

Snapshots of Green Budget

Budget planning is necessary for an effective utilization of public money.



In the year 2008 the government of India launched National Action Plan on Climate Change (NAPCC) outlining Eight National Missions:

National Solar Mission

National Mission for
Enhanced Energy Efficiency

National Mission on
Sustainable Habitat

National Water Mission

National Mission for
Sustaining the
Himalayan Eco-system



National Mission for
Green India



National Mission for
Sustainable Agriculture



National Mission on
Strategic Knowledge for
Climate Change

Steps taken for Green Growth

Green Hydrogen Mission: The Ministry of New and Renewable Energy

Budget 2023-24:- An outlay of 19,700 crore rupees for Green Hydrogen Mission to facilitate transition of the economy to low carbon intensity, reduce dependence on fossil fuel imports.



Energy Transition: Ministry of Petroleum and Natural Gas.

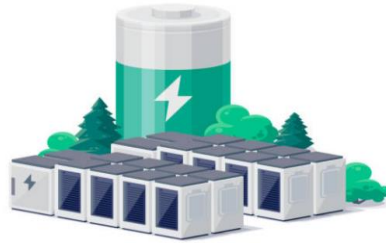
For priority capital investment, rupees 35,000 crore is outlay in the budget 2023-24 towards the objective of energy transition and net zero emission and energy security



Energy Storage

Projects:-

Viability Gap funding for Battery Energy Storage Systems of 4,000 MWH capacity.



Viability Gap Funding or Grant means a grant one-time or deferred, provided under this Scheme with the objective of making a project commercially viable.

Renewal Energy Evacuation: Ministry of New and Renewable Energy

With Rupees 20,700 crore, including Central support of 8,300 crore rupees for evacuation and grid integration of 13 GW capacity renewal energy, an inter-state transmission system from Ladakh will be constructed.



Green Credit Programme: Ministry of Environment, Forest and Climate Change

This programme will provide an incentive to environmentally sustainable and responsive actions by companies, individual and local bodies and help in mobilizing additional resource for such activities.



PM- PRANAM: Ministry of Chemicals and Fertilizers

PM Programme for Restoration, Awareness, Nourishment and Amelioration of Mother Earth, will incentivize States and UTs to promote alternative and balanced use of fertilizers.



Gobardhan scheme: Ministry of Drinking Water and Sanitation.

Galvanizing Organic Bio-Agro Resources Dhan is implemented for promoting circular economy and under this scheme 500 new 'waste to wealth' plants will be set up with total outlay of 10,000 crore rupees.



Bhartiya Prakritik Kheti Bio-input Resource Centers: Ministry of Agriculture and Farmer Welfare Under this programme 10,000 Bio-Input Centers will be set up to facilitate 1 crore farmers to adopt natural farming.



MISHTI: Ministry of Environment, Forest and Climate Change.

Mangrove Initiative for Shoreline Habitats & Tangible Income will be implemented to plant mangroves along the coastline and on salt pan lands through convergence between MGNREGS, CAMPA Fund and other sources.



Amrit Dharohar: The Ministry of Environment, Forest and Climate Change

The government will promote wetland conservation through this Amrit Dharohar Scheme to encourage optimal use of wetlands..



Coastal Shipping: The Ministry of Ports, Shipping and Waterways.

An energy efficient and low-cost mode of transportation will be promoted through PPP mode with Viability Gap Funding.



Vehicle Replacement:- Ministry of Road Transport & Highways

Replacement of old polluting vehicles in furtherance of the vehicle scrapping policy to encourage public to adopt Electric Vehicles or to buy vehicles which are less polluting as compared to conventional petroleum vehicles

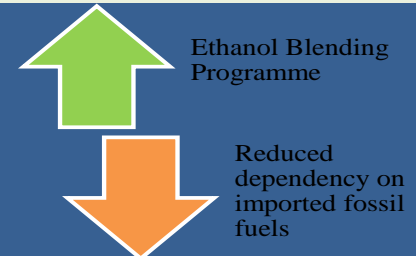
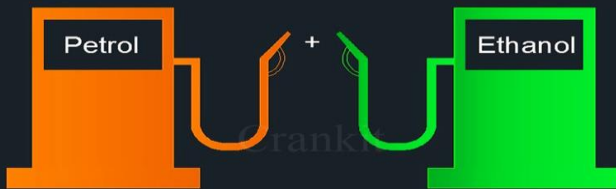


Transition to



Ethanol Blending programme: Ministry of Petroleum and Natural Gas.

