Unit 5	4.38	112.46	190	176	185
	<b>10.80</b>	<b>328.40</b>			<b>445</b>
<b>Uran</b>					
All Units	14.41	367.18	642	552	600
	<b>14.41</b>	<b>367.18</b>			<b>600</b>
<b>Koyna</b>					
Stage 1-2	2.04	67.94	380	35	600
Stage 4	1.36	150.45	271	0	250
<b>Koyna 12&amp;4 Total</b>	<b>3.39</b>	<b>218.40</b>			<b>850</b>

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Stage 3	0.99	48.46	220	0	320
	<b>4.38</b>	<b>266.86</b>			<b>1170</b>
<b>Hydro</b>					
KDPH	0.72	8.16	32	30	30
VTRNA	0.49	9.73	61	0	61
TILLARI	0.00	0.00	0	0	0
BHTGR/VEER	0.00	6.11	0	0	0
BHIRA T.R.	0.34	5.84	41	0	41
RNGR+BHTSA	0.24	6.64	10	9	10
BHANDARDRA	0.00	4.42	0	0	0
ELDARY	0.00	0.00	0	0	0
PAITHAN	0.00	0.96	0	0	0
GHATGHAR	0.21	7.00	120	0	0
	<b>1.99</b>	<b>48.86</b>			<b>142</b>
<b>PENCH (MS)</b>					
Pench (MS)	0.09	2.96	24	0	
	<b>0.09</b>	<b>2.96</b>			
<b>Wind</b>					
MalharPeth	0.70	10.31			
Vankuswadi	1.31	24.42			
ATIT	0.29	5.20			
Kale	0.13	2.53			
Satara	0.81	15.90			
Shirala	0.36	7.85			
K Mahankal	0.09	5.94			
Supa	0.28	5.25			
Vita	3.00	47.19			
Dondaicha	2.77	132.86			
Sakri	0.41	24.46			
Nandurbar	0.37	20.56			
Khadakale	0.47	15.80			
Khaparale	0.54	13.84			
	<b>11.54</b>	<b>332.10</b>			
<b>Dabhol</b>					
RGPPPL II	22.41	572.16	937	928	890
RGPPPL III	0.00	0.00	0	0	
	<b>22.41</b>	<b>572.16</b>			<b>890</b>
<b>Tata</b>					
Trombay 4	0.07	0.07	12	0	0
Trombay 5	0.00	260.88	0	0	0
Trombay 6	12.24	294.08	510	510	500
Trombay 7A	3.00	75.22	126	123	120
Trombay 7B	1.64	41.72	69	68	60
Trombay 8	1.71	65.55	120	0	0
TATA Hydro	2.35	108.12	274	4	447
	<b>21.01</b>	<b>845.65</b>			<b>1127</b>
<b>REL</b>					
1&2	12.68	327.30	530	525	500
	<b>12.68</b>	<b>327.30</b>			<b>500</b>
<b>Cent Sect</b>					
Share					3169
					<b>3169</b>

MS PG CL	Thermal	111.08	2907.94		4575
	Thml+Gas	125.49	3275.12		5175
	Hydro	6.37	315.71		1312
	Total	131.86	3590.83		6487
<b>State Total</b>		<b>199.58</b>	<b>5670.99</b>		<b>12173</b>

