

Annual Update Report FY 2020-21



The Brighter Plan 2032





Decarbonization & Air emission control

Goals and objectives

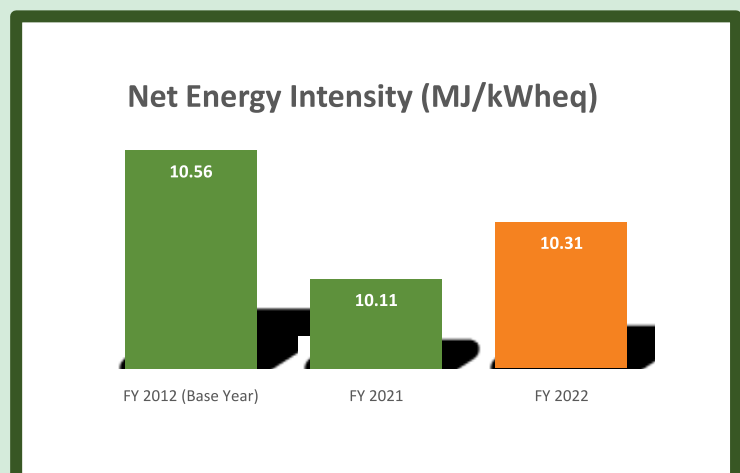
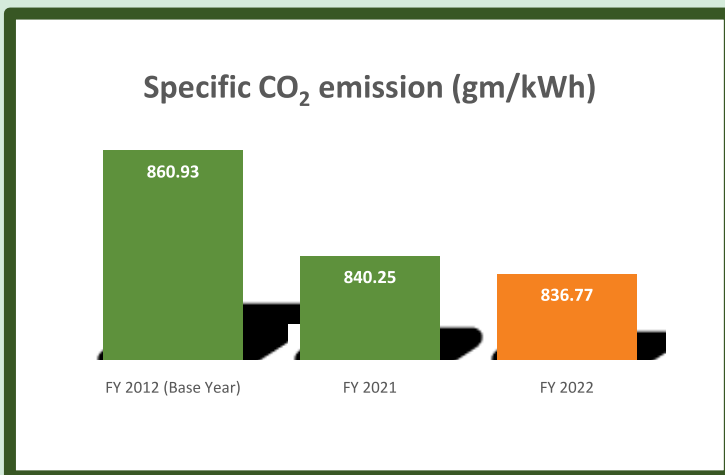
To be ahead of India's climate change targets and to be positioned as largest and low-carbon electricity generator. Our objective is to internalize the risks due to climate change and to invest in low carbon technologies. We are also committed to reduce SO₂, NO_x and SPM emissions.

