

UNEP GEF PIR Fiscal Year 2022

Reporting from 1 July 2021 to 30 June 2022

INSTRUCTIONS TO COMPLETE THIS PIR

1. *Instructions in blue are directed to Task Managers / Administrative Officers*
2. *Instructions in red are directed to Project Managers and Executing Agencies*
3. When filling up the respective cells, use the Normal style from the template. The text will look like this.

1. PROJECT IDENTIFICATION

1.1. Project details

This entire table is to be prepared by Task Managers

Identification Table	GEF ID.: 9258	Umoja no.: S1-32CBL-000001; SB-011160.02
Project Title	Creating and sustaining markets for Energy Efficiency	
Duration months	60 months	
	<i>Planned</i>	
	<i>Extension(s)</i>	
Division(s) Implementing the project	UN Environment, Economy Division, Energy & Climate Branch, Climate Mitigation Unit	
Name of co-implementing Agency	Asian Development Bank (ADB)	
Executing Agency(ies)	Energy Efficiency Services Limited (EESL)	
Names of Other Project Partners	KfW ¹	
Project Type	Full Size Project	
Project Scope	National	
Region	West Asia	
Countries	India	
Programme of Work	PoW 2018-2019, Sub programme 1 Climate Change	
GEF Focal Area(s)	Climate Change Mitigation	
UNSDCF / UNDAF linkages	India UNDAF 2013-2017: Outcome 6 - Sustainable Development. ²	
Link to relevant SDG target(s) and SDG indicator(s)	<p>The project is aligned with SDG-7: Ensure access to affordable, reliable, sustainable, and modern energy for all</p> <ul style="list-style-type: none"> • Target 7.3: By 2030, double the global rate of improvement in energy efficiency 	

¹ 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 and their role has reduced

² The project was developed and finalized in context of UNDAF 2014 – 17, hence the same has been referred to.

	Target 7.b By 2030, expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all	
GEF financing amount	US\$ 18,855,963 - UN Environment: US\$ 4,489,157 ADB: US\$ 14,366,806	
Co-financing amount	US\$ 434,200,000	
Date of CEO Endorsement	1 June 2017	
Start of Implementation	UN Environment: 15 December 2017 ADB: 24 October 2017	
Date of first disbursement	UN Environment: 18 January 2018 ADB: 25 April 2018	
Total disbursement as of 30 June 2022	US\$ - 1,241,320 (UNEP) US\$ - 11,399,000 (ADB – EERF)	
Total expenditure as of 30 June 2022	US\$ - 1,032,396 (UNEP TA) US\$ - 8,640,000 (ADB – EERF)	
Expected Mid-Term Review Date	June 2021	
Completion Date	<i>Planned</i>	31 December 2022
	<i>Revised</i>	MTR recommended an extension of at least one year. However, because of the various risks and challenges mentioned below in section 2.3 and 3.3, the extension is currently under review
Expected Terminal Evaluation Date	March 2023 (as per current timelines. Depending upon the extension, it may change)	
Expected Financial Closure Date	January 2024 (as per current timelines. Depending upon the extension, it may change)	

1.2. Project description

Recognizing India's efforts towards a low emission-economy and focusing on energy efficiency program, the Global Environment Facility (GEF) 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 five-year project (2018-2022) 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 loan³) and EESL (USD 199 million as equity & loan and USD 2.96 million as in-kind contribution).*

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.*

³ 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

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).

1.3. History of project revisions

To be completed by Task Managers

Version	Date	Main changes introduced in this revision
Revision 1	25-06-2019	<ul style="list-style-type: none"> Work plan and budget plan were revised to reflect the changes in the technologies supported under component 2 of the project
Revision 2	23-03-2022	<ul style="list-style-type: none"> 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 Further, outputs and activities under component 1 have been aligned with component 2 and 3 to have better synergy and orientation. <p>MTR recommended an extension of at least one year. However, because of the various risks and challenges mentioned below in section 2.3 and 3.3, the extension is currently under review</p>

2. OVERVIEW OF PROJECT STATUS

To be completed by UNEP Task Manager

2.1. UNEP Sub programme(s)

Insert the Sub program(s) and biennia of the PoW to which the project contributes	<p>Specify the relevant Expected Accomplishment(s) & Indicator(s)</p> <p>Insert the Sub program's Expected Accomplishment(s) and Indicator(s) to which the project contributes</p> <p>Indicator (i) Increase in the number of countries supported by UNEP that make progress in adopting and/or implementing low greenhouse gas emission development plans, strategies and/or policies</p> <p>Indicator (ii) Increase in climate finance invested by countries or institutions for clean energy, energy efficiency and/or amount of decarbonized assets</p>
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(i) The project supports India in adopting a low greenhouse gas emission development plan through scaling up of existing and new energy efficient technology applications.

(ii) The project has supported the development of pipeline of energy efficiency investments in a number of appliances – Domestic Lighting, Street Lighting, Agriculture Pumps and 5-star Ceiling fans. The total investment channelled is approximately US\$ 273 million (co-finance).

Further, the GEF intervention has resulted in developing programmes in new technologies – Super-Efficient Air Conditioners, Energy Efficient Motors, Charging Stations for Electric Vehicles, Electric Vehicles, etc. EESL has utilized US\$ 8.64 million towards the preliminary design specifications and procurement of these technologies from the US\$ 13 million EERF portion of the GEF grant.

[Section to be shared with relevant Regional and Global Sub Programme Coordinators]

2.2. GEF Core Indicators (for all GEF 6 and later projects):

GEF Core Indicators	Indicative expected Results	
<i>Discuss GEF core indicators targeted by the project, as well as expected results. (maximum one paragraph)</i>		
	<i>Expected values at</i>	
<i>Indicator</i>	<i>Mid-term</i>	<i>End-of-project</i>
Core Indicator 6.2 - Emissions avoided Outside AFOLU	-	Direct: 10,556,082 tCO _{2eq} (by 2022) 37,904,820 tCO _{2eq} (by 2032) Indirect: 22,351,511 tCO _{2eq} (by 2032)
Core Indicator 6.3 - Energy Saved	-	Direct: 137,530,085,000 MJ (by 2032) Indirect: 81,098,003,043 MJ (by 2032)

2.3. Implementation status and risk

[complete the fiscal year and select: 1st PIR; 2nd PIR; Final PIR; select HS; S; MS; MU; U; HU; unknown; not rated to rate the progress towards outcomes and outputs in third and fourth lines; select H; S; M; L; to rate risks for the fiscal year you are reporting in the fifth line. Add more columns if needed]

	FY 2019	FY 2020	FY 2021	FY 2022
PIR #	1 st	2 nd	3 rd	4 th
Rating towards outcomes (section 3.1)	HS	S	S	MS

Rating towards outputs (section 3.2)	S	S	S	MU
Risk rating (section 3.3)	L	L	L	H

Rating towards outcomes: Aligned with progress reported in Section 3.1

It may be noted that outcomes under component 1 (which were aligned with the ADB Loan) have seen a satisfactory progress. On the other hand, there is insufficient progress under component 2 and 3 of the project, where the GEF grant resources are maximum.

Component 1

Considerable progress has been made in achieving the project objective of mitigating Greenhouse gas emissions (GHG) through deployment of energy efficient technologies. As against the target of mitigating 10.5 million tCO₂ (by 2022), the physical progress achieved till June 2022 under the project would result in direct GHG emission reduction of 32.7 million tCO₂ (by 2022) which is more than 300% than the target.