# State Load Dispatch Center, Airoli (MSETCL)

Hourly Load Data As on 26/Jun/2009

TIME SR. NO.	MSPGCL GEN.			TOTAL	RGPPL	WIND	CS SHARE	CS RECPT	MUMBAI		MSEDCL DEMAND MET	# LOAD SHED.	MSEDCL DEMAND WITH LS	MUMBAI DEMAND	STATE DEM. WITH LS	FREQ. (Hz)
	THM	HY	GAS						SCH.	EXCH.						
1	4611	396	555	5562	934	365	3005	2972	-638	-610	9223	1022	10245	1847	12092	49.12
2	4563	305	556	5424	936	291	2833	2893	-392	-357	9187	1022	10209	1595	11804	49.30
3	4542	295	552	5389	935	288	2776	2820	-285	-270	9162	1051	10213	1505	11718	49.36
4	4568	80	553	5201	935	279	2778	2859	-215	-202	9072	1133	10205	1440	11645	49.45
5	4523	145	569	5237	933	291	2799	2737	-280	-184	9014	1137	10151	1421	11572	49.28
6	4554	697	578	5829	935	212	2825	2882	-330	-237	9621	1270	10891	1473	12364	49.23
7	4602	413	639	5654	936	217	2840	2624	-409	-335	9096	2403	11499	1593	13092	49.62
8	4598	227	624	5449	933	208	2949	2699	-502	-472	8817	2321	11138	1728	12866	49.37
9	4615	230	628	5473	933	268	3197	2988	-710	-680	8982	2501	11483	1968	13451	49.32
10	4665	241	628	5534	932	339	3328	2924	-679	-643	9086	2323	11409	2203	13612	49.32
11	4742	227	641	5610	931	397	3421	3090	-848	-797	9231	2252	11483	2408	13891	49.40
12	4731	278	604	5613	931	378	3414	3156	-942	-851	9227	2125	11352	2463	13815	49.04
13	4734	278	579	5591	928	495	3460	3247	-943	-854	9407	2036	11443	2409	13852	49.35
14	4723	153	564	5440	936	444	3371	3155	-874	-786	9189	2171	11360	2321	13681	49.38
15	4648	96	567	5311	936	579	3372	2950	-899	-800	8976	2412	11388	2336	13724	49.27
16	4675	79	565	5319	934	547	3370	3032	-924	-830	9002	2054	11056	2324	13380	49.23
17	4680	94	620	5394	930	540	3367	3142	-924	-824	9182	1876	11058	2297	13355	49.09
18	4653	104	640	5397	930	685	3235	3118	-866	-774	9356	1840	11196	2257	13453	49.08
19	4665	170	625	5460	933	858	3150	2842	-827	-728	9365	2279	11644	2211	13855	49.29
20	4574	387	621	5582	935	806	3225	3090	-820	-731	9695	2835	12530	2232	14762	49.32
21	4549	424	642	5615	933	941	3211	3089	-806	-709	9893	2820	12713	2219	14932	48.93
22	4547	243	625	5415	934	819	3287	3227	-905	-797	9622	2752	12374	2172	14546	48.95
23	4617	569	620	5806	937	646	3294	3247	-745	-623	10037	1643	11680	1993	13673	48.99
24	4700	241	620	5561	937	647	3282	3169	-723	-594	9723	1177	10900	1959	12859	49.18
<b>MUs</b>	<b>111.08</b>	<b>6.37</b>	<b>14.42</b>	<b>131.87</b>	<b>22.41</b>	<b>11.54</b>	<b>75.79</b>	<b>71.95</b>	<b>-16.48</b>	<b>-14.69</b>	<b>223.16</b>	<b>46.46</b>	<b>269.62</b>	<b>48.37</b>	<b>317.99</b>	<b>49.24</b>

NOTE : ALL VALUES IN MW

MUMBAI Sch./Net Exch is shown with reference to MSETCL System. (+) indicates MUMBAI to MSETCL and (-) indicates MSETCL to MUMBAI. MUMBAI Schedule is calculated for MSETCL periphery (taking 4% loss for import & 4.85% MSETCL # Without Applying Load Diversity Factor

**State Load Dispatch Center, Airoli (MSETCL)**  
**Details of Generating Unit Outages/Trippings for 26/Jun/2009**

Position as on 6.30 Hrs of 27/Jun/2009

Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
<b>PLANNED OUTAGE</b>							
Cent_Sect KARPR1	220	01/07/2008	00:10		Continued.	COH(En-Mass Coolant Clanel Replacement)	31/03/2010
Cent_Sect NTPC(K-3)	210	01/06/2009	00.00		Continued.	Annual Overhaul	06/07/2009
Nasik Unit 3	210	07/06/2009	21.37		Continued.	Capital overhaul	18/07/2009
Cent_Sect Tarapur 2	80	16/06/2009	22:10		Continued.	Refueling Outage.	30/07/2009
<b>FORCED OUTAGE</b>							
Dabhol 2A	230	19/01/2008	02.40		Continued.	Tripped	01/07/2009
Uran Unit 2	60	04/10/2008	19.00		Continued.	Gas Restriction	
Dabhol 3A	230	08/11/2008	13.45		Continued.	Exhaust temp.& vibn.high	25/07/2009
Dabhol 1B	230	22/01/2009	12.05		Continued.	BHMS Installation work	
Uran Unit 4	60	01/04/2009	00:00		Continued.	Gas Restriction	
Tata Trombay 4	150	09/04/2009	02.10	26/06/2009	16.58	W/dn	
Parli Unit 6	250	03/06/2009	06.35		Continued.	Bearing Vibration.	20/07/2009
Cent_Sect Kawas ST1C	116	03/06/2009	16:33		Continued.	Bearing Temp. High	30/06/2009
Koradi Unit 2	105	07/06/2009	08:19		Continued.	ID Fan Problem	28/06/2009
Uran Unit 3	60	20/06/2009	11.15		Continued.	Gas Restriction	
Tata Trombay 5	500	22/06/2009	17.50		Continued.	Boiler Tube Leakage	30/06/2009
Koradi Unit 4	115	24/06/2009	11:04	26/06/2009	08.09	Boiler Tube Leakage	
Tata Trombay 8	250	24/06/2009	21:50	26/06/2009	08.46	Low Vaccum	
Nasik Unit 2	125	25/06/2009	04:10		Continued.	Fire in Wind Box.	30/06/2009
Cent_Sect NTPC(V-5)	210	25/06/2009	14.44	26/06/2009	03.50	Circulating Water Problem (_CWC)	
Parli Unit 3	210	26/06/2009	19.26	26/06/2009	21.33	Boiler Prot.	

