



## CTF – DPSP (V-FUTURES)

**PROJECT TITLE: INDONESIA ELECTRICITY NETWORK TRANSFORMATION (I-ENET) PROGRAM**

**COUNTRY: INDONESIA**

**MDB: IBRD**

Cover Note for CTF Project/Program Approval Request <sup>[a]</sup> Dedicated Private Sector Programs (DPSP V-FUTURES)			
Country/Region	Indonesia	CIF Project ID#	Auto Generated by CCH
For Regional/Global (country classification) Please list all applicable sub-countries under Regional/Global country tagging (separated by semicolon ";")	Indonesia Electricity Network Transformation (I-ENET) Program		
Tier <sup>1</sup>	<input type="checkbox"/> Tier 1 <input type="checkbox"/> Tier 2 <input checked="" type="checkbox"/> Tier 3		
Type of CIF Investment:	<input checked="" type="checkbox"/> Public <input type="checkbox"/> Private		
Project/Program Title			
Sector/Pillar (Please select all that apply)	<input checked="" type="checkbox"/> Enabling Environment <input type="checkbox"/> Energy Efficiency <input type="checkbox"/> Energy Storage <input checked="" type="checkbox"/> Renewable Energy <input type="checkbox"/> Renewable Energy/ Energy Efficiency <input checked="" type="checkbox"/> Transport <input type="checkbox"/> Other (_____)		
Technology/Area (Please select all that apply)	<input type="checkbox"/> End Use <input type="checkbox"/> District Heating <input checked="" type="checkbox"/> Smart Grid <input type="checkbox"/> Capacity Building <input type="checkbox"/> Multiple <input type="checkbox"/> Batteries <input type="checkbox"/> Hydro <input type="checkbox"/> Green Hydrogen <input type="checkbox"/> Geothermal <input type="checkbox"/> Wind <input checked="" type="checkbox"/> Solar <input type="checkbox"/> Hydropower <input type="checkbox"/> Cookstoves <input type="checkbox"/> Waste to Energy <input type="checkbox"/> Bioenergy <input type="checkbox"/> Mixed RE <input type="checkbox"/> Green Fuels <input type="checkbox"/> Modal Shift <input type="checkbox"/> Vehicle Technologies <input type="checkbox"/> Mass Transit <input checked="" type="checkbox"/> Electric Vehicles <input type="checkbox"/> Other (_____)		
Project Lifetime (MDB Board/Management) approval to project closure) (in years)	5 years		
Is this a private sector program composed of sub-projects?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Financial Products, Terms and Amounts			
	USD (million)	EUR (million) <sup>[b]</sup>	
PPG (Project Preparation Grant)			
Grant			
MDB Project Implementation and Supervision Services (MPIS) <sup>2</sup>			
First loss guarantee			
Second loss guarantee			

<sup>1</sup> Country Tier definition as Per FY25 approved [Pricing policy](#) (page 8,9,19-25)

<sup>2</sup> MPIS - CIF Operational Modalities For New Strategic Programs [here](#)

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Equity		
Senior loan	50	
Senior loan in local currency hedged		
Senior loan in local currency unhedged ( <b>EXCEPTIONAL REQUEST</b> )		
Subordinated debt/loan/ mezzanine instrument with income participation		
Subordinated debt/loan / mezzanine instrument with income participation local currency unhedged ( <b>EXCEPTIONAL REQUEST</b> )		
Subordinated debt/loan /mezzanine instrument with convertible features		
'Convertible/contingent recovery' grant/loan/guarantee (loans convertible to grants or vice versa)		
Convertible Loans (convertible to equity only)		
For loans and guarantees – is this a revolving structure? <sup>[3]</sup> <input type="checkbox"/> Yes <input type="checkbox"/> No		
<b>Specify local currency type here</b>		
Other (please specify)		
<b>Total</b>	<b>50</b>	
<b>Co-financing</b>		
	<b>Please specify as appropriate</b>	<b>Amount (in million USD)</b>
MDB 1	IBRD	500.0
MDB 2 (if any)		
Government	PT PLN	441.0
Private Sector	RSPV Developers	342.0
Bilateral		
Others (please specify)		
<b>Total Co-financing</b>		<b>1,283</b>
<b>CIF Funding</b>		<b>50.0</b>
<b>Total Financing (Co-financing + CIF Funding)</b>		<b>1,333</b>
<b>Proportion of Total Financing for Adaptation</b>		
<b>Proportion of Total Financing for Mitigation<sup>[e]</sup></b>		<b>1,333</b>

<sup>3</sup> With a revolving structure, after the loan or guarantee matures, instead of returning the funds to the Trustee, the funds are redeployed as a new loan or guarantee.