To support the Ethanol Blending Programme and energy transition Finance Minister proposed an exemption of basic custom duty on Denatured ethyl alcohol in the Budget 2023-24. The aim of this programme is reducing import dependency on fossil fuel. Currently 10% ethanol is blended in Petroleum, the government is looking to double this to 20% by 2025.



Allocation to Ministry of Earth Sciences for contributing towards **Green Growth**

Atmosphere & Climate Research-Modelling Observing Systems & Services (ACROSS) (CS)

&

Monsoon Convection, Clouds and Climate Change (MC4)

Allocated Rs. 680 crore



सत्यमेव जयते

Ministry of
Earth Sciences

Various Outputs

- ⇒ Generation and dissemination of weather based Agro-meteorological advisories with an outcome in increased resilience of farmers to extreme weather events.
- ⇒ Augmentation of atmospheric observation network in India with an outcome to improve weather services for aviation safety & protection of life and property from extreme weather events.
- ⇒ Climate services with an outcome for climate diagnostics for sectoral applications
- ⇒ Setting up of Atmospheric Research Data Center.
- ⇒ Atmospheric Research Testbed (ART) in India with an outcome for improving the understanding of Climate and Monsoon related processes over core monsoon zone and orographic regions

Deep Ocean Mission (CS)

Allocated Rs. 600 crore



Output is related to:



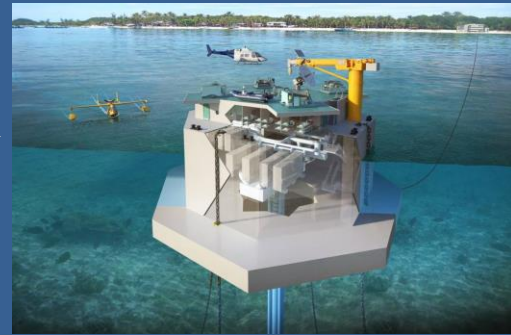
Development of ocean climate advisory with an output to improve the understanding of the impact of ocean climate for the Indian coastal regions.



Repository and DNA bank of deep-sea flora and fauna of Indian Sea Mounts with an output for the Conservation plan for deep sea Biodiversity within Indian EEZ and Online Reference facility for DNA based research.



Detailed design document for offshore OTEC powered desalination plant with an output to develop technology for offshore renewable energy.



Allocation to Ministry of Environment, Forest and Climate Change for **Green Growth**

Control of Pollution

Allocation of Rs. 756 crore



Ministry of Environment, Forest
& Climate Change



- Outputs are:
- ➔ Monitoring implementation of activities to control pollution (air, water and noise) with an outcome for the improvement in Air quality.
 - ➔ Strengthening of Environmental Monitoring Network (air, water and Noise)
 - ➔ Research and outreach programmes with output for increasing the well-being and environmental sustainability

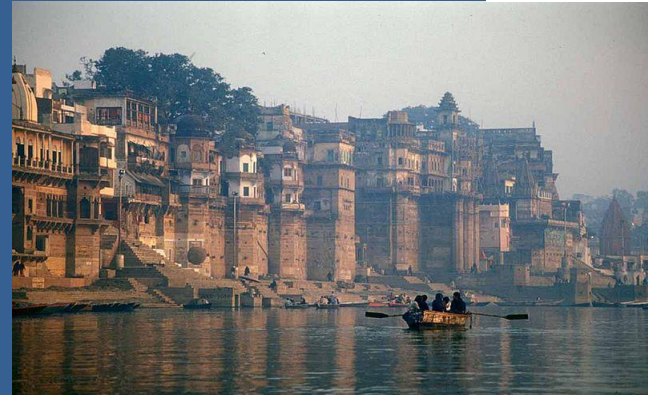


Allocation to Ministry of Jal Shakti for Green Growth



National Ganga Action Plan

Department of Water Resources, River Development and Ganga Rejuvenation of the Ministry of Jal Shakti has been allocated Rs. 4000 crore.



Measures:-

- ⇒ Preventing direct discharge of sewage into Ganga and treatment of sewage.
- ⇒ Pollution abatement through regulation of direct discharge of industrial waste in Ganga and monitoring of water quality.



Swachh Bharat Mission (Gramin)

Department of Drinking Water and Sanitation of the Ministry of Jal Shakti has been allocated a financial outlay of 7192 crore rupees.



Outputs

- Effective Solid and Liquid Waste Management (SLWM).
- Waste to wealth initiative.





