OCTOBER 26, 2023

Centralized Scheduling Monitoring System (DSM)

Aux Power Consumption Monitoring System (APC)

Manoj Taunk - Adani Power Limited

Raguvendra Singh Dewra - Adani Power Limited

Jimesh Gajera - Cerebulb India

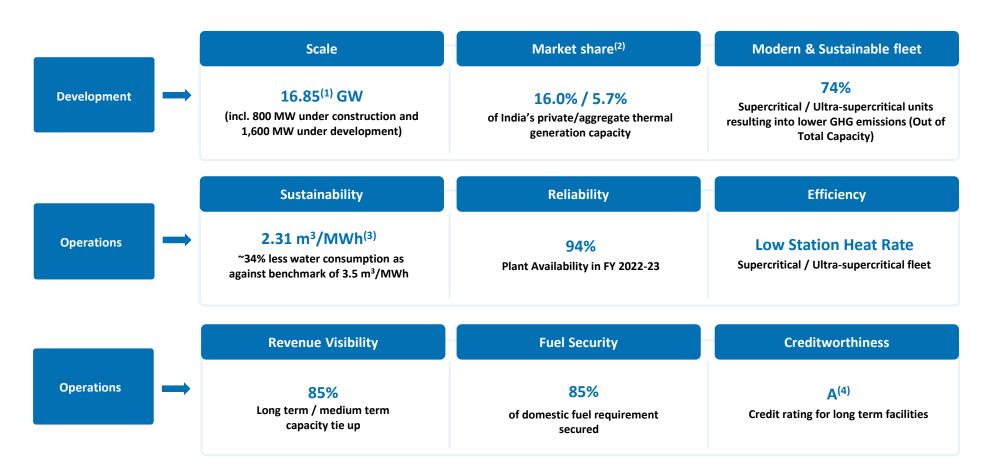


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- Summary & Way forward



APL: Leading private sector power generator

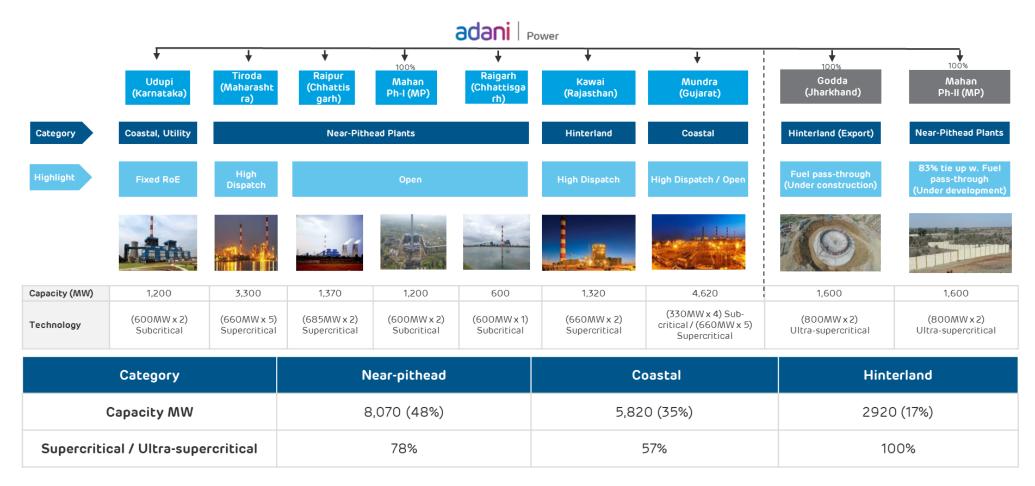


Leading private sector power generator with revenue visibility, fuel security and credibility

(1) Includes 40 MW solar power plant at Bitta, Gujarat (2) APL's operational thermal capacity share; Source: CEA Mar'23 monthly report (3) In FY22-23 for fresh water-based power plants (4) Rating assigned by CRISIL Ratings and India Ratings |GW: Giga Watt; MW: Mega Watt; m3: Cubic meter; MWh: Mega Watt hour; GHG: Green House Gas



APL: Strategically located, diversified operating fleet



16.85 GW capacity under 3 legal entities spread across 9 different locations (14.45 GW operational

APL also has a 40 MW solar power plant at Bitta, Gujarat; GW: Giga Watt; MW: Mega Watt; MP: Madhya Pradesh; RoE: Return on Equity



