



Maharashtra State Load Despatch Centre

Role of SLDC in RRF Implementation & Issues

By
MSLDC



Regulatory Framework

Eligibility Criteria

- Wind Farms with collective capacity of 10 MW and above.
- Wind Farms connected to transmission or distribution network at voltage level 33 Kv & above.
- Wind Farms connected to distribution network
 - **Responsibility shall be fixed up on distribution licensee for providing online data to SLDC.**
- Wind Farms those have not signed any PPA with states/UTs/DVC or others as on 03.05.2010.
 - **Declaration has to be submitted to SLDC**



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- Wind Farms shall furnish the details of contracts along with price to SLDC for onward submission to RLDC/RPC.
- Special Energy Meters shall be installed by STU/discom at the cost of Wind Farm developers.
- SEM shall be capable of time-differentiated measurements for 15' time block wise active energy and voltage differentiated measurement of reactive energy.
- Wind Farms shall install RTU along with communication facilities to provide visibility of generator parameters to SLDC for real time monitoring.



Responsibility of SLDC

- SLDC of the States/UTs/DVC, in which the wind farm is located, shall provide the 15' block-wise data of schedule and actual generation from wind farm as recorded in the Special Energy Meters to the concerned RLDC and NLDC on a weekly basis in prescribed form.
- SLDC will be responsible to check that there is no gaming by wind generators.
- **Any gaming by wind generator may be identified on the basis of prolonged /continuous misdeclaration.**



Issues.....

- **Maharashtra state ABT mechanism is System Marginal Price based & is different from other state's ABT mechanism.**
- Maharashtra state SMP based Balancing & Settlement mechanism is operational w.e.f. 1st Aug 2011.
- Difference in UI rate & SMP rate needs to be addressed.



Issues.....

- Wind farm selling power out side the state
 - In order to balance the state energy pool (FBSM) the Wind Farms selling power out of the state will have to be treated as ‘State Pool Participants’ (SPP).
 - The payments/receipts to the host state thro’ RRF and UI pool will have to be shown separately by WRPC for state’s weekly UI bill and added to ‘Net UI charges’ (block wise).



Issues.....

- Wind farm selling power inside the state
 - **In Maharashtra state no UI is applicable for Intra-state transactions, settlement is done on actual basis. This has been approved by the state commission.**
 - No need to treat Wind Farm as SPP
 - A separate block wise statement of the payments/ receipts to the host state thro' RRF will have to be issued by NLDC (not to be included in state's UI bill). So that such adjustments can be passed on directly to the buyer in the state.
 - Before implementation of RRF mechanism these issues needs to be addressed for participation of wind generators in Maharashtra state .

Particulars	TPC-D	BEST	MSEDCL	REL-D	Wind	IRSL	JSW	AMNEPL	WPCL	State	Pool Volume
Drawl at T_D	134,356	101,036	2,267,660	188,397	23,920	0	105,248	12,678	62,192	-	2,895,487
Loss Adjusted Schedule Drawl	140,422	105,598	2,370,046	196,903	25,000	0	110,000	13,250	65,000	684,658	3,026,219
Metered Injection	121,087	126,890	1,541,626	119,510							
Central Sector	-	-	752,331	-							
Inter OA Purchase	0	7,422	16,769	28,747							
Inter OA Sale	0	0	0	-15,253							2,267,660
Intra OA Purchase	0	2,300	146,090	48,250							2,267,660
Intra OA Sale	0	0	0	0							
NCER Purchase	12,500	165	-22,665	10,000							
Total Availability	133,587	136,776	2,434,152	191,255	22,000	90	110,328	13,530	65,940	-81,439	3,026,219
Pool Imbalance	-6,835	31,178	64,106	-5,648	-3,000	90	328	280	940	-81,439	0
Imbalance Rate Rs/kWh	2.42	3.02	2.14	2.42	2.42	1.82	1.82	1.82	1.82	2.42	-
Pool Charges	16,525	-94,231	-137,114	13,655	7,253	-164	-598	-510	-1,713	196,895	0
Discom Deviations Net UI - I											
Scheduled Drawl	152,266	127,038	2,425,094	196,555	25,000	-	-	-	-	766,097	2,900,952
Loss Adjusted Drawl	140,422	105,598	2,349,126	196,903	22,000	0	110,000	13,250	65,000	684,658	2,980,299
Net UI - I	11,844	21,440	75,967	-348	-3,000	90	328	280	940	-	-
Allocation	-42,124	-76,255	-270,194	0	0	-320	-1,167	-996	-3,343	-	-394,399
State Generator Deviations Net UI - II											
Instate Scheduled Gen	94,633	99,168	1,327,250	119,500	0	0	110,000	13,250	65,000		1,828,801
Instate actual Injection	96,764	101,401	1,259,798	119,510	0	90	110,328	13,530	65,940		1,767,361
Net UI - II	2,131	2,233	-67,452	10	-	-	-	-	-		-
Allocation	0	0	0	0	-	-	-	-	-		0
Net UI Charges	-42,124	-76,255	-270,194	0	0	-320	-1,167	-996	-3,343		-
Additional UI charges	0	0	0	0	0	0	0	0	0		-
Net Pool Charges	-25,599	-170,486	-407,307	13,655	7,253	-484	-1,764	-1,506	-5,056	591,294	0

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Regional Payments	Gross UI	Pool UI	Net UI	Cap UI	Additional UI	Freq Rate	8.269426239
	591,294	196,895	394,399	98,038	0		



Thank You...