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<b>CIF Financial Terms and Conditions Policy</b>	<a href="#">Link</a>  Is this request in accordance with the CIF Financial Terms and Conditions Policy?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (if no, please specify detailed information under the justification section)
<b>Justification (exceptional request) <sup>[c][d]</sup></b>	
<b>Implementing MDB(s) <i>(please enter full name, job title and email address)</i></b>	
MDB Headquarters-Focal Point:	<b>Frank van der Vleuten</b> <a href="mailto:fvandervleuten@worldbank.org">fvandervleuten@worldbank.org</a>
MDB Task Team Leader (TTL)	<b>Bipulendu Narayan Singh,</b> Senior Energy Specialist, <a href="mailto:bsingh2@worldbank.org">bsingh2@worldbank.org</a> <b>Maria Ayuso Olmedo,</b> Senior Energy Specialist <a href="mailto:mayusoolmedo@worldbank.org">mayusoolmedo@worldbank.org</a>
<b>National Implementing Agency <i>(please enter full name, job title and email address)</i></b>	
Country Focal Point/s	<b>Sinthya Roesly</b> Director of Finance <a href="mailto:pln.offshorefunding@pln.co.id">pln.offshorefunding@pln.co.id</a>
<b>Brief Description of Project/Program (including objectives and expected outcomes) <sup>[c][d]</sup></b>	

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**The PDO is** to increase the delivery and reliability of electricity supply and integrate distributed energy resources in the Java-Madura-Bali region.

The proposed World Bank I-ENET Program for Results operation will support the implementation of Indonesia's vertically integrated electricity utility, PT Perusahaan Listrik Negara's (PLN's) smart grid, and distributed energy resource (DER) program. CTF will enable PLN to lower the costs of integrating Rooftop Solar PV (RSPV) in the power system and facilitate the achievement of Indonesia's ambitious renewable energy targets. Likewise, CTF funds will help lower the cost of developing Electrical Vehicle Charging Stations (EVCS) and enable electrical vehicles (EVs) to be cost competitive with internal combustion engine vehicles. This will have a transformative impact on the deployment of RSPV and EVCS in Indonesia. A capacity building and training program will be supported for PLN staff on network digitalization, DERs, gender, just transition and other associated power sector topics.

The proposed operation will also enable PLN to undertake transformative investments in its electricity distribution grid that are required for facilitating two-way flow of electricity and information from customers. These investments will support the digital transformation electricity networks and support the integration of millions of customer-owned RSPV systems, EVs, and intelligent household devices.

**Timeline.** The Program is expected to be implemented during the 2025 to 2030 period. The expected disbursement schedule of CTF funds is as follows:

WB Fiscal Year	2025	2026	2027	2028	2029	2030
Annual	3.3	3.5	10.1	10.6	11.1	11.4
Cumulative	3.3	6.8	16.9	27.5	38.6	50.0

**Value for money.** CTF funding is expected to leverage US\$500 million of IBRD funds, US\$342 million of private sector funds, and US\$441 million of PLN/government funds. The World Bank has had a long engagement with PLN and has undertaken several operations to support PLN's RUPTL program. Through these operations, PLN has demonstrated cost-effectiveness and efficiency in program implementation, and this is expected to be maintained under the proposed I-ENET Program. PLN has established a specialized subsidiary – ICON Plus – to develop its RSPV and EVCS Programs. ICON Plus has demonstrated adequate capacity for providing oversight of RSPV and EVCS investments under the Program and ensuring good value for money from the investments. The economic rate of return of the I-ENET Program is 31.5% (NPV \$12.5 billion) after the inclusion of local and global externalities and 26.5%(NPV \$5.8 billion) without the inclusion of these externalities.

**Climate outcomes.** GHG accounting of the project indicates that under the base case scenario where Indonesia transitions to net zero emissions by 2060 as per government aspirations, the Program is indirectly associated with the reduction in emissions of 310 MtCO<sub>2</sub>eq while it directly contributes to reduction of 7.9 MtCO<sub>2</sub>eq through RSPV systems over the life of the Program. The reduction in GHG emissions is due to the displacement of diesel self-generation and fossil fuel generation and reduction in technical losses in the distribution grid from

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implementation of the Program. The marginal abatement costs of emissions under the Program is estimated to be -18.7 indicating good value for money in terms of achieving emission reduction.

**GHG Emission Reduction and Energy Saving Methodology.** The emission reductions and energy savings were calculated using standard World Bank methodology whereby emissions under the “With Program” scenario are compared with emissions under the “Without Program” scenario. Under the “without Program” the power system in the Java Madura and Bali system in Indonesia is forecast to maintain the current mix of generation whereas under the “with Program” scenario, the power system is forecast to transition to net zero emissions by 2050 as per the government’s JETP commitments. Energy savings are determined based on reduction in energy losses from 8% to 7.2% because of Program investment to rehabilitate and modernize the distribution network.

**Additionality of CIF Funds.** RSPV system face a difficult environment in Indonesia because of the current excess fossil fuel generation capacity in Indonesia’s Java-Madura- Bali system. As a result, although RSPV systems have high rates of economic rate of return, PLN has been slow to integrate RSPV systems in its network because of the adverse financial impacts of these systems on PLN. Despite significant technical and economic potential estimated at 75GW, there has so far been limited uptake of only 94 MW of distributed solar in the Java, Madura, and Bali system as of September 2023. CTF funding will help mitigate adverse financial impacts of RSPV integration on PLN and enable it to increase the deployment of RSPV systems with private investment in Program areas.

