

# GEF - PROJECT IMPLEMENTATION REPORT (PIR)

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## Table of contents

1 PROJECT IDENTIFICATION .....	3
1.1 Project Details .....	3
1.2 Project Description .....	4
1.3 Project Contacts.....	5
2 Overview of Project Status.....	6
2.1 UNEP PoW & UN.....	6
2.2. GEF Core and Sub Indicators .....	6
2.3. Implementation Status and Risks .....	7
2.4 Co Finance .....	9
2.5. Stakeholder .....	9
2.6. Gender .....	12
2.7. ESSM .....	12
2.8. KM/Learning.....	12
2.9. Stories .....	13
3 Performance.....	14
3.1 Rating of progress towards achieving the project outcomes .....	14
3.2 Rating of progress implementation towards delivery of outputs (Implementation Progress) .....	18
4 Risks.....	34
4.1 Table A. Project management Risk .....	34
4.2 Table B. Risk-log.....	34
4.3 Table C. Outstanding Moderate, Significant, and High risks.....	38
5 Amendment - GeoSpatial.....	40
5.1 Table A: Listing of all Minor Amendment (TM).....	40
5.2 Table B: History of project revisions and/or extensions (TM) .....	41

**UNEP GEF PIR Fiscal Year 2024**  
Reporting from 1 July 2023 to 30 June 2024

## 1 PROJECT IDENTIFICATION

### 1.1 Project Details

<b>GEF ID:</b> 9258	<b>Umoja WBS:</b> SB-009147
<b>SMA IPMR ID:</b> 35953	<b>Grant ID:</b> S1-32GFL-000616
<b>Project Short Title:</b> India Energy Efficiency	
<b>Project Title:</b> Creating and Sustaining Markets for Energy Efficiency	
<b>Duration months planned:</b>	60
<b>Duration months age:</b>	78
<b>Project Type:</b>	Full Sized Project (FSP)
<b>Parent Programme if child project:</b>	
<b>Project Scope:</b>	National
<b>Region:</b>	Asia Pacific
<b>Countries:</b>	India
<b>GEF Focal Area(s):</b>	Climate Change Mitigation
<b>GEF financing amount:</b>	\$ 18,855,963.00
<b>Co-financing amount:</b>	\$ 434,200,000.00
<b>Date of CEO Endorsement/Approval:</b>	2017-06-01
<b>UNEP Project Approval Date:</b>	2017-11-20
<b>Start of Implementation (PCA entering into force):</b>	2017-12-15
<b>Date of Inception Workshop, if available:</b>	
<b>Date of First Disbursement:</b>	2018-01-18
<b>Total disbursement as of 30 June 2024:</b>	\$ 11,698,910.00
<b>Total expenditure as of 30 June:</b>	\$ 11,210,105.00

<b>Midterm undertaken?:</b>	Yes
<b>Actual Mid-Term Date, if taken:</b>	2021-12-01
<b>Expected Mid-Term Date, if not taken:</b>	
<b>Completion Date Planned - Original PCA:</b>	2022-12-31
<b>Completion Date Revised - Current PCA:</b>	2025-12-31
<b>Expected Terminal Evaluation Date:</b>	2026-06-30
<b>Expected Financial Closure Date:</b>	2026-12-31

## 1.2 Project Description

Recognizing India's efforts towards a low emission-economy and focusing on energy efficiency program, the Global Environment Facility is supporting Energy Efficiency Services Limited (EESL) for the project "Creating and Sustaining markets for Energy Efficiency" under its GEF-6 cycle. Under this project, United Nations Environment Program (UNEP) & Asian Development Bank (ADB) are the implementing agencies and EESL is the executing agency. This project involves a total funding of USD 453.1 million comprising of:

GEF grant of USD 18.85 million

Co- Financing of USD 434.2 million from ADB (USD 200 million as loan & USD 1 million as grant), UNEP (USD 40,000 as in-kind), KfW (USD 31.2 million as loan and EESL (USD 199 million as equity & loan and USD 2.96 million as in-kind contribution). At the time of project development, KfW was considered as a co-financing partner. However, due to the changed priorities in the KfW Line of credit, the linkages with the GEF project no longer exist.

The project aims at: i) Expanding and Sustaining investments in existing market sectors, ii) Building Market Diversification and iii) Replication & Scaling Up. The project aims to mitigate 60 million tons of CO2 equivalent, that will enable a total direct energy savings of 38.3 million GJ by 2022 and 137.5 million GJ by 2032.

Component 1: - Expanding and Sustaining investments in existing market sectors: Supports certain portion of EESL's existing targets for installation of energy efficient Street Lights, Domestic Lights, 5-star Ceiling Fans & Agricultural pumps.

Component 2: - Building Market Diversification: Development & implementation of new business models through installation of new technologies such as super-efficient ACs, electric vehicles, public charging Infrastructure for EVs, tri-generation technologies, energy efficient motors, waste heat recovery systems, BLDC fans, Chillers, district cooling system, etc.

Component 3: Replication & Scaling Up: Developing a long-term growth strategy based on collected lessons, experiences etc. from the above-mentioned components and achieving a target of a USD 300 million investments across all technology areas through innovative ways of financing like an Energy Efficiency Revolving Fund (EERF).

As the project had undergone an execution modality change in the year 2023, the project was briefly suspended and restarted with the engagement of a Co-executing Agency since the start of 2024. The International Institute for Energy Conservation (IIEC) was engaged as the ‘Technical Executing Agency’ to support EESL in carrying out the project activities under the UNEP managed component of the project with a revised work plan and budget and extended project end date of December 2025. As the activities under Component 1 have been completed, therefore the project extension currently is focusing only on activities under Components 2 & 3.

### 1.3 Project Contacts

<b>Division(s) Implementing the project</b>	Climate Change Division
<b>Name of co-implementing Agency</b>	ADB
<b>Executing Agency (ies)</b>	Energy Efficiency Services Limited (EESL)International Institute for Energy Conservation (IIEC) - Co EA
<b>names of Other Project Partners</b>	
<b>UNEP Portfolio Manager(s)</b>	Sudhir Sharma
<b>UNEP Task Manager(s)</b>	Manoj Kumar Muthumanickam / Sudhir Sharma
<b>UNEP Budget/Finance Officer</b>	Fatma Twahir
<b>UNEP Support Assistants</b>	Nobharindra Vejanukroh
<b>Manager/Representative</b>	Girja Shankar
<b>Project Manager</b>	Abhishek Dhupar (IIEC)/Ahtaysham Khan (EESL)
<b>Finance Manager</b>	Naraporn Khumtheing (IIEC)/Mohit Khatri (EESL)
<b>Communications Lead, if relevant</b>	

## 2 Overview of Project Status

### 2.1 UNEP PoW & UN

<b>UNEP Current Subprogramme(s):</b>	Thematic: Climate action subprogramme
<b>UNEP previous Subprogramme(s):</b>	NA
<b>PoW Indicator(s):</b>	<ul style="list-style-type: none"> <li>Climate : (i) Number of national, subnational and private-sector actors that adopt climate change mitigation and/or adaptation and disaster risk reduction strategies and policies with UNEP support.</li> <li>Climate: (ii) Amounts provided and mobilized in \$ per year in relation to the continued existing collective mobilization goal of the \$100 billion commitment through to 2025 with UNEP support.</li> </ul>
<b>UNSDCF/UNDAF linkages</b>	India UNDAF 2013-2017: Outcome 6 - Sustainable Development. India UNDAF 2013-2017: Outcome 6 - Sustainable Development.
<b>Link to relevant SDG Goals</b>	<ul style="list-style-type: none"> <li>Goal 7: Ensure access to affordable, reliable, sustainable and modern energy for all</li> </ul>
<b>Link to relevant SDG Targets:</b>	<ul style="list-style-type: none"> <li>7.3 By 2030, double the global rate of improvement in energy efficiency</li> <li>7.b By 2030, expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all in developing countries, in particular least developed countries, small island developing States and landlocked developing countries, in accordance with their respective programmes of support</li> </ul>

### 2.2. GEF Core and Sub Indicators

GEF core or sub indicators targeted by the project as defined at CEO Endorsement/Approval, as well as results

Indicators	Targets - Expected Value			Materialized to date
	Mid-term	End-of-project	Total Target	
6- Greenhouse gas emissions mitigated		Direct: 10,556,082 tCO2eq	10,556,082 tCO2eq	As against the target of mitigating 10.5 million tCO2, the physical progress achieved, under the project would result in direct GHG emission reduction of 35 million tCO2 (by 2023) which is more than 330% than the target.