Department of Science and Technology of the Ministry of Science and Technology has been allocated a financial outlay of 592 crore rupees for many programs. One of such program is 'Climate Change Program' and rupees 53,360 crore towards many initiatives some of the initiatives are Clean Energy Research Initiative (CERI) National Spatial Data Infrastructure (NSDI)



विज्ञान एवं
प्रौद्योगिकी मंत्रालय
MINISTRY OF
**SCIENCE AND
TECHNOLOGY**





Department of Biotechnology of Ministry of Science and Technology:-

- ❖ Financial outlay of 1,345 crore rupees towards Biotechnology Research and Development (CS)
- ❖ Under this many research and development program are proposed, some of them , namely
- ❖ Bioresources,CleanEnergy &Environmental Biotechnology, Agriculture biotechnology and allied areas
- ❖ Support R&D Scientific advancement, Program for NER (Northeastern Region)



विज्ञान एवं प्रौद्योगिकी मंत्रालय
MINISTRY OF
SCIENCE AND TECHNOLOGY

सत्यमेव जयते

Ministry of Statistics & Programme Implementation has been allocated a financial outlay of 600 crore rupees towards Capacity Development Scheme (CS) for conducting various survey, preparing reports related to various issues. One of such capacity development is publication of reports on environment statistics



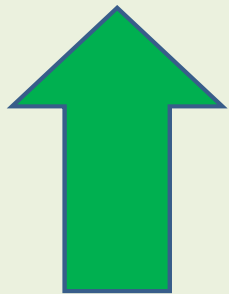
Allocation to renewable energy in the 2023-24 budget.

- ⇒ Allocation has increased by 50% over the previous financial years
- ⇒ Allocated an outlay of Rs. 10,222 crores towards renewable energy sector
- ⇒ The Government of India has set an ambitious target to achieve 500 Gigawatts of installed non-fossil fuel energy by 2030.

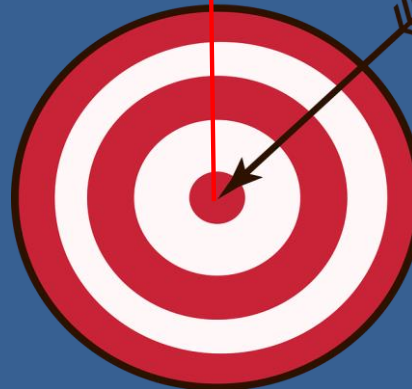


सत्यमेव जयते

नवीन एवं
नवीकरणीय ऊर्जा मंत्रालय
MINISTRY OF
**NEW AND
RENEWABLE ENERGY**



50%



500 Gigawatts
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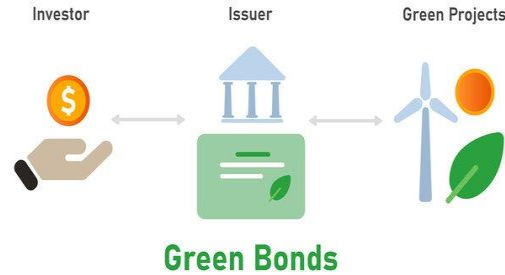
Solar Energy

Allocated ₹4970 crores for the solar power sector. This includes both grid-interactive and off-grid projects. There is a 43% increase over the previous year's budget of ₹3469.61 crore.

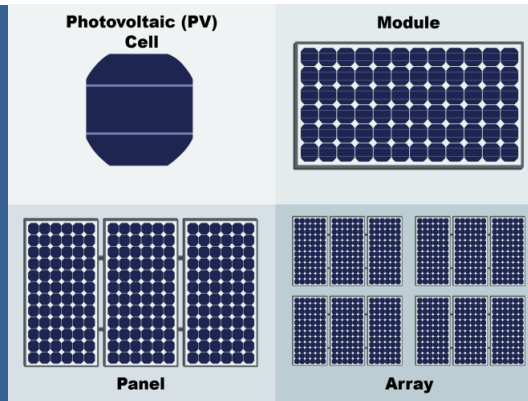
The budget has given a major push to the solar energy sector under renewable energy

Allocated ₹19,500 crore for production linked incentives for manufacturing of high efficiency solar photo voltaic modules.

The budget ensures the domestic manufacturing required for achieving the ambitious goal of 280 GW of installed solar capacity by 2030



The budget also provides for Sovereign Green Bonds to be issued for mobilizing resources for green infrastructure.

