



CII 24th National Award for Excellence in Energy Management 2023

Kodathi, Bengaluru

A trusted, global partner.

Wipro Limited (NYSE: WIT, BSE: 507685, NSE: WIPRO) is a leading technology services and consulting firm focused on building innovative solutions that address clients' most complex digital transformation needs.

Leveraging our holistic portfolio of capabilities in consulting, design, engineering, and operations, we help clients realize their boldest ambitions and build future-ready, sustainable businesses. With over 250,000 employees and business partners across 66 countries, we deliver on the promise of helping our customers, colleagues, and communities, to thrive in an ever-changing world.

FY23
IT services
revenue
\$11.2 Bn

Employees
256,921
Active
global clients
1,441

Global presence
65 countries
148 diverse nationalities

Figures based on the Financial Year ended March 31, 2023.

We believe business fuels
our purpose, and purpose
fuels our business.

Member of

**Dow Jones
Sustainability Indices**

Powered by the S&P Global CSA

Wipro is a proud member of the
Dow Jones Sustainability Index (DJSI)
– World for the 13th year in a row.

Wipro is the only company in the IT
Services industry with an unbroken
track record since 2010, reflecting our
long-term commitment to sustainability.

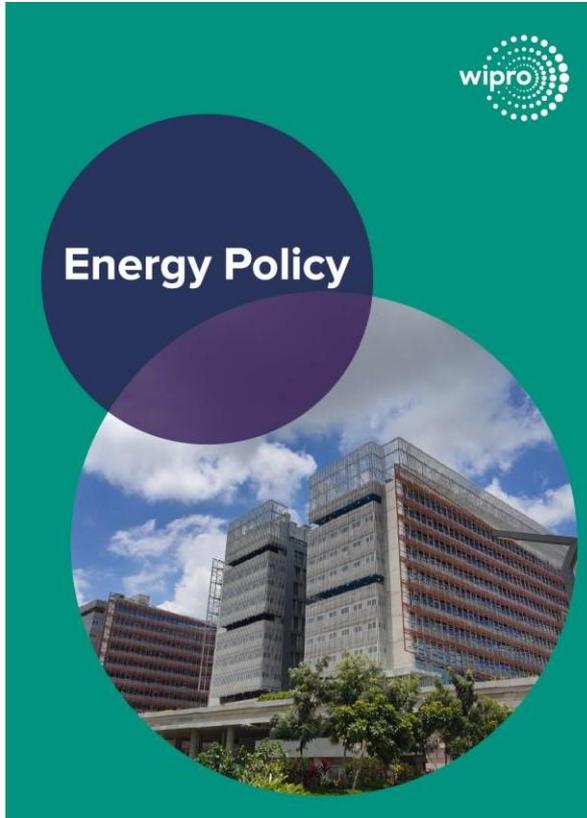
Wipro is also a member of the DJSI
Emerging Markets Index.

Kodathi Campus overview



- Established in 2018
- Campus Area - 48.25 Acres
- Built up area – 3.48 Million Sq.ft and Seating Capacity > 19,255
- 5 Towers (S4,S1,S3,S5,S2)
- 8 Numbers of 2000 kVA DGs for Raw power backup
- 4 Numbers of 1.8 MW DRUPS System with 4 Numbers of 2000 kVA DGs for Critical power back up

Energy Policy

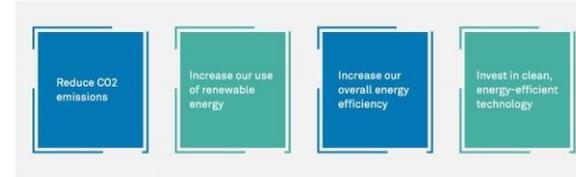


Wipro is committed to optimize its energy footprint to support a sustainable world. We proudly integrate this commitment into our company culture and corporate values.

Wipro continuously improves its energy performance through a strategic action plan that is regularly

reviewed and updated annually. We have defined Energy Performance Indicators and set targets for ourselves in accordance with ISO 50001.

This policy sets the framework for managing our energy consumption and driving various initiatives to support the following goals:



In pursuit of these goals, Wipro is committed to:

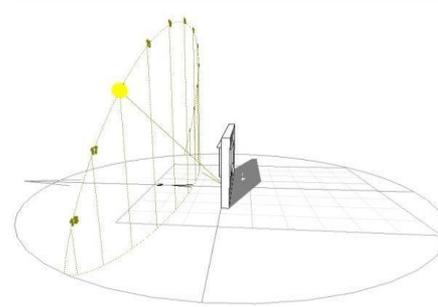
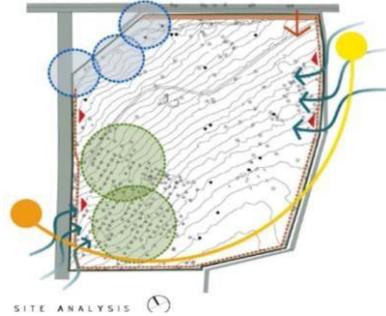
-  Responsible energy consumption and improving energy efficiency throughout all our sites
-  Purchasing energy-efficient services for our facilities and equipment needs
-  Net Zero goals by 2040, with a reduction in absolute emissions of 55 percent by 2030 keeping 2017 as the base line
-  Being legally compliant with applicable regulations and requirements
-  Investing in new technology that supports renewable energy sources
-  Designing our facilities for optimum energy performance
-  Considering life cycle energy costs for future business investments

We are addressing energy efficiency in all areas of our business including management, procurement, financial, technical, and more.

