

## QUARTERLY COMPILATION OF PROGRESS REPORT UNDER NATIONAL ACTION PLAN ON CLIMATE CHANGE

**NAME OF THE MISSION: National Mission for Enhanced Energy Efficiency**

**QUARTER PERIOD – April 2021 – March 2022**

S. N.	Activities / Mission deliverables	Implementing Agency	Overall Target for Mission Period April 2021- March 2022	Quarter-wise Target / Achievement during April 2021 - March 2022								Cumulative / Overall Achievement – during April 2021 - March 2022	Remarks
				Quarter 1		Quarter 2		Quarter 3		Quarter 4			
				Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement		
1	Implementation of Perform Achieve and Trade (PAT) scheme	Bureau of Energy Efficiency	Energy Savings of 23.81 MTOE (from implementation of PAT cycle –I, II and III)	Assessment of Energy Savings under PAT cycle -III	Verification of Monitoring & Verification reports submitted by DCs of PAT cycle –III has been completed by BEE. Finalization of energy savings from the implementation of PAT cycle –III is under process.	Issuance of ESCerts to DCs of PAT cycle -II	Issuance of 57.38 lakh Energy Saving Certificates (ESCerts) 349 Designated Consumers (DCs) of PAT cycle –II has been done by Ministry of Power on 18th August 2021	Commencement of PAT cycle -VII	PAT cycle – VII for the period 2022-23 to 2024-25 was notified on 26 <sup>th</sup> October 2021. A total of 509 DCs with energy savings target of 6.627 MTOE were notified.	Assessment of Energy Savings under PAT cycle -III	Verification of Monitoring & Verification reports submitted by DCs of PAT cycle – III has been completed by BEE. From implementation of PAT cycle –III, energy savings of about 1.745 MTOE has been realized.	Energy Savings of 22.75 MTOE has been achieved though implementation of PAT cycle – and PAT cycle –II. This has resulted in emission reduction of about 97 million tonnes of CO2.	

						Launch of booklet on Introduction to ESCerts Trading	A booklet on Introduction to ESCerts Trading of Cycle 1 trading of PAT cycle –I was released on 18th August 2021 by Secretary (Power).	Trading of ESCerts for PAT cycle -II	Trading of ESCerts for DCs of PAT cycle –II commenced from 26 <sup>th</sup> October 2021	Assessment of various industrial sectors of the economy to meet NDC targets	Report on the assessment of various industrial sectors to meet the NDC targets has been completed		
				Data verification Audit in Railway sector under PAT	RfP was floated by BEE and work order was issued for the same. Review meetings held with the agency engaged	Data verification Audit in Railway sector under PAT	Draft reports received from the agencies	Data verification Audit in Railway sector under PAT	Comments of BEE on the draft report submitted to the agencies	Feasibility study – Phase 2	Feasibility study for identification of sectors that could be included under the PAT Scheme namely Port Trust, Dairy, Automobiles Assembling Units, Tyre manufacturer s, Refractories, Forge & Foundry has been conducted by BEE.		

				Inclusion of new sectors under PAT scheme	RfP for conducting Feasibility study (Phase 2) was floated by BEE for the sectors namely Port trust, Dairy, Transport Sector – Automobiles (Assembling Units) & Tyre Manufacturers and Refractories, Heavy Engineering Manufacturing / Heavy Industry (Forge & Foundry)	Monitoring & Verification of PAT cycle -IV	The Assessment year for PAT cycle –IV i.e. was 2020-2021. The Assessment year has been made as 2021-2022 after an amendment vide notification no. S.O. 3510(E) dated 27 <sup>th</sup> August 2021	Inclusion of new sectors under PAT scheme	Kick off meeting conducted and the work is under process	Baseline Data Collection and Process Verification Audit	1. To include Sugar sector under PAT scheme, Baseline data collection and process verification audit is under process.  Baseline data collection and process verification audit is under process for 50 new identified units in four different groups from Iron & Steel sector.		
				Assessment of various industrial sectors of the economy to meet NDC	Draft report for the same was submitted by the agency engaged for the same.	Assessment of various industrial sectors of the economy to meet NDC	Draft Final report submitted by the agency	Assessment of various industrial sectors of the economy to meet NDC	Final report submitted by agency after incorporation of comments from BEE	Study on ESCerts trading	A study for exploring the floor price and life of ESCerts has been initiated by BEE.		