Indicators	Targets - Expected Value			Materialized to date
	Mid-term	End-of-project	Total Target	
6.2- Greenhouse gas emission mitigated outside the AFOLU sector		Direct: 37,904,820 tCO <sub>2</sub> eq Indirect: 22,351,511 tCO <sub>2</sub> eq	Direct: 37,904,820 tCO <sub>2</sub> eq Indirect: 22,351,511 tCO <sub>2</sub> eq	As against the target of mitigating 10.5 million tCO <sub>2</sub> , the physical progress achieved, under the project would result in direct GHG emission reduction of 35 million tCO <sub>2</sub> (by 2023) which is more than 330% than the target.
6.4- Increase in installed renewable energy capacity per technology		Direct: 137,530,085 GJ Indirect: 81,098,003 GJ	Direct: 137,530,085 GJ Indirect: 81,098,003 GJ	Direct energy avoided was 151,576,954 GJ and estimated direct energy reduction till 2032 is 168,295,091 GJ which is 122 % against the target.

Implementation Status 2024: 6th PIR

### 2.3. Implementation Status and Risks

	PIR#	Rating towards outcomes (section 3.1)	Rating towards outputs (section 3.2)	Risk rating (section 4.2)
FY 2024	6th PIR	MU	MU	M
FY 2023	5th PIR	U	U	H
FY 2022	4th PIR	MS	MU	H
FY 2021	3rd PIR	S	S	L
FY 2020	2nd PIR	HS	S	L
FY 2019	1st PIR	HS	S	L
FY 2018				
FY 2017				
FY 2016				
FY 2015				

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## **Summary of status**

Summary of status

### **Rating towards outcomes:**

Overall rating towards outcomes has improved from Unsatisfactory to Moderately Unsatisfactory, post engagement of the Co-Executing Agency (IIEC).

It may be noted that the project was suspended in Jan 2023 due to a delay in the renewal of the agreement from EESL due to which the progress and reporting was bare minimum. However, outcomes under component 1 (which were aligned with the ADB Loan) have already seen satisfactory progress. Since signing of the Project Cooperation Agreement (PCA) with IIEC as Co-EA on 06th December 2023, the project has gained significant momentum from January 2024. The revised workplan was agreed and is being implemented. In the 6 months a number of deliverables have been initiated and ground prepared for other deliverables. The key challenge remains the realignment of EESL to the market situation and its role as EE super ESCOs.

### **Rating towards outputs:**

Overall rating towards outputs has improved from Unsatisfactory to Moderately Unsatisfactory.

The outputs defined under the work plan have also seen good progress since Jan 2024 with the signing of seven (7) contracts with consultants for carrying out various market assessments, impact assessment.

As reported in the previous PIRs, investment in the existing line of technologies under component 1 like using ADB loan (L-3436) has been completed and has become part of EESL's standard business. Significant physical progress under component 1 technologies has also been attained. It may be noted that during the second revision of the work plan, outputs and activities under component 1 have been aligned with component 2 and 3 to have better synergy and orientation. EERF-related development work is now brought under component 2 and activities like QA, capacity building, MRV, etc. to create a favorable ecosystem for scaling up EE investments are brought under component 3.

Further, the outputs defined under the revised work plan have also seen progress, since Jan 2024 with the signing of seven (7) contracts with consultants for carrying out various market assessments, impact assessments, and feasibility studies, barring delays in execution timelines of a few contracts.

It may be noted that ADB grant (USD 13 million) was technically and financially closed on June 2022 and June 2023 respectively.



### Rating towards risks:

Rating towards risks has reduced from High to Medium.

With reference to the risk mitigation measures captured in PIR 2023, UNEP and EESL discussed and finalized the revised execution arrangements. Based on which an exercise was carried out and a third-party agency to support EESL in project management and execution was identified (M/s International Institute for Energy Conservation (IIEC)). Since the signing of the project cooperation agreement with IIEC as Co-EA, the project has gained significant momentum since January 2024. Further, as the new CEO of EESL was appointed in late Y2022, the transition at the senior management level within the organization has stabilized now. The organization is implementing a re-alignment of its role as super EE ESCO and this is reformation does affect the decision making.

Lack of adequate ownership of the project activities and its institutionalization within EESL remains a challenge. Further, some of the procurement activities which were initiated by EESL in early 2023 remain open leading to significant delay.

### 2.4 Co Finance

<b>Planned Co-finance:</b>	\$ 434,200,000
<b>Actual to date:</b>	273,573,000
<b>Progress</b>	<b>Justify progress in terms of materialization of expected co-finance. State any relevant challenges:</b>  Till June 2021, the total co-financing realization was around 63% of the total USD 434.2 million committed towards the project. The latest reports are being generated and will be submitted in the next reporting cycle.

### 2.5. Stakeholder

<b>Date of project steering committee meeting</b>	2024-06-19
<b>Stakeholder engagement (will be uploaded to GEF Portal)</b>	During this reporting period after the restart of the project with the revised execution arrangement, EESL & IIEC organized three (3) stakeholder consultations with the support of the project. The objective of these consultations was to deliberate on the identified energy-efficient technologies and solutions for the industries and gather inputs required for developing a national-level programs by

EESL. The summary and the key takeaways from these consultations are as follows.

**1. Technical Consultation on Compressed Air Systems:** The consultation was organized jointly by EESL, IIEC & BEE on 06th February 2024, at Scope Convention Centre inviting key stakeholders working in the Compressors and turbo blowers' domain. It was attended by 26 participants including OEMs, solution providers, EPC contractors, and sector experts.

Outcome: The inputs were gathered for finalizing the technical and procurement specifications for compressors. Accordingly, the tender document has been drafted and issued by EESL.

Tender Details:

i. Compressed Air Systems: Designing, engineering, supply, inspection, installation, testing and commissioning, of energy-efficient compressor air system with screw compressors

Quantity: 13 nos. Tender Value: USD 492,311

ii. Turbo Blowers: Design, engineering, supply, inspection, installation, testing and commissioning of Energy Efficient Turbo-Blower along with onsite warranty of two years on Pan India Basis

Quantity: 17 nos. Tender Value: USD 668,732

**2. Technical Consultation on Waste Heat Recovery Systems in Industries:** The consultation was organized by EESL & IIEC on 13th March 2024, at the EESL Conference Room inviting key stakeholders working in the WHRS domain, to seek inputs for developing a large-scale deployment program by EESL on WHRS. The consultation saw 41 participants from manufacturers, solution providers, technology consultants, EPC contractors, and sector experts.

Outcome: The inputs were gathered for finalizing the technical and procurement specifications for WHRS. Accordingly, the tender document has been drafted and issued by EESL.

ii. EESL should conduct a few feasibility studies to understand the implementation modalities and challenges before the rollout of a national-level program.

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**3. Technical Consultation on Heat Pumps:** This consultation was organized by IIEC & EESL jointly with ISHRAE (industry association) on 22nd May 2024 at Pune, Maharashtra. It was attended by 65 participants from CLASP, ISHRAE, OEMs, HVAC consultants, sector experts, and end users.