In terms of physical progress under component 1, the project has achieved 232% of the Domestic Lighting (DL) target and 547% of Street Lighting (SL) Target (well ahead than the intended target of completing the same in a span of 5 years). As far as Ceiling Fans are concerned, the achievement is 50% and in Ag DSM the physical progress is 34%.

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.

Component 2

The work on component 2 primarily took off in 2019 due to various factors, including the challenges related to the two technologies (Super-Efficient Ceiling Fan and Smart meters). Subsequently, during October 2020, EV 4 wheelers were also added under this component.

The project MTR also recommended inclusion of technologies focussing on improving energy efficiency in industrial & commercial setup like waste heat recovery systems, energy efficient chillers, energy efficient industrial water pumping, etc. The PSC meeting (held in January 2022) also endorsed these changes and subsequently these have been included in the revised work plan. Additional TA resources were earmarked for these new technologies towards conduct of market assessment studies, detailed project reports, etc. However, work towards these have been slow because of various reasons mentioned under risks and those that of mentioned under section 3.3.

The physical progress including the EERF grant utilization status as of June 2022 is given below:

S.no	Technology	Vendor Name	Physical Progress (Nos)	G0605 (million USD)	
				Allocation	Utilization
1	SEAC	Voltas	2,936	1.61	1.13
2	NMRP	Roto motive	166	0.04	0.04
3	EVC1	Exicom	186	3.71	1.42
4	EV-1	TATA Motors	206	3.42	2.43

5	EV-2	TATA Motors		2.99	2.99
6	EV-3	Hyundai Motors	24	1.11	0.63
7	Tri Generation		1 (0.8MW+236TR VAM)	0	0
Total				12.88⁴	8.64

Component 3

Through partial support of the project, activities in respect of Growth Strategy for DL sector, capacity building assessment and capacity building have been initiated and completed during the earlier periods.

In continuation to the above, regular development and upgradation of EESL Mart website was carried out. This also included inclusion of other technologies under the EESL Mart platform. Further, EESL organized a training on IPMVP protocol based MRV aspects in the month of January 2022.

In terms of other activities such as business plan development, carbon market strategy development, capacity development, etc., EESL has initiated the internal processes for engaging suitable agencies.

Rating towards outputs: Aligned with progress reported on section 3.2.

Component 1

In terms of physical progress under component 1, the project has achieved 232% of the Domestic Lighting (DL) target and 547% of Street Lighting (SL) Target (well ahead than the intended target of completing the same in a span of 5 years). As far as Ceiling Fans are concerned, the achievement is 50% and in AgDSM the achievement is 34%. Additionally, EESL is initiating procurement of 1.1 million streetlights and 0.1 million BLDC ceiling fan through its own funding resources (which when materialized would add to the co-financing contribution).

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.

Further, it may be noted that during the second revision of the workplan, outputs and activities under component 1 have been aligned with component 2 and 3 to have better synergy and orientation. EERF related development work are now brought under component 2 and activities like QA, capacity building, MRV, etc. to create a favourable ecosystem for scaling up EE investments are brought under component 3.

Component 2

No new tenders were floated nor LoAs were issued during the reporting period.

The physical progress of the various technologies supported by the GEF-6 project are as follows (cumulative progress):

1. Super-efficient AC -2,936 Nos
2. IE3 motors – 166 Nos.
3. EV chargers – 186 Nos

⁴ Under the USD 13 million grant administered by ADB, allocations and liquidation are done in Indian Rupees Denomination. Accordingly, USD values fluctuate due to forex variations.

4. EVs – 230 Nos.
5. Tri generation - 0.8 MW + 236 TR VAM

Towards the market assessment of three of the component 2 technologies (SEAC, IE3 motors and EV chargers), RfPs were floated and LoAs were issued to L1 bidders during PIR 2020. The reports in respect of SEAC and EV Chargers were completed during the previous reporting period (PIR 2021).

Further as per the 3rd PSC decisions, EESL conducted a Market assessment study for BLDC ceiling fans, and it was completed on Feb 2022. EESL is also planning for dissemination of findings of the report amongst stakeholders during Sept 2022.

During the reporting period, EESL organized the following workshops and outreach programs to create awareness on various GEF-6 technologies, especially those under component 2.

- Consultation Workshop on 17th November 2021 on EESL – Private ESCOs Engagement in Delhi. Workshop was aimed at accelerating market transformation by partnering with private sector ESCOs
- EESL also organized a business channel partner meet for scaling up the deployment of technologies supported under the project in the month of June 2022.
- EESL (with the support of the GEF-6 project) engaged with industry organizations such as ISHRAE & FICCI in organizing / participating in awareness creation workshops at the following locations:
 - Ernakulam
 - Aroor
 - Shoranur
 - Kanjikode
 - Coimbatore
 - Surat
 - Jaipur

During the workshops, EESL presented about SEAC, NMRP and new offerings like pumps, chillers, etc., among others.

MTR took cognizance of the outputs under component 2, progress achieved including utilization of EERF grant and suggested consideration of industrial and commercial EE technologies to support EESL in diversification. Further it also recognized the delays in execution of the activities and underutilization of TA.

Activities in respect of the industrial and commercial EE technologies, under revised work plan has seen a delay and are being expedited.

Component 3

Through partial support of the project, activities in respect of Growth Strategy for DL sector, capacity building assessment and capacity building have been initiated and completed during the earlier periods.

In continuation to the above, regular development and upgradation of EESL Mart website was carried out. This also included inclusion of other technologies under the EESL Mart platform to the existing SEACs. Further, EESL organized a training for on IPMVP protocol based MRV aspects for a group of employees in the month of January 2022.

In terms of other activities as per the revised work plan, such as business plan development, carbon market strategy development, capacity development, etc. EESL has initiated the internal processes for tendering.

Overall risk rating: Aligned with progress reported on section 3.3.

The risk to timely completion of activities and achieving the desired outputs/outcomes has significantly increased. The increase is primarily due to following two reasons:

- (i) The significant change at the top-level management was carried out by the Government in September 2021. Several senior officers too resigned following the changes in top management. The organization since has been headed by an interim CEO and process of selection of new CEO, which was to be completed by December 2021, has still not been completed. This has slowed down the decision-making processes and adversely affected the work of the project.
- (ii) The restructuring of the Board due to changes in the ownership among key corporations that constituted the EESL. The change in the Board has affected the approach to investments resulting in review of the EESL business model to assess the risk to investments and recovering of outstanding dues. The focus is also on shifting from government and public sector heavy clientele to private sector clientele. This re-think has resulted in review of internal systems and is also contributing to relationship management challenges with clients and vendors. This too has affected the speed of decision making.

A key challenge identified by the MTR was absence of a senior advisor with state of knowledge on EE markets as well as policy regulatory issues. This has affected the capacity of the team to identify opportunities and design interventions to support the EESL strategy for expanding EE markets. The current staff at EESL is more technical with project management focus. Though it was recommended to recruit such a senior advisor, current slowdown in decision making has affected recruitment of such expert. This also has contributed to the challenges in leveraging the project support to EESL efforts.

These factors have contributed to rating of high risk of project achieving its results even if the project is extended by one year as per MTR recommendations.