We will ensure that the relevant information and resources are available to achieve our objectives and targets. This policy and our energy performance will be updated as new information becomes available.

Global Head - Operations
Dinesh Wadehra
July 2022

Kodathi Campus key highlights

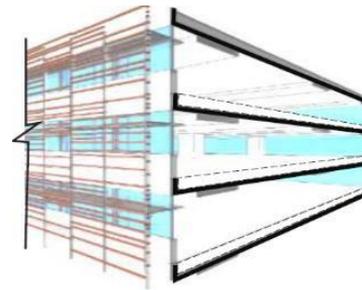


Building design based on Sun path

Double skinned Façade design to reduce heat ingress

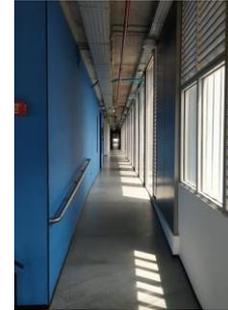


95% Day lit workspaces with day light and movement sensors



Largest Underfloor Air Distribution System (UFAD) - 2.5 Mn ft²

Kodathi Campus key highlights

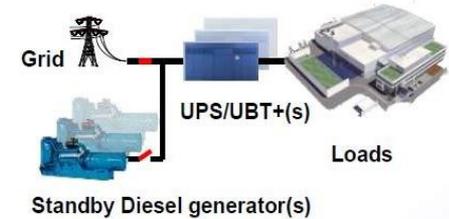


100% LED for Indoor and Outdoor Lighting

Naturally ventilated corridors in all floors



50% Cafeteria space is naturally ventilated

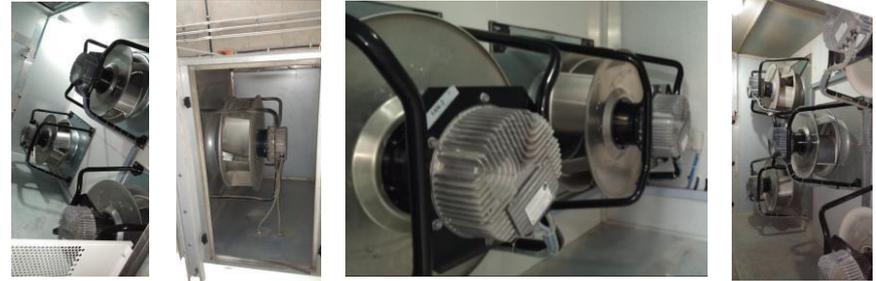


India's first Medium voltage Isolated parallel bus DRUPS system

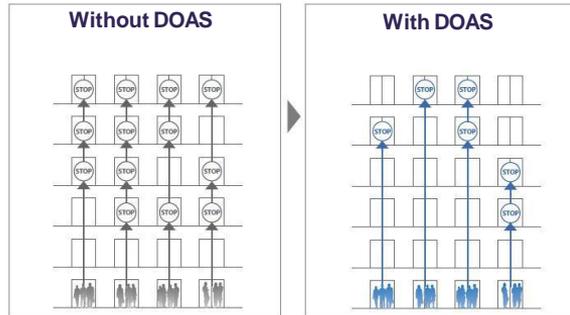
Kodathi Campus key highlights



VFD for pumps & fans applications

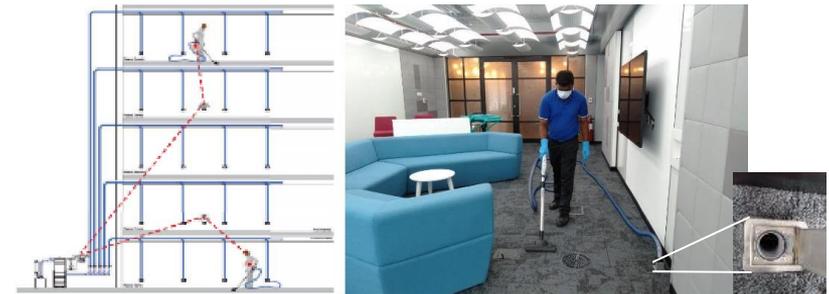


EC fans for AHUs, UFADs, Exhausts, DOAs



According to each car's location and passenger load, the group control system assigns a call to the elevator that best balances operational efficiency and energy consumption

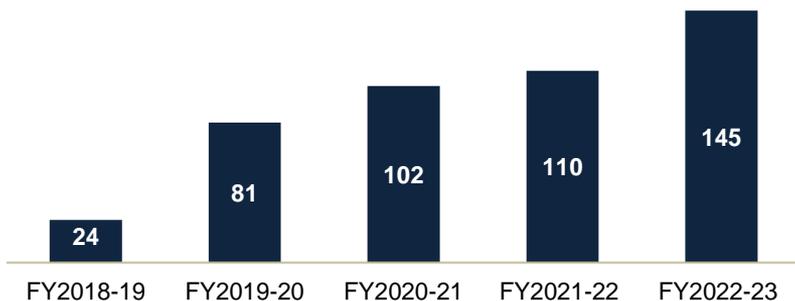
Destination Oriented Allocation System (DOAS) in Lift operation



