SCHNEIDER SCADA

REAL TIME SINGLE-LINE DIAGRAM EXAMPLE



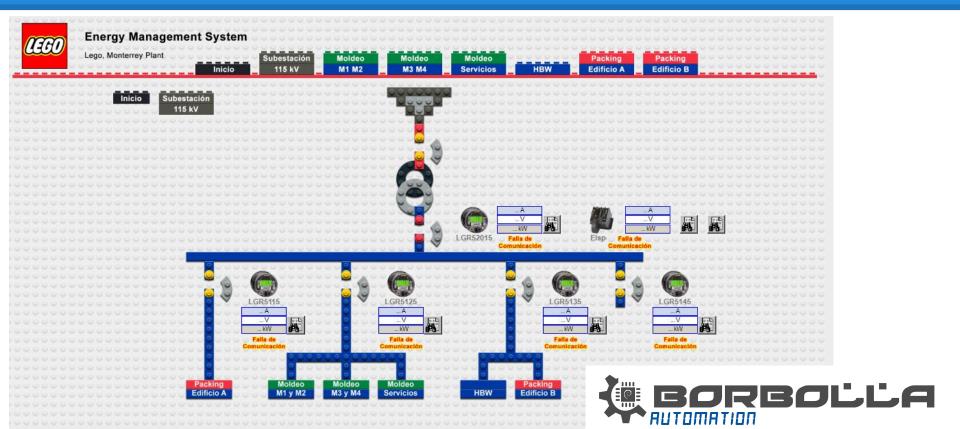
LEGO



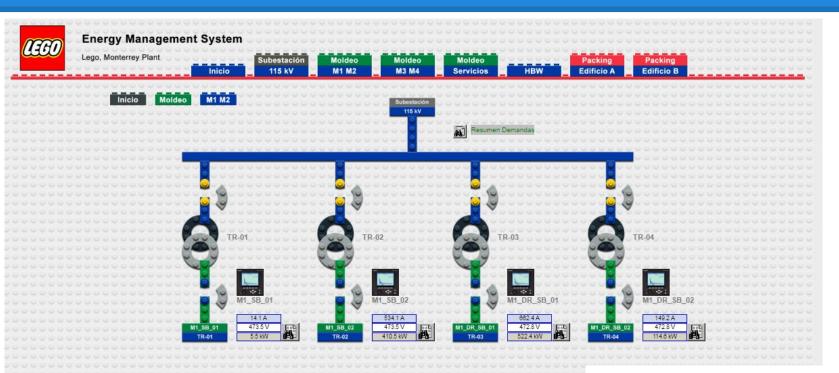
MAIN



SUBSTATION 115 kV

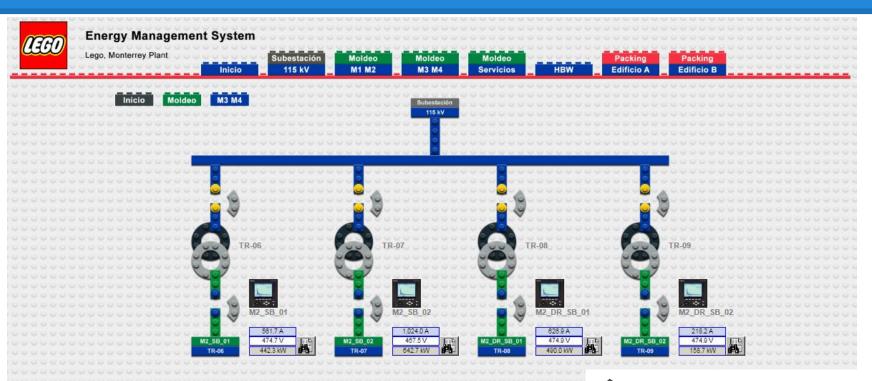


M1 M2





MOLDING M3 M4

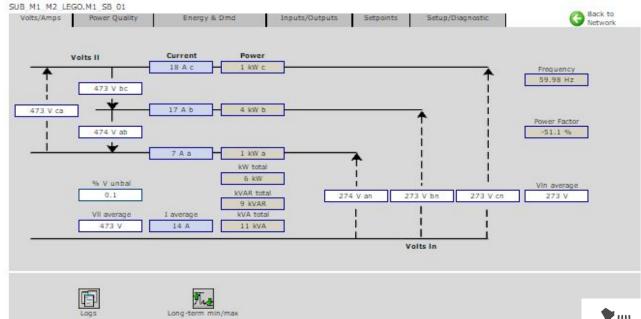




DETAIL



PowerLogic ·· ION Enterprise ··





TIMESTAMP

SUB_M1_M2_LEGO.M1_SB_01

Device Diagram Change Date Range Show Graph

Timestamp	P	Q	Real Energy Into the Load
11/30/2016 4:10:00.000 PM	7.047	10.201	659,531.625
11/30/2016 4:05:00.000 PM	6.554	9.952	659,531.063
11/30/2016 4:00:00.000 PM	6.621	10.127	659,530.500
11/30/2016 3:55:00.000 PM	6.682	10.284	659,529.938
11/30/2016 3:50:00.000 PM	7.104	10.355	659,529.375
11/30/2016 3:45:00.000 PM	6.665	9.976	659,528.813
11/30/2016 3:40:00.000 PM	6.606	9.979	659,528.250
11/30/2016 3:35:00.000 PM	6.741	10.127	659,527.688
11/30/2016 3:30:00.000 PM	6.689	10.199	659,527.125
11/30/2016 3:25:00.000 PM	6.878	10.099	659,526.563
11/30/2016 3:20:00.000 PM	6.541	9.946	659,526.000
11/30/2016 3:15:00.000 PM	6.551	10.076	659,525.438
11/30/2016 3:10:00.000 PM	6.985	10.309	659,524.875
11/30/2016 3:05:00.000 PM	10.427	9.977	659,524.313
11/30/2016 3:00:00.000 PM	14.407	10.113	659,523.438
11/30/2016 2:55:00.000 PM	14.216	9.885	659,522.250