2.4. Co-financing

<p>Planned Co-finance Total: <i>(\$ 434,200,000 in USD)</i></p> <p>Actual to date: <i>(USD 273,573,000 and 63% for the period up to June 2021)</i></p>	<p><i>Justify progress in terms of materialization of expected co-finance. State any relevant challenges.</i></p> <p><i>(maximum one paragraph)</i></p> <p>Till the period up to June 2021, total co-financing realization was around 63% of the total USD 434.2 committed towards the project. During the remaining course of the project until December 2022 (or with any extension), further substantial progress is anticipated. Co-financing figures for the period up to June 2022 is currently under finalization and the audited figures would be reported during the next reporting cycle.</p>
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2.5. Stakeholder engagement

<p>Stakeholder engagement</p>	<p><i>Describe progress, challenges and outcomes on stakeholder engagement (based on the description of the Stakeholder engagement plan included at CEO endorsement). For older projects that did not have a Stakeholder Engagement Plan in the CEO Endorsement Document, simply mention any kind of stakeholder engagement activities undertaken during the reporting period.</i></p> <p><i>EESL organized a stakeholder consultation meeting on “Accelerating adoption of sustainable solutions for Industries” on Oct 2021 in Bihar which involving various government agencies, industries, financial institutions, service providers, etc. to deliberate on EESL programmes and models of implementations.</i></p> <p><i>In an endeavour to continue engaging with the OEMs / industrial players and to constantly improve the technical specifications of the products to benefit the end consumers, EESL organized a technical consultation meet with AC OEMs in the month of February 2022. Several aspects on AC procurement such as ISEER rating, refrigerant preference, safe disposal of refrigerants, etc. were discussed during the meeting.</i></p> <p><i>EESL also organized a business channel partner meet for scaling up the deployment of technologies supported under the project in the month of June 2022.</i></p>
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2.6. Gender

<p>Gender mainstreaming</p>	<p><i>Describe progress, challenges and outcomes related to the gender-responsive measures documented at CEO Endorsement/ Approval in the gender action plan or equivalent. Older projects that were designed before gender mainstreaming should proactively report any possible gender benefits, as appropriate.</i></p> <p><i>GEF-6 PMU has been encouraging women participation by extending focussed 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.</i></p> <p><i>Following activities was performed by EESL during the reporting period.</i></p> <ol style="list-style-type: none"> <i>1. EESL organized a meet “Engagement & contribution of Women in achieving the Sustainable future” on 09th of April 2022 in Delhi. 36 EESL employees attended the meeting.</i> <i>2. Women employees were trained on the following topics aligned with the overall objective of EE upscaling:</i> <ul style="list-style-type: none"> <i>• SWOT analysis – May 2022.</i> <i>• Contracts & procurement, inventory and stores management – March 2022</i> <i>• Business communications – March 2022 / June 2022</i>
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	<p>3. SLNP Social Survey under Gender Action Plan: Social surveys have been conducted by EESL from time to time to assess benefits of Street Lighting efficiency on safety and security of girls/women in public spaces. During the reporting period, Surveys were conducted at various locations includes Andhra Pradesh, Himachal Pradesh, Bihar, Uttarakhand, Punjab, Telangana and Chhattisgarh. Majority of the women have reported satisfaction on the EESL Street Lights (in terms of Safety, Security etc.) as compared to the older streetlights.</p>

2.7. Environmental and social safeguards management

<p>Environmental and social safeguards management</p>	<p><i>Describe progress, challenges and outcomes related to the environmental and social safeguard-responsive measures documented at CEO Endorsement/ Approval in social safeguard action plan or equivalent. Older projects that were designed before environmental and social safeguard mainstreaming should proactively report any possible social safeguard benefits, as appropriate.</i></p> <p>During the period, various discussions/sessions on EHSS aspects has been organized with respective program teams of EESL on 27.10.2021.</p> <p>EESL have also organized various awareness sessions during the reporting period, including session on 'Environment & occupational health' (Feb.'2022 – 113 participants including 23 females).</p> <p>EESL organized various sessions for employees on social safeguards management program during May-June 2022.</p> <p>Further, towards the World Environment Day celebration on 5th June 2022, several activities including environment awareness generation were conducted.</p> <p>Under a different program, EESL has associated with Ozone Cell (Ministry of Environment, Forest and Climate Change) for creating awareness amongst AC technicians and dealers on efficient refrigerant management.</p>
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2.8. Knowledge management

<p>Knowledge activities and products</p>	<p><i>Provide a narrative of knowledge activities/ products (when applicable), as outlined in knowledge management approved at CEO Endorsement/ Approval</i></p> <p><i>(maximum one paragraph)</i></p> <p>During the reporting period, EESL conducted various knowledge management activities through training programs (virtual and physical) and created knowledge products such as reports and brochures.</p> <p>1. Conference on Battery management System for EVs was organized by EESL for the EESL Clients and internal employees on 5th June 2022. Totally 85 participants attended the meeting.</p>
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	<p>2. EESL organized a training on IPMVP protocol based MRV aspects for a group of nine employees in the month of January 2022.</p> <p>3. During this reporting period, EESL has also organized technician training programmes on installation of lights, safety precautions to be taken while installing and maintenance of lights on 10th March. Totally 11 participants were attending the training session in Delhi</p>
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2.9. Stories to be shared

Stories to be shared	<p><i>Optional for mature projects: Provide a brief summary of any especially interesting and impactful project results that are worth sharing with a larger audience, and/or investing communications time in, if any.</i></p> <p>Not at this time</p>
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3. PROJECT PERFORMANCE AND RISK

Based on inputs by the Project Manager, the **UNEP Task Manager**⁵ will make an overall assessment and provide ratings of:

- (i) Progress towards achieving the project Results(s)- see section 3.1
- (ii) Implementation progress – see section 3.2

Section 3.3 on Risk should be first completed by the Project Manager. The UNEP Task Manager will subsequently enter his/her own ratings in the appropriate column.

3.1 Rating of progress towards achieving the project outcomes

[copy and paste the CEO Endorsement (or latest formal Revision) approved Results Framework, adding/deleting outcome rows, as appropriate]

Project objective and Outcomes	Indicator	Baseline level	Mid-term target	End-of-project target	Summary by the EA of attainment of the indicator & target as of 30 June 2022	Progress rating ⁶
Objective: To reduce greenhouse gas (GHG) emissions through energy efficiency through scaling up and new technology applications	Cumulative amount of Direct GHG emissions reductions (in tCO ₂ eq)	0 tCO ₂ eq	-	10,556,082 tCO ₂ eq (by 2022) 37,904,820 tCO ₂ eq (by 2032)	Projected end-of-project expected level of GHG emission reductions: 32,223,488 tCO ₂ eq (by 2022) 46,870,097 tCO ₂ eq (by 2032)	HS
Outcome 1: Energy efficiency improved through the installation of street lighting (SL), domestic lighting (DL), 5 star ceiling fans and agricultural pumps (AgDSM)	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 (by 2022)	Total 92,114,719 units replaced (232% of the target) 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 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 (by 2022)	8,243,357 units replaced (547% of the target) 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

⁵ For joint projects and where applicable ratings should also be discussed with the Task Manager of co-implementing agency.

⁶ Use GEF Secretariat required six-point scale system: Highly Satisfactory (HS), Satisfactory (S), Marginally Satisfactory (MS), Marginally Unsatisfactory (MU), Unsatisfactory (U), and Highly Unsatisfactory (HU).