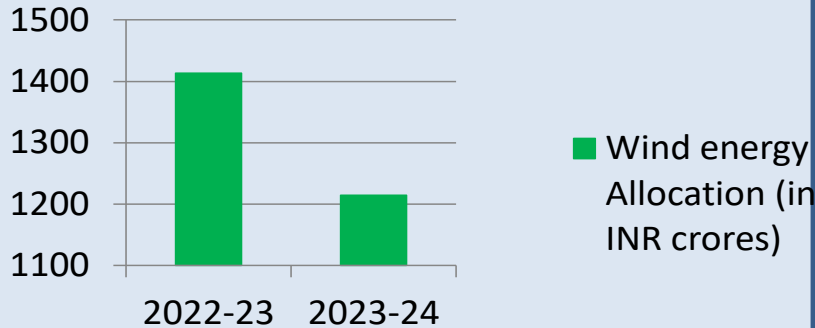


It pushes for One Sun, One World, One Grid (OSOWOG)



Wind Energy

Allocated ₹1214 crore towards wind energy, which was 14% less than the estimates of ₹1413 crore.



Nuclear Energy

₹25,078.67 crore has been allocated for nuclear and atomic energy. The budgetary allocation to the two nuclear electricity generation companies has also increased by a substantial 42 %

The Nuclear Power Corporation of India Limited (NPCIL) has been allocated rupees 9,410 which is an increase of Rs 2,859 crore (more than 43 per cent) over the revised estimate of Rs 6,551 crore of the current fiscal.

The other public sector companies under the Department of Atomic Energy - Indian Rare Earths Ltd will get Rs 120.30 crore, Uranium Corporation of India Ltd Rs 59.82 crore, and Electronics Corporation of India Ltd Rs 15 crore - during fiscal year 2024.

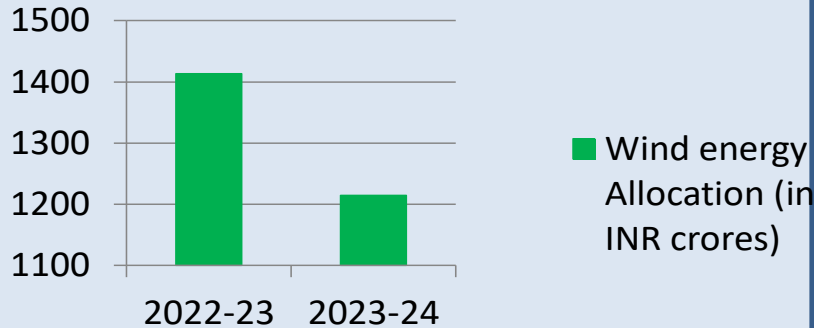


इकाए

न्युक्लियर पावर कॉर्पोरेशन ऑफ इंडिया लिमिटेड
Nuclear Power Corporation of India Limited

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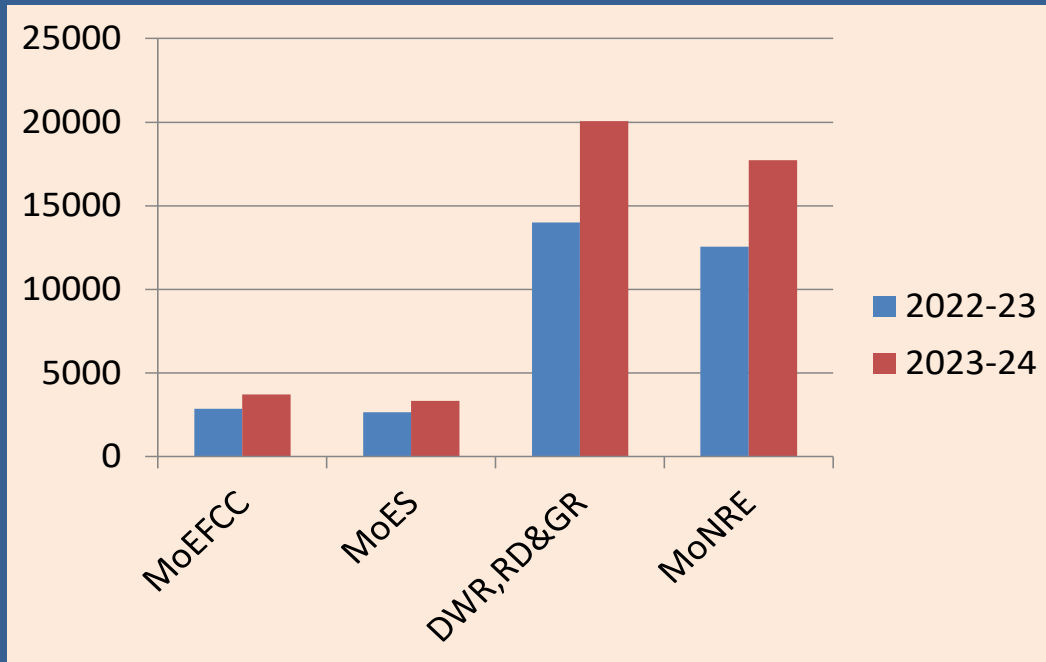
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Comparison of allocation to Green Budget in Budget 2022-23 and 2023-24 (in crores)



