

ENVIRONMENT

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UN SDGs aligned



Environmental vision

Serve the preservation of our planet by shaping and sharing technology solutions

Adopt, invent and spread smarter ways to mitigate GHG emissions, reduce energy consumption, manage water and waste. To make our planet stronger by consistently embracing clean tech in our operations and client solutions, thereby minimizing the impact on nature.



Performance on environmental goals

Environment vision

Serve the preservation of our planet by shaping and sharing technology solutions

Material topics	Ambitions	Progress in fiscal 2023
 Climate change	<ul style="list-style-type: none"> Maintaining the carbon neutrality across Scope 1, 2 and 3 emissions every year Reducing absolute Scope 1 and 2 greenhouse gas (GHG) emissions by 75%⁽¹⁾ Reducing absolute Scope 3 GHG emissions by 30%⁽²⁾ Engaging clients on climate actions through our solutions 	<ul style="list-style-type: none"> Carbon neutral across Scope 1, 2 and 3 emissions Reduced Scope 1 and 2 GHG emissions by 49.92% over the BAU scenario Reduced absolute Scope 3 emissions by 50.15% over the 2020 baseline >30% of our client engagements include climate-change solutions
 Water	<ul style="list-style-type: none"> Maintaining 100% wastewater recycling every year 	<ul style="list-style-type: none"> 100% of the wastewater in our campuses is recycled
 Waste	<ul style="list-style-type: none"> Ensuring zero waste to landfill 	<ul style="list-style-type: none"> We embarked on a journey of obtaining TRUE ZERO WASTE Certification through GBCI for our owned campuses in Bengaluru, Chennai and Pune in fiscal 2023

Note

⁽¹⁾ Corresponds to 75% renewable energy usage globally. This will be measured annually against the business-as-usual (BAU) scenario, which refers to regular operations without interventions such as renewable power or energy conservation initiatives.

⁽²⁾ Measured against the 2020 baseline. Includes business travel, employee commute, and transmission and distribution losses as per ESG Vision 2030.



Climate change



Infosys Nagpur campus

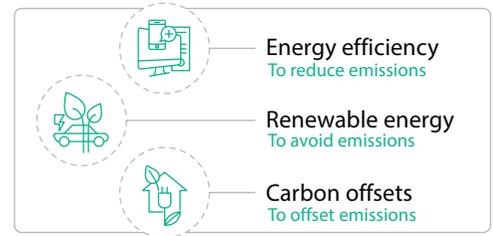
Human activity has been increasingly driving the rise in global temperature, which has reached approximately 1.1° C above pre-industrial levels. This has led to rapid and widespread impact on global climate systems. The year 2022 was marked by record droughts, heat waves, forest fires, floods, and a record low level of the Antarctic Sea ice, crippling human population across the world. Despite the Paris Agreement of 2015 reaching a milestone in cooperation among various countries to adopt strong measures for limiting global warming to 1.5°C, the pace or scale of action has not been adequate to achieve the stated goals. As a step

to mitigate the impacts of climate change, nations have adopted the Glasgow Climate Pact in 2021 with a goal to transform the 2020s into a decade of climate action and support. The World Economic Forum's 2023 Global Risks Report focuses on the various sectors where the world is at a crucial juncture, calling for action to get ready for possible future catastrophes, while on the other hand, striving to build resilience. The signatories to the Paris Agreement, including India, have put forward their commitments to reduce Greenhouse Gas (GHG) emissions in the form of INDCs (Intended

Nationally Determined Contributions) based on their capabilities, circumstances and priorities.

At Infosys, climate change considerations continue to play a key role in all strategies: from mergers and acquisitions to leasing new offices and engagement with our stakeholders. While continuing to remain carbon neutral, Infosys also integrates strong efforts to better our sustainability performance by consistently embracing clean technology in our operations and client solutions, thereby minimizing the impact on the environment.

Approach to carbon neutrality



CARBON NEUTRAL in 2023, making it the fourth year in a row 

Infosys' climate commitments

- As a part of our ESG Vision 2030, we have committed to maintaining carbon neutrality across Scope 1, 2 and 3 emissions, each year.
- Our Climate Pledge, in partnership with Amazon and Global Optimism, is to become net zero by 2040.
- Infosys is the first Indian company to participate in the RE 100 initiative and set an internal carbon price.
- Our emission reduction targets are validated by the Science Based Target Initiative (SBTi).

Emission reduction strategies

Our strategy for carbon neutrality remains the same—continue to reduce our Scope 1, 2 and 3 emissions and offset the remaining emissions.

Scope 1

- Better operational efficiency of our Diesel Generator sets
- Better management of fugitive emissions from HVAC units
- Transition to Electric Vehicles (EVs) for company-owned vehicles

Scope 2

- Design and build or lease new offices with low Energy Performance Index (EPI)
- Retrofit old buildings to improve EPI
- Source renewable power

Scope 3

- Include a hybrid working model
- Promote EVs among employees
- Promote carpooling, public transport, and low to zero-emission modes of commute among employees
- Optimize business travel
- Adopt a life cycle approach for capital goods

Emission reduction strategies

Energy efficiency

The growth of the IT sector has been phenomenal in the past decade and this has led to a major expansion of the Infosys workforce.