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Project objective and Outcomes	Indicator	Baseline level	Mid-term target	End-of-project target	Summary by the EA of attainment of the indicator & target as of 30 June 2022	Progress rating ⁶
	Number of additional pumps replaced by efficient agricultural pumps	2,527 units replaced (as at February 2017)		229,532 additional pumps replaced by efficient agricultural pumps (by 2022)	Total 78,310 units replaced (34% of the target) July 2021 – June 2022 – 3,393 units July 2020 – June 2021 – 2,331 units July 2019 – June 2020: 3,477 units Jan 2018 – June 2019 – 69,109 units	MS
	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 (by 2022)	Total 10,58,226 units replaced (50% of the target) July 2021 – June 2022 –63,766 units (including BLDC 13,948 fans) July 2020 – June 2021 – 51,091 units. July 2019 – June 2020– 164,220 units Jan 2018 – June 2019 – 779,149 units	MS

Project objective and Outcomes	Indicator	Baseline level	Mid-term target	End-of-project target	Summary by the EA of attainment of the indicator & target as of 30 June 2022	Progress rating ⁶
	Number of gender sensitive end-user awareness programs conducted	0 (none)		End-user awareness programs implemented with 30% women's participation	<p>A dedicated Sustainable Development Unit has been created for implementation of EHSS guidelines in EESL. This unit is also responsible for gender related activities</p> <p>GEF-6 PMU has been encouraging women participation by extending focussed 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.</p> <p>Following activities was performed by EESL during the reporting period.</p> <ol style="list-style-type: none"> 1. EESL organized a meet “Engagement & contribution of Women in achieving the Sustainable future” on 09th of April 2022 in Delhi. 36 EESL employees attended the meeting. 2. Women employees were trained on the following topics aligned with the overall objective of EE upscaling: <ul style="list-style-type: none"> • SWOT analysis – May 2022. • Contracts & procurement, inventory and stores management – March 2022 • Business communications – March 2022 / June 2022 3. SLNP Social Survey under Gender Action Plan: Social surveys have been conducted by EESL from time to time to assess benefits of Street Lighting efficiency on safety and security of girls/women in public spaces. During the reporting period, Surveys were conducted at various locations includes Andhra Pradesh, Himachal Pradesh, Bihar, Uttarakhand, Punjab, Telangana and Chhattisgarh. Majority of the women have reported satisfaction on the EESL Street Lights (in terms of Safety, Security etc.) as compared to the older streetlights. 	MS

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Project objective and Outcomes	Indicator	Baseline level	Mid-term target	End-of-project target	Summary by the EA of attainment of the indicator & target as of 30 June 2022	Progress rating ⁶
<p>Outcome 2: Energy efficiency improved through the installation of super-efficient ACs, tri-generation technologies, IE3 Motors under NMRP and EV Charging Infrastructure</p>	<p>Number of Super-Efficient ACs units installed / distributed</p>	<p>0 units</p>		<p>50,000 super-efficient ACs units to be installed / distributed</p>	<p>Totally 2,936 no. of SEACs have been deployed with the project support. Towards this, EESL has utilized USD 1.13 million from the EERF component.</p> <p>The first and second wave of COVID-19 pandemic heavily impacted the SEAC deployment, as the ACs are highly season dependent. Intended targets could not be achieved due to this situation. Most of the consumers' priorities have seen a change because of the COVID-19 impacts on financial strengths and the decision to opt for a super-efficient AC product was heavily impacted.</p> <p>It may be also noted that the LoA for this programme got expired and there is no live LoA. Currently EESL is planning for procurement for 4625 nos of AC with 5.4+ ISEER rating at an outlay of around USD 2.2. million.</p> <p>During the reporting period, EESL also supported Government of India's e-market place (GeM) authority in the development of new category for Super-efficient air conditioners namely "Green AC" based on the learnings of the pilot under the GEF project.</p>	<p><i>MU</i></p>

Project objective and Outcomes	Indicator	Baseline level	Mid-term target	End-of-project target	Summary by the EA of attainment of the indicator & target as of 30 June 2022	Progress rating ⁶
	Number of IE3 Motors under NMRP installed / distributed	0 units		40,000 Energy efficient IE3 motor units to be installed / distributed	<p>166 No. of IE3 Motors</p> <p>0.75 kW – 4 no. 1.5 kW – 16 no. 1.1 kW – 2 no. 2.2 kW – 36 no. 3.7 kW – 50 no. 5.5 kW – 10 no. 7.5 kW – 10 no. 11 kW – 7 no. 15 kW – 16 no. 18.5 kW – 7 no. 22 kW – 8 no.</p> <p>Because of the lack of brand acceptance, EESL earlier carried out brand specific limited tenders for 2,000 IE-3 Motors to meet the client's requirement. Through this, around 1,387 No. of IE3 Motors (Capacity range from 0.75kW – 75kW) have been supplied till June 2022.</p> <p>With support of GEF project, 166 Nos of Motors has been deployed across various industries. As NMRP is a standard program vertical of EESL, it is promoted in every marketing drive done by EESL.</p> <p>EESL signed agreements and MoUs with industry clients and corporate groups for aggregation of demand across industry. Also, EESL initiated next procurement for 10,000 Nos of IE3 Motors through its own financing.</p>	MU

Project objective and Outcomes	Indicator	Baseline level	Mid-term target	End-of-project target	Summary by the EA of attainment of the indicator & target as of 30 June 2022	Progress rating ⁶																														
	Number of EV-PCIs installed	0 units		200 nos. EV Public Charging Infrastructures to be installed	<p>Details of the physical progress till June 2022 are as follows:</p> <table border="1" data-bbox="1290 252 1908 657"> <thead> <tr> <th>Sr. No.</th> <th>Vendor Name</th> <th>Charger Type</th> <th>Installed (Qty.)</th> <th>Commissioned (Qty)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>M/s Exicom</td> <td>Combo 142 kW</td> <td>185</td> <td>91</td> </tr> <tr> <td>2.</td> <td>M/s Okaya (LoA 1)</td> <td>Combo 142 kW</td> <td>1</td> <td>1</td> </tr> <tr> <td>3.</td> <td>M/s Okaya</td> <td>DC-001 15 kW</td> <td>103</td> <td>31</td> </tr> <tr> <td>4.</td> <td>M/s Okaya (LoA 1)</td> <td>CCS2 50 kW</td> <td>16</td> <td>7</td> </tr> <tr> <td>5.</td> <td>M/s Okaya (LoA 1)</td> <td>AC Type 2 22kW</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <p>It may be noted that even though the installed number of chargers are more than 300+, commissioned chargers are on the lower side, because of energization issues faced at the DISCOMs.</p> <p>From the above listing, 185 Nos of Exicom Chargers (142 kW Combo) are funded by the GEF project. Rest, 120 Nos of Okaya Chargers are funded under the ADB Loan part (Id - 3436)</p> <p>Currently EESL is planning for 80 CCS Type 2 chargers through its own financing.</p>	Sr. No.	Vendor Name	Charger Type	Installed (Qty.)	Commissioned (Qty)	1.	M/s Exicom	Combo 142 kW	185	91	2.	M/s Okaya (LoA 1)	Combo 142 kW	1	1	3.	M/s Okaya	DC-001 15 kW	103	31	4.	M/s Okaya (LoA 1)	CCS2 50 kW	16	7	5.	M/s Okaya (LoA 1)	AC Type 2 22kW	-	-	S
Sr. No.	Vendor Name	Charger Type	Installed (Qty.)	Commissioned (Qty)																																
1.	M/s Exicom	Combo 142 kW	185	91																																
2.	M/s Okaya (LoA 1)	Combo 142 kW	1	1																																
3.	M/s Okaya	DC-001 15 kW	103	31																																
4.	M/s Okaya (LoA 1)	CCS2 50 kW	16	7																																
5.	M/s Okaya (LoA 1)	AC Type 2 22kW	-	-																																
	Number of E-electric vehicles deployed (4-W)	0 units		550	<p>Two ICB tenders have been carried out based on ADB funding. LoAs were issued during September 2020 and June 2021 period.</p> <p>Around 230 vehicles have been supplied / deployed so far to various clients. This includes supply of 206 Tata Nexon variant and 24 Hyundai Kona.</p>	MS																														
	Installed Tri-generation capacity in MW	0 MW		Tri-generation pilot project to be implemented targeting 12.5 MW of installed capacity (by 2022)	<p><i>Total quantity installed during period - Nil</i></p> <p>Implementation of 0.8 MW + 236 TR VAM Tri-generation at Mahindra & Mahindra, Mumbai through an EESL subsidiary and complete. Under this model, procurement through open bidding is not relevant.</p> <p>EESL approached various organizations for implementation of Tri generation projects in India.</p>	MU																														