11/30/2016 2:50:00.000 PM	17.761	9.957	659,521.063
11/30/2016 2:45:00.000 PM	9.114	9.954	659,519.563
11/30/2016 2:40:00.000 PM	6.597	9.977	659,518.813
11/30/2016 2:35:00.000 PM	6.833	10.091	659,518.250
11/30/2016 2:30:00.000 PM	6.593	9.868	659,517.688
11/30/2016 2:25:00.000 PM	6.644	9.830	659,517.125
11/30/2016 2:20:00.000 PM	6.985	9.961	659,516.625
11/30/2016 2:15:00.000 PM	6.675	10.080	659,516.000
11/30/2016 2:10:00.000 PM	6.559	10.031	659,515.438
11/30/2016 2:05:00.000 PM	6.518	9.969	659,514.938
11/30/2016 2:00:00.000 PM	6.952	10.154	659,514.375
11/30/2016 1:55:00.000 PM	6.689	9.998	659,513.813
11/30/2016 1:50:00.000 PM	6.516	10.056	659,513.250
11/30/2016 1:45:00.000 PM	6.808	10.294	659,512.688
11/30/2016 1:40:00.000 PM	6.535	10.117	659,512.125
11/30/2016 1:35:00.000 PM	6.869	10.031	659,511.563
11/30/2016 1:30:00.000 PM	6.781	10.127	659,511.000
11/30/2016 1:25:00.000 PM	6.549	9.966	659,510.438
11/30/2016 1:20:00.000 PM	7.576	10.590	659,509.875
11/30/2016 1:15:00.000 PM	8.061	10.655	659,509.250
11/30/2016 1:10:00.000 PM	8.146	10.877	659,508.625
11/30/2016 1:05:00.000 PM	8.061	10,797	659,507.938
11/30/2016 1:00:00.000 PM	7.835	10.530	659,507.250
11/30/2016 12:55:00.000 PM	7 972	10.545	659,506,563



