

Improve OEE, Reduce Energy & Predict Breakdowns with **CENTRICA** IIoT 4.0 Wireless Real-time Technology

HI-TECH FACILITY ENGINEERS

INDUSTRIAL AUTOMATION I ROBOTICS I MACHINE VISION I HOT SOLUTIONS I GREEN STRATEGY I POWER QUALITY

www.hitechfe.in

Centrica's completely **Wireless** technology offer **Real-time "Circuit level" intelligence with 10 second** data transmission interval



Improve OEE

USE CASE

Reduce Energy

Predict Breakdowns



Increase Production & Improve OEE by capturing losses with Centrica's tech (10sec data transmission interval)

- Reduce the Idle time during the operation
- Reduce M/C downtime
- Reduce Air cutting time to shorten the processing time
- Visibility on how operator is operating on the machine in Real-time
- Improve Manpower productivity
- Enterprise wide visibility of your production

AVAILABILITY

Reduce M/C downtime (due to changeovers, maintenance, no production planned, manpower productivity issues,



Reduce Idle Time





Energy Management, Real-time Condition Monitoring & Predictive Maintenance through Time series analysis, SEC, Benchmarking, Heat map & Real-time Alerts at Asset-level

- Enterprise wide visibility of assets & energy consumption
- Reduce Energy consumption at Motor-level
- **Predict** machine breakdown through Real-time Alerts
- Real-time **Condition Monitoring** of Motor / Asset
- Validate **quality of maintenance** with before and after data
- Digitally Track Carbon Emissions

Reduce Inefficiencies

Identify **invisible Power/Energy wastage and cost reduction opportunities on each machine** through 24 Hr power consumption **Heat map**

			What lec	l to high energy con	sumption on Sunda	y and Tuesday?		
		Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	0	₹275.74	₹259.52	₹262.01	₹272.46	₹252.04	₹264.11	₹242.05
	1	₹275.12	₹250.50	₹262.77	₹267.84	₹261.34	₹245.34	₹223.91
	2	₹272.52	₹261.68	₹266.73	₹275.27	₹243.68	₹243.48	₹218.03
	3	₹262.71 ₹259.65		₹255.84	₹273.75	₹246.41	₹233.45	₹226.09
	4	₹273.39	₹245.23	₹263.55	₹277.52	₹239.09	₹208.57	₹233.86
	5	₹263.43	₹262.36	₹265.05	₹276.64	₹246.60	₹226.22	₹256.71
	6	₹266.64	₹266.69	₹243.35	₹266.14	₹248.90	₹206.38	₹241.12
	7	₹251.95	₹256.25	₹250.73	₹264.16	₹261.11	₹205.07	₹242.61
	8	₹265.78	₹265.94	₹263.59	₹262.33	₹248.05	₹249.84	₹239.65
	9	₹264.80	₹266.15	₹257.60	₹268.17	₹250.12	₹261.37	₹242.21
	10	₹316.45	₹266.67	₹253.25	₹265.47	₹237.24	₹252.17	₹261.20
ILS	11	₹320.51	₹262.30	₹258.07	₹268.41	₹217.48	₹258.75	₹265.73
Per	12	₹311.87	₹274.86	₹257.01	₹267.72	₹231.83	₹285.24	₹249.77
	13	₹270.62	₹265.69	₹247.28	₹263.54	₹255.74	₹266.07	₹264.44
	14	₹289.73	₹261.16	₹260.84	₹265.21	₹261.57	₹236.89	₹258.62
	15	₹319.23	₹261.88	₹323.52	₹269.48	₹257.88	₹238.19	₹275.01
	16	₹302.56	₹272.33	₹313.33	₹254.53	₹268.84	₹270.15	₹280.27
	17	₹269.65	₹262.72	₹265.82	₹269.97	₹248.22	₹252.85	₹260.78
	18	₹261.20	₹259.89	₹258.02	₹268.30	₹260.54	₹263.70	₹266.22
	19	₹268.79	₹265.75	₹259.34	₹248.21	₹256.73	₹263.04	₹245.07
	20	₹274.97	₹272.59	₹275.98	₹261.26	₹262.25	₹255.76	₹260.26
	21	₹266.99	₹268.73	₹265.91	₹264.27	₹245.68	₹264.53	₹271.97
	22	₹273.27	₹278.78	₹276.47	₹265.00	₹270.02	₹262.12	₹272.36
	23	₹281.25	₹274.06	₹273.99	₹264.39	₹259.23	₹252.96	₹257.56