Action Plan and future Strategy

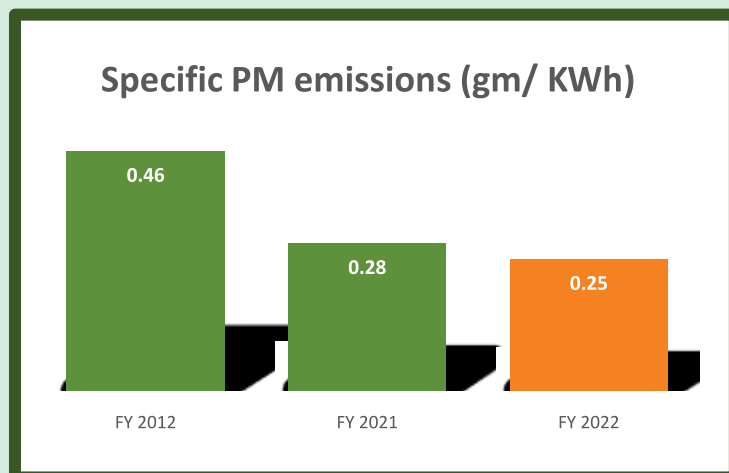
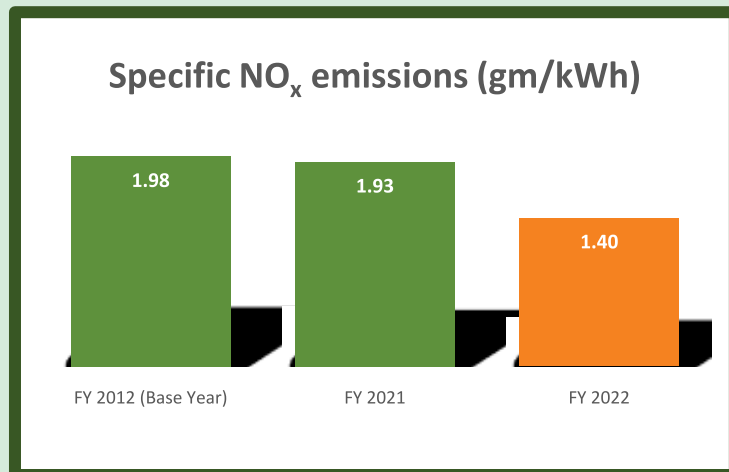
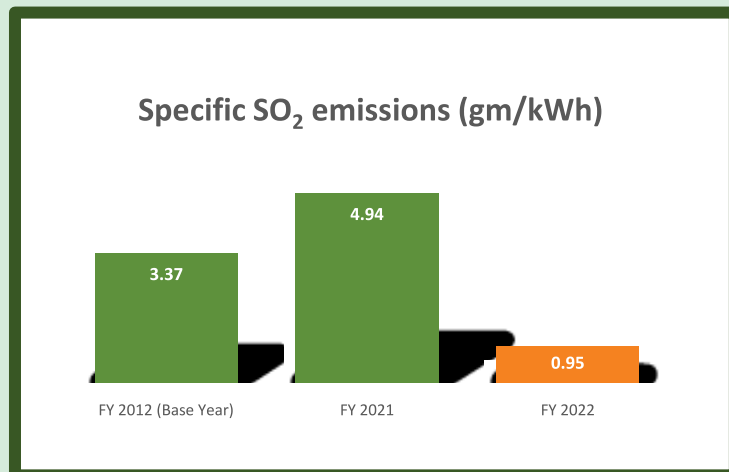
Towards decarbonization, we are retiring old & inefficient thermal power plants and only installing thermal power plants which are in pipeline with better efficiency and lower carbon intensity. We will be installing 60 GW of renewables by 2032. We are working on multiple carbon capture and utilization (CCU) technologies such as green methanol to ensure clean transition with thermal generations serving as balancing load till affordable and reliable energy storage solutions are made available. We are also creating carbon sinks through our massive afforestation program. We are also making disclosures as per recommendations of the Task Force on Climate-related Financial Disclosure (TCFD) and CDP. We are exploring ways for carbon finance to generate funds for decarbonization and in the process of implementation of the Internal carbon pricing.

For controlling other air emissions such as SO₂, NO_x and SPM emissions, we ensure timely implementation of FGD, combustion modifications at concerned stations for NO_x control and R&M of ESPs of older units for SPM control.

