



REAL TIME MONITORING OF DSM CHARGES

Kreate Technologies brings a revolutionary solution for the power sector with an aim to bring in more accountability and efficiency in power generation. Our RealGen software is an integrated solution which helps power generating companies (Gencos) in load balancing, managing power schedules, maximizing revenues and avoiding grid penalties. Some of the thermal generating stations are able to reduce the DSM penalties and maximize the revenue under DSM limits after implementation of RealGen Software.

The key feature of this software is to keep balance between real-time power generation and schedule.

KEY FEATURES :



Real-Time Dashboard

Displays complete data of the generator in real time including auxiliary consumption, scheduled vs injected power, average frequency, DSM rate etc.



DSM Calculation Sheet

To reconcile DSM Charges with grid, complete calculation of DSM charges (15 minutes block wise) will be calculated and published.



Revenue Calculation

Online calculation of total savings based on total scheduled and total Injected energy (MUs), total receivable and payable DSM amount, total fuel cost etc. till the previous time block for a day.



Auxiliary Consumption Calculation

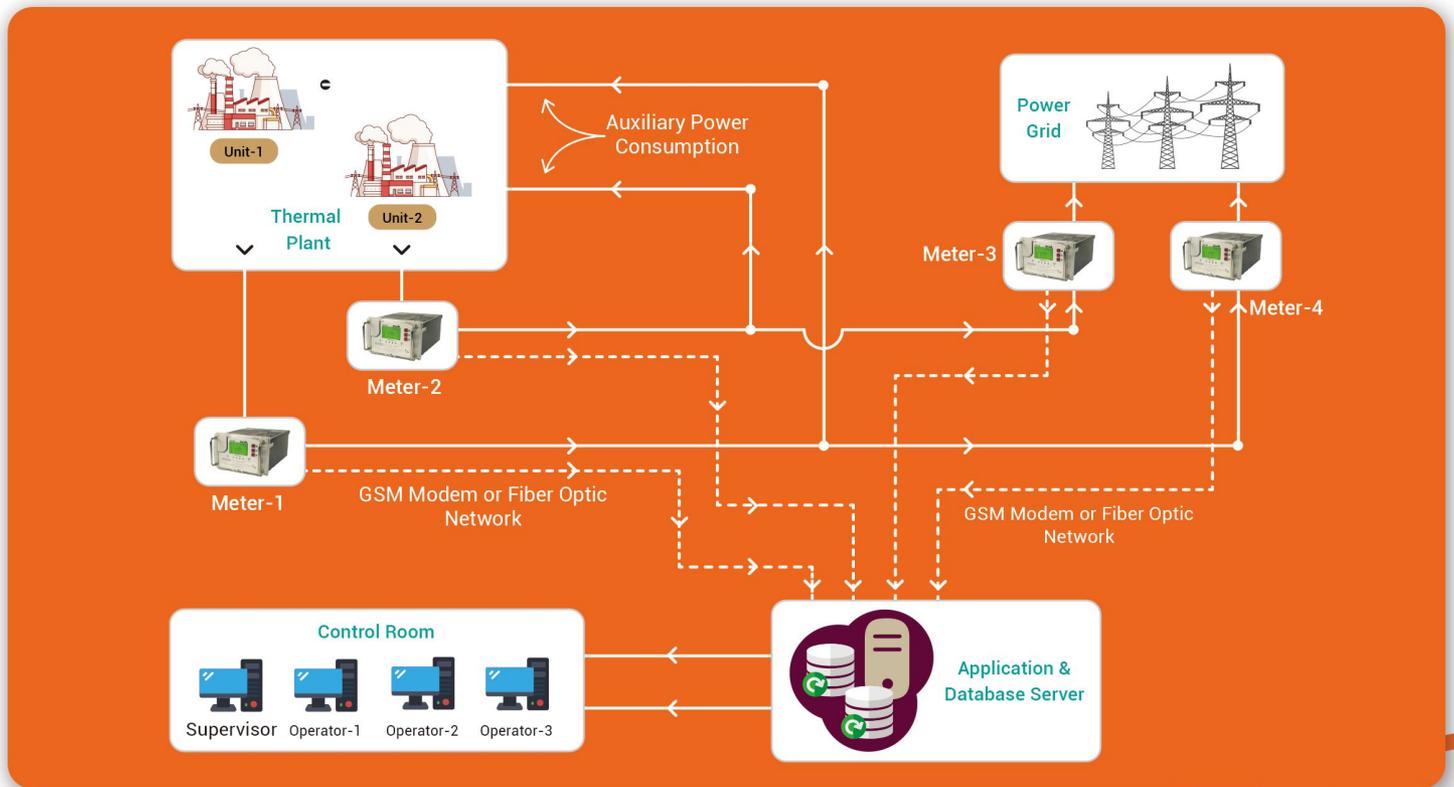
Plant's Auxiliary consumption graph in 15 minute block time.