Keeping this growing demand in mind, Infosys has been a pioneer in building sustainable campuses. From creating lush green campuses to implementing innovative technologies like radiant cooling, Infosys has deployed one of the largest enterprise-level energy conservation programs globally and achieved significant reduction in resource intensity over the past 15 years.

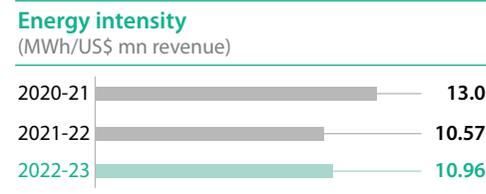
Our buildings are the primary consumers of energy. We are committed to building our new infrastructure in a sustainable manner and pursuing energy efficiency projects in existing infrastructure. We will continue to implement innovative technologies in buildings and collaborate with experts and academia to ensure our infrastructure is greener and smarter. The focus areas for energy efficiency measures in green buildings and existing buildings continue to be lighting, air-conditioning, automation, UPS, building façade, data centers, and server rooms.

In this process, we have not only achieved some of the global best standards in green buildings, but we have also set new benchmarks in green building certification.



Infosys Hyderabad campus in Gachibowli

In fiscal 2023, we consumed 199.66 Million kWh power in our operations across the globe.



28.9 mn sq.ft.

with highest level of green certification



Life Cycle Analysis (LCA) of buildings

Being a leader in design and construction of sustainable buildings, Infosys is doubling its efforts to reduce carbon emissions by considering a LCA of buildings that looks at the upstream and downstream carbon emissions during their life cycle. This information is used to make a comparative analysis of alternative materials and construction technologies that can help reduce overall environmental impact.

The LCA can be used for the following purposes:

1. Identify potential for improvement of environmental performance.
2. Comparison of environmental performance using alternative materials.
3. Documentation of environmental performance for certification, labelling and marketing.
4. Drive our climate action agenda across our supply chain.

Infosys Kolkata's LCA-based approach has set an example for the rest of the corporates.

Command Center Data - the New Oil

By collecting and reporting data metrics, companies can better understand the impact of their operations on the environment, society, and governance. This data helps in arriving at a baseline against which emissions reduction can be tracked and monitored including inefficiencies, leakages, and excessive usage of resources.



The Command Center in Infosys Bangalore

Infosys collects data continuously through its command centers. This command center allows us to schedule 'auto-pilot operations' using a built-in intelligence system. This has enabled us to monitor over 35 mn sq. ft. of office space. Analyzing this granular data, Infosys has made informed decisions in new building design and improved operational efficiencies.

Our command center has also allowed us to adopt a data-driven operations approach to manage, on a real-time basis, occupant comfort, indoor air quality, energy intensity, water intensity, the health of critical assets, critical operations, renewable energy generation, water and waste treatment, and the overall performance at all levels within all our buildings in our campuses.

This data has played an instrumental role in facilitating Infosys to be a leader in carbon neutrality and setting high benchmarks in the industry.

Renewable energy

Greening the energy mix

To enhance its efforts towards meeting the environmental goal of carbon neutrality, Infosys has adopted the use of renewable energy in its power mix. Infosys has set up solar PV panels on the rooftops of office buildings. In total, Infosys has 14.4 MW of rooftop and ground mount solar PV panels. Further Infosys has set up a 40 MW captive solar power plant at Sira, Karnataka. In total, Infosys has 60 MW of total installed solar capacity.

Infosys also procures green energy through third-party power purchase agreements. Through these measures, Infosys has 57.9%

share of renewable energy in its power mix for India operations.

Infosys Hyderabad and Bhubaneswar are utilizing renewable energy from the recently-launched green tariff mechanism for Commercial and Industrial (C&I) consumers.

57.9%

of electricity for our India operations are from renewables



The solar field at the Infosys Hyderabad campus

Nurturing social development

Carbon offset program

Infosys was among the first corporates to commit to bold climate action. The Company took up active measures to reduce and streamline the energy demand in its campuses. This demand-focused approach helped in reducing carbon emissions to a great extent. Infosys has also invested in renewable energy (solar PV) plants to avoid emissions. However, there are unavoidable emissions due to business travel, employee commute etc., that had to be offset to achieve carbon neutrality.

Infosys' carbon offset program has carefully selected grassroots social development projects, implemented them at scale to

generate emission offsets. While this approach requires careful long-term planning, intense due diligence, and strict management control, it is significantly more rewarding.

Infosys partnered with local NGOs to undertake projects in rural India that would benefit society. These projects include improved cookstoves and household biogas plants, which improved rural livelihoods, community health and social harmony. Improved indoor air quality and diversified income have ensured a better standard of living for women and children.