Opportunity to optimize **% Loading & Operating hours** of Comp. 2 as its Operating Cost/Hr is 28% times higher than Comp. 1



Weekly Energy Cost can be correlated with production data to create a baseline and find excess energy wastage. Also, KW/Ton should be benchmarked to find the excess consumption



OPERATING COST OF CHILLER 2 (KW/Ton)

- Average operating cost of Chiller is Rs. 1,69,646
- Weekly Cost should be correlated with production data to create a baseline and find the optimum level
- KW/Ton should be benchmarked to optimize the consumption
- Real-time BTU meter should be installed

Benchmark – Identify Low SEC machines – Better production planning through M/C Sequencing



Chiller is consistently operating under 32%, over last 2 months – leads to low power factor & lower efficiency driving higher Energy cost



Centrica's **predictive maintenance** helps to minimize machine breakdown through early failure detection as well as helps to **reduce preventive maintenance cost**



Spike in motor current can easily be identified and alerted with Real-time mobile alerts



Chiller is consistently operating at a **Power factor in the range of 0.55 to 0.65**, which leads to higher Energy cost and shortens motor life



IGBT Real-Time Dynamic RPC



IGBT RPC – Salient Features

- New Generation Tech Reduces difference between KVAH & KWH – Reduces Electricity bill
- KW savings by reducing transformer losses (2-3%)
 & Line Losses
- Instantaneous, Continuous, Stepless, Seamless, Fast & Accurate
- **Guaranteed Unity PF** at all times without any over and under-compensation (stepless output)
- Corrects simultaneously from -1 to +1 i.e. lagging
 (inductive) or leading (capacitive) load
- Response Time is Real-time (in 15 milli seconds)
- Savings from **low energy loss** IGBT RPC consumes 2% vs. of 5-8% in capacitor banks
- Balances unbalanced load
- Low maintenance cost as there are no moving parts
- Quick payback: 6-12 months

IGBT RPC Advantage Over Capacitor Banks



Pre-Installation

PASHCHIMAN CHAL VIDYUT VITRAN NIGAM ETD. (CIDE CID 2010/2015/2016/CC21440) This Flower Visited Park Marce (UP) - 20001 Printed by SYSUSER Generated by RAMTASIN 25/15/221 11:22:25 AM

MOTHERSON AUTO LTD, NOIDA

BLL-CUM	NOTICE												A/C No : 5626263	0	
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Post-Installation

	PASHCHIMANCHAL VIDYUT VITRAN NIGAM LTD.
	Dijo Rhossan Victorio Park, Meetar (UP) - 210001
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MOTHERSON AUTO LTD, NOIDA

NOTE: Pay your Bill online- want up

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DIAL TOLL FREE 1912 FOR BILL & SUPPLY COMPLAINTS



With 50KVAr SVG (Under Rated), monthly KVAh is nearly reduced down to KWh with PF 0.999

KVAh>KWh by 216 Units Only



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BISLERI INTERNATIONAL LTD, SAHIBABAD



Name : BISLE Address : 19/1 Circle : CIR150 Division : DIV1 Sub Division : 88 Code : 15 DT Code : NA	NBAD, UP, INC 303039	2	Bil No : 571 Issue Date : Bil Month : (Division Nan	2904 01-0 0CT-	05054 XCT-2021 2021 3000-11 0	HAZIABAC		Amount rayable 4004170 Bill Due tole: 15-OCT-2021 Amount Rayable By Due Tole: 3898828 Security Regulard: 7265368 Total Fower Supply Availability: HR Mil									
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PASHCHIMAN CHAL VIDYUT VITRAN NIGAM LTD. (CIN UN 12000720035GC027458)

Uhja Bhassan Victoria Park Menut (UP) - 250001



Pre-installed, monthly KWh & KVAh consumption pattern, KVAh > KWh by 4800units with PF 0.990

Post-Installation

BISLERI INTERNATIONAL LTD, SAHIBABAD

(

Prised by SYSUSER 25/6/2022 03:17:26 PM



BILL-CUM	NOTICE														A/C No : 57125	80000			
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