Real Time Metering Status

Real time monitoring on data fetching from meters.

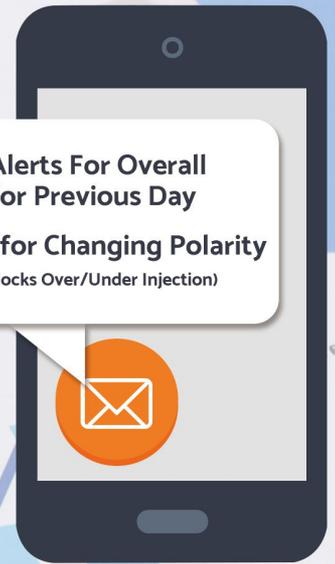
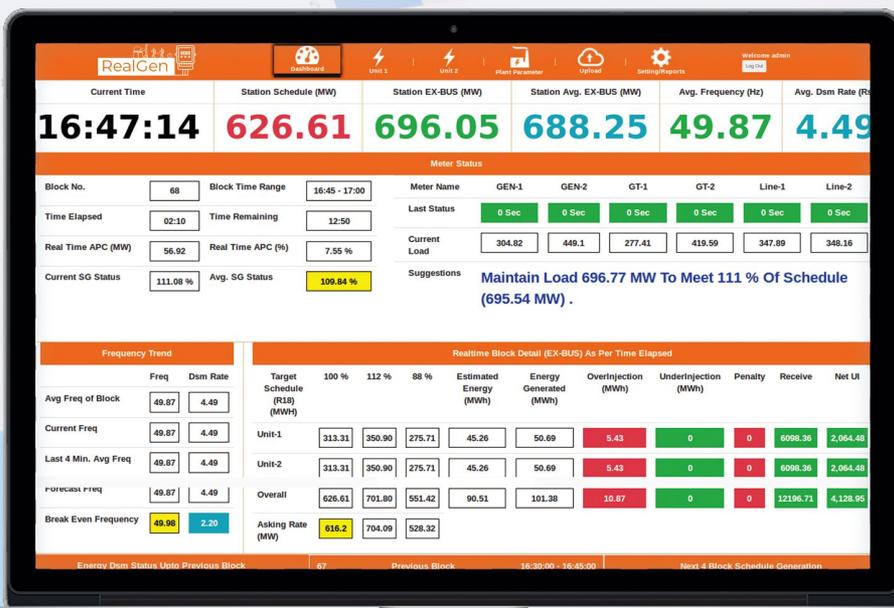
SOLUTION ARCHITECTURE



Meter Specification: 0.2s Class ABT Based Meters
(Real Time Data interval of minimum 5 Seconds)*

DASHBOARDS

- Daily SMS Alerts For Overall DSM Data for Previous Day
- SMS Alerts for Changing Polarity (Consecutive 12 blocks Over/Under Injection)



RealGen SOFTWARE REPORTS



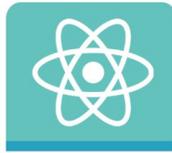
DSM REPORT

Block wise details of total DSM (Payable/Receivable), ADSM Amount, Total DSM Savings etc. for any date range.