CELL PHONE VISUALIZATION EXAMPLE



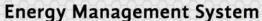
JOHNSON CONTROLS

Johnson W Controls



MAIN





Planta García











Diagrama Eléctrico



Resumen de Consumos

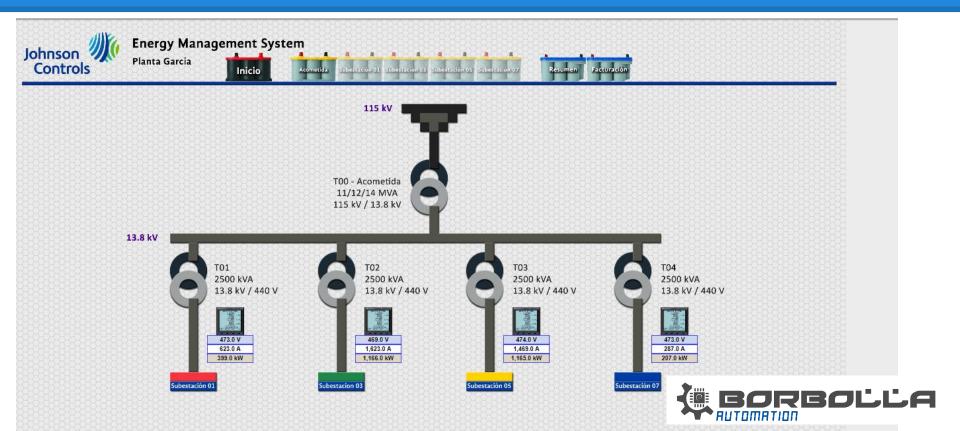


Facturación Eléctrica

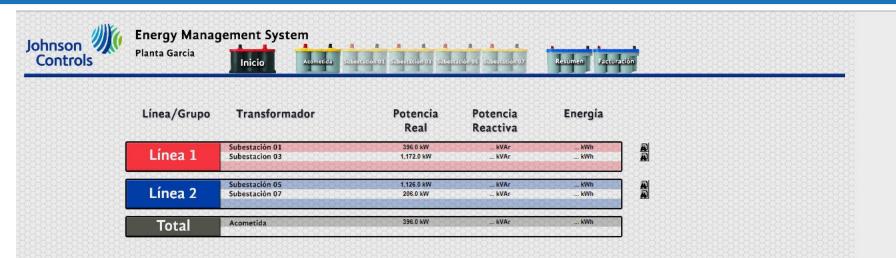




ELECTRIC DIAGRAM



ELECTRONIC BILLING





WHIRLPOOL





MAIN



Energy Management System

Planta Ramos Arizpe











Diagrama Eléctrico



Medición de Gases



Resumen de Consumos

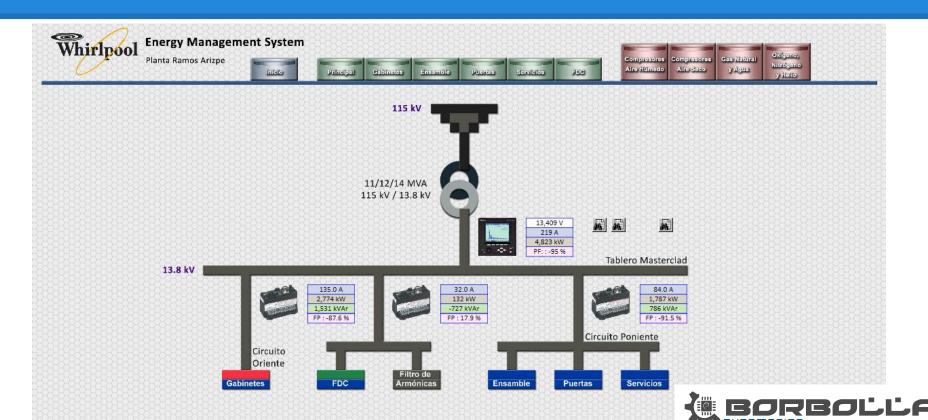


Facturación Eléctrica

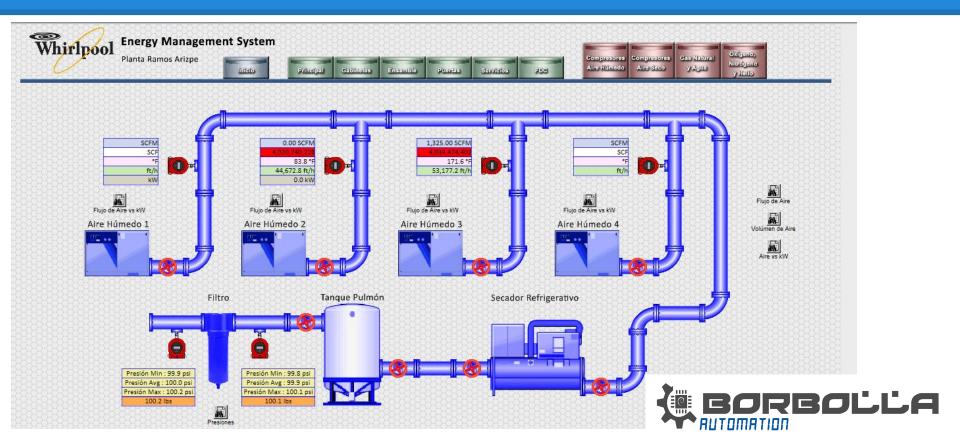




ELECTRIC DIAGRAM



GAS MEASUREMENT



ELECTRONIC BILLING



Energy Management System

Planta Ramos Arizpe

	A-0-0-0	0-0-0-0-0	-			i
Principal	Gabinoles	Ensamble	Phones	Servicios	350	



Subestación Transformador		Potencia	Demanda	Energía	
<u> </u>	1B1 - Edificio Gabinetes y Oficinas	418 kW	419 kW 🗐	327,754 kW-h A	
Gabinetes	1P1 - Gabinetes Zeus y Bulk	885 kW 🔊	853 kW 🔊	404,838 kW-h	
	1P2 - Gabinetes Juno	kW A	kW.A	0 kW-h	
	Total		kW.M	732,592 kW-h	
FDC	FDC - FDC Principal	122 kW 🔊	128 kW 🔊	120,945 kW-h	