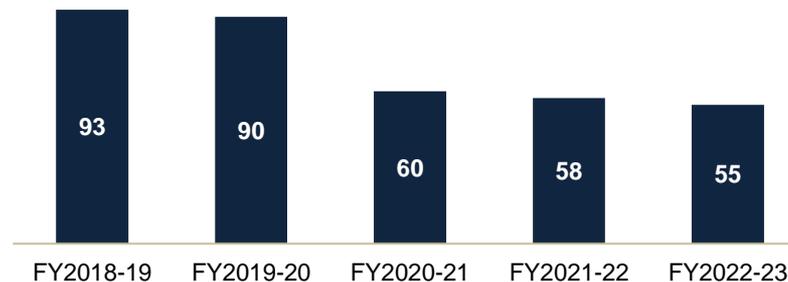
Centralized Vacuum System

Energy consumption overview

Energy Consumption (Lakhs kWh)



Energy Performance Index (EPI) (kWh/m²/Year)



| Year | EB (kWh) | DG (kWh) | Solar (kWh) | Total (kWh) | Area (m ²) | EPI (kWh/m ² /Year) | % Reduction | |
|------------------|-----------|-----------|-------------|-------------|------------------------|--------------------------------|-------------|----------------------------|
| FY2018-19 | 1,052,400 | 1,390,820 | - | 2,443,220 | 26,324 | 92.81 | Base data | |
| FY2019-20 | 3,374,400 | 438,766 | 4,250,000 | 8,063,166 | 89,664 | 89.93 | 3% | |
| FY2020-21 | 747,600 | 528,330 | 8,890,000 | 10,165,930 | 168,365 | 60.38 | 35% | Owing to reduced occupancy |
| FY2021-22 | 2,618,400 | 491,618 | 7,993,581 | 11,103,599 | 191,219 | 58.07 | 37% | |
| FY2022-23 | 3,230,500 | 521,320 | 10819879 | 14,571,699 | 318,330 | 55.05 | 41% | |

National and global benchmarking

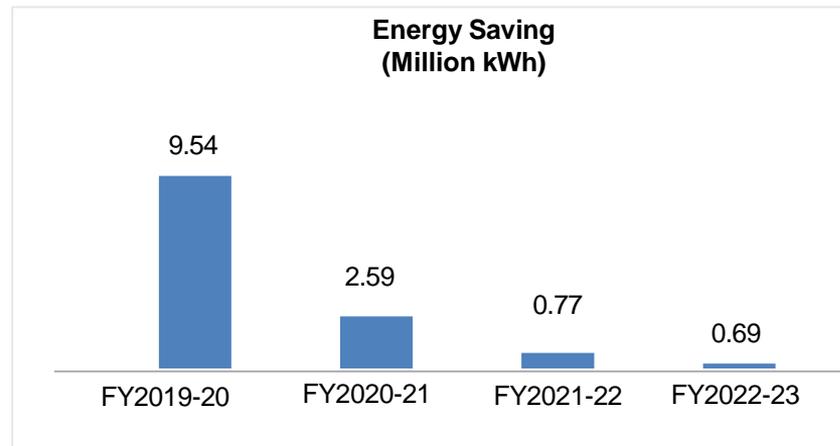
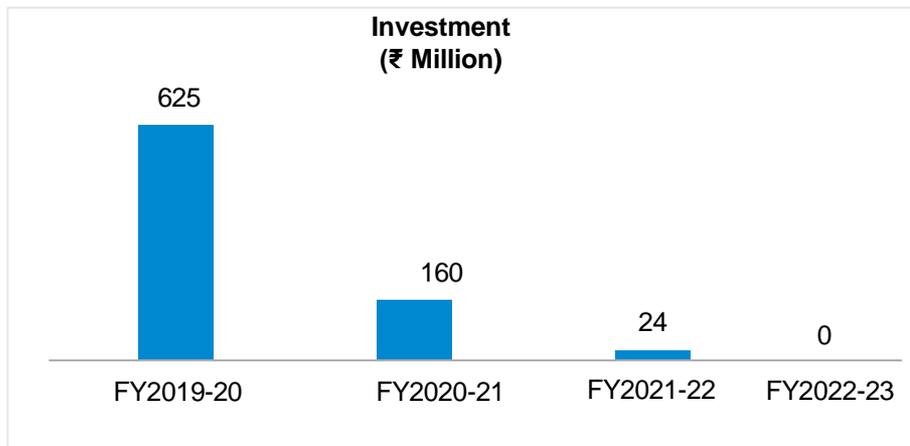
| Benchmarking Details | Reference | SEC (kWh/m ² /Year) | Wipro Kodathi Campus |
|-------------------------------|----------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------|
| Other Wipro Campuses | Wipro Annual Report FY2022-23 | 181 | 90 (FY2019-20) |
| Other IT/ITES companies/Group | CII Energy award Programme, Bangalore (2021-22) | 70 | 60 (FY2020-21) |
| National Level | BEE (Bureau of Energy Efficiency) | 179 | 58 (FY2021-22) 55 (FY2022-23) |
| International Level | Lawrence Berkeley National Laboratory | 65 to 90 | Expected to achieve 85-90 once employees are back to work from office |

Encon Projects planned in FY2023-24

- BMS Implementation for S1,S3,S5 Towers
- Chiller Plant manager for S5 Tower chillers