2,40,000+

rural families continue to benefit from our carbon offset programs



Since 2016, we have implemented eight efficient cookstove projects, four biogas, one each of rural electrification and integrated community-based projects (solar, cookstove, street lighting and public health center) across India.

Carbon neutral events

Infosys organizes a few public events through the year. In 2023, Infosys envisioned to make these events a hallmark of sustainability. Environment-friendly measures, like the use of sustainable construction materials, water conservation measures and zero plastic use, emphasized Infosys' holistic approach to sustainability. Detailed carbon emissions were calculated for the travel of the participants to the event. These were then compensated by Infosys' carbon credits. This effort made all the major events organized by Infosys in 2023 carbon neutral with minimum impact on the environment.



Improved cook stove



Self sustained Biogas unit

Engaging clients on climate solutions

Climate solutions

Infosys continues to strengthen its position in delivering practical, impactful, ethical and holistic ESG solutions to its clients based on the following strengths:



Strong Delivery capabilities

Strong delivery capabilities focusing on:

- **Efficiency:** Reduced costs and resources
- **Intelligence:** Deep data analytics and reporting
- **Innovation:** Operations, Supply Chain, Facilities, Products, Services, Living Labs and Centers of Excellence
- **Growth:** New revenue streams

Services: ESG Data and Analytics | Green IT | Energy Transition | Smart Spaces | PLM Circularity | Decarbonization | ESG for Finance | ESG as a Service | Sustainability Advisory and Sustainable Procurement

Carbon neutrality leadership

Infosys became carbon neutral in 2020, thirty years ahead of the timeline set by the Paris Agreement. As part of our ESG vision 2030, we have committed to be carbon neutral each year.

- Deep, internal expertise spanning over a decade
- Direct positive impact on client ESG metrics as a carbon neutral service provider

Achievements: Strong sustainability credentials: (Carbon Neutral 4 years in a row across Scopes 1, 2 and 3 | 28.9 mn sq.ft. of office space with the highest level of green building certification | 60 MW Installed Solar capacity | Community-based Carbon Reduction programs)

Thought leadership

- Recognized as a sustainability leader
- Rated as a top provider of sustainability services
- Research and innovation

Recognition: WSJ: “World’s 100 Most Sustainably Managed Companies” | Ethisphere “World’s Most Ethical Companies” | UN: Global Climate Action Award | Global ESG Leadership Ratings

Partnerships

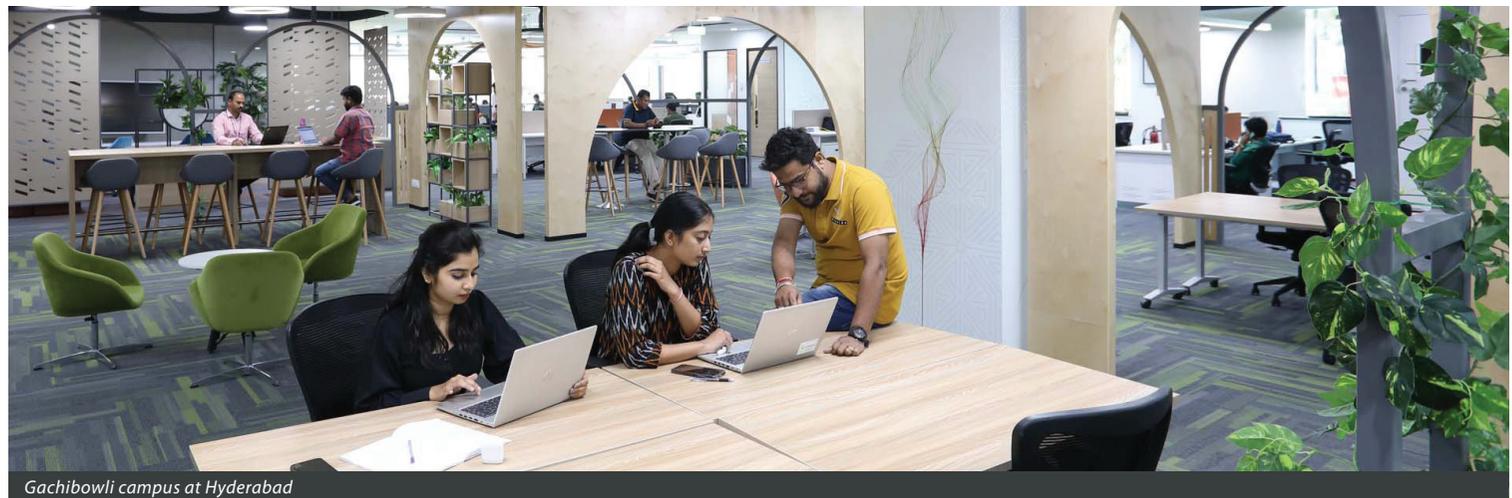
In fiscal 2023, we saw increased traction in our client conversations on sustainability. We signed up for a number of engagements with the clients. Our new offerings included 10 projects featuring ESG reporting services and Green IT offerings. We also piloted our award-winning blockchain traceability solution at two clients.