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Project objective and Outcomes	Indicator	Baseline level	Mid-term target	End-of-project target	Summary by the EA of attainment of the indicator & target as of 30 June 2022	Progress rating ⁶
	Number of expressions of interest from facility owners in fully commercial Tri-generations contracts with EESL	0		At least 5 (by 2022)	Recently MOU has been Signed between Energy Efficiency Services Ltd and National Dairy Development Board (NDDB) 5th May 2022 for implementing Tri generation project in Varanasi Dairy Plant at Ram Nagar. This in addition to the MoUs signed earlier and reported in previous PIRs	MS
	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	The tri-generation pilot project is currently ongoing and further decision shall be taken at an appropriate time.	MU
Outcome 3: 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)	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 planning 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	Baseline is - zero for the investment EERF pipeline		Investment Pipeline (as per EERF mandate) of US\$ 300,000,000 established (by 2022)	Pilots are currently being implemented. This will be captured in future.	N/A

3.2 Rating of progress implementation towards delivery of outputs

Outputs/Activities ⁷	Expected completion date ⁸	Implementation status as of 30 June 2021 (%)	Implementation status as of 30 June 2022 (%)	Progress rating justification ⁹ , description of challenges faced and explanations for any delay	Progress rating ¹⁰
COMPONENT 1: EXPANDING AND SUSTAINING INVESTMENTS IN EXISTING MARKET SECTORS					
<p>Output 1: The outputs to expand the existing line of technologies using ADB loan has been completed and has become part of EESL's standard business.</p>	December 2022	90% (With reference CY 2020 / 21 Plans)	100%	<p>The outputs to expand the existing line of technologies using ADB loan has been completed and has become part of EESL's standard business. These include the following outputs as per the earlier work plan</p> <p>Output 1. Due diligence conducted Output 2. Energy savings contracts signed and executed Output 3. Gender sensitive social marketing campaign scaled up for target consumers. Output 5. Supply tenders for installation and maintenance awarded and contracts signed</p> <p>Additional details on these outputs could be referred in previous PIRs.</p> <p>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 the component 3 which is about strengthening the EESL systems for scaling up.</p> <p>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 was not addressed.</p>	S
COMPONENT 2: BUILDING MARKET DIVERSIFICATION					
<p>Output 2: Market assessment of new identified EE interventions to scale up EE investments conducted, and possible pilots identified</p>				Output level progress rating is based on the progress of both the previous & current work plan / PIRs, as presented below.	MS

⁷ Outputs and activities (or deliverables) as described in the project logframe (and workplan) or in any updated project revision.

⁸ MTR has recommended a one-year extension and the revised work plan was developed with an end date of Dec 2023. The completion dates mentioned here reflects that. However, as mentioned above, the extension is under assessment because of the risks detailed out in sections 2.3 and 3.3

⁹ As much as possible, describe in terms of immediate gains to target groups, e.g. access to project deliverables, participation in receiving services; gains in knowledge, etc.

¹⁰ To be provided by the UNEP Task Manager

Outputs/Activities ⁷	Expected completion date ⁸	Implementation status as of 30 June 2021 (%)	Implementation status as of 30 June 2022 (%)	Progress rating justification ⁹ , description of challenges faced and explanations for any delay	Progress rating ¹⁰
<p>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.</p> <p>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.</p>		90% (in reference to the PIR 2021)		<p>The details mentioned below (from 2.1 to 2.3) is in addition to the progress under output 7.1 "Market assessment of 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:</p> <ul style="list-style-type: none"> • Market assessment for Trigeration 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) <p>Additional details on the above activities could be referred in earlier PIRs.</p>	S
2.1 Market assessment for development and implementation of BLDC fans and WHR systems programs, including its potential and identification of key sectors	October 2022	-NA-	50%	<p>RFP for Market / Impact assessment study for 5 Star Ceiling fans / BLDC fans was floated in November 2020 and LoA was awarded in the month of March 2021. The study was completed in Feb 2022. A dissemination workshop to discuss on the study results is planned in the month of Sept 2022.</p> <p>With regards to the market assessment study for WHR is concerned, ToR for engaging a suitable consulting firm is in preparation stage.</p>	MS
2.2 Market assessment for Cooling as a Service (CaaS) model for implementing EE cooling technologies in public buildings at two cities	November 2022	-NA-	0%	<p>UNEP has approved the ToR for engagement of a suitable agency for conducting the market assessment of this study in March 2022. Subsequently, internal approvals are being sought to float the public tender for engaging the agency. It is expected that the tender would be floated by Sept 2022 and the agency would be on board by November 2022.</p>	U
2.3 Market assessment for other industrial / commercial EE technologies to identify the potential and key sectors of intervention	May 2023	-NA-	0%	<p>As per the revised work plan, the said activity shall be initiated on Jan 2023. Would be reported in the next cycle.</p>	NA
Output 3: Awareness building workshops and events undertaken to disseminate market assessment study findings among potential clients				<p>Output level progress rating is based on the progress of both the previous & current work plan / PIRs, as presented below.</p>	S

Outputs/Activities ⁷	Expected completion date ⁸	Implementation status as of 30 June 2021 (%)	Implementation status as of 30 June 2022 (%)	Progress rating justification ⁹ , description of challenges faced and explanations for any delay	Progress rating ¹⁰
<p>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.</p> <p>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.</p>		100% (in reference to the PIR 2021)		<p>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.</p>	HS
3.1 Conduct of at least 16 awareness workshops and events (2 per quarter)	December 2023	-NA-	40%	<p>In addition to the earlier workshops conducted under the component 2, the following were carried out during the reporting period:</p> <ul style="list-style-type: none"> i. EESL and FICCI jointly organized a series of four workshops on Industrial Energy Efficiency during Nov 21-Jan 22 in Kerala. ii. EESL collaborated with ISHRAE in their annual flagship event focusses on cooling at five cities during Jan – March 2022. EE interventions in building and air conditioning was elucidated during these workshops. EESL is planning similar awareness workshop for 2022-2023. iii. Consultation Workshop on 17th November 2021 on EESL – Private ESCOs Engagement at Delhi. 	MS
3.2. Conduct of at least two national / international symposium (tentatively Sept 2022 and October 2023)	October 2023	-NA-	0%	As per work plan, the said activity is planned on Sept 2022 and Oct 2023. Would be reported in the next cycle.	NA
Output 4: Feasibility assessment undertaken for identified potential pilots and investment project prepared				Output level progress rating is based on the progress of both the previous & current work plan / PIRs, as presented below.	MS