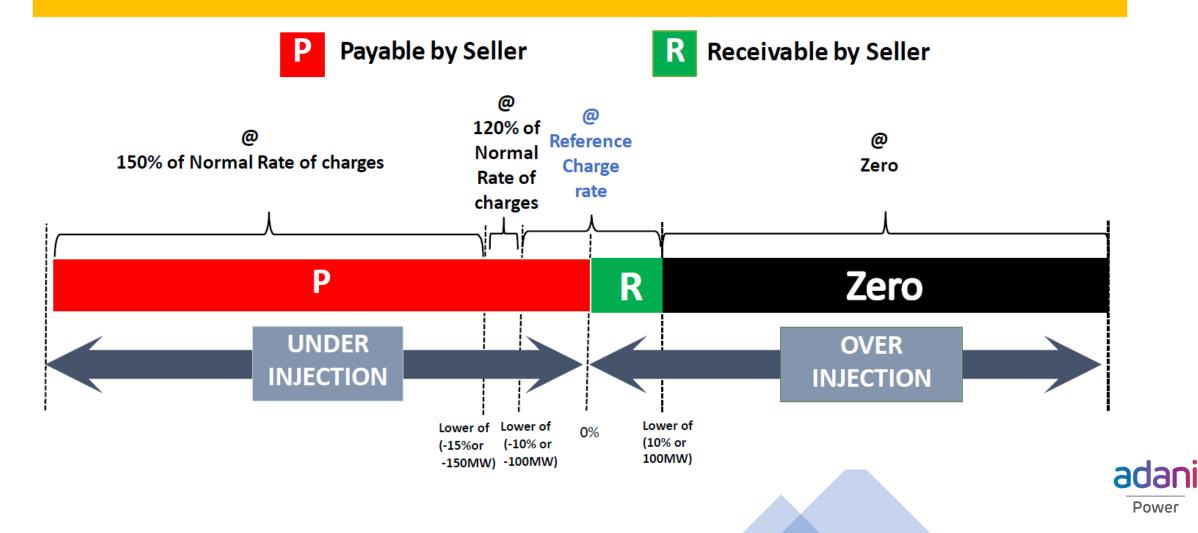


Background of Scheduling and DSM

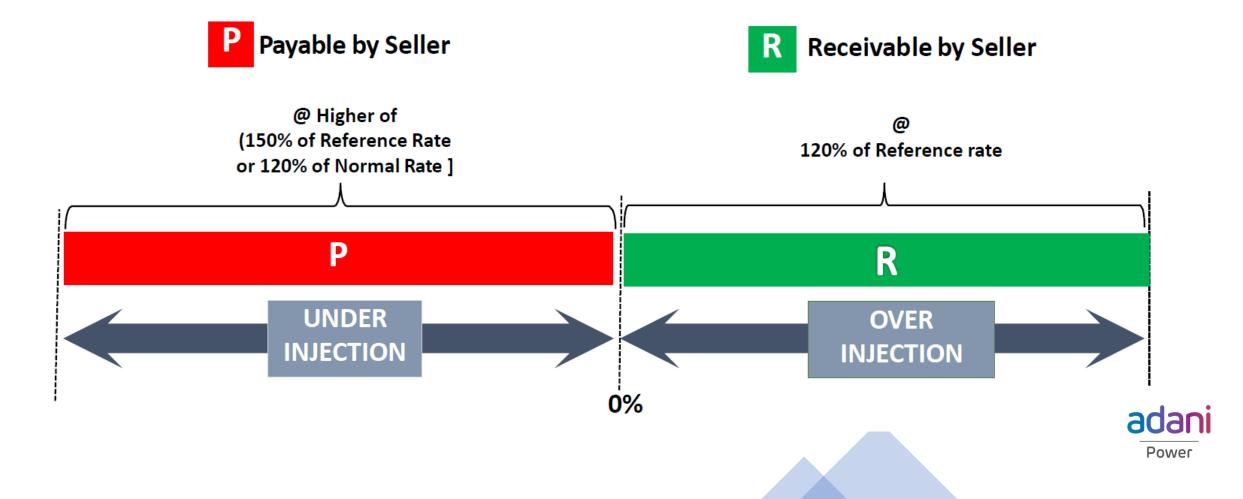
- DC, SG V/s Actual monitoring block by block and its commercial impact, with Deviation rate, Tabular and graphical view.
- Monitoring of schedule V/s actual in 15 minutes IP.
- Monitoring of block-by-block DSM Summary with trend
- Based on Declared Capacity, Schedule Generation is allowed by Dispatch Center (SLDC / RLDC).



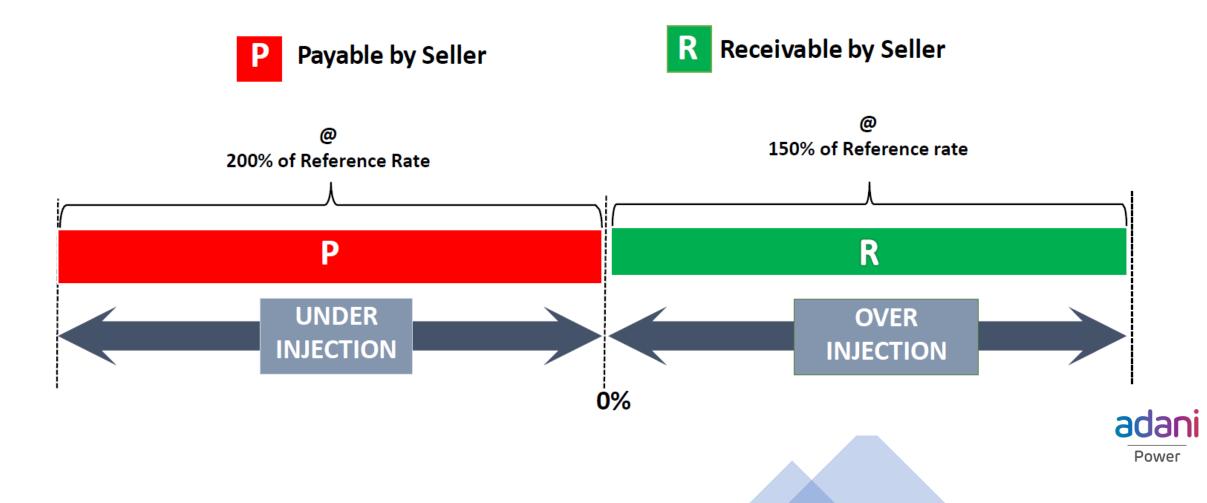
DSM Order Dated 06th Feb 2023 General seller (other than RoR & MSW)(49.95<=f<=50.03)