Key Takeaways: i. Develop guidelines for heat pumps on design and applications across sectors.

ii. EESL jointly with manufacturers & ISHRAE should conduct awareness workshops for Heat pumps and their uses in industries.

The project has also set up a project executive committee, involving UNEP TM, EESL NPD, and IIEC Senior representatives, which meets once in 3 months to discuss operational issues. Under this setup, meetings were held on 02 January 2024, 25 April 2024 and 12 July 2024.

Further, a project steering committee was held on 19 June 2024 under the chairpersonship of the CEO, EESL and involving representatives from UNEP, EESL, IIEC, ADB and MoEF&CC (special invitee). Some of the key discussions from this PSC include:

i. Detailed discussion of activities initiated/ completed till June 2024.

ii. Deliberation on annual workplan for the Year 2024 along with key activities planned for H2 2024.

iii. Approvals sought for TA proposals presented to the committee such as the Development of a design and application Guidelines for Heat Pumps, Empanelment of agencies for Feasibility studies and M&V studies for strengthening scaling-up efforts and requirement of additional human resources support by EESL for the project.

iv. The committee Chair highlighted the need for a comprehensive study on the induction cookstove landscape in India as the Government of India has mandated EESL to carry out large-scale deployment of induction cookstoves in the next 3 years.

v. EESL further requested the need to engage an external agency to develop an appropriate marketing strategy & content, that will assist EESL in promoting the uptake of energy-efficient appliances through its online platform.

## 2.6. Gender

Does the project have a gender action plan?	Yes
Gender mainstreaming (will be uploaded to GEF Portal):	No activities have been conducted during the reporting period.

## 2.7. ESSM

Moderate/High risk projects (in terms of Environmental and social safeguards)	Was the project classified as moderate/high risk CEO Endorsement/Approval Stage? No If yes, what specific safeguard risks were identified in the SRIF/ESERN?
New social and/or environmental risks	Have any new social and/or environmental risks been identified during the reporting period? No If yes, describe the new risks or changes?
Complaints and grievances related to social and/or environmental impacts	Has the project received complaints related to social and/or environmental impacts (actual or potential) during the reporting period? No If yes, please describe the complaint(s) or grievance(s) in detail, including the status, significance, who was involved and what actions were taken?
Environmental and social safeguards management	No activities related to ESS reported this time.

## 2.8. KM/Learning

Knowledge activities and products	No activities related to knowledge management have been undertaken during this reporting period.
Main learning during the period	Nil

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## 2.9. Stories

Stories to be shared	None at this time.
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### 3 Performance

#### 3.1 Rating of progress towards achieving the project outcomes

Project Objective and Outcomes	Indicator	Baseline level	Mid-Term Target or Milestones	End of Project Target	Progress as of current period (numeric, percentage, or binary entry only)	Summary by the EA of attainment of the indicator & target as of 30 June	Progress rating
To reduce greenhouse gas (GHG) emissions through energy efficiency through scaling up and new technology applications	Cumulative amount of Direct GHG emissions reductions (in tCO2eq)	0 tCO2eq		10,556,082 tCO2eq 37,904,820 tCO2eq	330%	Projected end-of-project expected level of GHG emission reductions: 34,913,095 tCO2eq (by 2023) 46,787,361 tCO2eq (by 2032)	HS
Energy efficiency improved through the installation of street lighting (SL), domestic lighting (DL), 5 star ceiling fans and agricultural pumps (AgDSM)	Number of additional LED Street Lighting units replaced by LED lamps	1,653,204 units replaced (as at February 2017)		1,505,942 additional Street Lights replaced by LED lamps	574%	Total of 8,657,408 units replaced July 2023 - June 2024: 7000 units July 2022 – June 2023: 407,051 units July 2021 – June 2022: 702,288 units July 2020 – June 2021: 987,287 units July 2019 – June 2020: 1,562,212 units Jan 2018 – June 2019: 4,991,570 units	HS
	Number of additional Domestic Lighting units replaced by LED lamps	208,296,978 units replaced (as at February 2017)		39,776,293 additional Domestic Lights replaced by LED lamps	232 %	Total 92,222,181 units replaced July 2023 - June 2024: 61,000 units July 2022 – June 2023: 107,462 units July 2021 – June 2022: 1,839,041 units July 2020 – June 2021: 4,252,290 units July 2019 – June 2020: 16,588,630 units Jan 2018 – June 2019: 69,434,758 units	HS
	Number of additional pumps replaced by efficient agricultural pumps	2,527 units replaced (as of February 2017)		229,532 additional pumps replaced by efficient agricultural pumps	37%	Total 85,320 units replaced July 2023 - June 2024: Nil July 2022 – June 2023: 7,010 units July 2021 – June 2022: 3,393 units July 2020 – June 2021: 2,331 units July 2019 – June 2020: 3,477 units Jan 2018 – June	MU

Project Objective and Outcomes	Indicator	Baseline level	Mid-Term Target or Milestones	End of Project Target	Progress as of current period (numeric, percentage, or binary entry only)	Summary by the EA of attainment of the indicator & target as of 30 June	Progress rating
						2019: 69,109 units	
	Number of additional fans replaced by BEE 5 Star Ceiling Fans	287,929 units replaced (as at February 2017)		2,128,298 additional fans replaced by BEE 5 Star Ceiling Fans	51%	Total 10,999,961 units replaced July 2023 – June 2024: 5485 units July 2022 – June 2023: 36,250 units July 2021 – June 2022: 63,766 units July 2020 – June 2021: 51,091 units July 2019 – June 2020: 164,220 units Jan 2018 – June 2019: 779,149 units	MS
	Number of gender sensitive end-user awareness programs conducted	0		End-user awareness programs implemented with 30% women's participation	50%	A dedicated Sustainable Development Unit has been created for implementation of EHSS guidelines in EESL. This unit is also responsible for gender related activities. GEF-6 project has been encouraging women participation by extending focused invites and capturing the details of such participation in pre-defined formats. It is seen that there has been an increase in the participation of women in such programs. Also, wherever possible, women are also involved in organizing the events. The PMU continues to pursue this aspect and would ensure increased participation. However, due to the transition within the organization, the gender-related activities have been affected hugely due to minimal program related activities.	MS
	Number of Super-Efficient ACs units installed /	0		50,000 super-efficient ACs units	6.2%	Totally 3,146 no. of SEACs have been deployed with the project support.	MU

Project Objective and Outcomes	Indicator	Baseline level	Mid-Term Target or Milestones	End of Project Target	Progress as of current period (numeric, percentage, or binary entry only)	Summary by the EA of attainment of the indicator & target as of 30 June	Progress rating
	distributed			to be installed / distributed		Towards this, EESL has utilized USD 1.55 million from the EERF component.	
	Number of IE3 Motors under NMRP installed / distributed	0		40,000 Energy efficient IE3 motor units to be installed / distributed	0.4%	Till June 2024: Total 3598 nos. installed July 2023 - June 2024: No Tender July 2022 - June 2023: No Tender July 2021 - June 2022: 2045 nos. July 2020 - June 2021: 1387 nos. July 2019 - June 2020: 166 nos. (GEF supported)	HU
	Number of EV-PCIs installed	0 units		200 nos. EV Public Charging Infrastructures to be installed	93%	It's worth noting that the GEF project has financially supported a total of 186 Exicom Chargers (142 kW Combo), while an additional 115 Okaya Chargers have been financed through the ADB Loan. Despite the presence of 319 installed chargers, the count of operational chargers remain at 68% (216 chargers) due to challenges related to energization encountered by the DISCOMs. Out of these 136 chargers are GEF funded.	HS
	Number of E-electric vehicles deployed (4-W)	0 units		550	96%	Two (ICB) tenders have been executed with the support of GEF funds. Letters of Awards (LoAs) were given during the periods of September 2020 and June 2021. To date, a total of 533 vehicles have been deployed or placed across different clients.	S
	Installed Tri-generation	0 MW		Tri-generation	7%	Earlier Implemented 0.8 MW + 236 TR VAM	HU