			Baseline Data Collection and Verification Audits in DISCOMs	RfP was floated by BEE and work was awarded. Review meeting conducted with the agencies	Baseline Data Collection and Verification Audits in DISCOMs	Review meetings held with agencies	Manpower support to SDAs for implementation of activities under PAT scheme	BEE has engaged agencies for providing manpower support to various SDAs with respect to PAT Scheme.	Development of a blueprint for design of a National Carbon market in India.	Draft Final blueprint has been submitted by M/s Deloitte to Bureau of Energy Efficiency.		
			Procedure for trading of Energy Saving Certificates (ESCCerts)"	The approval by the Central Electricity Regulatory Commission on the "Procedure for trading of Energy Saving Certificates (ESCCerts)" has been received by Bureau of Energy Efficiency on 23rd June 2021.	Inter-Ministerial Committee (IMC) on Implementation of roadmap on energy efficiency with due focus on sectors with high emissions intensity	The first meeting of the Inter-Ministerial Committee (IMC) on Implementation of roadmap on energy efficiency with due focus on sectors with high emissions intensity chaired by Secretary (Power) on 14th September 2021.	Development of Operational Guidelines of ROSHANEE	BEE has engaged an agency for development of operational guidelines of ROSHANEE. Inception report for the same has been submitted by the agency	Energy Mapping in Thermal Power Plants	Agency for carrying out energy mapping in 38 nos. of Thermal Power Plants has been finalized.		
			Baseline data collection and verification audit in Buildings sector	Baseline data collection and verification audit for Airport sector has been completed and the same for Hospital, University and Data Centers is under process	Baseline data collection and verification audit in Buildings sector	Baseline data collection and verification audit for Airport sector Hospital and Data Centers completed and for University sector under process	Notification of Regulations for Conduct of Energy Audit (Accounting) In Electricity Distribution Companies	Bureau Of Energy Efficiency (Manner and Intervals for Conduct of Energy Audit (Accounting) In Electricity Distribution Companies) Regulations, 2021 was published in gazette on 7 <sup>th</sup> October, 2021	Check – Verification of Designated Consumers	1. Check verification in 7 Designated Consumers of PAT cycle –II under Thermal Power Plant sector has been		

											initiated.		
											Check verification in 14 Designated Consumers of PAT cycle –III under various sectors has been initiated.		
				Capacity Building programme	Virtual capacity building program on “Leveraging Industry 4.0 Technologies for Energy Efficiency” for Designated Consumers (DCs) under PAT was held.  Stakeholder consultation (virtual meeting) for further improvement of BEE schemes was held	Capacity Building programme / Webinars	Webinars on registration process and trading of ESCerts have been conducted.  Stakeholder workshops to get inputs, comments and suggestion for the project switchover to Grid from CPP.	Capacity Building programme / Webinars	Webinars conducted for awareness on regulation to conduct Energy Audit in electricity distribution companies. Capacity building webinar conducted for SDAs and DCs. Webinar on BEE-US DOE cooperation in Industrial Efficiency: ISO 50001 Energy Management System has been conducted.	Implementation of Roadmap on Energy Efficiency with due focus on sectors with high emission intensity	1. Two meeting of the Inter-Ministerial Committee for discussion on Ministry wise action for implementation of activities envisaged under ROSHANEE have been conducted.		
											Draft note for		

											Committee of Secretaries (CoS) in this regard has been prepared and submitted to Ministry of Power.	
			Check verification under PAT cycle -II	Check verification for 1 DCs under DISCOM sector of PAT is under process	Check verification under PAT cycle -II	Final report submitted by the agency	In-principle approval of ROSHANEE	In-principle approval of ROSHANEE has been received from MoEFCC	Development of Operational Guidelines for ROSHANEE	Draft final operational guidelines for ROSHANEE is under finalization		
					Baseline Data Collection and Process Verification Audit of Sugar Sector for inclusion in PAT Scheme	RfP for "Baseline Data Collection and Process Verification Audit of Sugar Sector for inclusion in PAT Scheme" was floated by BEE on 17th August 2021	Baseline Data Collection and Process Verification Audit of Sugar Sector for inclusion in PAT Scheme	Letter of Award has been issued to the agencies	Support to State Designated Agencies (SDAs) for implementation of PAT scheme.	Appointment of Project Management Agencies (PMA's) to depute manpower and infrastructure support in 27 SDAs for establishment of PAT cell to undertake the activities under PAT scheme has been done by BEE.		