Energy Saving projects implemented in last three years

| Year | No of energy saving projects | Investment (₹ Million) | Electrical energy Savings (Million kWh) | Cost Savings (₹ Million) |
|-----------|------------------------------|------------------------|-----------------------------------------|--------------------------|
| FY2019-20 | 4 | 624.84 | 9.54 | 70.00 |
| FY2020-21 | 3 | 159.54 | 2.59 | 19.00 |
| FY2021-22 | 5 | 24.25 | 0.77 | 7.15 |
| FY2022-23 | 3 | Nil | 0.69 | 6.3 |



Projects Implemented

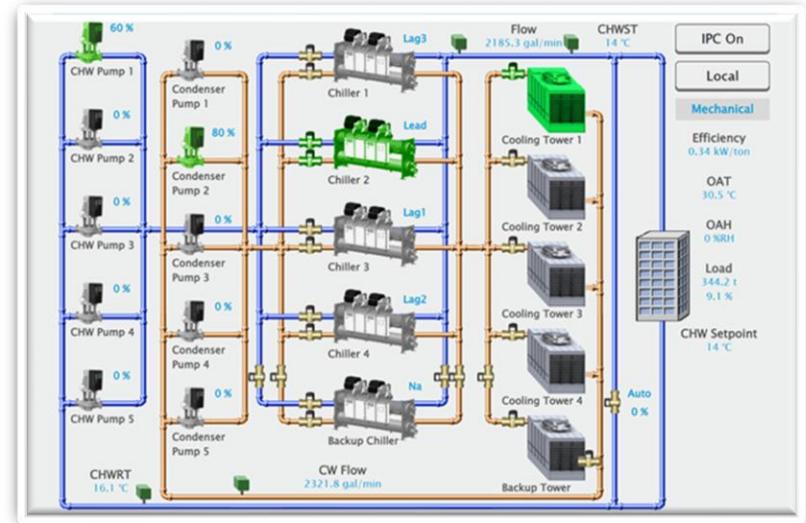
Project-1 Hartman loop – Operational Optimization

Problem Statement

- Chiller and pumps are operated beyond reaching of setpoint leading to increased Equipment run hours and Energy consumption.
- Primary Pump runs always in Constant Frequency (In Auto Mode) During off peak time Which leading to Increased Energy Consumption.

Solution Implemented

- Detailed Setpoints are being Analyzed in the CPO Settings and optimized the cut in, cut off and timing settings.
- Due to the above optimization, Chiller, Condenser pump & Cooling tower run hrs. had reduced and Subsequently leading to Energy Savings.
- On the Primary Pump, Min Speed Setting was changed after analyzing the load requirement (from 40 HZ to 30 Hz) which leads to the variation in the pump speed during the off peak loads.



Annual Savings Achieved
2,55,924 kWh

Project-2 Automation of corridor lights through BMS

Problem Statement

- No Control on Corridor Lights Operations
- Lights are controlled through Switch and MCB Manually
- Energy Loss

Solution Implemented

- All Corridors lights MCB's are connected to relays and integrated with the BMS system.
- Schedule had been created to Switch ON & Switch Off Automatically.
- Lights are Switched off centrally when there is no occupancy in the floors.
- This initiate lead to Energy Savings & Man hours Savings.



**Annual Savings Achieved
10,044 kWh**

Project-3 Optimization of DRUPS Operation

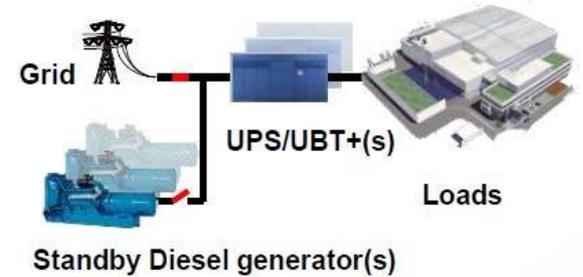
Problem Statement

- All 4 no's of DRUPS was running Continuously with Minimal Load
- MV Choke & Transformer efficiency is reduced due to lesser load.
- All the DRUPS DG also will get start during power failure.
- Fuel Loss

Solution Implemented

- One of DRUPS operation is completely Switched OFF
- Loads are transferred to other Operational DRUPS which had increased the loading percentage.
- Operating efficiency had improved in the DRUPS.
- Flywheel Self generation loss had been eliminated for the Non operational DRUPS.

**Annual Savings Achieved
4,35,000 kWh**



Before



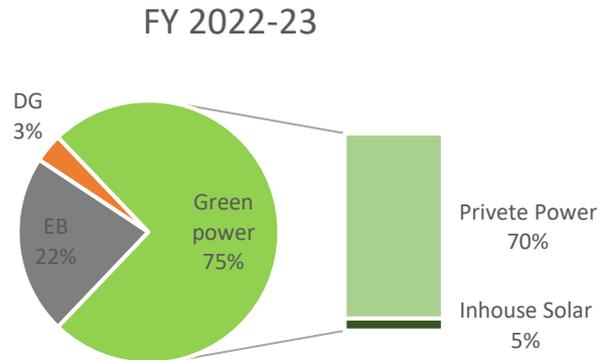
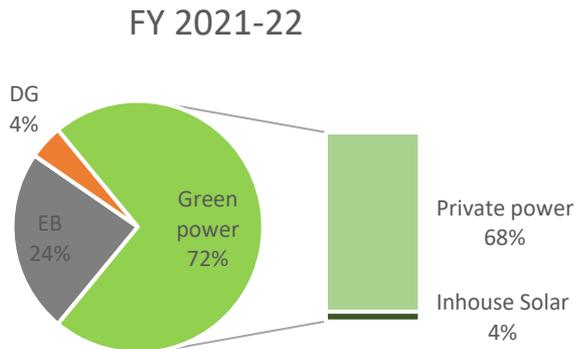
After