AUXILIARY CONSUMPTION REPORT

Block wise Auxiliary Consumptions (In MWs) for all the generators for any date range.



REACTIVE CONSUMPTION REPORT

Block wise Reactive Consumption for Each Generators and Each Lines for any date range.



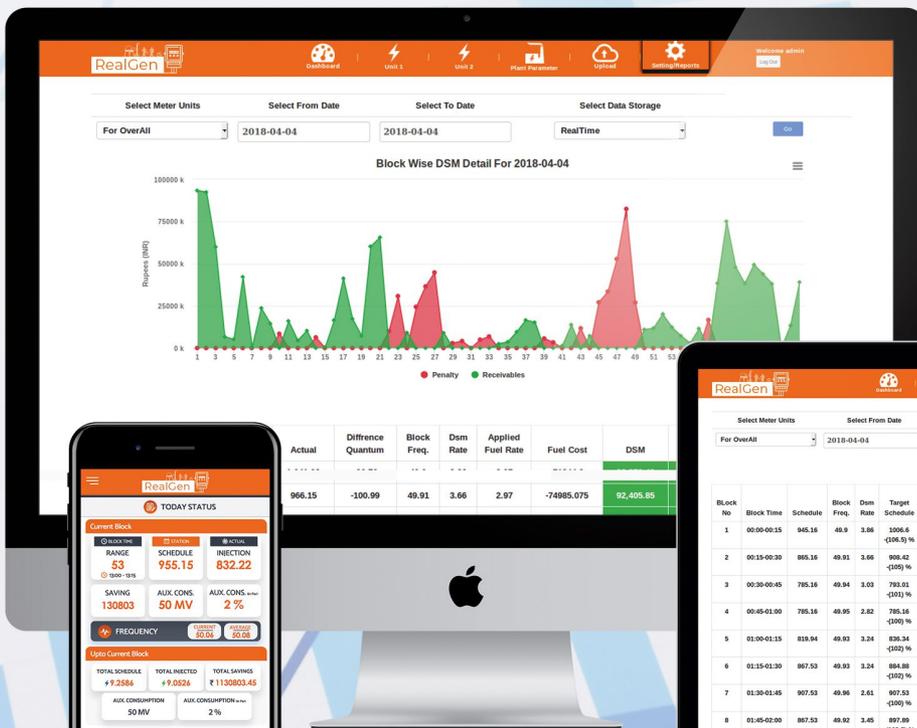
VOLTAGE REPORT

Displays Phase & Line wise Voltage (KV) for each block based on Frequency for any date range.