Outputs/Activities ⁷	Expected completion date ⁸	Implementation status as of 30 June 2021 (%)	Implementation status as of 30 June 2022 (%)	Progress rating justification ⁹ , description of challenges faced and explanations for any delay	Progress rating ¹⁰
<p>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.</p> <p>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.</p>		80% (in reference to the PIR 2021)		<p>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.</p> <p>The project has supported the development of feasibility of Trigeration at 5 sites in the past. Further, another 15+ feasibility studies were conducted for Trigeration (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.</p>	S
4.1 Undertake at least 8 feasibility / detailed design studies for pilot projects of IE3 motors, Pump, Chillers and WHR (including payment security mechanisms, financial modelling, contractual obligations, capacity building, etc.)	July 2022	-NA-	0%	<p>As per revised work plan, this activity was planned on May – July 2022. ToR for the feasibility study on Pumps has been approved by UNEP during March 2022. EESL is initiating the internal procurement process and expected to float the tender by October 2022.</p> <p>ToRs for other technologies are in preparation stage.</p>	U
4.2 Detailed assessment of urban cooling demand and development of implementation plans for efficient cooling systems including district cooling system for at least two cities	November 2022	-NA-	0%	As per work plan, the said activity is planned to be initiated Sep 2022. Would be reported in the next cycle.	NA
Output 5: EERF designed and operationalized to demonstrated financing/business models in new EE interventions and reduce investment risks				Output level progress rating is based on the progress of both the previous & current work plan / PIRs, as presented below.	MU

Outputs/Activities ⁷	Expected completion date ⁸	Implementation status as of 30 June 2021 (%)	Implementation status as of 30 June 2022 (%)	Progress rating justification ⁹ , description of challenges faced and explanations for any delay	Progress rating ¹⁰
<p>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.</p> <p>For visibility and to present an overall picture of the project's progress, the achievements of earlier work plan / PIRs are presented separately.</p>		65% (in reference to the PIR 2021)		<p>As an interim arrangement, EESL has received a portion of the grant to its accounts for utilization against the ongoing pilots. The proceeds from these pilots would be reused for further projects through the institutionalized EERF structure.</p> <p>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.</p> <p>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.</p> <p>For additional details, previous PIRs could be referred. (Output 6)</p>	MS
5.1 Finalization of most appropriate legal structure for Strategic Utilization of EERF (previously done activities with ADB support would be the basis)	July 2022	-NA-%	0%	Current outputs 5.1. and 5.2 have been designed to build upon the earlier activities. Necessary approvals on the ToR for engaging a suitable firm to undertake 5.1 and 5.2, was obtained from UNEP in March 2022. Subsequently, internal approvals are being sought and the tender is expected be floated by October 2022.	MU
5.2 Development of operation and governance guidelines for Strategic Utilization of EERF (accounting for the reflows from the current investments)	July 2022	-NA-%	0%		

Outputs/Activities ⁷	Expected completion date ⁸	Implementation status as of 30 June 2021 (%)	Implementation status as of 30 June 2022 (%)	Progress rating justification ⁹ , description of challenges faced and explanations for any delay	Progress rating ¹⁰																											
<p>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 (<i>This output was led by ADB</i>).</p> <p>For visibility and to present an overall picture of the project's progress, the achievements of earlier work plan / PIRs are presented separately.</p>		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 2022):</p> <table border="1" data-bbox="1263 320 1870 895"> <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>2,936</td> <td>1.13</td> </tr> <tr> <td>IE3 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>206</td> <td>2.43</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</td> <td>1 (0.8MW+ 236TR VAM)</td> <td>0 (technology supplier is EESL subsidiary; hence as per the ADB procurement guidelines, this was not eligible for GEF funding)</td> </tr> <tr> <td>Total</td> <td></td> <td>8.64</td> </tr> </tbody> </table> <p>Activities towards tendering, implementation and challenges faced under these technologies are described in previous PIRs and outcome 1 of this PIR.</p> <p>As may be seen from the above table, out of the USD 13 million investment grant under GEF, until June 2022 period, the project has utilized USD 8.64 million indicating a satisfactory progress.</p> <p>Based on the above activities, EESL is also planning for additional procurement of some of these technologies indicating integration of the efforts and learnings into EESL normal practices.</p>	Technology	Physical Progress (Nos)	EERF investment grant utilization (USD million)	SEAC (Voltas)	2,936	1.13	IE3 motors (Rotomotive)	166	0.04	EV chargers (Exciom)	186	1.42	EV-1 (Tata Nexon)	206	2.43	EV-2 (Tata Nexon)		2.99	EV-3 (Hyundai Kona)	24	0.63	Tri Generation	1 (0.8MW+ 236TR VAM)	0 (technology supplier is EESL subsidiary; hence as per the ADB procurement guidelines, this was not eligible for GEF funding)	Total		8.64	
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<p>COMPONENT 3: REPLICATION AND SCALING-UP</p>																																
<p>Output 6: EESL systems for efficient management of project delivery and implementation including tracking EE and GHG gains strengthened and integration of gender aspects.</p>				<p>Output level progress rating is based on the progress of both the previous & current work plan / PIRs.</p>	<p>MU</p>																											

Outputs/Activities ⁷	Expected completion date ⁸	Implementation status as of 30 June 2021 (%)	Implementation status as of 30 June 2022 (%)	Progress rating justification ⁹ , description of challenges faced and explanations for any delay	Progress rating ¹⁰
6.1. Comprehensive review and feedback for improving programmes and systems					
<p>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</p> <p>For visibility and to present an overall picture of the project's progress, the achievements of earlier work plan / PIRs are presented separately.</p>		33% (in reference to the previous PIR)		<p>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.</p> <p>Progress under output 4.6 of the earlier work plan (conduct impact assessment studies) include the following:</p> <ul style="list-style-type: none"> • Impact Assessment Study on Rural Outreach of UJALA • Impact assessment activity of AgDSM programme at Andhra Pradesh <p>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 would now be carried out as per the MTR suggestions / revised work plan.</p> <p>Additional details on these studies could be referred in PIR 2021.</p>	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, AC, IE3 motors, etc.)	September 2022	0%	0%	<p>As per revised work plan, the activity was to begin in June 2022 and end by September 2022.</p> <p>However, the activity is delayed. The ToR is currently under preparation stage. After the approval from UNEP, process for engagement of agency for conducting this study will be initiated.</p>	U
6.1.2. Impact Assessment of various EESL programmes including review of gender mainstreaming, social inclusiveness, conduct of 3 rd party MRV, customer satisfaction surveys, etc. to review and refine the programmes (to be carried out once in Q4 2022 / Q1 2023).	March 2023	0%	0%	As per work plan, the said activity is to be initiated at Oct 2022. Would be reported in the next cycle.	NA

