

22nd National Award for Excellence in Energy Management 2021 MBP F2 & F3 - Bengaluru

August 2021

Agenda

- 1. Cognizant Overview
- 2. Facility Overview
- 3. Energy consumption overview
- 4. Specific energy consumption in last 3 years (2018-2020)
- 5. Information on Internal & National Benchmarks
- 6. Energy saving projects implemented in last three years
- 7. Innovative projects implemented
- 8. Utilization of renewable energy sources
- 9. Waste management
- 10. GHG emission and indoor air quality
- 11. Teamwork, employee involvement and monitoring
- 12. Standardization of Best Practices
- 13. Implementation of IGBC certification
- 14. Kaizen by plant team
- 15. Awards & Certifications



Cognizant Overview



Cognizant is a multinational corporation that provides IT services, including digital, technology, consulting, and operations services. It is headquartered in Teaneck, New Jersey, United States.

#185 On 2021 Fortune 500	#533 On Forbes Global 2000 for 2020	#483 On Forbes The Best Employers for Diversity 2019
Fortune	Forbes	Forbes
12 Years One of Fortune's Most Admired Companies Fortune	#63 On Forbes Top 100 Digital Companies for 2019 Forbes	#19 On Forbes America's Best Employers 2020 Forbes
Cognizant is included in the NASDAQ-100 and the S&P 500 indices. Cognizant had a period of fast growth during the 2000s	159+ delivery and operations centers globally and spread across 39 countries	The company has more than 291700 employees globally, of which, 100000 are women
Total global footprint of 24 million+ built up area, of which 13.6 million SFT is owned Facilities	Majority of these operations are in hot and humid climates and operates on 24X7 basis	More than 80% of the space is air-conditioned



Facility Overview

Description	Specification
Facility details	 MBP F2 -2009 MBP F3 -2013 Leased facilities Built up area -1.5 million Sq.ft
Blocks	Two blocks - MBP F2 & MBP F3Exclusive Medical center with Ambulance services
Seating/Headcount	Seating Capacity: 16600Headcount: BAU-14914 Non R2O -3936
Contracted Demand	 Contracted Demand – 5000 KVA Incomer Supply – 11KV / 415 V
Transformer capacity	 Transformer capacity – 16000 KVA Diesel Generator capacity –18000 KVA
Chiller Capacity	 Chiller Capacity – 3760 TR 2X 350 TR Water cooled 3X 390 TR Air cooled
UPS Capacity	 UPS Capacity – 2100 KVA 900 KVA Modular 1,200 KVA Conventional







Energy Consumption Overview -2018 to 2020



Power Consumption kWh/Year







Specific Energy Consumption in Last Three Years





6 © 2021 Cognizant

Month-wise Specific Energy (EPI) in kWh/Sq.ft and Per Capita





Major Initiatives - Causes for Reduction in Specific Energy



Comparison of SEC with Internal & National Benchmarks

Approach Methodology



BEE - Na	tional Benchmark	EPI in kWh/So	q. M/Year
Star Rating	Warm and Humid	Composite	Hot and Dry
1 Star	200-175	190-165	180-155
2 Star	175-150	165-140	155-130
3 Star	150-125	140-115	130-105
4 Star	125-100	115-90	105-80
5 Star	Below 100	Below 90	Below 80
Interna	l benchmark	Complaints relating to mfort – Zero	
	Downtime of	Efficier	ncy – One

Żero

foot per month

List of Energy Conservation Projects Planned – 2021

1.UPS consolidation works (Conventional to Modular UPS)

2.Workstation light fixture retrofit activities (T5 to LED) @ F2

3.Power savings HVAC projects - Dedicated AC for dormitories, Mom's lounge 4. Lighting sensor for switch rooms and restricted ODC

5. Dedicated AC for UPS room to avoid running chiller nonbusiness hours, weekend and holidays

- 6. VRV unit integrations & 2nd phase AHU supply provisions for switch room
- 7. Split unit retrofit activities

	Road Ma	ap - 2021	
Total planned Projects 07	Total energy savings 16 Lacs kWh	Total investments 272 Lacs	ROI 1.5 Years