Progress in FY 2021



Progress in FY 2021





Water and Biodiversity conservation

Goals and objectives

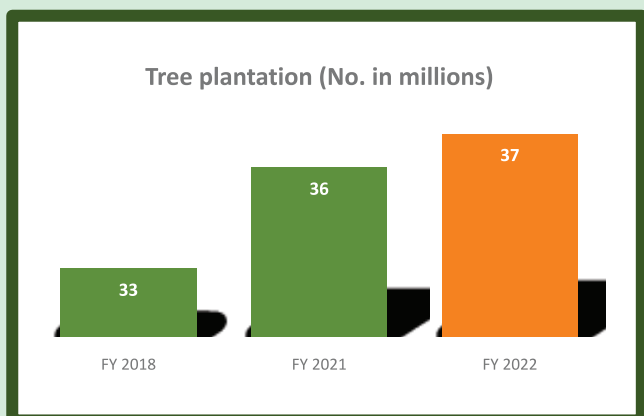
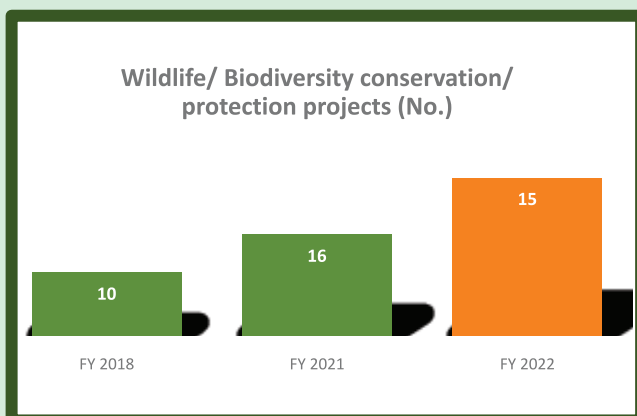
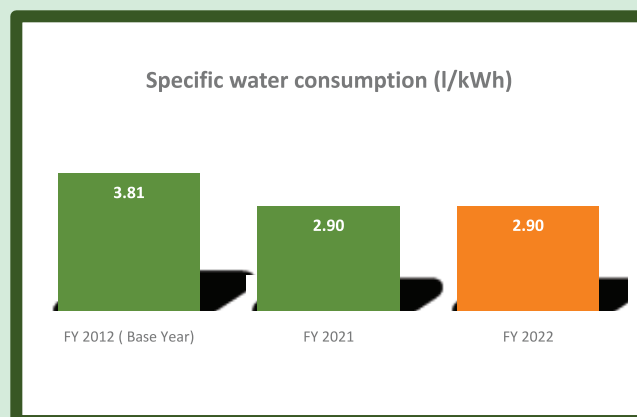
Our goal is to reduce the freshwater consumption in all NTPC business units and improve the freshwater availability outside the NTPC premises by driving water efficiency, reducing fresh water usage, and enhancing community and other stakeholder engagement. Also, we have targeted to bring positive change in biodiversity near NTPC's sites.

Action plan and future Strategy

To achieve the desired targets in water conservation, we are implementing latest technologies and process innovations. We are ensuring good quality freshwater availability in and around plant locations through community investments and capacity building. As a part of our future action plans, we are planning to invest in R&D for identifying secondary sources of water and wastewater treatment technologies. We have become signatory of CEO Water Mandate.

For Biodiversity conservation, we have a dedicated Biodiversity Policy and roadmap in place. We are associated with IBBI (India Business & Biodiversity Initiative)

Progress in FY 2021





Health and Safety

Goals and Objectives

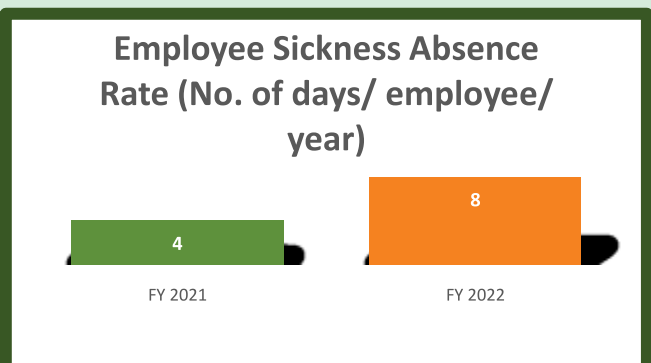
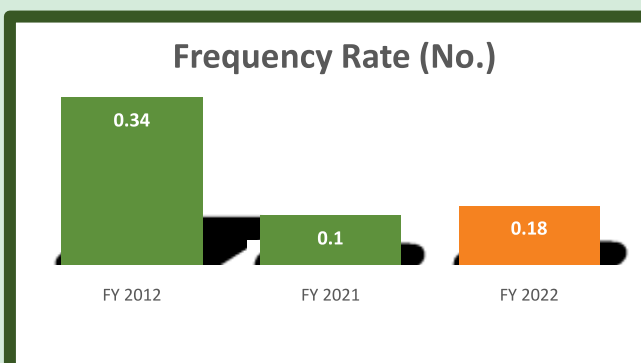
Our objective is to provide a safe, healthy, and hygienic environment for our workforce and make the workplace incident-free. Also, we want to ensure the physical and mental well being of the workforce.