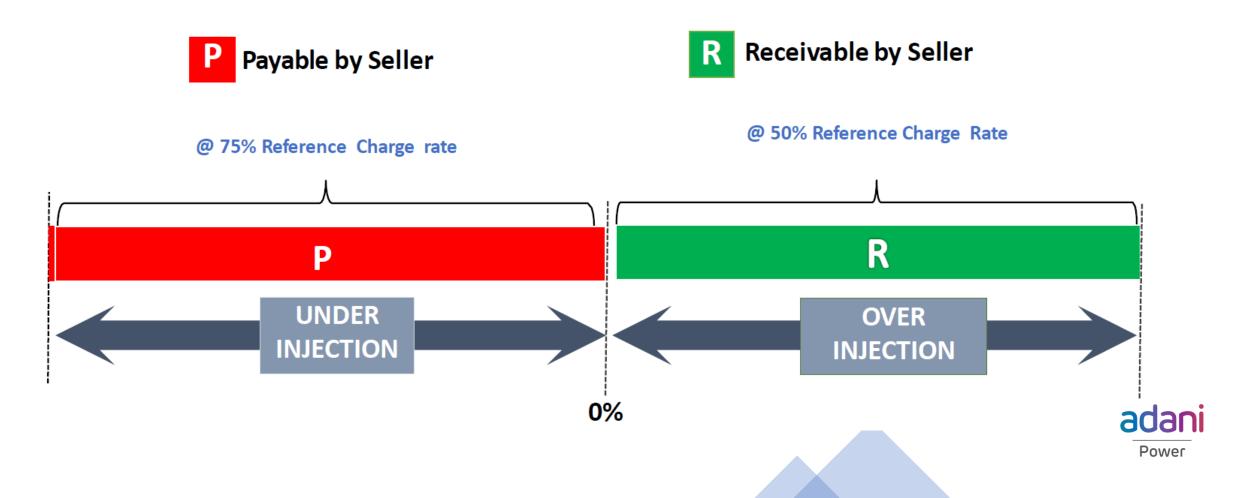
DSM Order Dated 06th Feb 2023 General seller (other than RoR & MSW) (49.90<f<49.95)(Independent of Volume Limits)



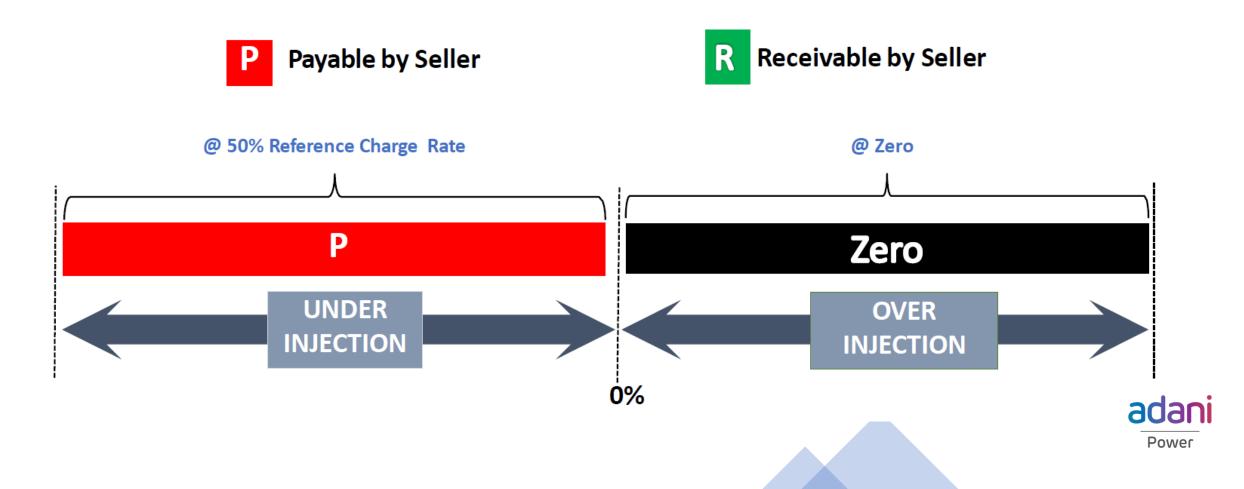
DSM Order Dated 06th Feb 2023 General seller (other than RoR & MSW) (f<=49.90) (Independent of Volume Limits)



DSM Order Dated 06th Feb 2023 General seller (other than RoR & MSW) (50.03<f<50.05) (Independent of Volume Limits)



DSM Order Dated 06th Feb 2023 General seller (other than RoR & MSW) (f>=50.05) (Independent of Volume Limits)



Problem Statement

- Decentralized proprietary software platform at different geographic locations of Thermal Plants
- Plant wise Monitoring healthiness of on-prim servers & installed monitoring software.
- For any amendments in regulation, dependency on third party for changes in software & reports
- Maintaining Multiple licenses and Cyber security compliances for software, database & operating systems

• Decentralized data storage, and difficult to take backup of the data & software versions



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Benefits using AVEVA PI System:

- Standard platform instead of customized proprietary application which decrease the vendor dependency.
- AVEVA PI Platform is Scalable to multiple plants centrally & suitability to incorporate other applications
- For any future expansion / new plants acquisition can be easily integrated with existing systems.





Benefits of AVEVA PI System:

- Easy user management: plant specific and central access of all plants.
- Powerful Asset framework for various logics building.
- The changes / updates in software logics, Graphics & reports can be directly implemented without user interference.

• Easy to manage database backup due to all data are available at central location on GCP.



- DC, SG V/s Actual monitoring block by block and its commercial impact, with Deviation rate, Tabular and graphical view
- Monitoring of schedule V/s actual with elapsed time during the current integration period of 15 minutes, along with asking rate of rise or fall. Table and graphical view.
- Monitoring of block-by-block DSM Summary with trend.
- Real time APC monitoring with YTD, MTD, Yesterday & Best APC trends.
- View of switchyard SLD with parameter selection (V, I, MW, MVAr, PF, Hz)
- Meter communication Status, Meter Display, Group display, NMS monitoring
- Able to display the numeric values online on pointing of the mouse curser on history of graphical trend
- Trend analysis, grid disturbance & data analytics of each elements connected on platform
- Daily, Weekly & Monthly Graphical displays & Reports for plant operation efficiency, commercial analysis & APC trend