Project Objective and Outcomes	Indicator	Baseline level	Mid-Term Target or Milestones	End of Project Target	Progress as of current period (numeric, percentage, or binary entry only)	Summary by the EA of attainment of the indicator & target as of 30 June	Progress rating
	capacity in MW			pilot project to be implemented targeting 12.5 MW of installed capacity (by 2022)		+ 136000 kCal/hr (hot water) Tri-generation at Mahindra & Mahindra, Mumbai through an EESL subsidiary EPSL and it is completed. Under this model, procurement through open bidding is not relevant.	
	Based on project pilot experiences, EESL's board endorses further investments in Tri-generation and Smart-Grid technologies	No decision		Positive decision (by 2022) with necessary programmatic framework	0%	The tri-generation pilot project has been implemented. However, beyond the same, EESL management has not decided to endorse any further investments.	HU
Enabling conditions created to support EESL growth strategy targeting US\$ 300 million in investments across all 7 technologies (SL, DL, BEE 5 Star CF, Agricultural Pumps, Super-efficient ACs, IE3 motors, EVPCI)	Number of new technologies piloted by the project that meet EESL's investment criteria	Number of current technologies ventured (5 technologies)		At least 2 new technologies meet EESL's investment criteria (by 2022)	50%	Some portion of the pilots (SEAC, IE3 motors, EV and EV chargers) and 0.8 MW Tri-generation plant which are supported by the project are also funded through EESL's equity and loan meeting the EESL's investment criteria. In addition, it may be noted, few other procurements are currently under tendering stage with the consideration of the EESL funding without the involvement of GEF grant.	MS
	Revolving Fund - investment pipeline amounts in US\$ at the end of the project	0		Investment Pipeline (as per EERF mandate) of US\$ 300,000,000 established	0	Pilots are currently being implemented. This was part of the ADB led output. However, for various reasons this was not addressed. This will be captured in future.	U

### 3.2 Rating of progress implementation towards delivery of outputs (Implementation Progress)

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
1 EXPANDING AND SUSTAINING INVESTMENTS IN EXISTING MARKET SECTORS	The outputs to expand the existing line of technologies using ADB loan has been completed and has become part of EESL's standard business.	2022-12-31	100%	100%	The outputs to expand the existing line of technologies using ADB loan have been completed and has become part of EESL's standard business. Additional details on these outputs could be referred to in previous PIRs. Output 4 of the earlier work plan pertaining to the review of the business models and MRV related activities is now considered under component 3 (as revised output 6). This shift is to have better orientation of the output under component 3 which is about strengthening the EESL systems for scaling up. Output 6 of the earlier work plan, pertaining to the revolving fund, is now shifted to Component 2 (new output 5) to have synergy with the objective of the GEF investment grant which is to support development of new business areas. This was part of the ADB led output to establish a revolving fund structure. However, for various reasons this could not be addressed and hence being carried out under component 2 (UNEP led).	S
2 BUILDING MARKET	As per the MTR review, output 7 (Standards and specifications) of the earlier work plan is now split as output 2, 3 and 4 in the revised work plan for better clarity and tracking of the progress. To have		90	90	The details mentioned below (from 2.1 to 2.3) is in addition to the progress under output 7.1 "Market assessment of	S

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
DIVERSIFICATION	synergy with the intent of the revised plan, some of the earlier outputs / deliverables which are completed have been merged. However, for visibility and to present an overall picture of the project's progress, the achievements of earlier work plan / PIRs are presented separately.				technologies to identify the current tech use, size of market, assessment of energy savings and GHG reduction by using more efficient alternative, etc.", reported in earlier PIRs. These include the following: • Market assessment for Tri-generation technology • Market assessment for SEAC technology • Market assessment for EV chargers • Market assessment for IE3 motors (study was short-closed because of the delay in initiation of the necessary activities and the associated COVID-19 situation) Additional details on the above activities could be referred in earlier PIRs.	
	2.1 Market assessment for development and implementation of BLDC fans and WHR systems programs, including its potential and identification of key sectors	2024-09-30	50	70	The BLDC Ceiling fan market assessment report has been completed and a dissemination workshop to discuss the study results was completed in September 2022. Regarding the Market Assessment of WHRS, the IIEC has awarded the contract to the shortlisted agency on 24th May '24. Subsequently, the interim report has been submitted on 24th June 2024. The final report is expected to be submitted by September 2024.	S
	2.2 Market assessment for Cooling as a Service (CaaS) model for	2024-12-31	30%	35%	UNEP has approved the ToR for the	U

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
	implementing EE cooling technologies in public buildings at two cities				engagement of a suitable agency for conducting the market assessment of this study in March 2022. Subsequently, internal approvals have been sought to float the public tender for engaging the agency. Following that, RfP has been floated on 21st Feb 2023. The bids were opened on 18th April 2023 and two bids have been received. During the reporting period, the technical bid and financial bid evaluation was completed. The award of contract is expected by the first week of July 2024. The work will be completed by October 2024.	
	2.3 Market assessment for other industrial / commercial EE technologies to identify the potential and key sectors of intervention	2024-12-31	0	10%	The RFP for the Market Assessment of Energy Efficient technologies for industrial utilities was published on 28th June 2024. The assessment covers the following technologies - Compressed Air Systems, Fans, Blowers and pumps. The proposal submission deadline is 26th July 2024. Therefore, it is expected that the contract would be awarded to the shortlisted agency by W1 August '24. The final report submission is expected by December 2024. The next set of RFP for Industrial Automation and Electric boilers is expected to be published by October 2024.	MU
	2.4 Market assessment for development and implementation of	2024-09-30	0	30%	IIEC awarded the contract on 12th June	MU

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
	Industrial/commercial heating solutions through Heat pumps, including its potential and identification of key sectors				'24. The kick-off meeting was held on 20th June '24. the inception report has been received on 11th July '24. The project progress is on track at the moment. It is expected that the final report shall be submitted by September 2024.	
	As per the MTR review, output 7 (Standards and specifications) of the earlier work plan is now split as output 2, 3 and 4 in the revised work plan for better clarity and tracking of the progress. To have synergy with the intent of the revised plan, some of the earlier outputs / deliverables which are completed have been merged. However, for visibility and to present an overall picture of the project's progress, the achievements of earlier work plan / PIRs are presented separately.		100% (in reference to the PIR 2021, before the revision of the work plan)		The details mentioned below (3.1 to 3.2) is in addition to the progress under output 7.3 "Conduct Stakeholder awareness workshops propagating component 2 technologies", reported in earlier PIRs. The project has organized/contributed to more than 40+ workshops and focus group discussions until June 2021. Additional details on these activities could be referred in previous PIRs.	
	3.1 Conduct of at least 16 awareness workshops and events (2 per quarter)	2025-12-31	50	60%	In addition to the earlier workshops conducted under the component 2 reporting in PIR 2023, the following were carried out during the reporting period: During this reporting period after the restart of the project with the revised execution arrangement, EESL & IIEC organized three (3) stakeholder consultations with the support of the project. The objective of these consultations was to deliberate on the identified energy-efficient technologies	MS