Utilization of Renewable Energy sources

FY2021-22

FY2022-23



- We have installed 462 kW_p onsite Solar PV Plants at Utility block, S1 and S3 tower roof areas in the year 2021-22.

| Roof Location | Plant Capacity | Investment (₹ Million) | Date of commissioning |
|---------------|---------------------------|------------------------|-----------------------|
| Utility Block | 65.52 kW _p | 2.675 | April 2021 |
| S3 Tower | 162.24 kW _p | 6.156 | July 2021 |
| S1 Tower | 234 kW _p | 7.996 | August 2021 |
| Total | 462 kW_p | 16.8 | |



On Site Solar

| Year | Source (Solar, wind, etc.,) | Installed capacity (in MW) | Generation (in Million kWh) | Consumption from On-site RE (in Million kWh) | Share % w.r.t to overall energy consumption |
|------------|-----------------------------|----------------------------|-----------------------------|----------------------------------------------|---------------------------------------------|
| FY 2020-21 | NA | NA | NA | NA | NA |
| FY 2021-22 | Solar | 0.462 | 0.670 | 0.670 | 4.04 |
| FY 2022-23 | Solar | 0.462 | 0.674 | 0.674 | 4.99 |

Off Site Solar

| Year | Source (Solar, wind, etc.,) | Installed capacity (in MW) | Generation (in Million kWh) | Consumption from On-site RE (in Million kWh) | Share % w.r.t to overall energy consumption |
|------------|-----------------------------|----------------------------|-----------------------------|----------------------------------------------|---------------------------------------------|
| FY 2020-21 | Solar | NA | NA | NA | NA |
| FY 2021-22 | Solar | 30 MW (Group) | 7.58 | 7.58 | 74.2 |
| FY 2022-23 | Solar | 30 MW (Group) | 10.193 | 10.193 | 75.9 |

GHG Emissions

ENVIRONMENTAL METRICS

1.1 ABSOLUTE EMISSION PROFILE (TONS OF CO2 EQ)

Table 1.1.1

| Scope 1 | FY 2020-21 | FY 2021-22 | FY 2022-23 |
|------------------------------------|------------|------------|------------|
| Fuel & Refrigerant – India offices | 10,885 | 9,571 | 9,640 |

Table 1.1.2

| Scope 2 | FY 2020-21 | FY 2021-22 | FY 2022-23 |
|-----------------------------------------------|------------|------------|------------|
| Purchased Electricity – India offices and DCs | 86,463 | 72,973 | 59,120 |

Table 1.1.3

| Scope 3 | FY 2020-21 | FY 2021-22 | FY 2022-23 |
|-------------------------------|-----------------|----------------|-----------------|
| Employee commute | 18,055 | 16,969 | 28,193 |
| Business travel | 13,538 | 20,456 | 57,934 |
| Waste | 140 | 153 | 101 |
| Upstream Fuel + energy | 53,937 | 71,650 | 67,017 |
| Purchased goods/services | 2,15,830 | 88,104 | 87,287 |
| Upstream leased assets | 12,606 | 10,381 | 7,293 |
| Work from home emissions | 36,230 | 36,639 | 23,968 |
| Total Scope 3 emission | 3,50,336 | 244,352 | 2,71,793 |

Table 1.1.4

| Scope 1 & scope 2 split | FY 2020-21 | FY 2021-22 | FY 2022-23 |
|-------------------------|------------|------------|------------|
| Offices | 84,140 | 72,884 | 61,467 |
| Data centers | 13,207 | 9,660 | 7,293 |

Table 1.1.5

| Emission Intensity Scope 1 & 2 | FY 2020-21 | FY 2021-22 | FY 2022-23 |
|---------------------------------------------------|------------|------------|------------|
| India office owned (kg CO2 per sq. Mt. per annum) | 108 | 87 | 59 |

For further details, Please refer Wipro Annual Report

<https://www.wipro.com/content/dam/nexus/en/investor/annual-reports/2022-2023/integrated-annual-report-2022-23.pdf>

<https://www.wipro.com/content/dam/nexus/en/investor/annual-reports/2022-2023/esg-dashboard-fy-2022-23.pdf>

Wipro is a founding member of 'Transform to Net Zero': A global alliance to accelerate the transition to a net-zero global economy. **Our Net Zero Commitment: We're committed to contribute to planetary Net-Zero Greenhouse Gas emissions targets by reducing our emissions to zero by 2040 and Near Term Target of 59% reduction (Scope 1&2) by 2030 & 100% RE by 2030.**

[Read more at wipro.com/sustainability](https://www.wipro.com/sustainability)