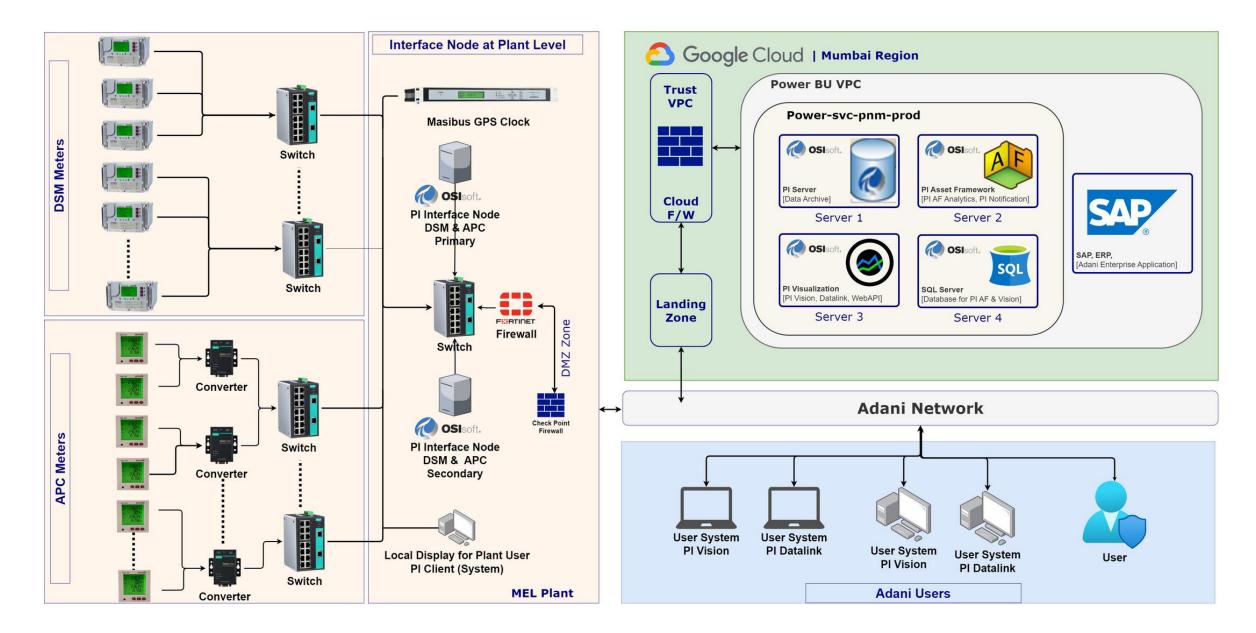
KPI for monitoring in Centralized DSM & APC Monitoring System on AVEVA PI System

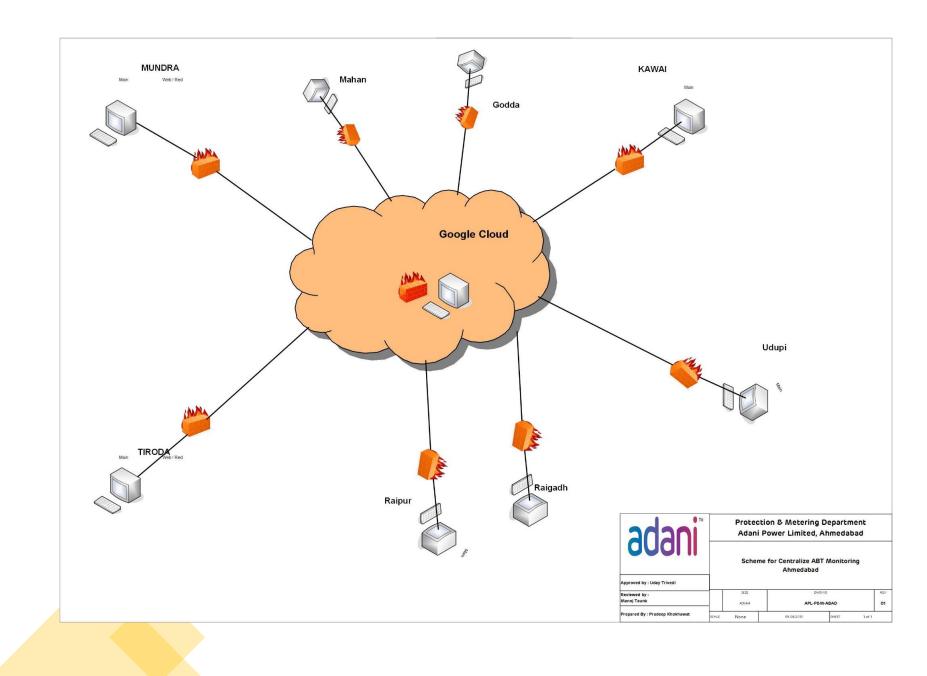


Metering comunication architecture across APL plants



New Implementation Architecture







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MUN	DRA	TIRODA		KAWAI		UDI	JPI
DSM	APC	DSM	APC	DSM	APC	DSM	APC
52	523	31	559	9	337	24	175

RAIF	PUR	RAIG	ARH	MAH	IAN	GODDA		
DSM	APC	DSM	APC	DSM	APC	DSM	APC	
13	148	7	145	19	222	16	249	

ТО	TOTAL							
DSM	APC							
171	2358							

All Thermal Plants Metering Locations integrated



Parameters Integrated into AVEVA PI System

Instantaneous parameters:

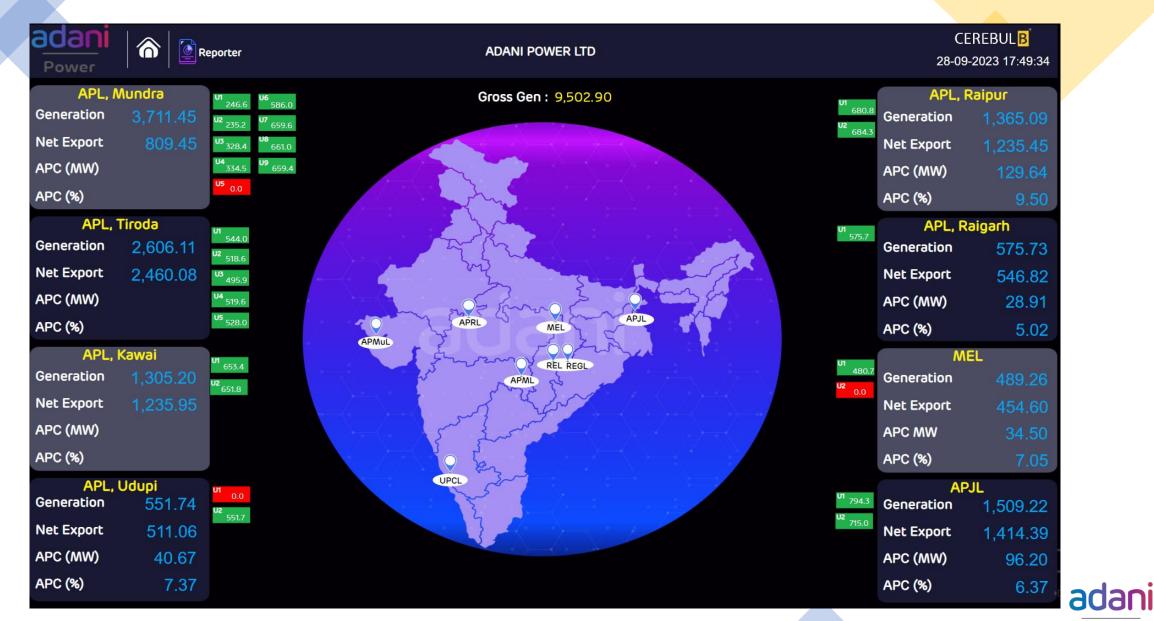
- All Voltages
- All currents
- Power Factor
- Frequency
- Import / Export Power (Active, Reactive & Apparent)