Ensamble 🔯	2B2 - Edificio Puertas y Almacenes	420 kW ₩	434 kW 🔊	320,236 kW-h	
	2P2 - Ensamble y Espumado - Gabinetes Zeus Total	414 kW 🖟	387 kW 🖟 831 kW 🖟	198,359 kW-h	
Puertas	2P3 - Puertas -Scott y Comi	631 kW 🔊	590 kW 🔊	281,434 kW-h	
	2P4 - Puertas Cannon / Ensamble Juno	245 kW 🔊	234 kW 🗐	143,915 kW-h	
	Total		683 kW 🔊	425,349 kW-h	
HOTOTOTOTOTO					
	2P3 - Puertas -Scott y Comi	621 kW 🖟	592 kW 🗐	486,431 kW-h	
Servicios	2P4 - Puertas Cannon / Ensamble Juno	402 kW 🚮	399 kW 🗐	486,431 kW-h A	
		THE RESERVE THE PARTY OF THE PA	THE RESERVE THE PARTY NAMED IN COLUMN TWO IS NOT THE OWNER.		

Dem Inst: 4,805 kW Dem 5min: 4,676 kW Dem 15min: 4,672 kW

FP: -94.26 %





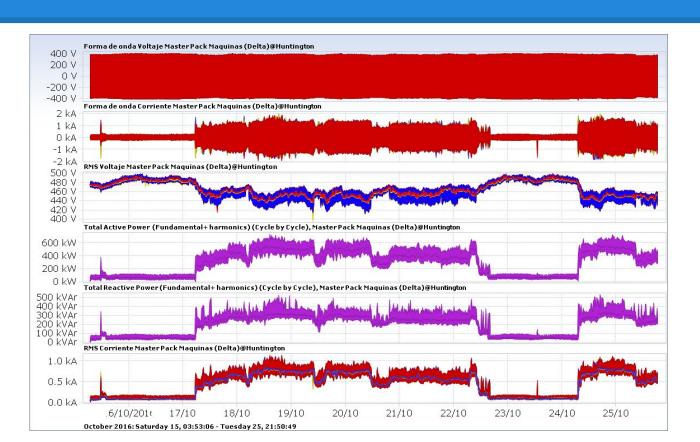




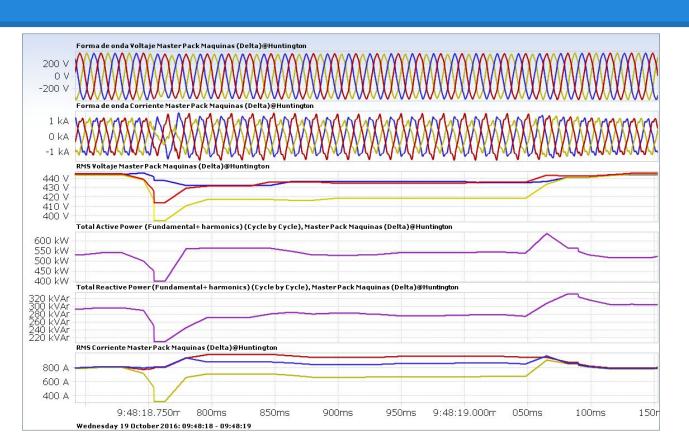
TENDENCY VISUALIZATION EXAMPLE OF kW, kVAr and kVA



PER PHASE VOLTAGE AND CURRENT BEHAVIOR ANALYSIS



PER CYCLE VOLTAGE AND CURRENT BEHAVIOR ANALYSIS



PM8240 ANALYSER

Type of measurement

- -Power Factor (cos(Φ))
- -Apparent Power(VA)
- -Active and reactive power(P and Q)
- -Voltage (V)
- -Current (A)

I/O

- -Current Analogue Input
- -Voltage Analog input
- DC Digital Input
- -AC Digital input
- -Pulse output