Action Plan and Future Strategy

We're continuing to put health and safety at the heart of everything we do. To achieve this ambitious target, IT interventions such as a Suraksha safety app, use of intranet/ internet for incidence capturing, implementation of safety guidelines, standards and circulation of training materials are employed. NTPC has made a safety policy commitment to comply with applicable legal and other safety and occupational health requirements related to its activities. We have strengthened our contractor safety programs through Contractor safety assessment, Contractor risk control, Worker role competence and financial Penalty/Reward system.

Our NTPC hospitals provide round the clock service to our employees and their dependents across all locations. We also have empanelled 250+ speciality and super specialty hospitals across approx. 25 cities/towns for providing specialist treatment to our employees.

Progress in FY 2021





Circular Economy

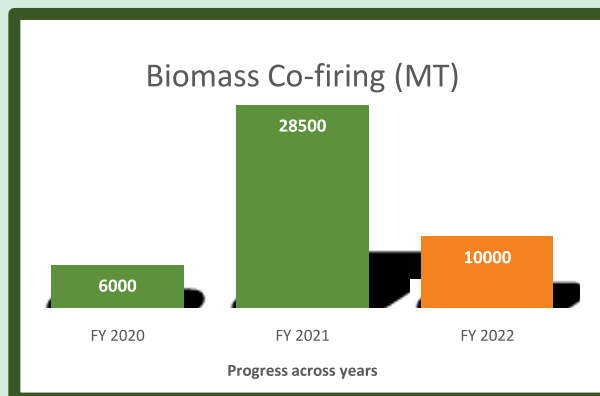
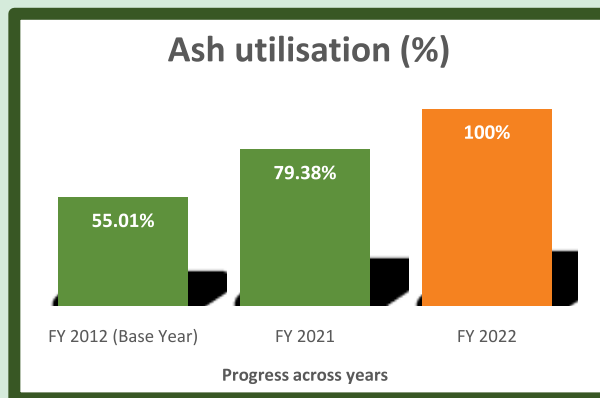
Goals and Objectives

We have targeted to increase utilization of ash produced and to contribute to society's efforts towards effective management of waste, either at NTPC plants or produced elsewhere.

Action Plan and Future Strategy

We are committed to environmentally friendly, socially responsible, and techno-commercially viable handling and disposal of all waste generated in our premises. For ash utilization, various initiatives like long term supply agreements with high volume off takers, R&D for developing fly ash-based building materials and mine void filling etc. are employed. Integrated waste management systems are being implemented for complete waste reduction, collection, composting, recycling, and disposal system to protect human health and the natural environment. Our circular economy initiatives include biomass collection from the farmers and co-firing with coal for power generation.

Progress in FY 2021





Community Development

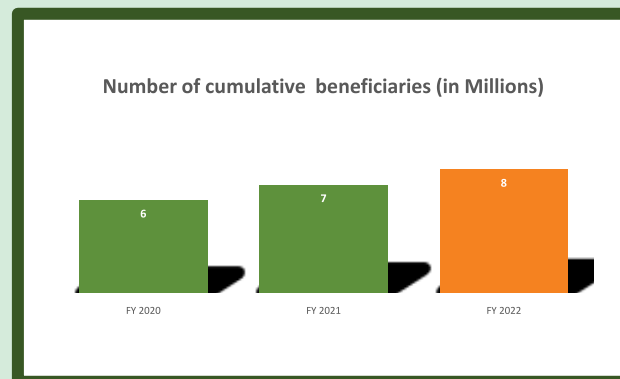
Goals and objectives

Our goal is to increase the number of beneficiaries of NTPC's social developmental programmes through an innovative, self-sustaining, efficient, and high-impact models.