Online monitoring of energy parameters / 15 min block wise

- Active Import & Export Energy
- Reactive Import while active import Energy
- Reactive Export while active import Energy
- Reactive Import while active export Energy
- Reactive Export while active export Energy
- Apparent Import & Export Energy

16-Parameters on Modbus & DLMS Protocol





DSM

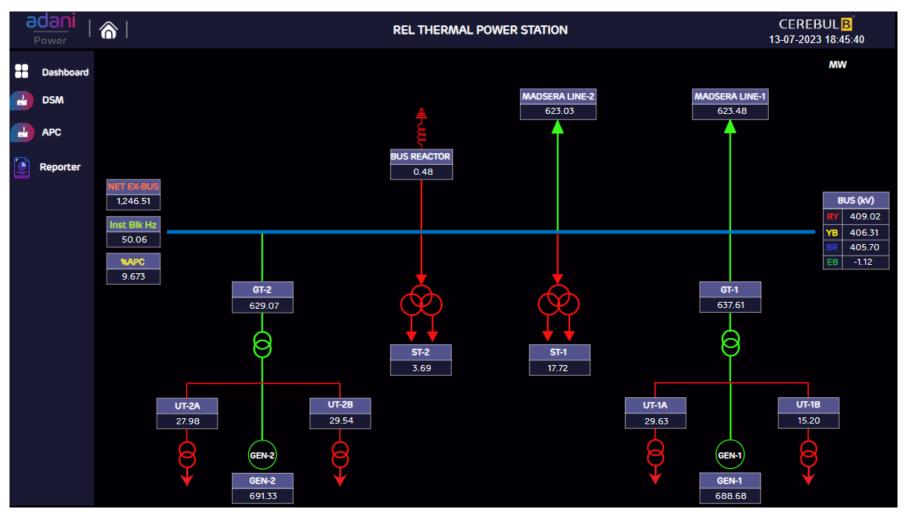
_	dani Power	^			ADANI REL	. DSM S	SUMA	MARY					EBUL <mark>B</mark> 023 18:31:26	
::	Dashboard	Current Blk No.		Previous Block	Current Block	Decision Aspects Current Block (MW)					NW)	Real Time Data		
	DSM	75	Block No.	74	75	For 100	0% SG			1,24	8.46	GEN - 1 (MW)	663.16	
	0.011	Block Time	Revision No.	15	15	Limit O	Operati	on 2% Ove	r Inj	1,41	3.51	GEN - 2 (MW)	667.82	
-	APC	18:30-18:45	Block Time	18:15-18:30	18:30-18:45	Limit O	Operatio	on 2% Und	ler Inj	1,08	33.41	GT - 1 (MW)	613.97	
6	Reporter		DC (MW)	1,144.00	1,244.00	Asking	Asking Rate for 100% SG		46	5.22	GT - 2 (MW)	607.45		
	Time Rem (mm:ss)		SG (MW)	1,144.00	1,244.00			% Over Inj		21	1.27	MADSERA LINE - 1 (MW)	601.02	
		13:33	Backing Down (MW)	wn (MW) 0.00 0.00 Asking Rate 2% Under Inj		nj	-11	8.84	MADSERA LINE - 2 (MW)	601.22				
		Time Elap (mm:ss)	Inst. Ex-bus (MW)		1,202.25			WEB AP	l Status			Cum Upto Last Blo	ck Data	
		01:26	Avg. Ex-bus (MW)	1,152.67	1,201.76	IEX		13	3-07-202	23 18:15:	39	Avg DC (MW)	995.64	
		Jack Dilk Econ (Un)	Dev MW	8.67	-42.24			-				Avg SG (MW)	993.61	
		Inst Blk Freq. (Hz) 50.07	Dev (%)	0.76 %	-3.40 %	PXIL		-	No Data			Avg Backing Down	2.03	
			Avg Freq(Hz)	49.97	50.07	HPX		13	3-07-202	23 18:15:	39	Export (MWh)	17,974.87	
		Avg Bik Freq. (Hz)	Reference Rate	4.300	4.300							Import (MWh)	0.00	
		50.07	Normal Rate	5.90	9.14	Next 6 Bik D	Blocks C	Data SG	Upcomir	na Norma	ACP	Net Export (MWh)	17,974.87	
		Inst Ex-Bus (MW)	Fuel Rate				ที่พัง	(MW)	DAM		HPDAM	Avg Dev. (MW)	-12.25	
		1,202.25	Deviation (Rs)			76 1,24	44.00	1,244.00	7.48	10.00	0.00	Basic Dev. (Lakh)		
			Addl. Deviation (Rs)			77 1,24	44.00	1,244.00	10.00	0.00	0.00	Additional Dev. (Lakh)		
		Avg Ex-Bus (MW)	Total Deviation (Rs)			78 1,24	44.00	1,244.00	10.00	0.00	0.00	Total Dev.(Lakh)		
		1,201.76	Fuel Cost (Rs)			79 1,24	44.00	1,244.00	10.00	0.00	0.00	Fuel Cost(Lakh)		
		Day Avg Freq. (Hz)	Net Gain / Loss (Rs)			80 1,24	44.00	1,244.00	10.00	0.00	0.00	Net Gain / Loss (Lakh)		
		50.00	Total Dev (Rs) / Dev kWh			81 1,24	44.00	1,244.00	10.00	0.00	0.00	Total Dev (Rs) / Dev kWh		