- Major technology and solution providers
- Major research institutions
- Governmental and non-governmental organizations

Partnerships: Google, AWS, Microsoft, SAP, IBM, Salesforce, and hundreds more | The Economist Group, Financial Times | MIT, UC Berkeley, Arizona State Univ. | World Economic Forum

ESG / sustainability offerings

- Circular PLM
- Decarbonization
- Energy transition
- ESG finance and investments
- Smart spaces
- Sustainable procurement
- ESG data reporting and analytics
- Green IT
- Sustainability advisory



Gachibowli campus at Hyderabad

Growing our public / private partnership footprint

Infosys campus as case study for international delegates



Infosys Crescent campus in Bengaluru was selected as an energy efficiency showcase for delegates of the G20 Energy Transition Working Group. The visit showcased the focused approach to net zero design and innovative technologies implementation in the campus to achieve energy conservation.

G20 member countries represent over 80% of the world GDP and 60% of the world population, and is committed to the implementation of the Paris Agreement which aims to limit global warming below 1.5°C. The urgency to reduce GHG emissions across the globe underlines the need to

achieve net zero carbon commitment across the board. It was indeed an honor for Infosys to have been selected to showcase its commitment to environment and leadership in climate action.

This was followed, in March 2023, by a visit of a BIMSTEC (Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation) delegation to Infosys campus, with a similar objective of understanding the net zero approach and the innovative technologies implemented for reducing energy demand and thereby carbon emissions.

Cradle 2 Commerce – Lawrence Berkeley National Labs and US Department of Energy

To accelerate critical climate solutions to market, Infosys has teamed up with the Lawrence Berkeley National Laboratory (LBNL). LBNL has been granted major funding by the US Department of Energy (DOE) to run Cradle to Commerce (C2C). C2C is a three-year program that will deploy scientifically validated, commercially viable IP from multiple national labs, provide unprecedented access to entrepreneurs and inventors to scientific and business resources, and support a just and equitable energy transition. C2C is designed to overcome obstacles to clean energy and climate tech commercialization in four domains: smart grid, decarbonized buildings, solar / renewable energy, and nuclear energy.

Together, we are leading the way in entrepreneurship and scientific vetting of technologies as a dovetailed public and private sector team, which is accelerating climate action through an unprecedented combination of robust scientific validation and business model innovation.

Europe's Earthshot

Infosys is participating in Europe's Energy Earthshot, a whole-of-system design process for catalyzing the continent's energy transformation. Launched in October 2022, hundreds of European stakeholders are co-creating and collectively advancing solutions for a just and inclusive clean energy future. As a "B-Team member," we collaborate with civil society, governments, experts and corporate leaders to accelerate the transformative action needed to build a better tomorrow, today.

AWS Sustainability Day

Infosys teamed up with the AWS Sustainability Day, a premier invite-only day of inspirations, thought leadership, and panel discussions designed for leaders who have a vested interest in sustainability, IT professionals, and builders across all industries who are committed to reducing costs while protecting the environment.



AWS Sustainability Day - panel discussion

A glimpse into some of our solutions

Advanced Engineering Group (AEG) has been at the forefront of engineering and technology innovations at Infosys. Towards this, AEG delivered many high value, complex and technically challenging programs, spearheading cutting edge technologies, innovation and differentiated growth for engineering services.

Connected Ops on Cloud

Infosys has developed "Connected Ops on Cloud" solution / IP. This is a cloud first platform consisting of multiple micro applications related to Manufacturing Operations like Overall Equipment Effectiveness (OEE), Predictive Maintenance, Energy Monitoring, and Maintenance Management. This solution is already deployed at multiple clients and at the recently concluded Hannover Messe Germany, this was part of the AWS IDF (Industrial Data Fabric) solution.

Industry 4.0 led digital transformation and sustainability focus

For one of the largest Aircraft Maintenance, Repair and Overhaul (MRO) providers, Infosys is defining and executing a digital transformation strategy focused on reducing their carbon footprint by implementing a Digital Factory solution at scale across the client's manufacturing, assembly, and MRO factories across the globe. The solution contains several parts such as real-time overall equipment effectiveness (OEE), condition-based monitoring of assets, real-time asset tracking, smart asset maintenance, intelligent planning and dynamic scheduling. The client achieved a 10% improvement of OEE resulting

in an additional production of 10%. With the adoption of smart planning algorithms for better machine and workforce utilization, energy, and waste management solutions, Infosys helped to reduce the carbon footprint by over 10% for each of their 20 plants.

Support to a global research facility to cut carbon emissions

A global research facility wanted to reduce its carbon footprint and establish itself as a leader in its field. Infosys assisted them by using materiality assessment frameworks to identify target ESG areas, ranking them from highest to lowest in impact and priority. The client's wider procurement rules and processes were updated to new environmentally responsible policy and processes through workshops and online sessions, particularly with category managers. Specific training courses were created for teams and individuals. To identify and negotiate the optimal solution for the requirements of the client, an assessment of external ESG best practice measurement tools was also done.