Action Plan and future Strategy

We are strategically driving NTPC's Rehabilitation & Resettlement Policy and Corporate Social Responsibility plans to create big and meaningful impacts on communities. Our current focus includes enabling quantification of impacts in measurable terms, comparison over previous years of investment, and focusing on Low-Cost High Impact projects to achieve community development. Currently, focused investment in the areas of Water, Education, Health and Sanitation are being made. The future Strategy includes exploiting core competency and mobilization of capabilities in the implementation of CSR activities, with preference given to CSR models requiring NTPC's developed strengths, research, and knowledge.

Progress in FY 2021





Strong Finance and Ethics

Goals and objectives

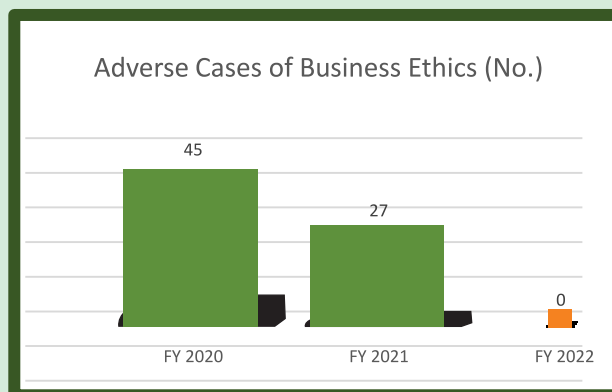
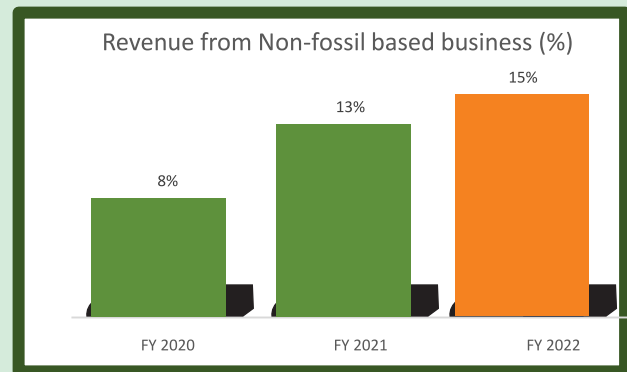
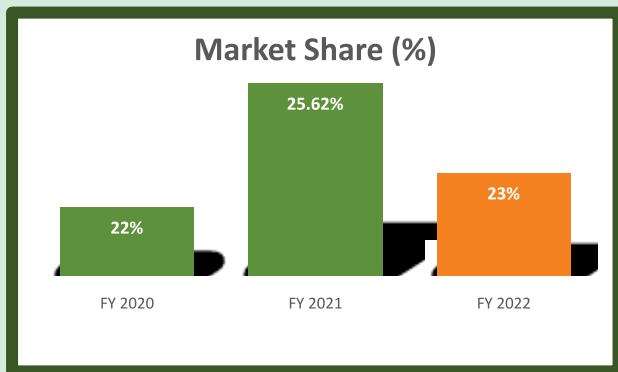
The Goal is to have sustainable profitable operations ensuring future cash flows. Also, we will ensure zero cases of adverse business ethics including corruption, human rights, unfair trade practices etc.

Action Plan and future Strategy

Increasing profits in a regulated power sector is challenging and it becomes more challenging in adverse market situation. Hence, we have diversified into other related and unrelated business streams. We have been able to increase our market share through development and acquisition of power assets.

We have increased the scale of ethics training to not just our employees but through the supply chain

Progress in FY 2021





Sustainable Supply Chain

Goals and objectives

Our goal is to make NTPC's supply chain more sustainable and promote suppliers' ESG compliance with industry best practices.

Action Plan and future Strategy

To make our supply chain sustainable, we are assessing our suppliers on Environment, Social & Compliance (ESC) evaluation criteria developed on various parameters such as safety, emission, water, statutory licenses, etc. Based on the result of assessment we are providing trainings to the vulnerable suppliers.

Progress in FY 2021

NTPC has steadily been making progress and has successfully audited 30 vulnerable suppliers for ESG in FY 2021 compared to none in FY 2020. The target for 2022 for the number of beneficiaries through Capacity building programs has already been achieved in FY 2021 with 104 beneficiaries.

Progress in FY 2021