Real Time DSM GUI

- Scheduling team take action based on Real time grid condition
- Operator get an idea of full day insights including previous & current block scenario that they need over injection or under injection



DSM SLD



Single Line Diagram

 Realtime visibility of SLD i.e., all elements connected to Bus (Gen, UT, GT, ST, Lines & Reactors)



	dani Power	@	R	EL PLANT /	APC SUMA	MARY			0	CEREE 7-10-2023	BUL <mark>B</mark> 3 15:27:18	
	Dashboard	1,354.16 mw	49.88 Hz	126.21 MW 9.3				1,227.9		74.12		
	DSM	GROSS GEN	INSTANT FREQUENCY	AUX.PO	AUX.POWER CONS		VER CONS	NET EX-BUS			PLF(%) - YTD	R
	DSIM	Unit Index					Trend				Α	
	APC	PARAMETERS	UNIT - 1	UNIT - 2	TOTAL							
	Reporter	GROSS GENERATION	670.23	683.92	1,354.16	15	9.360 %	9.737 %	10.271 %	9.880 %	9.017 %	• R
Ľ	Reporter	AUX.CONSUMPTION (UT	+ ST) 64.92	63.21	128.13	æ 10		-				C
		AUX.CONSUMPTION (11kV & 3.3kV SWGR FEEDERS)	59.32	63.75	123.07	(%) 10 2d¥ 5						• A
		CALCULATED APC (UT + 3	ST) 9.654 %	9.271 %	9.461 %	o	Day	Yesterday	Month	Year	Best	
		PLF - YTD	75.449 %	72.799 %	74.124 %		,	(cold, coly			YTD - APC	• v
		LOCATION	MW	LOCAT	ION	I	ww	LOCA	TION		MW	р
		GEN_1	670.23	UT_1A			27.23	UT_1B			15.15	
		GEN_2	683.92	UT_2A			26.39	UT_2B		26.75		
		GT_1	622.31	ST_1			17.54	LINE_1		613.71		
		GT_2	625.52	ST_2			4.26	LINE_2	2		614.23	

Real Time Visibility of APC

- Realtime Auxiliary Power
 Consumptions summary view
- APC Trend with Best YTD figures
- Visibility of Plant Load Factor percentage



APC - Unit Aux Group

dani Power	a	REL UN	NIT AUX GROUP			EREBUL B 0-2023 15:30:48	
Dashboard	SYSTEM	UNITS	UNIT-1	UNIT-2	TOTAL	APC(%)	
DSM	GROSS GENERATION	MW	672.29	679.54	1,351.83		
 APC	DRAFT SYSTEM	ĸW	15,591.79	11,171.03	26,762.82	1.979 %	
Reporter	COAL MILL SYSTEM	ĸW	3,355.85	2,454.11	5,809.96	0.430 %	
Reporter	STEAM CYCLE	ĸW	26,129.65	28,004.82	54,134.47	4.002 %	Un
	COOLING CYCLE	ĸW	7,631.16	7,764.59	8,456.10	0.625 %	• Re
	ESP SYSTEM	ĸW	1,721.35	2,329.52	4,050.87	0.299 %	со
	UNIT SERVICE TRAFO SYSTEM	ĸW	691.51	771.55	1,463.06	0.108 %	
	SPARE MOTOR FEEDERS	ĸW	-0.02	0.05	0.02	0.000 %	
	SPARE TRAFO FEEDERS	ĸW	0.00	0.00	0.00	0.000 %	
	TOTAL	MW	55.12	52.50	100.66	7.443 %	

Jnit Auxiliary Group

• Realtime visibility of unit auxiliary consumption



APC - Common Aux Group

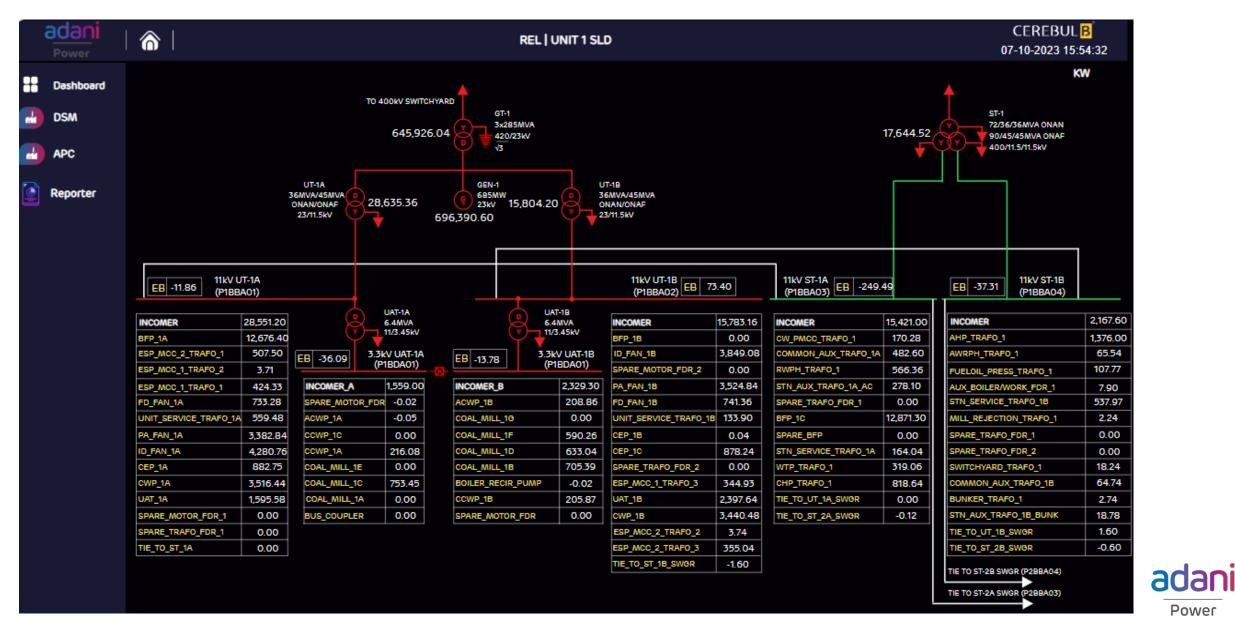
adar Power		REL COMMON AUX GROUP)		REBUL <mark>B</mark> -2023 15:47:06
Dashl	board	System	Units	Total	APC (%)
		Gross Generation	MW	1,376.46	-
DSM	1	Coal Handling Plant	ĸW	2,265.82	0.165 %
APC		ASH Handling Plant & ASH Water Recovery Pump House	ĸW	1,124.66	0.073 %
🙆 Repor	orter	Raw Water Pump House & Water Treatment Plant	ĸW	1,264.62	0.092 %
		Compressor System	ĸW	610.59	0.044 %
		Station Service Trafo	ĸW	1,116.29	0.081 %
		Common Aux Trafo	ĸW	1,173.73	0.085 %
		CW PMCC Trafo	ĸW	233.99	0.017 %
		Fuel Oil Trafo	ĸW	144.45	0.010 %
		Aux Boiler Trafo	ĸW	7.90	0.003 %
		Switchyard Trafo	ĸW	36.21	0.001 %
		Spare Trafo feeders	ĸW	568.51	0.041 %
		Total	MW	8.66	0.612 %