Energy Saving Projects Implemented in Last Three Years





Energy Savings Trend (2018 to 2020)



Energy Consumption (Category-wise) 2018 – 2020



Consumption Reduction (Category-wise) YOY



Additional cafe counter and Ducted AC unit running hours increased as project time increased

Innovative Project

Auto Operation of Split Air Conditioner via BMS









Auto Operation of Split Air Conditioner via BMS





Auto Operation of Split Air Conditioner via BMS - Savings



Utilization of Renewable Energy Sources



		Utilization of Renewa	ble Energy Sources	;
	EB	DG	Solar	Solar Energy
2018	10993264	5283717	0	Utilization vs EB - 0%
2019	3203214	1833932	10707433	Utilization vs EB - 86%
2020	870807	347258	4576406	Utilization vs EB - 85%



Waste Management

E- waste	Hazardous Waste	Non-Hazardous Waste
 CFL Tube Lamps NSS Waste 	 Used Oil Waste Oil Battery waste Filters Oil socked cotton 	PaperFoodPlasticMetal

Key initiatives taken for enhancing waste utilization:

- 1. Initiatives for minimizing e-waste
- · Conversion to LED
- NSS Recycling & reuse
- 2. Food waste is collected for creating compost in our facility by base builder using OWC

3. All wastes were supplied through authorized vendors for recycling

4. Digitalized technology for all operations is implemented to reduce papers, files, etc.

- Food coupons/billing replaced by Hunger box applications
- Aborted using paper cups and plastic bottles in the facility by initiating BYOM Concept
- All disposable cutleries (plastic) are replaced with wooden cutleries (Bio-degradable)
- Compliance tools review mechanism by Delite, EY, DSR/Resilio, e-fit, Avanthi portal is implemented

GHG Inventorization & Indoor Air Quality

GHG Inventorization – 2018 to 2020



GHG reduction target & action plan

- 1. Implementation of Retrofit projects
- 2. Increased RE Utilization
- 3. Reduced EB power interruption
- 4. SBT-24% of GHG emission reduction in 2024 from the base year of 2019

Test parameters	Units	Result	Permissible limit	Remarks
Carbon Dioxide (Co2)	ppm	700	< 1000	1 Testing through NABL Laboratory
Total Fungal count	Cfu/m3	0	500	2. Frequency of sampling is quarterly for
Total Bacterial count	Cfu/m3	1	500	WORKSTATIONS

Standardization of Best Practices





Teamwork, Employee Involvement & Monitoring

1(3)

Action Allowed Allowed

Energy Meter Monitoring in BMS

SECOND FLOOR ENERGY METER SUMMARY

PARAMETERS	LTG PNL S1	LTG PNL S2	LTG PNL 1 S1	LTG PNL 1 S2	HVAC
Frequency	50.1 Hz	50.1 Hz	50.1 Hz	50.1 Hz	50.1 Hz
Current R	0.0 A	0.0 A	5.2 A	10.6 A	6.9 A
Current Y	0.0 A	0.0 A	10.5 A	12.5 A	4.0 A
Current B	0.0 A	0.0 A	6.8 A	12.7 A	6.6 A
lavg	0.0 A	0.0 A	7.5 A	11.9 A	5.8 A
Voltage RY	410.8 V	411.0 V	410.9 V	410.1 V	401.5 V
Voltage YB	414.9 V	414.9 V	415.0 V	414.0 V	401.6 V
Voltage BR	414.5 V	414.7 V	414.5 V	413.6 V	403.3 V
Voltage R	235.0 V	235.1 V	235.0 V	234.5 V	232.3 V
Voltage Y	238.1 V	239.5 V	239.2 V	238.9 V	232.2 V
Voltage B	242.0 V	241.7 V	242.0 V	241.1 V	232.0 V
Avg Voltage	413.4 V	413.6 V	413.4 V	412.5 V	402.1 V
Total PF	0.0 pf	0.0 pf	0.9 pf	-1.0 pf	-0.7 pf
R-Phase Power	0.0 KW	0.0 KW	1.0 KW	2.0 KW	1.2 KW
Y-Phase Power	0.0 KW	0.0 KW	2.4 KW	2.6 KW	0.7 KW
B-Phase Power	0.0 KW	0:0 KW	1.4 KW	2.7 KW	1.1 KW
Total KW	0.0 KW	0.0 KW	4.8 KW	7.3 KW	3.0 KW
Energy	71.0 KWh	96.4 KWh	150.2 KWh	160.5 KWh	197.8 KWh