Sustainable materials traceability

Infosys partnered with a leading apparel manufacturer to develop a road map of digital product traceability through digital product identification. The identification process links physical products with the digital world to improve product authentication. To track the client's progress on the goals of its 'Design the Change' initiative, Key Performance Indicators (KPIs) were established. Estimated fabric content and sustainable fabric content were calculated to provide accurate labeling of fabric quality through DataIKU and MicroStrategy.

Infosys also helped implement a report system to track the client's sustainability goals through sustainable product certificate validation, product authentication, digitized value chain, sustainable product KPIs, pre-production sustainability standards and calculated sustainable fabric content. This would accelerate the client's journey towards achieving the target of having 100% of a unit's production meet at least one of the sustainable material criteria by 2025.

Live and accurate GHG reporting for carbon neutrality

A leading consumer goods company set sustainability goals for net zero emissions (Scope 1, 2, 3). The company aimed for 100% of carbon strategic suppliers to set science-based targets by 2025 and use 100% renewable electricity by 2030. Infosys offered a solution which focused on creating data products related to Scope 1, 2 and 3 emissions defined by the GHG Protocol, while also helping to define KPIs to track progress. The objective was to integrate data to provide a single cross-system ID for consolidated reporting and curating GHG protocol-compliant data products through live, automated and accurate reporting, which would further reduce compliance risks.

Measuring environmental impact of waste

A major waste processor approached Infosys to develop a sustainability data hub, the first of its kind in the industry, to gather, organize and report measured and calculated waste volumes, and the resultant environmental impacts. Infosys helped in the integration of

data from multiple transactional, operational, and billing systems, across multiple regions. Infosys also aided the development of a balanced scorecard to deliver near-real-time operational waste metrics. The API and dashboard-enabled data hub helped in delivering daily output and analysis of waste and diversion volumes, including resultant emissions.

Support for energy management for a leading pharma company

Infosys' deep experience and expertise in energy management enabled it to help a leading pharma company enhance energy performance. Infosys' systematic approach helped identify key areas of improvement to facilitate incident management and business processes in the context of their environmental performance. Leveraging technology, the client was able to monitor and publish yearly / quarterly reports on their environmental performance.

Global rollout of Employee Health Scheme (EHS) product portfolio for a pharma major

Infosys focused on delivering on the client's need to enhance employee health and wellness by bringing innovation in the implementation of different initiatives and programs. Infosys helped in developing a continuous monitoring approach, thus ensuring the compliance applicable within the geographical boundary, which fostered efficient internal and external stakeholder communication on risk, performance and progress. Infosys analyzed the client's EHS data and proactively minimized the detrimental

EHS impact of their products throughout their lifecycle. This effort successfully resolved the client's requirement of selecting responsible suppliers and business partners.

Rollout of EHS product portfolio for American multinational

Infosys enabled the digital transformation of an EHS product portfolio for an American multinational involved in heating, ventilation, and air-conditioning solutions. With a systematic approach, Infosys helped enhance the client's time-to-market. This facilitated faster data collection, contextualization, and data aggregation to ensure that sustainability metrics are properly published addressing stakeholder expectations. Infosys also helped ensure optimal functionality for the EHS modules of the client.

Mobile and web implementation of incident management for railroad firm

Infosys implemented a system to enable the client, a railroad firm, to have the flexibility to facilitate daily operations. With its deep experience and expertise in data management, Infosys helped to handle sensitive data and prevent problems in a timely manner. Infosys developed apps to enable the client to enhance its EHS performance while also leveraging technology to monitor, report and effectively manage the digital transformation.

Advanced robotic solution to clean and coat conductors

Infosys supported the sustainability agenda of the Prysmian Group by partnering for a key project. Infosys designed and developed the E3X Robot System for cleaning and coating the overhead conductor, which has the potential to work both in energized and unenergized conditions. This robotics innovation project is a great innovation for the energy and utilities industry.

End-to-end energy service solution for large REIT client

Infosys helped one of its REIT (Real Estate Investment Trusts) clients implement a sustainable logistics system by offering an end-to-end energy service solution that focused on energy savings and supply insights of the client's warehouse customers. The system effectively implemented data collection across EV charging, EV utilization, as well as third-party data across multiple sites and geographies. This optimized energy solution integrated with a modular technology platform not only enhanced the client's progress towards sustainability goals but also reinforced Infosys' commitment to being a driver in the clients' impactful ESG transformation.

ESG integrated reporting for a large FSI

When a large financial services company sought to build an ESG platform to assess climate risks and their impact on other risks (credit, market, operational and others), Infosys offered a comprehensive solution for emissions reporting along with a risk management and scenario analysis framework. The goal was to report financed emissions internally and externally, forecast emission intensity and temperature alignment of the company's portfolio to well below the 2-degree scenario (Paris Agreement) and to achieve net zero greenhouse gas emissions from its operations, supply chain and financing activities by 2050. A solution was formulated to create a process to set risk appetite limits and track exposure against those limits.