MoEFCC is Ministry of Environment, Forest and Climate Change

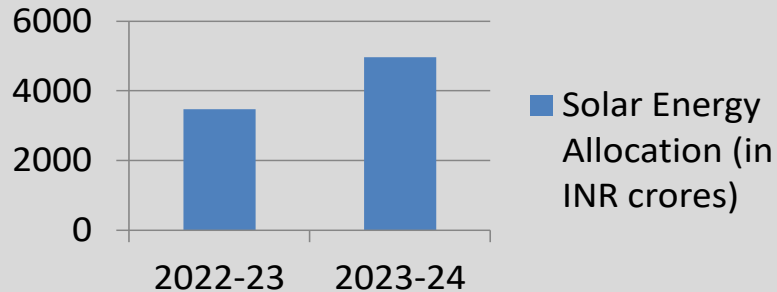
MoES is Ministry of Earth Sciences

DWR, RD&GR is Department of Water Resources, River Development and Ganga Rejuvenation

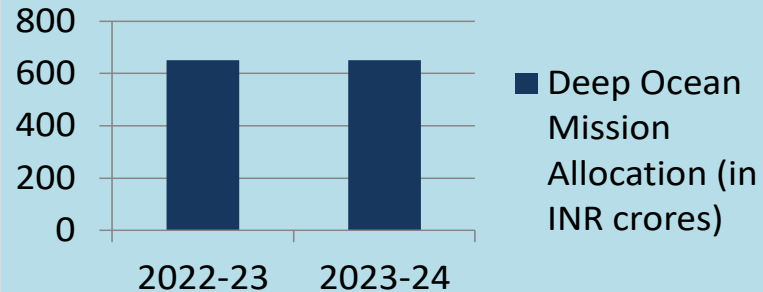
MoNRE is Ministry of New and Renewable Energy

Some other graphs

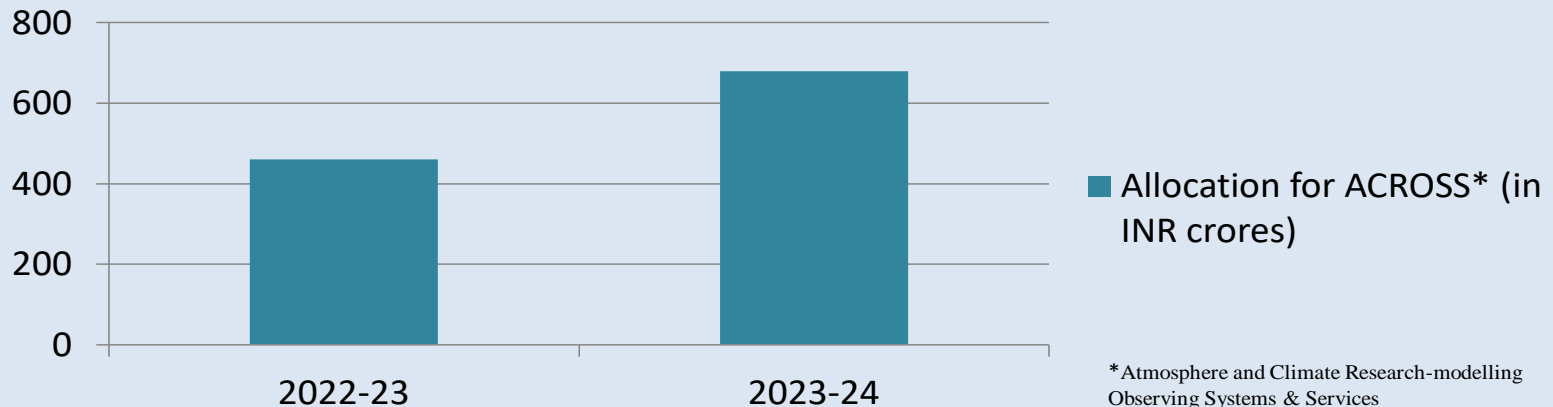
Solar Energy Allocation (in INR crores)



Deep Ocean Mission Allocation (in INR crores)



Allocation for ACROSS* (in INR crores)



* Atmosphere and Climate Research-modelling
Observing Systems & Services

Research Inputs

- Gayathri Gireesh
Advocate, Bangalore
- Prateek Kamath
6th semester, BBA LL.B, KLE Law College, Bangalore
- Priti Kumari
III year of B. A. LL. B
Jogesh Chandra Chaudhuri Law College, Kolkata