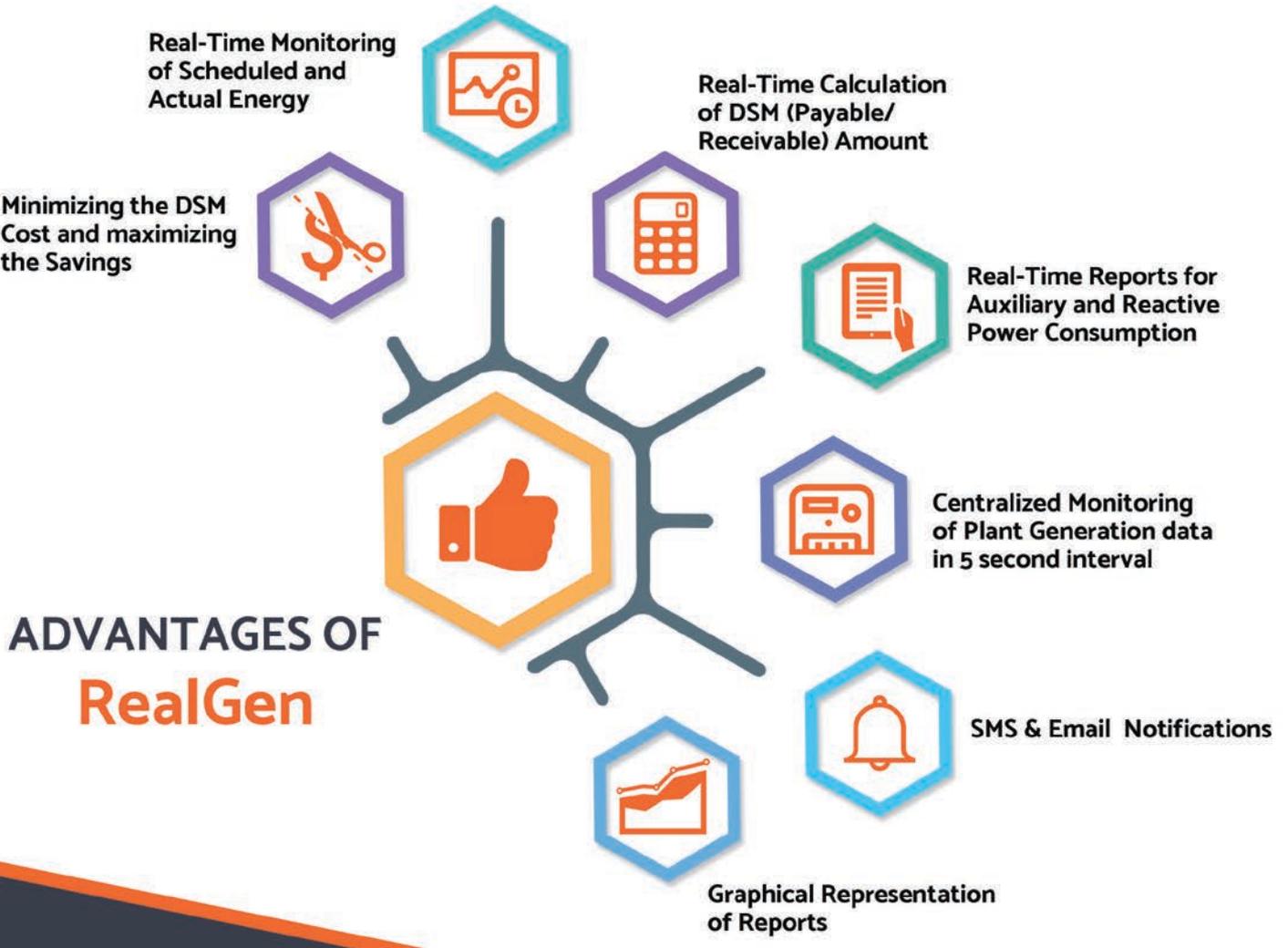


OPPORTUNITY COST REPORT

Displays Estimated DSM, Actual DSM, Penalties/Incentives etc. for each time block for any date range.



Block No	Block Time	Schedule	Block Rate	Target Schedule	Actual	Difference Quantum	Applied Fuel Rate	Fuel Cost	Estimated Fuel Cost	Max. Profit Allowed	Penalty / Incentives	Estimated Net Ltr Earning
1	00:00-00:15	945.16	49.9	3.66	1006.6	1,041.92	-66.76	2.97	-71844.3	-45619.2	59269.6	93,372.45
2	00:15-00:30	895.16	49.91	3.66	908.42	966.15	-100.99	2.97	-74985.075	-32220.35	39962.9	7482.35
3	00:30-00:45	785.16	49.94	3.03	793.03	864.26	-79.1	2.97	-58731.75	-5828.625	5946.38	69,018.23
4	00:45-01:00	785.16	49.95	2.82	785.16	794.62	-8.46	2.3	-5426.5	0	0	6,609.30
5	01:00-01:15	838.94	49.93	3.24	836.34	826.37	-6.43	2.97	-4774.275	-12177	13284	5,208.30
6	01:15-01:30	897.53	49.93	3.24	884.88	938.56	-52.03	2.97	-39932.275	-12882.375	14093.5	42,144.30
7	01:30-01:45	907.53	49.96	2.61	907.53	908.28	-6.75	2.3	-431.25	0	0	489.39
8	01:45-02:00	897.53	49.92	3.45	897.89	894.98	-27.45	2.97	-30381.625	-22542.3	28185.5	23,076.63



OUR POWER SECTOR CLIENTS



.Kreate Technologies

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