Common Auxiliary Group

• Realtime visibility of common auxiliary consumption



APC SLD



Power

GCP servers utilization by AVEVA PI System



Power

Interface communication status

Interface Name			10.150.208.208		10.150.208.209	
DSM_MB_GEN_1_N		1	0 Good	5	0 Good	\bullet
DSM_MB_GEN_2_N		14	0 Good	3	0 Good	\bullet
DSM_MB_KEMAR_LINE_1_N		2	0 Good	2	70 Error Zero devices are currently communicating with the interface.	\bullet
DSM_MB_KEMAR_LINE_2_N		4	0 Good	8	0 Good	\bullet
DSM_MB_HASSAN_LINE_1_N		9	0 Good	13	0 Good	\bullet
DSM_MB_HASSAN_LINE_2_N		8	0 Good	12	0 Good	\bullet
DSM_MB_KASARGODE_LINE_1_N		9	70 Error Zero devices are currently communicating with the interface.	2	70 Error Zero devices are currently communicating with the interface.	
DSM_MB_KASARGODE_LINE_2_N		6	70 Error Zero devices are currently communicating with the interface.	3	70 Error Zero devices are currently communicating with the interface.	
DSM_MB_UAT_1A		14	0 Good	15	70 Error Zero devices are currently communicating with the interface.	\bullet
DSM_MB_UAT_1B		10	0 Good	13	0 Good	\bullet
DSM_MB_ST_1		4	0 Good	9	70 Error Zero devices are currently communicating with the interface.	\bullet
DSM_MB_UAT_2A		10	0 Good	14	0 Good	\bullet
DSM_MB_UAT_2B	•	12	0 Good	2	0 Good	\bullet
DSM_MB_ST_2		2	0 Good	4	0 Good	\bullet
DSM_MB_GT_1		15	0 Good	13	0 Good	\bullet
DSM_MB_GT_2		13	0 Good	13	70 Error Zero devices are currently communicating with the interface.	\bullet
DSM_HV_ICT_1		1	0 Good	10	0 Good	\bullet
DSM_HV_ICT_2		14	0 Good	2	0 Good	\bullet
DSM_LV_ICT_1		5	0 Good	13	0 Good	\bullet
DSM_LV_ICT_2		6	0 Good	4	0 Good	\bullet
DSM_BUS_REACTOR_1		7	70 Error Zero devices are currently communicating with the interface.	9	0 Good	\bullet
DSM_BUS_REACTOR_2		14	70 Error Zero devices are currently communicating with the interface.	1	0 Good	\bullet
DSM_BUS_SECTION_1		2	70 Error Zero devices are currently communicating with the interface.	15	70 Error Zero devices are currently communicating with the interface.	
DSM_BUS_SECTION_2		4	70 Error Zero devices are currently communicating with the interface.	14	70 Error Zero devices are currently communicating with the interface.	
APC_6.6kV_UAT_1A_L1		14	70 Error Zero devices are currently communicating with the interface.	14	36 Error 3 device(s) failed all of their retries while requesting data.	\bullet
APC_6.6KV_UAT_1B_L1	lr	tf Sh	ut99 Intf Shutdown	15	35 Error 3 device(s) failed all of their retries while requesting data.	\bullet
APC_6.6kV_UAT_2A_L1		7	34 Error 2 device(s) failed all of their retries while requesting data.	10	70 Error Zero devices are currently communicating with the interface.	\bullet
APC_6.6KV_UAT_2B_L1		1	34 Error 2 device(s) failed all of their retries while requesting data.	10	70 Error Zero devices are currently communicating with the interface.	\bullet
APC_11KV_ST_1A_L1		11	0 Good	13	38 Error 5 device(s) failed all of their retries while requesting data.	\bullet
APC_11KV_ST_1B_L1		8	40 Error 3 device(s) failed all of their retries while requesting data.	12	70 Error Zero devices are currently communicating with the interface.	\bullet
APC_11KV_ST_2A_L1		3	70 Error Zero devices are currently communicating with the interface.	14	41 Error 7 device(s) failed all of their retries while requesting data.	\bullet
APC_11KV_ST_2B_L1		2	70 Error Zero devices are currently communicating with the interface.	11	37 Error 2 device(s) failed all of their retries while requesting data.	