Sustainability data for investment management

Regulatory requirements to report an organization's sustainability performance are becoming complex and global. At the same time, asset stewardship and engagement reporting requires organizations to create on-demand reports along with standard ones.

To centralize and share ESG technology and operations data across business areas, Infosys worked on leveraging ESG and climate data sets for client and product reporting. Infosys has outlined a simplified and scalable solution to support asset stewardship, ESG investments, enterprise risk, and client, product and regulatory reporting along with automated processes for productivity gains. The aim was to enhance ESG Business Intelligence (BI) reporting capability to assist business groups and client Queries via a strategic data platform activation.



Water conservation



Rainwater harvesting at Infosys Hyderabad

UNICEF estimates that by 2025, more than 50% of the world's population could live in areas with scarce water resources. Due to severe water scarcity, 700 million people could lose their lives by 2030. To address this challenge, it is crucial to develop sustainable systems that can efficiently store and use fresh water. Moreover, there is a need for land management techniques that preserve the integrity of the water cycle. We, at Infosys, are committed to minimizing our water footprint and improving water accessibility in the communities in which we operate.

Since 2000, the frequency and length of droughts have increased by almost a third

globally due to climate change, and as a result, more than 2.3 billion people worldwide are presently experiencing water stress. Understanding the significance, the UN CEO water mandate experienced historic growth, and its Water Resilience Coalition, which places global water stress on corporate agenda's, also experienced record growth. As a signatory to the UN CEO Water Mandate, we commit to enhancing our operational water conservation procedures and expanding our community outreach. We are committed to water conservation through the 3R (Reduce, Reuse, Recycle) strategy.



We have evaluated the water stress zones in line with the WRI guidelines for all our locations globally. The details of water stress zones and withdrawals are available in BRSR. 100% of our water withdrawal from various sources has Total Dissolved Solids (TDS) which is less than 1,000 mg/L and hence considered as fresh water.

We are continuously preparing our campuses to be water sustainable by reducing freshwater intake and implementing water conservation initiatives. Retrofits and consolidation in building operations brought down freshwater consumption in various locations. Our freshwater consumption is solely for human sustenance and hence, we believe we do not significantly impact water resources. We are focused on reducing our freshwater consumption through many initiatives. A comprehensive water management strategy has been devised to achieve water sufficiency. Water usage is reduced through demand side measures and 100% of wastewater is recycled within our campuses.

Water Intensity (KL/MUSD)

2020-21	96.39
2021-22	80.46
2022-23	124.90

Rainwater harvesting

Rainwater harvesting is an important part of our water stewardship goal. Our India campuses are equipped with rooftop rainwater harvesting, harvesting tanks, recharge wells and artificial lakes. These reduce our external freshwater dependency and also help to replenish the groundwater table in the areas we operate in. Our campuses in Chennai MCity, Thiruvananthapuram, Hyderabad and Bengaluru have achieved maximum rainwater harvesting last year. We are continuing efforts to strengthen rainwater harvesting in our other India locations too.

Rooftop rainwater harvesting

Rooftop rainwater harvesting systems have helped us offset freshwater purchases from external sources.



The rooftop rainwater harvesting filter near SDB 1 in Infosys Chandigarh

Artificial lakes and deep water injection wells

We have built groundwater injection wells at our Bengaluru, Chandigarh, Chennai, Hyderabad, Jaipur, Mysuru and Pune campuses.

Injection wells and artificial lakes are useful in replenishing the groundwater table.

We have augmented the capacity of the following lakes during the year.

Location	Capacity
Chennai MCity - 1	750 KL
Chennai MCity - 2	450 KL
Bhubaneswar SEZ	5,250 KL
Jaipur	400 KL



An artificial lake created in Infosys Jaipur

Waste water treatment and reuse

Upgrade of STP to Membrane Bio Reactor (MBR)

Non-MBR Sewage Treatment Plants (STPs) were upgraded to MBR technology to improve treated water quality and utilize treated water for all recycling purposes. In fiscal 2023, we have upgraded the STP plants in Chennai Sholingnallur, Nagpur, Pune Phase I locations.

Location	Plant capacity	MBR Upgrade
Chennai Shols	180 KLD	Completed
Nagpur	200 KLD	Completed
Pune Phase I	250 KLD	Completed
Hubballi	75 KLD	In Progress

During fiscal 2023, we received confirmation from our overseas locations that the sewage generated at our offices was disposed in line with the local regulations.

In fiscal 2023, we recycled and reused upto 11,75,764.82 KL of water, which amounts to 70.84% of the total water withdrawal in India locations. This has enabled reduction in freshwater sourcing to that extent.