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
					<p>and solutions for the industries and gather inputs required for developing a national-level programs by EESL. The summary and the key takeaways from these consultations are as follows.1. Technical Consultation on Compressed Air Systems: The consultation was organized jointly by EESL, IIEC &amp; BEE on 06th February 2024, at Scope Convention Centre inviting key stakeholders working in the Compressors and turbo blowers domain. It was attended by 26 participants including OEMs, solution providers, EPC contractors, and sector experts. Outcome: The inputs were gathered for finalizing the technical and procurement specifications for compressors. Accordingly, the tender document has been drafted and issued by EESL.Tender Details: i. Compressed Air Systems: Designing, engineering, supply, inspection, installation, testing and commissioning, of energy-efficient compressor air system with screw compressorsQuantity: 13 nos. Tender Value: USD 492,311 ii. Turbo Blowers: Design, engineering, supply, inspection, installation, testing and commissioning of Energy Efficient Turbo-Blower along with onsite</p>	

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
					<p>warranty of two years on Pan India BasisQuantity: 17 nos. Tender Value: USD 668,7322. Technical Consultation on Waste Heat Recovery Systems in Industries: The consultation was organized by EESL &amp; IIEC on 13th March 2024, at EESL Conference Room inviting key stakeholders working in the WHRS domain, to seek inputs for developing a large-scale deployment program by EESL on WHRS, The consultation saw 41 participants from manufacturers, solution providers, technology consultants, EPC contractors and sector experts. Outcome: The inputs were gathered for finalizing the technical and procurement specifications for WHRS. Accordingly, the tender document has been drafted and issued by EESL.ii. Further, it was recommended that EESL should conduct a few feasibility studies to understand the implementation modalities and challenges prior to the roll out of a national-level program.3. Technical Consultation on Heat Pumps: This consultation was organized by IIEC &amp; EESL jointly with ISHRAE (industry association) on 22nd May 2024 at Pune, Maharashtra. It was attended by 65 participants from CLASP,</p>	

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
					ISHRAE, OEMs, HVAC consultants, sector experts and end users. Key Takeaways were i. Develop guidelines for heat pumps on design and applications across sectors. ii. EESL jointly with manufacturers & ISHRAE should conduct awareness workshops for Heat pumps and their uses in industries.	
	3.2 Conduct of at least two national / international symposium (tentatively Sept 2024 and August 2025)	2024-10-07	0	0	A national conference is planned for Sept or Oct 2024.	MU
	As per the MTR review, output 7 (Standards and specifications) of the earlier work plan is now split as output 2, 3 and 4 in the revised work plan for better clarity and tracking of the progress. To have synergy with the intent of the revised plan, some of the earlier outputs / deliverables which are completed have been merged. However, for visibility and to present an overall picture of the project's progress, the achievements of earlier work plan / PIRs are presented separately.		80% (in reference to the PIR 2021)		The details mentioned below (4.1 to 4.2) is in addition to the progress under output 7.2 "Undertake Pre-investment work covering pre-feasibility & feasibility studies, financing model, contractual conditions, contract tenure etc., to develop pilots", reported in earlier PIRs. The project has supported the development of feasibility of Tri generation at 5 sites in the past. Further, another 15+ feasibility studies were conducted for Tri generation (co-financing contribution) along with location assessment studies for EV chargers in more than 10 cities (co-financing contribution). Additional details on these activities could be referred in previous PIRs.	S
	4.1 Undertake at least 10 feasibility / detailed design studies for pilot projects of WHR, Optimization of Compressed Air System, Utility	2024-12-31	0	30%	The Contract was awarded to the shortlisted agency on 21st May '24 for	MS



Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
	Pumps, Industrial refrigeration, Boiler & steam distribution system, Chillers and AHUs (including payment security mechanisms, financial modelling, contractual obligations, capacity building, etc.)				conducting feasibility studies for WHRS at 5 different sites. The inception phase was concluded by the end of May '24. At present, the feasibility study for one client (Orient Paper & Industries Limited) has been completed. Meanwhile, EoIs have been received from 2 more clients i.e. Donear Industries Ltd., Surat & Hindware Limited. The visit for Donear is scheduled for W4 July '24. For the balance 2 sites, it is expected that EoI shall be received by W3 Jul '24. The entire studies are expected to be completed by September 2024. For the balance feasibility studies, it is planned to empanel multiple agencies pan India, to conduct feasibility studies at various clients simultaneously to optimize the cost and time in the interest of the project.	
	4.2. Detailed assessment of district cooling system and development of implementation plans for efficient cooling systems including for at least 3 townships or campuses	2025-02-28	0	0	The RFP is being drafted. It is expected to be approved by the end of July '24. However, the activity is delayed as client identification is taking longer than expected. Therefore, It is expected that the study will start by September.	S
	As per the MTR review, deliverables of the output 6 of the earlier work plan has been modified and simplified and made as output 5 of the current work plan. For visibility and to present an overall		65% (in reference to the PIR 2021)		As an interim arrangement, EESL has received a portion of the grant to its accounts for utilization against the	MS

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
	picture of the project's progress, the achievements of earlier work plan / PIRs are presented separately.				ongoing pilots. The proceeds from these pilots would be reused for further projects through the institutionalized EERF structure. As per the high-level meetings, due diligence and decision on the most appropriate structure was kept in abeyance / delayed considering the implementation of the pilots. It was decided to initiate the pilot implementation which would be followed by the institutionalizing of EERF structure. Further, one of the deliverables of output 6 of the earlier work plan was due diligence, including market research, performance review of vendors, suppliers, value chain analysis, environmental & safeguard assessment, etc. These were completed during the previous reporting cycles itself at the time of inclusion of the new technologies for ADB's financing. For additional details, previous PIRs could be referred (Output 6).	
	5.1 Finalization of most appropriate legal structure for Strategic Utilization of EERF (previously done activities with ADB support would be the basis)	2024-11-30	30	40	EESL has awarded the contract to shortlisted agency on 04th March '24. The inception meeting was concluded on 28th May '24. The data from EESL Finance department is being gathered currently. It is expected that the study will be completed by October 2024.	MU