Outputs/Activities ⁷	Expected completion date ⁸	Implementation status as of 30 June 2021 (%)	Implementation status as of 30 June 2022 (%)	Progress rating justification ⁹ , description of challenges faced and explanations for any delay	Progress rating ¹⁰
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 SoPs	September 2022	0%	0%	As per revised work plan, the activity was to begin in June 2022 and end by September 2022. However, the activity is delayed. The ToR is currently under preparation stage. After the approval from UNEP, process for engagement of agency for conducting this study will be initiated.	U
6.3. Strengthening MRV systems to track impacts of EESL intervention				Activities undertaken during the current reporting period is summarized below.	MU
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 previous PIR)		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 would now 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	October 2022	0%	0%	As per revised work plan, the activity was to begin in June 2022 and end by October 2022.	U
6.3.2. Development of MRV protocols and methodology for SLNP, BLDC, AC, IE3 motors, pumps, etc. developed, including systems for 3 rd Party verification and training on MRV protocol				However, the activity is delayed. The ToR is currently under preparation stage. After the approval from UNEP, process for engagement of agency for conducting this study will be initiated.	
6.3.3. Implementation of the MRV data monitoring requirements and systems for data collection in the pilots					
6.4. Capacity needs assessment and Capacity building programmes				Activities undertaken during the current reporting period is summarized below.	MU
6.4.1. Assessment of capacity building needs of EESL staff	July 2022	0%	0%	As per revised work plan, the activity was to begin in June 2022 and end by July 2022. However, the activity is delayed. The ToR is currently under preparation stage. After the approval from UNEP, process for engagement of agency for conducting this study will be initiated.	U

Outputs/Activities ⁷	Expected completion date ⁸	Implementation status as of 30 June 2021 (%)	Implementation status as of 30 June 2022 (%)	Progress rating justification ⁹ , description of challenges faced and explanations for any delay	Progress rating ¹⁰
6.4.2. Capacity building activities / workshops / trainings including those as per the assessments at 6.4.1 and 6.2	October 2023	0%	10%	Capacity building activity will be initiated once after completing the gap assessment in capacity building. In the interim, EESL employees were trained for IPMVP - MRV protocols to enrich their knowledge on MRV aspects. This was carried out during February 2022.	MU
<p>6.5. Development, upgradation and maintenance of EESLmart website including stock management, product tracking, etc.</p> <p><i>(This also includes output 12.1 to 12.3 of the previous work plan)</i></p>	August 2022	56%	65%	<p>EESL Mart website has also been expanded to other GEF 6 Technologies like SEAC, NMRP, BLDC fans, etc during the reporting period.</p> <p>Other activities like inclusion of stock management, product tracking, etc. would be carried out during the next reporting period.</p> <p>This in addition to the earlier achievements captured under output 12.1 and 12.2 of the previous PIR (Business process automation). Apart from the EESL Mart website referred above, the project has also supported the following:</p> <ol style="list-style-type: none"> 1. Development of GEF-6 Website is completed. gef6.eeslindia.org 2. Development of NMRP web-portal is completed. motor.eeslindia.org <p>Under output 12.3 of the previous work plan, a dashboard has been developed along with EESLmart for internal usage. Through the dashboard, details of placed orders, shipping details etc. are being captured. These details have also been made available to vendors.</p>	MS
<p>6.6 Development of a MIS to capture all relevant information in Street Lighting programme for effective project management</p>	September 2022	-NA-	0%	Activity not yet initiated.	U
<p>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.</p> <p>For visibility and to present an overall picture of the project's progress, the achievements of earlier work plan / PIRs are presented separately.</p>		35%		<p>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 have been carried out which pertains to the GEF-6 project:</p> <ol style="list-style-type: none"> 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 strategy c) Capacity development modules 	MS

Outputs/Activities ⁷	Expected completion date ⁸	Implementation status as of 30 June 2021 (%)	Implementation status as of 30 June 2022 (%)	Progress rating justification ⁹ , description of challenges faced and explanations for any delay	Progress rating ¹⁰
Output 7: Scaling up strategy and plan strengthened including assessing potential for raising funds through green/climate finance (new output)				Activities undertaken during the current reporting period is summarized below.	U
7.1. Business plan for Industrial & Commercial Energy Efficiency Technologies	August 2022	-NA-	0%	ToR has been approved by UNEP for engagement of a suitable consulting firm and internal process for tendering out this activity has been initiated in the month of April 2022. However, EESL senior management has advised to withhold the tendering activities in consideration of a study (funded outside of the GEF project) which focusses on a business plan for the entire EESL.	U
7.2. Development of Carbon market strategy for EESL portfolio of programmes	April 2023	-NA-	0%	After the necessary approval of ToR by UNEP, EESL initiated the procurement activities in March 2022. Subsequently, EESL senior management suggested to receive additional inputs and revise the ToR in discussion with different programs. Accordingly, discussions were held, and the ToR has been revised. Procurement processes are reinitiated, and it is expected that tendering process will be completed on October 2022 and agency will be on boarded on November 2022.	U
Output 8: Energy Efficiency Plans developed, including capacity building needs, for major client groups to identify scale up potential and projects				Activities undertaken during the current reporting period is summarized below.	U
8.1. Utility based DSM plans for at least three DISCOMS (new deliverable)	November 2022	-NA-	0%	As per revised work plan, the activity was to be initiated in June 2022. ToR for engaging a suitable agency to prepare a DSM Plan for DISCOMS is under preparation. Once after the necessary approvals from UNEP, procurement activities will be initiated. Further, EESL is already in discussion with few DISCOMS to pilot this approach.	U
8.2. Energy savings plans for at least 6 entities of ULBs/Smart Cities/State Green Missions/Railways/Shipping ports/Airports/Universities	December 2022	0%	0%	As per revised work plan, the activity was to be initiated in July 2022. However, the activity is delayed. The ToR is currently under preparation stage. After the approval from UNEP, process for engagement of agency for conducting this study will be initiated.	U
8.3. Capacity building of external stakeholders and major client groups					

Outputs/Activities ⁷	Expected completion date ⁸	Implementation status as of 30 June 2021 (%)	Implementation status as of 30 June 2022 (%)	Progress rating justification ⁹ , description of challenges faced and explanations for any delay	Progress rating ¹⁰
8.3.1 Assessment of capacity building needs of major client groups including information content & a detailed training plan	November 2022	0%	0%	As per revised work plan the said activity is planned for Sep-Nov 2022. ToR is in preparation stage. After getting the necessary approvals from UNEP, activities for engagement of agency will be initiated.	NA
8.3.2. Implementation of capacity building activities as per the above assessment	September 2023			Based on the gap assessment, capacity building activities will be planned.	
Output 9: Communication and dissemination undertaken to create wider awareness on EE interventions				Activities undertaken during the current reporting period is summarized below.	MU
9.1. Development of a communication and advocacy strategy for EESL portfolio of programmes (including gender mainstreaming and aspects from various impact assessments)	July 2023	0%	0%	The said activity is planned for July 2022. However, ToR is under preparation stage. Procurement process will be initiated subsequently.	NA
9.2. Preparation of public awareness materials including communication materials to document the success of implementing the pilots and MRV systems	December 2023	75% (with reference to previous PIR). However, this deliverable is now expanded to include additional elements	50%	Public awareness materials have been prepared throughout the span of project period. During the reporting period, several awareness materials has been prepared on SEAC, NMRP, lighting and ceiling fan. However, materials pertaining to the success stories and MRV aspects are yet to be undertaken	MS
9.3. Publishing at least 4 UNEP / EESL joint articles on various pilots (new deliverable)	April 2023	0%	0%	This activity was planned for May22, Sep 22, Jan 23 and Apr 23. It is expected that in the next quarter, this activity will be initiated.	U

3.3. Risk Rating

Table A. Risk-log

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.

