TOBACCO INDUSTRY

KIO (Klemsan Internet Objects) Platform Case Studies



By the implementation of KIO Platform, a major player in tobacco industry is not only being protected from fire but also it is increasing efficiency !

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As one of the most important producers of tobacco industry, the company supports high quality tobacco production with its continuous investment philosophy.

The company's main goal while implementing KIO platform in its facilities was to monitor and minimize energy consumption and to set up a compensation monitoring system. In addition to these main benefits, thanks to KIO, they were able to detect a short circuit-related problem in the compensation board, replaced the defective product and eventually eliminated the risk of fire.



AIM OF THE PROJECT

To monitor the energy consumption values in real time for the purpose of taking precautions in advance.

► To keep track of the water meter instantly and continuously, during working time, downtime and holidays.

- ▶ To make an automatic compensation control instead of manual one.
- ► To observe the battery status of forklifts in charging stations.
- To continuously monitor ambient temperature and humidity for healthy storage conditions.

Solution: KIO Basic Module, Klemsan Rapidus Reactive Power Control Relay

Benefits:

- The process of noting the indices on the papers by visiting the electricity meters one by one is eliminated. Hence, half-day labor savings were achieved. Besides, thanks to the mail and alarm warning system, interventions can be done quickly.
- Excess use of electricity and water is prevented on a large scale.
- With the help of Rapidus Reactive Power Control Relay, life of the capacitors are monitored. is used to monitor capacitor life. By following the number of switches for each step, the adhesion of contactors is prevented. Thus, KIO platform also provides support for preventive maintenance.



KIO DASHBOARDS FOR THE TOBACCO COMPANY

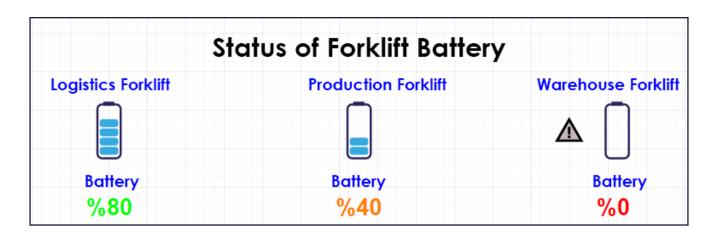
		armonic Step	/D (2424865) Info Alarm Reactive Rate					
			Alarmi Reactive Rate					
Active Passive Constant Not Using Steps								
Nr	State	Туре	Switching Count	Operating Time	Step Power (kVAr)	Estimated Power (kVAr)		
1	•	C3	9,430	289 Day 6 Hour 53 Minute(s)	6.1	2.5 (40.8%		
2	•	C1-2	824	1 Day 19 Hour 37 Minute(s)	13.3	0.0 (0%		
3	•	с	15,297	178 Day 5 Hour 43 Minute(s)	9.1	5.0 (54.9%		
4	•	с	4,436	78 Day 13 Hour 41 Minute(s)	38.8	0.0 (0%		
5	•	с	6,324	217 Day 19 Hour 39 Minute(s)	51.0	50.7 (99.5%		
6	•	с	11,192	195 Day 8 Hour 19 Minute(s)	50.3	24.9 (49.5%		
7	•	C1-2	15	13 Minute(s)	48.2	48.2 (100.0%		
8	•	с	6,326	117 Day 17 Hour 13 Minute(s)	59.1	58.6 (99.2%		
9	•	C1-2	1,057	18 Hour 23 Minute(s)	21.4	23.1 (100.0%		
10	•	с	2,249	31 Day 6 Hour 31 Minute(s)	81.9	85.1 (100.0%		
11	•	с	661	22 Hour 5 Minute(s)	99.1	0.0 (0%		
12	•	C1-2	116	1 Hour 18 Minute(s)	23.0	23.2 (100.0%		

Instant consumption information received from water meters has prevented extraordinary consumption.

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	🚠 Organization	WATER METER (1681230)					
	Live Passive No Communication A Has Alarm	Index Values Alarm					
8	Search Collapse All Expand All	Last Index Value				Auto Refresh 🔽	
	BRITTERY CHARGE STATION BRIGATION, WATER METER FOR ECO26DS	Description 0	Read Date Time	Total Raw Index	Total Index	Unit	
	WAREHOUSE4 ENERGY ANALYSER	WATER METER	11:05:26	186,608.0	212,641.5	m ³	
	HQ BURLDING				- 1	-	
	HQ BUILDING WITTER METER PRODUCTION LIGHTING						
	PRODUCTION OFFICES SOCIAL FACE/THES	Daily Consumptions					
	BOILER ROOM	60					
	GOOM NEXT TO LAB SOCIAL FACEJTES WATER METER		, Jan4, 2019 Imption: 49.5				
	TOTAL	50					
	TRI-GENERATOR						
	TR3-EC02 MAIN DIST.	40					
	HUMICHTY METER	30					
	FIRE PUMP STATION EXTRA WORKING COUNTER			~			
	- SOFT WATER	20			1		
	CONDERSTANK SUPPLY						
	WACUUM COOLING TOWERS	10			<u> </u>		
	VICCUUM AND VAPORTUNNELS						
		0		``	· · · · ·		
		26.Dec 28.Dec 30.Dec 1.Jan 3.	Jan 5. Jan 7. Jan 9. Jan	11. Jan 13. Jan 15. Jan 1	17. Jan 19. Jan 21. J	Jan 23. Jan	



The scope of the project is to be expanded so that, with the help of KIO, the status of the batteries in the forklift charging stations will be monitored. The battery life will be extended and the efficiency will be increased with a longer-term use of forklifts.





Visit our website for detailed info !

Kızılüzüm Mahallesi Kemalpaşa Kızılüzüm Cad. No:15 - 35730 Kemalpaşa - Izmir / TURKEY Tel: (+90 232) 877 08 00 - Fax: (+90 232) 877 08 06