VAV Monitoring in BMS

FIRST FLOOR VAV SUMMARY Module-2 A31 1211.4 27.0 °C 24.0 *0 Module-5 A07 468.7 97.9 70 1014.5 Module-5 A05 1010.2 397.6 1.1.6 odule-2 A4 710.1 23.5 10 100.0 % 853.0 Module-2 A53 812.6 Module-2 AS 908.5 26.5 25.0 *0 26.7 1 642.5 1.1.5 403.8 27.3 *0 24.0 *0 383.1 ANIL-1 Opp Reg 1514.3 25.8 30.0 ** 56.4 % 633.5

VFD Monitoring in BMS

VFD SUMMARY-2

Parameters	TF VED-1	77 VFD-2	77 170-3	BF VFD-1	BF 17D-2	IF WD-3	9F VFD-1	9F VFD-2	3F VFD-3
Frequency	43.4 Hz	43.8 Hz	47.5 Hz	44.4 Hz	– Hz	44.1 Hz	41.2 Hz	44.3 Hz	46.7 Hz
Voitage	316.0 ₩	319.0 V	373.0 V	324.0 V	- V	322.0 V	285.0 V	325.0 V	359.0 V
Current	9.8 A	8.4 A	6.9 A	9.0 A	-A	9.1 A	13.2 A	9.5 A	10.9 A
Speed	1269.0 rpm	1288.0 rpm	1411.0 rpm	1296.0 rpm	- rpm	1287.0 rpm	1170.0 rpm	1294.0 rpm	1366.0 rpm
Power	37.0 KW	28.0 kW	17.0 kW	31.0 kW	- XW	32.0 KW	43.0 KW	35.0 kW	44.0 KW
Energy	16101.0 kWh	14853.0 kWh	3094.0 kWh	10409.0 kWh	- kinh	24313.0 kith	12555.0 kWh	17340.0 kWh	36419.0 kW

Parameters	TOF VED-1	10° VFD-2	THE WEDG
Frequency	47.9 Hz	48.6 Hz	46.9 Hz
Voltage	384.0 V	386.0 V	358.0 V
Current	8.7 A	10.0 A	9.1 A
Speed	1415.0 rpm	1432.0 rpm	1389.0 rpm
Power	30.0 kW	36.0 kW	26.0 KW
Energy	20617.0 kWh	13737.0 kWh	17149.0 kWh

UPS Monitoring in BMS

			5F 275KVA UPS	1		Cognizant
	UPS Parameters	UPS	UPS Parameters	UPS	Alarm Status	UPS
	UPS_Battery_Power	221 J KAA	UPS_Input_Volt_B-R	412 Valts	Load on Battery	Norsal
	%_Load_B Phase	48.5	UPS_Input_Volt_R-Y	410.0 Matu	raw power interption	Norsal
	%_Load_R_Phase	344%	UPS_Input_Volt_Y-B	414.0 Volts	Load on bypass	Norsal
	%_Load_Y_Phase	23%	UPS_KVA_B	62.63	UPS output Overloa	d Normal
	PF_Output_B_Phase	8.5	UPS_KVA_R	61 KA	UPS load drop	Norsal
-	PF_Output_R_Phase	- 11	UPS_KVA_Y	63 KA	Battery failure	Normal
IPS.	PF_Output_Y_Phase	- 84	UPS_Total_Load_KW	15.0 KM	Battery Temp bad	Norsal
Ň	UPS_Battery_Capacity	100.3 KW	UPS Load B	45 KW	Battery charge failed	Normal
175K	UPS_Battery_Current_positive	A00	LIPS Load R	14.4 101		
5	UPS_Battery_Current_negative	A 0.0	UDB Load V			
	UPS_Battery_negitive_V	100.0 V	OPS_LOBO_1			in the second
	UPS_Battery_positive_V	334.0 V	Output_Current_B_Phase	17.8 Amps	the second second	
	UPS_Energy_Meter	6110/0.0	Output_Current_R_Phase	52.1 Avps		All and a second
	UPS_Input_Frequency	ROH	Output_Current_Y_Phase	28 J Avps	222.2	B HADRE
	UPS_Output_Frequency	41319	Output_Volt_B	2.0 W/m		
	UPS Total Output Load	143.5	Output_Volt_R	9.0 Wells		entraint
			Output_Volt_Y	4.0 Wrts		
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DX Unit's Monitoring in BMS