Online Indoor Air Quality (IAQ) monitoring at workplace



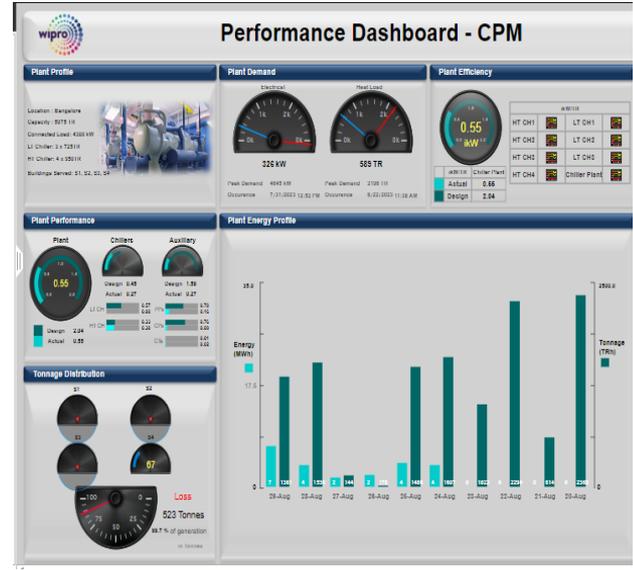
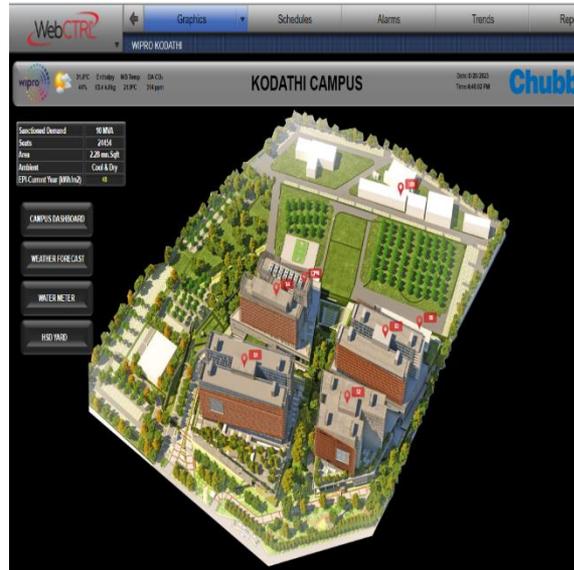
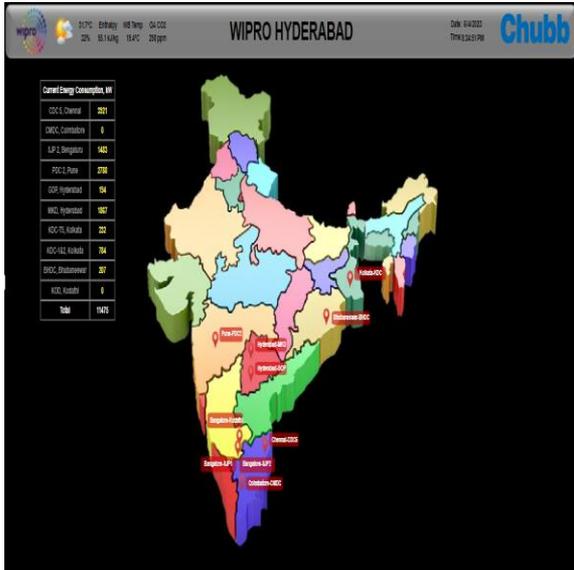
Air handling units provided for DOAs are Eurovent certified units with 2 stage filtration system with UV lamps and refrigerant heat pipes. Fresh air VAV's provided in the DOA unit distribution ensures supply of fresh air based on space CO₂ demand. All the fans in DOA units are of EC fans for better energy efficiency.

We have installed IAQ sensors at work places which monitors Temperature, RH, CO₂, PM_{2.5} and TVOC parameters on continuous basis. IAQ sensor is tested and certified by the RESET standard for accuracy, and fully compliant with the WELL v2 building standard for performance.

We have used best practices of ISHRAE and IGBC and incorporated continuous monitoring of RH, CO₂, PM_{2.5} and TVOC through IAQ sensor and other parameters are measured through external agency in all ODCs at regular interval.

Building Management System

- We have Robust Building Management System with Web Control 6.5 Devolved by ALC integrated with the help of Chubb system
- Centralized Command Center also Established to Monitor the Pan India facilities.
- Various insights on the buildings are monitored like EPI, Comfort Index, Chiller Performance, Weather Station, Energy Profiles, etc.



Teamwork, Employee involvement and Monitoring

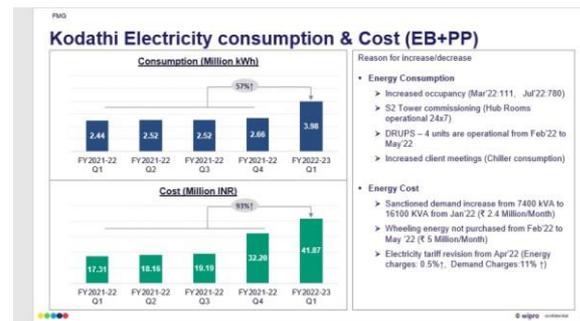
BMS System to monitor energy consumption