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating																								
	5.2. Development of operation and governance guidelines for Strategic Utilization of EERF (accounting for the reflows from the current investments)	2024-11-30	30	40	Same as above	MU																								
	As per the MTR review, the activities under the output 8, component 2 of the earlier work plan focussing on the implementation of the pilots with ADB support (grant) are being taken up as a part of the EESL practice, under the project (This output was led by ADB). For visibility and to present an overall picture of the project's progress, the achievements of earlier work plan / PIRs are presented separately.		50% (in reference to PIR 2021)		<p>The achievements under the output of 8 of the earlier work plan are as follows (as of June 2024):</p> <table border="1"> <thead> <tr> <th>Technology</th> <th>Physical Progress (Nos)</th> <th>EERF investment grant utilization (USD million)</th> </tr> </thead> <tbody> <tr> <td>SEAC (Voltas)</td> <td>3,146</td> <td>1.55</td> </tr> <tr> <td>E3 motors (Rotomotive)</td> <td>166</td> <td>0.04</td> </tr> <tr> <td>EV chargers (Exciom)</td> <td>186</td> <td>1.42</td> </tr> <tr> <td>EV-1 (Tata Nexon)</td> <td>509</td> <td>3.42</td> </tr> <tr> <td>EV-2 (Tata Nexon)</td> <td></td> <td>2.99</td> </tr> <tr> <td>EV-3 (Hyundai Kona)</td> <td>24</td> <td>0.63</td> </tr> <tr> <td>Tri Generation 1 (0.8MW+236TR VAM)</td> <td></td> <td>0</td> </tr> </tbody> </table> <p>(technology supplier is EESL subsidiary; hence as per the ADB procurement guidelines, this was not eligible for GEF funding) Total 10.05</p> <p>Activities towards tendering, implementation and challenges faced under these technologies are described in previous PIRs and outcome 1 of this PIR. As seen above, out of the USD 13 million investment grant under GEF, until June 2023 period, the project has utilized USD 10.05 million indicating a satisfactory progress.</p>	Technology	Physical Progress (Nos)	EERF investment grant utilization (USD million)	SEAC (Voltas)	3,146	1.55	E3 motors (Rotomotive)	166	0.04	EV chargers (Exciom)	186	1.42	EV-1 (Tata Nexon)	509	3.42	EV-2 (Tata Nexon)		2.99	EV-3 (Hyundai Kona)	24	0.63	Tri Generation 1 (0.8MW+236TR VAM)		0	MU
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Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
3 REPLICATION AND SCALING-UP	6.1. Comprehensive review and feedback for improving programmes and systems As per MTR review, activities under the Output 4 under component 1 of the earlier work plan which included review of the business models and MRV related activities are now being considered under this revised output 6.1, component 3. This shift is to represent the synergy and intention under component 3 For visibility and to present an overall picture of the project's progress, the achievements of earlier work plan / PIRs are presented separately.		33% (in reference to the previous PIR)		Against, Output 4.1 of the earlier work plan pertaining to review of vendors, EESL has established a practice of regular review of vendors using predefined formats. This format is a joint responsibility of respective departments and the contract departments. Need based actions are taken based on these reviews. Progress under output 4.6 of the earlier work plan (conduct impact assessment studies) include the following: <ul style="list-style-type: none"> <li>Impact Assessment Study on Rural Outreach of UJALA</li> <li>Impact assessment activity of AgDSM programme at Andhra Pradesh</li> </ul> Output 4.2 to 4.5 were pertaining to MRV. It may be noted earlier tender related to "Hiring of Agency to Conduct Measurement, Reporting & Verification Study under GEF-6 Projects" were put on hold in consultation with EESL's competent authority and UNEP. This activity is planned to be carried out as per the MTR suggestions / revised work plan. Additional details on these studies could be referred in the PIR.	MS
	6.1.1. Comprehensive review of current program design including review of business models, stakeholder agreements, operation modalities, etc. for EESL programmes (mainly Street Lighting, BLDC,	2025-08-31			This activity has not yet been initiated. According to the work plan, this activity is planned for Q2 2025.	S

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
	AC, IE3 motors, etc.)					
	6.1.2. Impact Assessment of various EESL programmes including review of gender mainstreaming, social inclusiveness, conduct of 3rd party MRV, customer satisfaction surveys, etc. to review and refine the programmes (to be carried out once in Q4 2022 / Q1 2023)	2024-08-31	0	20	The impact assessment for the Street Lighting National Program (SLNP) has been initiated in May 2024. In consultation with EESL, it was decided to conduct an impact assessment for BLDC fans by the end of Y2024 (Dec). While for other programs the impact assessment shall be considered for Y2025 as during the work plan finalization on other tenders were ongoing.Regarding the SLNP assessment, the interim report was received on 11th Jul '24 after incorporating the required changes. It is expected that the study shall be completed by W3 August '24.	MU
	6.1.3. Discussion and adoption of key results of impact assessment for further integration into EESL's business practices	2024-09-30	0	0	Post completion of the impact assessment of the Street Lighting National Program (SLNP) the discussion on adoption of the key recommendations shall be initiated with EESL in the month of September 2024. Regarding other EESL programs, the discussions shall be held as and when the review and assessments as completed in due course of the project timeline.	S
	6.2. Assessment of existing QA practices including stores management practices and recommendations for systemic improvements of QA practices including training & capacity needs. Further development of technology wise (including future ones) QA	2025-09-30	0	0	According to the final work plan, this activity shall be initialized in the Y2025.	S

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
	SoPs					
	As per MTR review, output 9 under component 2 of the earlier work plan had activities on MRV and QA. This output and its activities are also now being catered under revised output 6 under component 3 (output 6.3 of the new work plan). For visibility and to present an overall picture of the project's progress, the achievements of earlier work plan / PIRs are presented separately.		10% (in reference to the PIR 2021)		As far as output 9 of the earlier work plan is concerned, earlier tender related to "Hiring of Agency to Conduct Measurement, Reporting & Verification Study under GEF-6 Projects" were put on hold in consultation with EESL's competent authority and UNEP. This activity is planned be carried out as per the MTR suggestions / revised work plan. Further, an interim study to establish the baseline and monitor the performance of the newly Super-Efficient Air-conditioner at 10 ATMs of HDFC bank was carried out during the PIR 2021 reporting period on a smaller scale which established a minimum saving % of around 30% as compared to the baseline ACs.	MS
	6.3.1 System level assessment of MRV consideration and inclusion in programme design and implementation as well as recommendations to strengthen the requirements of MRV for all future programmes	2025-10-30	0	0	According to the work plan finalized with EESL & UNEP, this activity shall be initialized in the Y2025.	S
	6.3.2. Development of MRV protocols and methodology for SLNP, BLDC, AC, IE3 motors, pumps, etc. developed, including systems for 3rd Party verification and training on MRV protocol	2025-09-30	0	0	According to the work plan finalized with EESL & UNEP, this activity shall be initialized in the Y2025.	S
	6.3.3. Implementation of the MRV data monitoring requirements and systems for data collection in the pilots	2025-09-30	0	0	According to the work plan finalized with EESL & UNEP, this activity shall be initialized in the Y2025.	S

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
	6.4.1. Assessment of capacity building needs of EESL staff	2024-12-31	0	0	This activity was planned to start in June, however, there is a delay and it expected that activity should start by Oct 2024.	MU
	6.4.2. Capacity building activities / workshops / trainings including those as per the assessments at 6.4.1 and 6.2	2025-04-30	10	10	These activities are planned for Y2025 according to the work plan.	S
	6.5. Development, upgradation and maintenance of EESLmart website including stock management, product tracking, etc. (This also includes output 12.1 to 12.3 of the previous work plan)	2024-12-31	0	0	This activity has not yet started. The current version of the portal/ mart for appliances such as lights, fans, AC and induction cookstoves has been executed by EESL's funds. However, for new projects/technologies, it shall be integrated with EESLmart at a later stage. It is envisaged that a 3rd party agency to be engaged for further integration shall happen by Q4 2024.	MU
	6.6. Development of a MIS to capture all relevant information in Street Lighting programme for effective project management	2024-12-31	0	0	This activity has not yet started. It has been decided to develop MIS not only for SLNP but also other significant programs in consultation with EESL CEO during the PSC meeting held on 19th June 2024. This activity will be initiated in September 2024 according to the work plan.	MU
	The activities under the output 11 (11.1 and 11.2), component 3 of the earlier work plan focussing on the growth strategy which were completed were not brought forward under the revised work plan. Rest of the activities under 11 have been modified as several sub-outputs under 6. For visibility and to present an overall picture of		55	55	EESL engaged service of an agency to restructure and design the organizational structure of EESL vide LoA dated 11th Feb 2019 Under this assignment, the following activities	MU

Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
	the project's progress, the achievements of earlier work plan / PIRs are presented separately.				have been carried out which pertains to the GEF-6 project:a) SWOT analysis of existing business lines and high-level strategy for continuation of business in current technologies and process to identify new technologies to be focused on going forward. b) Capacity needs assessment & capacity development strategyc) Capacity development modules.	
	7.1. EESL's contribution for NDC and Net zero pathway for public Buildings and industries	2024-12-31	0	0	This activity has not yet started. The scope of this study is to be finalized in consultation with Ministry of Environment, Forest & Climate Change (MoEF&CC). A joint meeting of EA, Co-EA and MoEFCC is planned in July '24.	MU
	7.2. Development of Carbon market strategy for EESL portfolio of programmes	2025-03-31	0	0	The RFP was floated on 01st Feb 2023. The bids were opened on 29th March 2023 and 6 bids have been received. Currently, financial bid evaluation is underway. It is expected that the contract shall be awarded by W5 July '24.	MU
	8.1. Utility based DSM plans for at least three DISCOMS	2025-10-31	0	0	As earlier some DSM activities were done with few DISCOMs till Y2022. So, it was decided in consultation with EESL that DSM activities may be replaced with Demand Response or consider doing DSM program once relevant appliances are procured by EESL. Therefore, this	MU