Teamwork, Employee Involvement & Monitoring

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Periodic Equipment Service

Daily monitoring

Power Consumption Daily Track

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#### RE: MBP F3 power consumption details for the month of Aug-2021

T A, Adtya Kumar (Cognizant); 🗌 Naik, Narayan (Cognizant)

Y H, Shabi Bhushan, [Contractor]: II H, Smitha (Contractor); Robligaivelan, P (Contractor); Kalal, Kichnagna (Contractor); IV, Sinayananawar, Chetractor); IV, Sugmana (Contractor); IV, Sugmana (Contr

146 KB	17 KB	
MBP-F3 EM Dash board Aug-20210x/sx 103 KB	- MBP-F3 Feeder reading Aug-2021.xbx 166 KB	
MBP-F3 STP & Raw water details Aug-2021.xlsx 15 KB	- MBP-F3 Water cons Aug-2021.xlsx 27 KB	

		Power	consumptio	'n
Feeder	Last Week Same day Consumption	Today Consumption	Savings	Reason
Extension Source-01&02 (UPS)	2655	2702	46	
Chiller panel source-01 &02 (Chiller)	642	351	-291	Units decreased due to decreased in chiller operation by 1hr
Raising Main panel A&B -wing (GF to 6F)	1819	1849	30	



## Teamwork, Employee Involvement & Monitoring



## Demo room for Training







3(3)

## **IGBC Certification**





## Kaizen by Plant Team

#### Remote Controlled equipment for HVAC ducts



Auto operation of AC unit via motion sensors



From main Supply

#### Motion Sensors for ODC and switch room lighting control



World Earth Hour Celebration



#### VAV Services by In-house team









AHU duct leakage rectification by In-house team





## **Awards**

#### EHS Excellence Awards 2019 (Digitalization)



#### EHS Excellence Awards 2019 (4 Star)





## Major Achievements – MD surrendered 6000 KVA to 5000 KVA

IDEA DISCRIPTION	<ul> <li>Reduction of Maximum Demand -6000 KVA to 5000 KVA</li> </ul>	LOGICS/ANALYSIS
PROBLEM STATEMENT	<ul> <li>Average Billing for Maximum Demand is higher than the actual usages</li> <li>Actual Billing cost for Maximum Demand is INR.15.3 Million per Annum</li> </ul>	<ol> <li>Monthly billing demand and actual reached demand analyzed for 3 Years</li> <li>Based on the analysis and brainstorming session with stakeholder, decision has been taken to surrender the Demand</li> </ol>
SOULTION IDENTIFIED	<ul> <li>Peak demand usages analyzed and recommendation given to the builder for MD reduction from 6000 KVA to 5000 KVA</li> </ul>	COST BENIFTS / PROCESS IMPROVMENT
PROCESS ADAPTED	<ul> <li>As per our recommendation, Builder Team took up the case with Bangalore Electricity Supply Company (BESCOM) and surrendered the excess demand of 1000 KVA</li> </ul>	Overall MD surrendered – 1000 KVA Actual Billing of MD - 850 KVA
TRAILS & IMPROVISTAIONS	<ul> <li>Initially we have recommended to surrender the excess MD of 1500 KVA. However considering the connected load capacity and future requirements, Builder has accepted for 1000 KVA Demand.</li> </ul>	Monthly cost savings - INR.212500 Annual cost savings - INR.2.5 Million

## **Way Forward for Next Three Years**





# 22nd National Award for Excellence in Energy Management 2021 MBP F2 & F3 - Bengaluru

August 2021