The STP in Infosys Chennai - Shols

Implementation of dual plumbing

Implementation of dual plumbing in identified buildings of the Bengaluru and Chennai MCity campuses is in progress to utilize STP treated water for flushing.

Location	Status
Bengaluru	B#11, 12 completed
Chennai MCity	SDB 2 completed

Procurement of grey water for recycling

The procurement of secondary quality water through authorized agencies to meet the water demand for landscaping helps us reduce freshwater dependency. We have implemented grey water procurement in Chennai and Hyderabad.

Location	Qty. received in fiscal 2023
Chennai MCity	4,829 KL
Hyderabad STPI	18,827 KL

Smart water irrigation projects

Smart irrigation systems have been piloted in our Mysuru and Chennai campuses. Projects in Gurgaon, Hyderabad (STP) and Bengaluru are under evaluation. Careful planning to ensure lesser grass cover, the use of native species and the continued development of irrigation infrastructure including automated irrigation and drip irrigation have ensured lesser water use.

Wastewater treatment plant (WTP) and STP retrofits

Retrofitting WTPs and STPs using latest technologies for efficient and economic operations is an important strategy. We have ensured that all the treated water is reused in our campuses and its quality is monitored regularly to ensure adherence to all applicable norms. New designs for WTPs ensure they are better optimized for size, treatment technology and improved treated water quality. Old treatment plants have been retrofitted with advanced membrane bio reactor technology that gives better treated water quality, meeting all wastewater treatment norms. We ensure that we treat and reuse 100% of the wastewater generated through our business operations within our campuses for flushing, landscaping and cooling tower applications. Consequently, freshwater withdrawal has reduced drastically.

100%

of wastewater generated is treated and recycled within our campuses

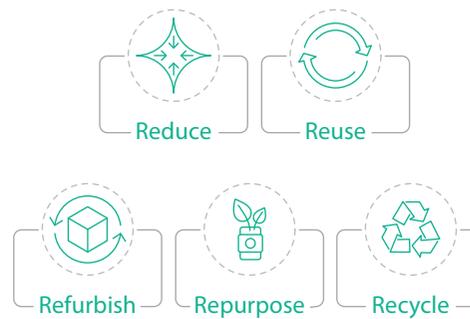




Waste management

Today, we use the equivalent of 1.5 Earths to meet the resource needs of everyday life. According to an estimate of the carrying capacity of our planet, it takes the Earth 18 months to restore what is used in just 12 months. Every year, the world produces 2.01 billion tons of municipal solid waste, of which, at least 33% is not handled in an environmentally responsible way.

Today, waste management is a crucial challenge globally. Waste management includes the collection, segregation, and disposal of waste. Waste collection is a critical step in managing waste. Segregation of waste at source helps in quick disposal and has monetary advantages like extracting energy from the methane generated by decomposing waste. Solid waste management operations are typically a local responsibility, and nearly 70% of countries have established institutions with the responsibility for policy development and regulatory oversight in the waste sector.



Infosys' waste management approach is based on the philosophy of Reduce, Reuse, Refurbish, Repurpose and Recycle. We seek to uphold our ambition of zero waste to landfills through active minimization combined with technology investment in recycling and streamlining systems and processes. With our efforts, we contribute to a circular economy and convert waste into resources. Infosys has established robust waste management practices, focusing on waste collection, segregation and disposal of waste.

Segregation at source

Waste segregation at source refers to the process of identifying and segregating various types of solid wastes at the place or location of their generation. We segregate waste mainly into two categories - hazardous and non-hazardous waste. Separate storage of various components of solid waste such as biodegradable wastes including landscape / garden waste and food waste and non-biodegradable wastes including sanitary waste and non-recyclable inert waste, various categories of e-waste, and construction and demolition wastes is practiced. A color code for bins has been implemented for different types of waste.

The Infosys waste management practice involves segregation of waste at source, secondary segregation, efficient collection and handling, recycling, and effective disposal of all wastes while adhering to applicable legislations. This enables reduction of negative environmental impacts. We also insist on eco-friendly packaging for all our purchases.

The biogas plant in Infosys Hyderabad

Waste recovery options

Recycling

Waste such as paper, plastic and metal, are recycled, converted into other usable forms and circulated back to the supply chain. We have established biogas plants in our campuses where food waste and landscape waste is treated through bio-methanation process, which produces biogas an alternative to LPG in our food courts. We also have sludge drying beds located next to our biogas plants to dry the slurry. Soon after sun drying, dried manure can be used for landscaping. Vermi composters with a capacity of around eight tons/day are installed across India locations

to enable conversion of landscape waste into compost, which can then be used as organic manure in our landscaping applications.

As on date, our biogas plants have a capacity to treat 10 tons of waste a day. The bio-methanation plants/ bioreactors in Infosys are high-rate digesters where the organic loading rate is significantly higher even when its loaded close to its rated capacity. Bi-phasic bio-digestion, known for its effectiveness, was tested at one of the Infosys sites. This testing helped overcome challenges, such as inconsistent input feed rate as well as the quality of wet waste. The trial was a great success as we were able to establish process stabilization at all our bio-methanation plants across India.