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DSM Analysis Report for Users for performance monitoring

From Date		09-07-2023		Total SG (MU)	20.001		Net exp/SG %	0.989
To Date		10-07-2023		Net EXP (MU)	19.774		Gross UI(Rs.Lakhs)	
Report Gen time		14-07-2023 10:32		Total UI (MU)	0.227		Profit(+)/Loss(-) (Rs. Lakhs)	
		Freq.	Normal Rate	Ref. Charge.	Basio Chrgs & Add. Dev.			
Date	Bik	(Hz)	(Rs/kWh)	(Rs/kWh)	Sohedule (MW)	Injection (MW)	Deviation (MW)	Dev (%)
09-07-2023 00:15	1	49.98	4.24	2.94	1143.95	1167.15	23.20	2.03%
09-07-2023 00:30	2	49.96	4.24	2.94	1043.25	1074.17	30.92	2.96%
09-07-2023 00:45	3	49.96	4.10	2.94	943.25	945.47	2.22	0.24%
09-07-2023 01:00	4	49.96	4.00	2.94	843.25	842.42	-0.83	0.10%
09-07-2023 01:15	5	49.99	4.00	2.94	885.25	884.39	-0.86	0.10%
09-07-2023 01:30	6	50.00	4.10	2.94	914.25	924.50	10.25	1.12%
09-07-2023 22:45	91	50.03	9.00	2.94	1243.95	1156.53	-87.42	7.03%
09-07-2023 23:00	92	50.02	9.00	2.94	1243.95	1152.15	-91.80	7.38%
09-07-2023 23:15	93	50.05	10.00	2.94	1243.95	1150.86	-93.09	7.48%
09-07-2023 23:30	94	50.05	6.51	2.94	1243.95	1150.29	-93.66	7.53%
09-07-2023 23:45	95	50.03	6.50	2.94	1243.95	1148.71	-95.24	7.66%
10-07-2023 00:00	96	50.06	5.60	3.58	1243.95	1146.69	-97.26	7.82%
		50.00	0.00	8.24	80005.04	79095.34	-0.23	0.02



APC Report for analysis & comparison of Unit Auxiliary Loads for ease of decision making for taking preventive / corrective actions

APJL AUXILIA	RY POWER CO	INSUMPTION REPORT	Date:	From	05-10-2023 00:30	То	06-10-2023 00:00			
11kV / 6.6kV \$		* All Values are in MWh		I	UNIT AUXILIAR	Y CONSUM	PTION			
		* All values are in Mivin	UNIT-1	1	UNIT	-2	TOTAL			
BOA	RUS	GROSS GENERATION	14399.4	6	13859.	22	28258.67			
11kV UT-1A	400.04	% PLF	75.00%	;	72.18%		73.59%			
11kV UT-1B	234.70	% APC (GEN - GSUT - COLONY FEEDERS)	6.99%		6.54	%.	6.77%			
		% APC STATION (GEN - LINES - COLONY FEEDERS)			6.	83%				
11kV UT-2A	310.71	NET LINE EXPORT	Bogura-1	13171.46	Rohanpur-2	13149.31	26320.77			
11kV UT-2B	329.49	NET GSUT EXPORT	GSUT-1	13380.26	GSUT-2	12958.03	26338.29			
		APC MWh (GEN - GSUT - COLONY FEEDERS)	1007.1	7	906.6	6	1913.84			
6.6kV UAT-1A	54.12	DRAFT SYSTEM	314.59	2.18%	258.89	1.87%	573.48	2.03%		
6.6kV UAT-1B	54.39	COAL MILL SYSTEM	51.47	0.36%	51.41	0.37%	102.88	0.36%		
		STEAM & COOLING CYCLE	217.57	1.51%	303.93	2.19%	521.50	1.85%		
6.6kV UAT-2A	48.92	ESP SYSTEM	49.72	0.35%	52.38	0.38%	102.10	0.36%		
6.6kV UAT-2B	63.32	UNIT SERVICE TRAFO	20.64	0.14%	19.54	0.14%	40.18	0.14%		
		SPARE FEEDERS	0.00	0.00%	0.00	0.00%	0.00	0.00%		
11kV ST-A	105.43	FGD SYSTEM	71.15	0.49%	48.55	0.35%	119.70	0.42%		
11kV ST-B	88.87	TRANSFORMATION LOSSES (GSUT+UT+ET)	66.04	0.46%	59.84	0.43%	125.88	0.45%		
		COMMON AUXILIARIES (APP)	112.64	0.78%	108.41	0.78%	221.05	0.78%		

Adani Power implements centralized scheduling and monitoring system for data-centric decision making

Challenge

- Decentralized proprietary software platform at different geographic locations of Thermal Plants
- Multiple licenses and Cyber security compliances for software, database & operating systems
- Decentralized system made it difficult to store, retrieve and analyze data.
- Multiple third-party systems required for changes in software and reports.

Solution

• Centralized Scheduling Monitoring System (DSM) Auxiliary Power Consumption Monitoring System (APC) to streamline data collection, access, analysis, and reporting

Results

- Centralized monitoring and analysis of all thermal plants on one platform.
- DSM provides data-centric and real-time decision making, reducing commercial losses and optimizing profitability.
- Improved Plant efficiency with real time as well as historical data



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Power



Way Forward

- ENOC for Asset performance management (migration from conventional system) Adani Thermal Plats.
- Asset health performance of primary equipments Adani Energy Solutions ltd
- Usage by other Business verticals in Adani Group
- Common talent expertise in development.



Questions?

Please wait for the microphone. State your name and company.



Please remember to...

Navigate to this session in the mobile app to complete the survey.

Thank you!





Associate Vice President

- Adani Power Limited
- Manoj.taunk@adani.com



Raguvendra Singh Dewra

Sr. Manager- Metering

- Adani Power Limited
- <u>Raguvendral.dewra@adani.com</u>





Jimesh Gajera

CTO

- Cerebulb India (Pvt) Limited
- jimesh.gajera@cerebulb.com

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