Component	Output/Activity	Expected completion date	Implementation status as of previous reporting period (%)	Implementation status as of current reporting period (%)	Progress rating justification, description of challenges faced and explanations for any delay	Progress Rating
					activity shall be initialized in the Y2025.	
	8.2. Energy savings plans for at least 6 entities of ULBs/Smart Cities/State Green Missions/Railways/Shipping ports/Airports/Universities	2024-10-15	5	20	As part of the activity, one set of tenders was initiated by EESL in the year 2023. The contract was awarded by EESL on 13th Feb '24 to the shortlisted agency. Inception phase concluded on 01st March '24. EOIs received for 5 buildings (of IOCL & RITES). A total 6 buildings to be covered under the contract. Currently, the audit is underway for 4 buildings of IOCL & 1 building of RITES. It is expected that all 5 studies should be completed by October 2024	MU
	8.3.1 Assessment of capacity building needs of major client groups including information content & a detailed training plan	2025-12-31	0	0	The activity is set to start from November 2024.	S
	8.3.2. Implementation of capacity building activities as per the above assessment	2025-12-31	0	0	The activities are set to start in Y2025 according to the work plan.	MU
	9.1. Development of a communication and advocacy strategy for EESL portfolio of programmes (including gender mainstreaming and aspects from various impact assessments)	2024-11-30	0	0	The activity is yet to be started due to the delay in ongoing pilots' and deployment by EESL.	U
	9.2. Preparation of public awareness materials including communication materials to document the success of implementing the pilots and MRV systems	2024-11-30	0	0	The activity is yet to be started due to the delay in ongoing pilots' and deployment by EESL.	S
	9.3. Publishing at least 4 UNEP / EESL joint articles on various pilots	2025-05-30	0	0	The activity is planned for September 2024 and May 2025.	S

The Task Manager will decide on the relevant level of disaggregation (i.e. either at the output or activity level).

## 4 Risks

### 4.1 Table A. Project management Risk

Please refer to the Risk Help Sheet for more details on rating

Risk Factor	EA Rating	TM Rating
1 Management structure - Roles and responsibilities	Low	Low
2 Governance structure - Oversight	Low	Low
3 Implementation schedule	Moderate	Substantial
4 Budget	Substantial	Substantial
5 Financial Management	Low	Low
6 Reporting	Low	Low
7 Capacity to deliver	Moderate	Substantial

If any of the risk factors is rated a Moderate or higher, please include it in Table B below

### 4.2 Table B. Risk-log

#### Implementation Status (Current PIR)

Insert ALL the risks identified either at CEO endorsement (inc. safeguards screening), previous/current PIRs, and MTRs. Use the last line to propose a suggested consolidated rating.

Risks	Risk affecting: Outcome / outputs	CEO ED	PIR 1	PIR 2	PIR 3	PIR 4	PIR 5	Current PIR	Δ	Justification
<ul style="list-style-type: none"> <li>Improper design</li> <li>Improper selection of equipment</li> <li>Complexity of technical specifications</li> <li>Limited knowledge of integrating the different components of tri-generation</li> </ul>	Outcome 2 and Output 8.1. 8.2. 8.3 and 8.4	H	M	M	M	L	L	L	=	No change
Limited number of manufacturers and	Outcome 2 and Output 8.1. 8.2.	M	L	M	L	L	L	L	=	No change

Risks	Risk affecting: Outcome / outputs	CEO ED	PIR 1	PIR 2	PIR 3	PIR 4	PIR 5	Current PIR	Δ	Justification
suppliers in India	8.3 and 8.4									
Performance risks related to performance of energy efficient equipment post implementation arises due to: <ul style="list-style-type: none"> <li>Quality of equipment</li> <li>External conditions like weather</li> <li>Equipment breakdown</li> </ul>	Outcome 2 and Output 8.1. 8.2. 8.3 and 8.4	M	L	M	L	L	L	L	=	No change
Regulatory risks arise due to change in regulatory environment in the region or country. These risks affect the project financials. Some of the regulatory risk are: <ul style="list-style-type: none"> <li>Interest rate fluctuation</li> <li>Energy price (gas. electricity) fluctuation</li> <li>Foreign exchange risk</li> <li>Regulatory changes in laws relating to tax concessions. etc.</li> </ul>	Outcome 2 and Output 8.1. 8.2. 8.3 and 8.4	L	N/A	N/A	L	L	L	L	=	No change
The financial risk mainly deals with the cost escalations associated with the project due to delay in procurement. installation and commissioning of technologies	Outcome 2 and Output 8.1. 8.2. 8.3 and 8.4	L	N/A	N/A	L	L	L	L	=	No change
<ul style="list-style-type: none"> <li>Safety of Labour</li> <li>Ensuring timely wages to labours</li> </ul>	Outcome 1 & 2. Outputs 2.5. 8.1. 8.2. 8.3 and 8.4	L	N/A	L	N/A	L	L	L	=	No change
Disposal of replaced appliances and equipment containing hazardous waste	Outcome 1 & 2. Outputs 2.5. 8.1. 8.2. 8.3 and 8.4	M	M	L	L	L	L	L	=	No change
Additional risks identified in the 2019 PIR: As far as UNEP's share of the GEF funding is concerned. As far as UNEP's share of the GEF funding is concerned. EESL is experiencing a very low expenditure rate compared to the planned budget since the	Overall	N/A	M	M	L	H	H	M	↓	With appointment of Co-executing Agency, the budget utilization levels have seen improvement. Further UNEP has also agreed for additional project support at EESL to strengthen the capacity of EESL to deliver.

Risks	Risk affecting: Outcome / outputs	CEO ED	PIR 1	PIR 2	PIR 3	PIR 4	PIR 5	Current PIR	Δ	Justification
beginning of project implementation. On the other hand, the rate of expenditures on PMC is very high compared to the substantive project components. There is a concern (1) that projected budget is disconnected from implementation needs and (2) that EESL may run out of PMC funds before the end of the project (technical completion). There is also need for increasing the understanding of the UNEP-GEF budget preparation and utilization process. Further, the EESL support teams need capacity building on using the GEF resources in agreed manner to increase the effectiveness.										
The Overall economic slowdown could affect the uptake of energy efficiency technologies in the Market.	Overall	N/A	L	M	M	L	L	L	=	No change
Additional risks identified in the 2020 PIR: The current challenge is caused by COVID-19. The pandemic has impacted the on-groundwork due to limitation on movement. This has affected the implementation of demonstration projects.	Overall	N/A	N/A	M	M	L	N/A	N/A		No change
Additional risks identified in the 2022 PIR: Slowing of decision making due to significant changes in Senior management and the Board.	Overall	N/A	N/A	N/A	N/A	H	M	L	↓	With the appointment of a full time CEO in Nov 2022 the risk level has come down. However, this continues to be a risk throughout the reporting period.

Risks	Risk affecting: Outcome / outputs	CEO ED	PIR 1	PIR 2	PIR 3	PIR 4	PIR 5	Current PIR	Δ	Justification
Additional risks identified in the 2023 PIR: Inadequate capacity and lack of support system for effective project execution leading to less than optimum budget utilization and implementation time delays (linked with the risks listed in Table 4.1)	Overall	N/A	N/A	N/A	N/A	N/A	H	H	=	Although with the engagement of the co-EA, the capacity to draft the study ToRs and procurement of services has been largely addressed, the capacity to institutionalize the various studies, activities of the project and its findings within the EESL, still remains an issue to a larger extent. This is resulting in delays in the start of the subsequent studies. Further, due to this, there is also an increased risk of less than optimum budget utilization.
		N/A	L	M	H	H	H	M	↓	With the engagement of the Co-EA, the overall risk rating has come down. The organization is implementing a re-alignment of its role as super EE ESCO and this is reformation does affect the decision making. However, lack of adequate ownership of the project activities and its institutionalization within EESL remains a challenge.