Location	Quantity	Total quantity	Total LPG cylinders equivalent
Bengaluru	17,643.57	58,189.25 cu.m. Biogas	Approx. 25,000 kg
Thiruvananthapuram	1,955.93		
Hyderabad - Pocharam	16,032.26		
Mangaluru	2,933.13		
Hyderabad - Gachibowli	3,281.18		
Pune	16,343.16		

Reuse

We follow a waste hierarchy and we prefer reuse over recycling. Waste generated at source gets segregated and evaluated for reuse if possible. Waste like wood, STP sludge and bio manure slurry from bio-methanation plants gets reused inside the campus. Construction and demolition waste is sent to government authorized landfill sites where it further gets reused for various purposes by the municipal corporation. Used oil from kitchens is utilized in biogas plants as it has high codigestion COD (chemical oxygen demand) levels, which in turn generates increased biogas.



Organic waste segregation at Hyderabad



Solar sludge drier in Infosys Hyderabad

Co-processing

Co-processing is the use of waste as raw material, or as a source of energy, or both to replace natural mineral resources and fossil fuels. Generally, waste which cannot be reused or recycled and has high calorific value is selected for co-processing.

At Infosys, waste such as tetra packs, tea bags, rubber waste, paper packaging, low value plastic, plastic gunny bags, thermacol, foam, carpets, discarded mop refills, lanyards, ceramic waste, flex banners, artificial grass mats, floor mats, glass waste, cloth waste etc., are sent for co-processing.

Co-processing achieves a superior environmental performance as compared to landfill and incineration which can be demonstrated through life-cycle assessment of waste. Co-processing is also recognized by the UNEP Basel Convention as a practical, cost-efficient, safe and environmentally-preferred option compared to other waste treatment options.

Waste disposal options

As per Central Pollution Control Board (CPCB) and State Pollution Control Board (SPCB) guidelines, bio medical waste, oil-soaked cotton, oil filters from DG sets, and other wastes are disposed of through authorized agencies. These agencies incinerate the waste as per prescribed guidelines. The resultant ash is sent to Treatment, Storage, Disposal Facility (TSDF) landfills for safe disposal and in a few locations, it is diverted for cement manufacturing.

Mixed waste challenge

In fiscal 2023, development centers in India had dedicated authorized vendors to collect, sort and dispose mixed waste to ensure minimal waste to landfills and maximize recycling.

We have diverted
90.45% of mixed waste
from landfills
during the year across
India locations



TRUE Certification- zero waste to landfill

Infosys' India centers are heading towards the 2030 target of zero waste to landfills through the adoption of TRUE Zero Waste Certification.

In fiscal 2023, we embarked on a journey to obtain TRUE Zero Waste Certification through Green Business Certification Inc. (GBCI) for our owned campuses at Bengaluru, Chennai and Pune.

Waste vendor evaluation

At Infosys, our green procurement policy ensures rigorous vendor evaluation. Waste vendors undergo a detailed vendor site audit against several regulatory requirements. Post this, commercial proposals are invited and scrutinized to ensure they comply with requirements. The proposals are then shared with the commercial team for further negotiations, if any. Once this process is completed, a formal agreement is entered into with the vendors. Vendors are audited annually based on the waste vendor checklist.

E-waste management

At Infosys, we have been persistent in our efforts to ensure that we reduce, reuse, recycle and dispose e-waste responsibly. Our e-waste includes computers, desktops, laptops, keyboards, mobiles, printers, cartridges and batteries. Generated e-waste is always sent back to original manufacturers (under buyback schemes) or authorized recyclers who provide us certificates on the successful recycling and recovery of the material. The selection of authorized recyclers is done keeping in mind the extent of resource circularity in their process. E-waste is regulated through legislation and hence we evaluate the vendor to ensure all compliances are addressed prior to disposal.

Environmental compliance

We have a strong environmental management system aligned with ISO 14001:2015 standards across all India locations in line with our HSE strategy and covers a significant portion of the employees across the organization. The management system is implemented across locations globally based on applicable legal requirements and internal benchmarks and are a part of our internal audit coverage.

We ensure adherence to the applicable legal requirements across our locations. We conduct environmental impact assessments for all our routine and non-routine activities and the significant concerns creating an environmental impact include depletion of resources like power and water, waste generation and disposal, and emissions that are part of our material aspects.

Environmental impacts of new services, activities and changes in process or legislations are also conducted. We conduct environmental impact assessment studies for all new projects, wherever applicable, covering impacts related to air, water, social aspects, and biodiversity, among others.

No cases of monetary or non-monetary sanctions for violations or environmental grievances have been reported in fiscal 2023.

Our campuses are built on state-approved land in industrial areas and are not adjacent to protected areas or biodiversity areas.

A process for monitoring requirements in line with legal requirements is established and we ensure that all parameters are always maintained well within the defined norms.