Risk	Risk affecting:	Risk Rating							Variation respect to last rating	
	Outcome / outputs	CEO ED	PIR 1	PIR 2	MTR	PIR 3	PIR 4	PIR 5	Δ	Justification
Risks identified at CEO Endorsement										
<ul style="list-style-type: none"> Improper design Improper selection of equipment Complexity of technical specifications Limited knowledge of integrating the different components of tri-generation 	Outcome 2 and Output 8.1, 8.2, 8.3 and 8.4	H	M	M	NA	M	L		↓	This is no longer a medium risk for implementing the projects. Technical specifications and design details are well developed for project technologies. So, this risk has been substantially reduced.
Limited number of manufacturers and suppliers in India	Outcome 2 and Output 8.1, 8.2, 8.3 and 8.4	M	L	M	NA	L	L		=	No change
Performance risks related to performance of energy efficient equipment post implementation arises due to: <ul style="list-style-type: none"> Quality of equipment External conditions like weather Equipment breakdown 	Outcome 2 and Output 8.1, 8.2, 8.3 and 8.4	M	L	M	NA	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"> Interest rate fluctuation Energy price (gas, electricity) fluctuation Foreign exchange risk Regulatory changes in laws relating to tax concessions, etc. 	Outcome 2 and Output 8.1, 8.2, 8.3 and 8.4	L	Not reported		NA	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	Not reported			L	L	=	No change
Risks identified in the Environmental and Social Safeguards screening									
<ul style="list-style-type: none"> Safety of Labour Ensuring timely wages to labours 	Outcome 1 & 2. Outputs 2.5, 8.1, 8.2, 8.3 and 8.4	L	NA	L	NA	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	NA	L	L	=	No change
Additional risks identified in the 2019 PIR									
<p>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 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).</p> <p>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.</p>	-NA-	NA	M	M	NA	L	H	↑	To address the issue MTR has suggested hiring an Energy Efficient Advisory with significant international experience, update with state of practices on EE market and policy/regulations. This was to supplement the capacity of the EESL team, which is more project oriented. The expert couldn't be hired due to slow management decision making as per the new risk identified (see below). The risk of low expenditure is high due to the additional risk identified below.

<p>The Overall economic slowdown could affect the uptake of energy efficiency technologies in the Market.</p>	-NA-	NA	L	M	NA	M	L		=	<p>The Covid restrictions have been lifted. There has not no serious COVID infection related episode since June 2021. All the economic activities are unrestricted. The situation in Eastern Europe has affected Indian economy too but has not had serious impact on energy prices, as a result the Indian economy has not been impact seriously.</p>
<p>Additional risks identified in the 2020 PIR</p>										
<p>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.</p>	-NA-	NA	NA	M	NA	M	L		↓	<p>As of 30 June 2022, India has administered over 1.9 billion doses overall, including first, second and precautionary (booster) doses.</p> <p>In India, 93% of the eligible population (12+) has received at least one shot, and 83% of the eligible population (12+) is fully vaccinated.</p> <p>The current COVID-19 situation in the country remains stable though there is a slight increase of cases seen in the recent months.</p>
<p>Additional risks identified in the 2022 PIR</p>										
<p>Slowing of decision making due to significant changes in Senior management and the Board.</p>	-NA-	-NA-	-NA-	-NA-	-NA-	-NA-	H			<p>Significant change at the top-level management were affected by the Government in September 2021. A number of senior officers too resigned following the changes in top management. The organization since has been headed by interim CEO and process of selection of new CEO, which was to be completed by December 2021, has still not been completed. This has slowed down the decision-making processes and adversely affected the work of the project.</p> <p><i>The restructuring of the Board due to changes in the ownership among key corporation that constituted the EESL. The change in the Board has affected the approach to investments resulting in review of the EESL business model to assess the risk to investments and recovering of outstanding dues. The focus is also on shifting from government and public sector heavy clientele to private sector clientele. This re-think has result in review of internal systems and relationship management challenges with clients and vendors. This too has affected the speed of decision making.</i></p>
<p>Consolidated project risk</p>	-NA-	NA	L	M	NA	M	H		=	<p>The increase in project risk is combination of significant changes in management, business model and the lack of sufficient experienced expertise to guide the work of the project. Addressing this requires re-think on the current institutional arrangements for the project.</p>

Table B. Outstanding medium & high risks

List here only risks from Table A above that have a risk rating of M or worse in the current PIR

Risk	Actions decided during the previous reporting instance (PIR _{t-1} , MTR, etc.)	Actions effectively undertaken this reporting period	Additional mitigation measures for the next periods		
			What	When	By whom
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	MTR considered this issue and recommended the appointment of senior Energy Advisor to guide the work of Project Management Unit.	MTR review identified need to appoint a senior advisor. A TOR for the same was developed. Due to internal approval process this TOR has not been advertised. Six Expert positions were identified to support new areas, TOR have been approved but recruitment couldn't be completed.	To develop options for alternative institutional arrangements that can enable supplementing EESL technical capacity and address the administrative process for speedier procurement of resources to undertake project activities and develop deliverables. Assess the extension required to undertake the remaining tasks based on new proposed institutional arrangements and develop a revised work plan.	by October 2022 By November 2022	NPD/PMU and TM to find solutions and effect necessary changes.
Slowing of decision making due to significant changes in Senior management and the Board.	This was identified during PIR 2022 period	Regular meetings between the TM and PMU team to do regular follow up and find solutions to speeding the processes up. The issues are institutional and related to the decisions making processes of EESL. This must be addressed at the senior management level which is beyond the influence of the GEF project IA and PMU.	Organize PSC meeting to endorse the new institutional arrangement, extension of the project and the revised work plan	By November 2022	

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.

Medium 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.

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.

- Results framework
- Components and cost
- Institutional and implementation arrangements
- Financial management
- Implementation schedule
- Executing Entity
- Executing Entity Category
- Minor project objective change
- Safeguards
- Risk analysis
- Increase of GEF project financing up to 5%
- Co-financing
- Location of project activity

Other

[\[Annex document linked to reported minor amendment\]](#)

Minor amendments	<p><i>[Provide a description of the change that occurred in the fiscal year of reporting]</i></p> <ul style="list-style-type: none"> • New Industrial / commercial EE Technologies included in the Work plan like Chillers, Waste heat recovery BLDC Ceiling fans has included for which market assessment and feasibility study support has been extended in the revised work plan. • MTR has recommended a one-year extension and the revised work plan was developed with an end date of Dec 2023. <i>However, as mentioned above, the extension is under assessment because of the risks detailed out in sections 2.3 and 3.3</i>
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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 Required field	Latitude Required field	Longitude Required field	Geo Name ID Required field <u>if</u> the location is not an exact site	Location Description Optional text field	Activity Description Optional text field
	22.00	79.00	1269750	-	-

Please provide any further geo-referenced information and map where the project interventions is taking place as appropriate. *
[\[Annex any linked geospatial file\]](#)

[Please provide any further geo-referenced information and map where the project interventions is taking place as appropriate]