**State Load Dispatch Center,Airoli (MSETCL)**  
**Details of Line outages/Trippings for 26/Jun/2009**

Position as on 6.30 Hrs of 27/Jun/2009

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
<b>InterState</b>					
<b>Voltage Level : 220KV</b>			<b>Outage Type PLANNED OUTAGE</b>		
Taps-Boiser	23/06/2009	13.44		Continued.	Zone Outage.
220 KV Taps Zone -I.	23/06/2009	13:44		Continued.	Gantry Replacement Work.
<b>Voltage Level : 400KV</b>			<b>Outage Type TRIPPED</b>		
Dhule-Khandwa-I	19/06/2009	16:13		Continued.	3 Tower Colloped.
Dhule-Khandwa-II	19/06/2009	16:13		Continued.	3 Tower Colloped.
Seoni - Wardha	26/06/2009	18.57		Continued.	TRIPPED ON O/V
Wardha - Akola - I	26/06/2009	19:05		Continued.	TRIPPED ON O/V
<b>IntraState</b>					
<b>Voltage Level : 400KV</b>			<b>Outage Type PLANNED OUTAGE</b>		
C;pur-Parli CKT .I	12/06/2009	10:56		Continued.	Line on TBC.
ICT II @ BBLSWR S/S	25/06/2009	23.50		Continued.	Tap changing work.
Main Breaker C'pur-Koradi CKT	26/06/2009	00.52	26/06/2009	09.49	To attend oil leakage
HVDC AC Padgha	26/06/2009	11.37		Continued.	Line on TBC.
400/220KV 315MVA ICT-III at Padgha	26/06/2009	12.52	26/06/2009	14.17	Wrapping of Plastic paper
400/220 KV 315 MVA ICT at Akola	26/06/2009	14.06	26/06/2009	20.24	Tan Delta Measurment.
<b>Voltage Level : 220KV</b>			<b>Outage Type PLANNED OUTAGE</b>		
220/100KV 125 MVA ICT-II at Kalwa	01/05/2009	07:45		Continued.	Repair Work
220 KV Interconnector at Kalwa	26/06/2009	07.25	26/06/2009	18.52	R.M.Work.
220 B.C.at padgha	26/06/2009	08.56	26/06/2009	17.26	R.M.Work.
Kandalgaon-Khargar	26/06/2009	09.06	26/06/2009	19.26	R.M.Work.
Koradi-Ambazari-I	26/06/2009	10.15	26/06/2009	13.56	Testing and R.M. work.
Kolhapur-Ichalkaranji	26/06/2009	11.20	26/06/2009	17.22	R.M.Work.
Pusad - Parbhani	26/06/2009	11.32	26/06/2009	17.51	Repl.of broken crossarm piece at loc.No.164
Wada-Kolshet	26/06/2009	12.10	26/06/2009	15.40	R.M.Work.
<b>Voltage Level : 132KV</b>			<b>Outage Type PLANNED OUTAGE</b>		
Bhusawal - Muktainagar	18/06/2009	11.41		Continued.	Breaker Replacement
Bhandara-Madgi CKT.II	18/06/2009	13.40		Continued.	Breaker Replacement
<b>Voltage Level : 400KV</b>			<b>Outage Type HAND TRIPPED</b>		
BBLSR-BHUSAWAL	26/06/2009	18.03	26/06/2009	19.02	H/T for Koradi-Bhusawal line loading
Koradi - Bhusawal	26/06/2009	18.05	26/06/2009	19.00	Bucholz alarm on Reactor
<b>Voltage Level : 220KV</b>			<b>Outage Type HAND TRIPPED</b>		
Wardha--Dhamangaon	19/06/2009	11.44		Continued.	H/T to control voltage at Akola.
Wardha-Badnera	26/06/2009	21.04		Continued.	H/T to control Akola ICT.
<b>Voltage Level : 400KV</b>			<b>Outage Type TRIPPED</b>		
Dhule - Babhaleshwar - I	26/06/2009	00.02	26/06/2009	00.26	Tripped on Dist.Prot.
400kv BSL S/S.200MVA.400/132KV	27/06/2009	05.30		Continued.	Tripped from L.V.side.
<b>Voltage Level : 220KV</b>			<b>Outage Type TRIPPED</b>		
Khaparkheda-Kawlewada-I	25/06/2009	15.56	26/06/2009	16.24	Tripped on Dist.Prot.