### 4.3 Table C. Outstanding Moderate, Significant, and High risks

Additional mitigation measures for the next periods

Risk	Actions decided during the previous reporting instance (PIRt-1, MTR, etc.)	Actions effectively undertaken this reporting period	What	When	By Whom
<p>Supplement EESL capacity for effective leveraging of GEF resources: There is also need for increasing the understanding of the UNEP-GEF budget preparation and utilization process. Further, the EESL support teams need capacity building on using the GEF resources in agreed manner to increase the effectiveness Slowing of decision making due to significant changes in Senior management and the Board.</p>	<p>Identification of Co-Executing Agency Engagement of Co-Executing Agency to supplement EESL capacity Organize PSC meeting to endorse the new institutional arrangement. extension of the project and the revised work plan and provide technical support.</p>	<p>Co-Executing agency was engaged by December 2023 to support the executing agency for faster procurement of services PSC was organized under the chair of CEO, EESL in the month of June 2024 to take stock of things and provide guidance to expedite the project activities. Further a working level Project Executive Committee has been set up involving UNEP, IIEC and EESL officials which meets on a quarterly basis. A monthly meeting format to expeditiously resolve / agree on action plan has also been agreed.</p>	<p>NA Half-yearly PSC Quarterly PEC Monthly meeting</p>	<p>NA Dec 2024 / June 2025 Oct 2024/March 2025 Monthly</p>	<p>EESL and IIEC</p>
<p>Inadequate capacity and lack of support system for effective project execution leading to less than optimum budget utilization</p>	<p>Identification of Co-Executing Agency Engagement of Co-Executing Agency to supplement EESL capacity</p>	<p>Co-Executing agency was engaged by December 2023 to support the executing agency for faster procurement of services</p>	<p>In addition to the support provided through IIEC, the co-executing agency, complete the recruitment of additional project staff</p>	<p>Sept 2024 March 2025 (for 70% commitment of funds) Sept 2024-Oct 2024 (transfer of uncommitted grant)</p>	<p>EESL IIEC &amp; EESL UNEP, EESL and IIEC</p>

Risk	Actions decided during the previous reporting instance (PIRt-1, MTR, etc.)	Actions effectively undertaken this reporting period	What	When	By Whom
and implementation time delays (linked with the risks listed in Table 4.1)		PSC was organized under the chair of CEO, EESL in the month of June 2024 to take stock of things and provide guidance to expedite the project activities.	support at EESL to strengthen the delivery. Commit at least 70% of the project resources (excluding PMC) by March 2025. Transfer of uncommitted grant at EESL to IIEC (and necessary amendments to the PCA)		

High Risk (H): There is a probability of greater than 75% that assumptions may fail to hold or materialize, and/or the project may face high risks. Significant Risk (S): There is a probability of between 51% and 75% that assumptions may fail to hold and/or the project may face substantial risks. Moderate Risk (M): There is a probability of between 26% and 50% that assumptions may fail to hold or materialize, and/or the project may face only modest risks. Low Risk (L): There is a probability of up to 25% that assumptions may fail to hold or materialize, and/or the project may face only modest risks.

## 5 Amendment - GeoSpatial

### Project Minor Amendments

Minor amendments are changes to the project design or implementation that do not have significant impact on the project objectives or scope, or an increase of the GEF project financing up to 5% as described in Annex 9 of the Project and Program Cycle Policy Guidelines. Please tick each category for which a change occurred in the fiscal year of reporting and provide a description of the change that occurred in the textbox. You may attach supporting document as appropriate

#### 5.1 Table A: Listing of all Minor Amendment (TM)

Minor Amendments	Changes
Results Framework:	
Components and Cost:	Yes
Institutional and implementation arrangements:	Yes
Financial Management:	
Implementation Schedule:	
Executing Entity:	
Executing Entity Category:	
Minor project objective change:	
Safeguards:	
Risk analysis:	
Increase of GEF financing up to 5%:	
Location of project activity:	
Other:	

#### Minor amendments

Components and cost: Work plan and budget plan have been revised based on the MTR recommendations and subsequent PSC decisions. These mainly included consideration of additional technologies to be supported under component 2 of the project. Further, outputs and activities under component 1 have been aligned with component 2 and 3 to have better synergy and orientation.

Implementation arrangements: Based on PIR 2023 mitigation measures, a third party Co-Executing Agency was engaged to support EESL to deliver the project.

Implementation schedule: MTR recommended an extension of at least one year. However, because of the various risks and challenges mentioned in PIR 2023, the project was suspended in CY 2023 and restarted in CY 2024 after the necessary executing modality changes. Under revised plan the project would be implemented until Dec 2025



## 5.2 Table B: History of project revisions and/or extensions (TM)

Version	Type	Signed/Approved by UNEP	Entry Into Force (last signature Date)	Agreement Expiry Date	Main changes introduced in this revision
Original Legal Instrument		2017-12-15	2018-01-18	2022-12-31	
Revision 1	Revision	2019-07-29	2019-07-29	2022-12-31	<ul style="list-style-type: none"> <li>Work plan and budget plan were revised to reflect the changes in the technologies supported under component 2 of the project</li> </ul>
Revision 2	Revision	2022-06-28	2022-06-28	2022-12-31	<ul style="list-style-type: none"> <li>Work plan and budget plan have been revised based on the MTR recommendations and subsequent PSC decisions. These mainly included consideration of additional technologies to be supported under the component 2 of the project.</li> <li>Further, outputs and activities under component 1 have been aligned with component 2 and 3 to have better synergy and orientation.</li> </ul>
Revision 3		2023-12-06	2023-12-06	2025-12-31	Program execution

Version	Type	Signed/Approved by UNEP	Entry Into Force (last signature Date)	Agreement Expiry Date	Main changes introduced in this revision
					modality change. Appointment of Co-Executing Agency (Technical) for faster procurement of services and better execution.

GEO Location Information:

The Location Name, Latitude and Longitude are required fields insofar as an Agency chooses to enter a project location under the set format. The Geo Name ID is required in instances where the location is not exact, such as in the case of a city, as opposed to the exact site of a physical infrastructure. The Location & Activity Description fields are optional. Project longitude and latitude must follow the Decimal Degrees WGS84 format and Agencies are encouraged to use at least four decimal points for greater accuracy. Users may add as many locations as appropriate. Web mapping applications such as OpenStreetMap or GeoNames use this format. Consider using a conversion tool as needed, such as: <https://coordinates-converter.com> Please see the Geocoding User Guide by clicking here

Location Name	Latitude	Longitude	GEO Name ID	Location Description	Activity Description
India	22	79	1269750		

Please provide any further geo-referenced information and map where the project interventions is taking place as appropriate. \*

[\[Annex any linked geospatial file\]](#)

**Additional Supporting Documents:**

Filename	File Uploaded By	File Uploaded At	
MoM GEF-6 Inception Meeting 02-01-2024.pdf	Executing Agency	2024-07-23 11:06:08	<a href="#">Download</a>
MoM 5th PSC Meeting GEF6 9258.pdf	Executing Agency	2024-07-23 11:06:08	<a href="#">Download</a>
GEF 9258 Progress Report for Q1 2024.pdf	Executing Agency	2024-07-23 11:06:08	<a href="#">Download</a>