Internal Portal to update energy, water and waste data

| Site | Date | Status | Assigned To | EB Units | Upload EB Bill Evidence | Green RE Units | DG Units |
|---------|----------|--------------------------|-----------------------------|-------------|-------------------------|----------------|------------|
| Kodathi | Jun 2022 | Review by Corporate Team | Raghu S M, Hegesh J Mahr... | 111900 kWh | EB_Bil_Jun_2022 | 1275000 kWh | 12900 kWh |
| Kodathi | May 2022 | Review by Corporate Team | Raghu S M, Hegesh J Mahr... | 1307700 kWh | EB_Bil_May_2022 | 0 kWh | 112710 kWh |
| Kodathi | Apr 2022 | Review by Corporate Team | Raghu S M, Hegesh J Mahr... | 1284000 kWh | EB_Bil_Apr_2022 | 0 kWh | 80120 kWh |
| Kodathi | Mar 2022 | Review by Corporate Team | Raghu S M, Hegesh J Mahr... | 1070100 kWh | EB_Bil_Mar_2022 | 0 kWh | 31280 kWh |
| Kodathi | Feb 2022 | Review by Corporate Team | Raghu S M, Hegesh J Mahr... | 748700 kWh | 2 Files | NA kWh | 44700 kWh |
| Kodathi | Nov 2021 | Review by Corporate Team | Raghu S M, Hegesh J Mahr... | 512900 kWh | EB_Bil_Nov_2021 | 7700000 kWh | 68410 kWh |
| Kodathi | Dec 2021 | Review by Corporate Team | Raghu S M, Hegesh J Mahr... | 281600 kWh | EB_Bil_Dec_2021 | 6500000 kWh | 33260 kWh |

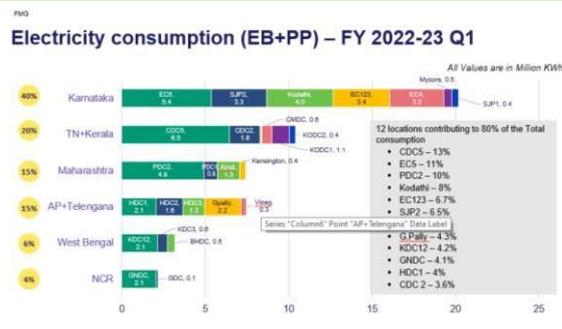
Quarterly review of energy performance



Energy Performance is reviewed on monthly basis by FMG Head – PAN INDIA



| Site | Date | Status | Assigned To | EB Units | Water | Waste |
|---------|----------|--------------------------|-------------|----------|--------|-------|
| Kodathi | Feb 2022 | Review by Corporate Team | Raghu S M | 5616.0 | 4913.0 | 12.52 |
| Kodathi | Mar 2022 | Review by Corporate Team | Raghu S M | 8480.0 | 7551.0 | 10.74 |
| Kodathi | Jan 2022 | Review by Corporate Team | Raghu S M | 5419.0 | 4237.0 | 21.8 |
| Kodathi | Dec 2021 | Review by Corporate Team | Raghu S M | 4299.0 | 3782.0 | 12.03 |
| Kodathi | Nov 2021 | Review by Corporate Team | Raghu S M | 3711.0 | 2063.0 | 21.9 |
| Kodathi | Oct 2021 | Review by Corporate Team | Raghu S M | 2478.0 | 1776.0 | 28.33 |
| Kodathi | Sep 2021 | Review by Corporate Team | Raghu S M | 3853.0 | 2045.0 | 46.92 |
| Kodathi | Aug 2021 | Review by Corporate Team | Raghu S M | 3672.0 | 1864.0 | 30.24 |
| Kodathi | Jul 2021 | Review by Corporate Team | Raghu S M | 3046.0 | 1514.0 | 50.2 |



ISO 50001 - EnMS



MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: CS50016 Initial certification date: 10 August 2022 Valid: 10 August 2022 – 09 August 2025

This is to certify that the management system of
Wipro Limited
SJP2- SEZ BLR Special Economic Zone (SR) Sy. No. 69(P), 71/4(P), 78/8A(P), 134(P), 76(P),
77, 135(P), 79/1A,70,71(P), Doddakannelli Village, Varthur Hobli, Sarjapur Road, Bangalore -
560035, Karnataka, India
and the sites as mentioned in the appendix accompanying this certificate
has been found to conform to the Energy Management System standard:
ISO 50001:2018

This certificate is valid for the following scope:
**Delivery of software solutions, software application services, customer support with ITES
management, mechanical and electronic testing services, and support of IT infrastructure
services.**

Place and date:
Barendrecht, 18 August 2022

For this issuing office:
DNV - Business Assurance
Zuivolkweg 1, 2994 LB Barendrecht,
Netherlands



Eric Haas
Management Representative



Level of fulfillment of conditions as set forth in the Certification Agreement may render this Certificate invalid.
ACCREDITED UNIT: DNV Business Assurance B.V., Zuivolkweg 1, 2994 LB, Barendrecht, Netherlands. TEL: +31(0)202922801. www.dnv.com/certification

Wipro Kodathi Campus is Certified for
ISO 50001:2018 from FY 2022-23
Onwards & recently We had Successfully
completed the PA1.