**State Load Dispatch Center, Airoli (MSETCL)**  
**Details of Line outages/Trippings for 26/Jun/2009**

Position as on 6.30 Hrs of 27/Jun/2009

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
Aurangabad-Jalna-I	26/06/2009	16.04	26/06/2009	16.33	Tripped on Distance protection
<b>Voltage Level : 132KV</b>			<b>Outage Type TRIPPED</b>		
Paras-Akot	23/06/2009	16:45		Continued.	1 Tower Colloped.

# State Load Dispatch Center, Airoli (MSETCL)

## Details of On Line Capacity for 27/Jun/2009

Generating unit	Derated Capacity (MW)	OLC (MW)	Generating unit	Derated Capacity (MW)	OLC (MW)
<b>Koradi</b>			KDPH	40	32
Unit 1	105	70	VTRNA	60	61
Unit 2	105	0	TILLARI	60	0
Unit 3	105	70	BHTGR/VEER	21	0
Unit 4	105	70	BHIRA T.R.	80	41
Unit 5	200	160	RNGR+BHTSA	20	10
Unit 6	210	150	BHANDARDRA	45	0
Unit 7	210	150	ELDARY	23	0
	<b>1040</b>	<b>670</b>	PAITHAN	12	9
<b>Bhusawal</b>			GHATGHAR	250	0
Unit 1	58	50		<b>611</b>	<b>153</b>
Unit 2	210	170	<b>PENCH (MS)</b>		
Unit 3	210	175	Pench (MS)	53	0
	<b>478</b>	<b>395</b>		<b>53</b>	<b>0</b>
<b>Parli</b>			<b>Wind</b>		
Unit 1	30	20	MalharPeth	0	
Unit 2	30	20	Vankuswadi	0	
Unit 3	210	150	ATIT	0	
Unit 4	210	150	Kale	0	
Unit 5	210	150	Satara	0	
Unit 6	250	0	Shirala	0	
	<b>940</b>	<b>490</b>	K Mahankal	0	
<b>Chandrapur</b>			Supa	0	
Unit 1	210	170	Vita	0	
Unit 2	210	160	Dondaicha	0	
Unit 3	210	210	Sakri	0	
Unit 4	210	80	Nandurbar	0	
Unit 5	500	450	Khadakale	0	
Unit 6	500	440	Khaparale	0	
Unit 7	500	430		<b>0</b>	
	<b>2340</b>	<b>1940</b>	<b>Dabhol</b>		
<b>Paras</b>			RGPPL II	960	890
Unit 2	55	40	RGPPL III	740	0
Unit 3	250	160		<b>1700</b>	<b>890</b>
	<b>305</b>	<b>200</b>	<b>Tata</b>		
<b>Khaparkheda</b>			Trombay 4	150	50
Unit 1	210	175	Trombay 5	500	0
Unit 2	210	175	Trombay 6	500	500
Unit 3	210	175	Trombay 7A	120	120
Unit 4	210	175	Trombay 7B	60	60
	<b>840</b>	<b>700</b>	Trombay 8	250	120
<b>Nasik</b>			TATA Hydro	444	447
Unit 1	120	90		<b>2024</b>	<b>1297</b>
Unit 2	120	0	<b>REL</b>		
Unit 3	210	0	1&2	500	500
Unit 4	210	200		<b>500</b>	<b>500</b>
Unit 5	210	190	<b>Cent Sect</b>		
	<b>870</b>	<b>480</b>	Share	3143	2997
<b>Uran</b>				<b>3143</b>	<b>2997</b>
All Units	852	620			
	<b>852</b>	<b>620</b>			
<b>Koyna</b>					
Stage 1-2	600	600			
Stage 4	1000	250			
Stage 3	320	320			
	<b>1920</b>	<b>1170</b>			
<b>Hydro</b>					