					Development of Carbon market in India	BEE has engaged and agency for development of blueprint for design of carbon market in India. Inception report has been submitted for the same.	Development of Carbon market in India	The draft report for stakeholder consultation was submitted by the agency. The draft blueprint was released by the Hon'ble Minister on 22nd October 2021.				
			ISO 50001:2018 adoption in selected PAT industries (Phase-I)	On successful execution of pilot phase, Willingness from DCs has been sought to be part of BEE's next phase of program on adoption of ISO 50001:2018 standards (Phase-I).	ISO 50001:2018 adoption in selected PAT industries (Phase-I)	Based on the willingness from DCs, BEE has shortlisted 21 PAT industries from different PAT sector for ISO 50001:2018 standard implementation (Phase-I). Draft MoU has been prepared and shared with identified DCs for comment.	ISO 50001:2018 adoption in selected PAT industries (Phase-I)	RfP for hiring of technical body for implementation and certification of ISO 50001:2018 in identified 21 PAT industries has been floated.				
					Energy Mapping Exercise of Thermal Power Plants (Phase-II)	Based on the M&V data of PAT-II, BEE has identified 38 TPPs having heat rate deviation (design heat rate and operating heat rate) greater than 10%. Communication was also send to identified TPPs.	Energy Mapping Exercise of Thermal Power Plants (Phase-II)	With the objective of reduction of heat rate upto 5% of design heat rate, RfP for hiring of agency for energy mapping in identified 38 TPPs has been floated.				

						National Mission on Use of Biomass in coal based Thermal Power Plants	Under the chairmanship of DG, BEE, Sub Group IV with member from BEE was tasked to establish labs and prepare guideline for testing of biomass pellets.	National Mission on Use of Biomass in coal based Thermal Power Plants	Draft Guideline for testing of biomass pellets has been finalized and circulated to internal members for comment/suggestions.				
2.	Implementation of Energy Efficiency Financing Platform	Bureau of Energy Efficiency	Organizing Investment Bazaar in different States	In March 2021, first Investment Bazaar was organized at Vizag wherein more than Rs. 90 crore of EE investment was identified.	Organizing Investment Bazaar in different States	In September 2021, letters were issued to all SDAs to share the consent to organize multiple investment bazaars in different states following COVID Protocols.	Organizing Investment Bazaar in different States	In November 2021, second Investment Bazaar was organized at Chandigarh wherein Rs. 10 crore of EE loans were showcased and received consent from 13 SDAs to organize 26 Investment Bazaar	Till date, 2 Investment Bazaar events were organized and more than Rs. 100 crore of EE investment potential were identified and more than 15 Stalls of OEMs, FIs and ESCOs were placed during the events.				
	Implementation of Energy Efficiency Financing Platform	Bureau of Energy Efficiency	Grading of Energy Efficiency Projects	To launch the grading of Energy Efficiency project programme	Discussion held with Financial Institutions and grading agencies to get empanelled under this programme	To empanel the grading of agencies and Financial Institutions	BEE has empanelled 3 grading Agencies such as CRISIL Ltd; ICRA Analytics Ltd; and, CARE Advisory Research and Training Ltd and two financial institutions such as IREDA and Yes Bank.	To launch the grading of Energy Efficiency project programme and spread the awareness among the stakeholders	3 stakeholders meetings were held with Financial Institutions, MSMEs and Large Industries to spread the awareness about the pilot project. One proposal is received from	Subsequent to the launch of Grading of Energy Efficiency project, BEE has received one proposal for grading during this quarter from Brick Industry	1. Grading of Energy Efficiency project launched in September. 2. 3 stakeh	To launch grading of EE projects and spreading of EE	



									Brick Industry.	Varanasi and details were forwarded to empanelled FIs (Yes Bank and IREDA)	older meetings were held with Financial Institutions, MSMEs and Large Industries to spread the awareness about the project.		
											Two proposals received from Brick Industry		
Implementation of Energy Efficiency Financing Platform	Bureau of Energy Efficiency	Setting up of Facilitation Centre	To hire an agency to set up the Facilitation Centre	Expert Agency finalized.					1. Work Order issued to Darashaw in February, 2022 for setting up	1. After receiving the approval for SFC for NMEEE, BEE issued the work order to set up Facilitation			Work order to the expert agency to be issued after obtaining approval

									Facilitati on Centre for BEE's financing schemes .	Centre.			I of the SFC memo by compet ent authorit y.
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