IGBC Certification

Kodathi campus achieved "Platinum" rating under IGBC Green New Building Rating system



Indian Green Building Council (IGBC)

hereby certifies that

Kodathi IT/ITES SEZ Campus – Blocks S1 to S5 Wipro Limited, Kodathi, Bengaluru

(IGBC Registration No. NBO 18 0246)

*has successfully achieved the Green Building Standards required for
the following level of certification under the*

IGBC Green New Buildings Rating System

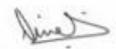
(Owner-Occupied Building)

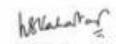
Platinum

17 March 2023

(This certification is valid for next 3 years)


C N Raghavendran
Chair, IGBC Green New Buildings


Gurmit Singh Arora
Chairman, IGBC


K S Venkatagiri
Executive Director, CII-Gedrec IGB

Awards in 2020 - 2023

CII – Green Building Congress



Kodathi campus awarded in CII – Green Building Congress 2018 India’s Annual Flagship Event on Green Buildings

CII - Excellent Energy Efficient Unit



Kodathi campus awarded as “Excellent Energy Efficient Unit” in Buildings sector during CII National Award for Excellence in Energy Management 2021

CII - Excellent Energy Efficient Unit



Kodathi campus awarded as “Excellent Energy Efficient Unit” in Buildings sector during CII National Award for Excellence in Energy Management 2022

Golden Peacock - Energy efficiency



Kodathi campus won “Golden Peacock Award for Energy Efficiency” for the year 2021 in IT Sector

Environment Excellence award



Kodathi campus awarded “Winner” for Services Sector in Environment Excellence Awards 2022

Awards in 2020 - 2023

Operational Excellent Award



Kodathi campus awarded three awards Q1 Bronze, Q3 Bronze & Q4 Gold for “Operational Excellent Award” 2021 - 2022

Office Innovation award



Kodathi campus won two awards for “Digital checklist” and “IAQ monitoring” in CII National Office Innovation Competition 2022

Operational Excellent Award



Kodathi campus awarded 2nd Runner up Award Q3 “Operational Excellent Award” 2021 - 2022

CII-SR EHS Excellence Award



Kodathi campus awarded “5 Star Rating” for Excellence in EHS Practices in the CII-SR EHS Excellence Award for the year 2020

Awards in 2020 - 2023

**CII-SR EHS
Excellence Award**



**Kodathi campus grabbed
Bronze award for their
Commitment in EHS
Practices 2022**

**ICC National Occupational
Health & Safety**



**Kodathi campus
awarded as “Gold
Runner Up Services” in
4th ICC National
Occupational Health &
Safety Award 2022**

**CII-SR EHS
Excellence Award**



**Kodathi campus
awarded “5 Star Rating”
for Excellence in EHS
Practices in the CII-SR
EHS Excellence Award
for the year 2020**

**CII-SR EHS
Excellence Award**



**Kodathi campus
achieved “3rd Place” for
EHS Excellence in the
CII-SR EHS Excellence
Award for the year 2020**

**Waste reduction –
Innovative technology**



**Kodathi campus
awarded for “Innovative
Technology for
reduction in waste”
during CII - Southern
Region Waste
Management -2021**



Certifications

| ISO Certification | | IGBC Certification |
|----------------------|--------------------------------------------------|---------------------------------------------------------|
| Standard | Details of Management System | Validity |
| ISO 9001:2015 | Quality Management System | 02 Jan' 21 – 01 Jan' 24 |
| ISO 14001:2015 | Environmental Management System | 07 Feb' 21 – 06 Feb' 24 |
| ISO 45001:2018 | Occupational Health and Safety Management System | 07 Feb' 21 – 06 Feb' 24 |
| ISO 22301:2012 | Business Continuity Management System | 22 Dec' 20 – 30 Dec' 23 |
| ISO/IEC 27001:2013 | Information Security Management System | 19 Sep' 20 – 18 Sep' 23 |
| IGBC | India Green Building council | 17 Mar' 23 – 17 Mar' 26 |
| ISO/IEC 20000-1:2018 | IT Service Management System | 04 Dec' 20 – 04 Dec' 23 |
| ISO50001:2018 | Energy Management System | 01st Aug 22 – 01st Aug' 25 |

Net Zero Action Plan

Wipro's commitment to Net Zero:

Wipro is one of the first 7 companies globally to have Net Zero goals validated against the Net Zero standard from SBTI (Science Based Targets Initiative). Our focus is on direct decarbonization approaches.

Near-Term Targets

Wipro commits to reduce absolute scope 1 and 2 GHG emissions 59% by FY2030 from a FY2017 base year, * and absolute scope 3 GHG emissions 55% by FY2030 from a FY2020 base year. We are also committed to reach 100% RE by 2030.

Action Plan

Our newer buildings in Bengaluru and Hyderabad are benchmarked against the global best – These new buildings also avoid use Internal to Wipro of UPS batteries and eliminates the environmental impact pertaining to battery manufacturing and disposal.

For existing campuses, measures include new retrofit technologies to improve Chiller and Air Handling Units (AHUs), UPS optimization, integrated design, and monitoring platforms.

The Global Energy command center aggregates Building Management System (BMS) inputs on a common platform to optimize operational control and improve energy efficiency. Around 15 million square feet across India are connected to the BMS. The operations platform comes with ability to address every element of the system at the equipment level and provides advanced algorithms for analytics to monitor performance. Any deviation is tracked and rectified with in-house / OEM support. We have started a program for adoption of ISO50001 Energy management system across our campuses.



Thank You