**Transformational change.** The proposed I-ENET Program is consistent with Government of Indonesia’s efforts to drive accelerated transformational change to enable progress toward net-zero emissions and adaptive, climate-resilient development pathways, in a just and socially inclusive manner. The Program demonstrates potential for transformational across the key dimensions of relevance, systemic change, speed, scale and adaptive sustainability in the following manner:

- *Relevance.* The Just Energy Transition Partnership (JETP) for Indonesia aims to support Indonesia’s accelerated and socially just energy transition, by deploying an initial \$20 billion of public and private financing over the next three-to-five years. The announced targets under JETP bring forward some of the government’s existing climate and energy sector targets. The final JETP Comprehensive Investment and Policy Plan (JETP CIPP), released in November 2023, sets out the following targets: 1) total on-grid power sector emissions peaking by 2030 with an emission target of no more than 250 MT CO<sub>2</sub> in 2030; 2) renewable energy generation share of 44% by 2030; and 3) achievement of net zero emissions in the power sector by 2050. The CIPP is built around five investment priority areas: 1) expansion of transmission lines and grid deployment; 2) early coal-fired power plant retirement and managed coal phase-out; 3) dispatchable renewable power deployment acceleration; 4) variable renewable energy power deployment acceleration; and 5) renewable energy value chain enhancement. The proposed I-ENET Program is consistent with investment priority areas 1, 3, and 4 of the JETP CIPP.
- *Systemic change.* The I-ENET Program will support systemic changes in energy and social systems to enable PLN and the government to transition to a net-zero pathway in a just and social inclusive manner. The Program directly aligns with Indonesia’s Nationally Determined Contribution (NDC) targets to achieve 34% renewable energy in the power generation mix by 2030 and net zero emissions

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by 2060 or earlier. Its focus on electrifying high-demand sectors (e.g., transport) and decarbonizing electricity generation positions it as a critical pillar in Indonesia's JET-P commitments. Deployment of advanced grid technologies (e.g., SCADA, ADMS, and AMI) under the Program will ensure efficient operation and management of distributed energy resources (DERs), enabling greater renewable energy penetration while maintaining reliability. By integrating DERs such as RSPV and EVCS, the program will decentralize energy systems, empowering communities and reducing dependence on centralized fossil-fuel-based power plants. Capacity-building initiatives will incorporate gender-sensitive approaches to address barriers faced by women in accessing clean energy technologies.

- *Speed.* The Program balances investments in urgent upgrades (e.g., expanding network capacity, deploying DERs) with those requiring long-term capacity building (e.g., smart grid technologies, workforce training). Urgency is addressed by focusing on immediate capacity expansion, while complexity is managed through gradual deployment of advanced systems and DER integration. Comprehensive training for PLN staff on clean energy technologies ensures that technical and operational teams are equipped to manage advanced grid technologies and DERs. Emphasis on gender inclusion and workforce diversity addresses social complexity, ensuring that the transition benefits all stakeholders equitably.
- *Scale.* The I-ENET Program provides a strong foundation for transition to net zero emissions, which will need to be scaled up by PLN and the government to achieve the country's climate targets and net zero aspirations. The program's goal of integrating 300 MW of RSPV capacity will be an important achievement, but achieving net zero emissions will require scaling this target significantly—to several gigawatts (GW) across residential, commercial, and industrial sectors. The planned 16,150 EVCS installations will need grow to meet Indonesia's target of 100% electric vehicle sales by 2040. Deployment will have to expand to rural areas and public spaces to ensure comprehensive coverage. Likewise, the phased rollout of SCADA and ADMS will need cover all regions in Indonesia, to enable dynamic management of an increasingly decentralized energy system.
- *Adaptive sustainability.* The Program will build significant capacity for adaptive sustainability by strengthening the ability of people and institutions to respond flexibly and effectively to changing circumstances, such as technological advancements, climate challenges, and societal need. The program incorporates climate-resilient design standards for electricity distribution systems, which will ensuring that PLN's distribution network infrastructure will be able to cope with extreme weather events like storms, floods, and heatwaves. The Program includes training for PLN staff on clean energy technologies, grid modernization, and climate resilience, ensuring a workforce capable of responding to evolving challenges.

Please refer to the attached Program Document of the I-ENET Program for additional information.

**Consistency with CTF investment criteria (please refer to design document)<sup>4[c][d]</sup>**

<sup>4</sup> Link to Future Window Design Document [here](#)

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The proposed I-ENET Program will support deployment of 300MW of Rooftop Solar PV systems and 16,050 Electric Vehicle Charging Systems alongside investments to support the digital transformation of the grid through investments in smart meters, advanced distribution management systems and Distributed Energy Resource Management Systems. It will help establish enabling conditions for a just energy transition in Indonesia by supporting the development of distributed solar systems in local communities to facilitate access to clean energy; preparing a Distributed Energy Resource map for Indonesia consistent with just energy transition principles and providing training to PLN staff on just energy transition approaches and mechanisms. The proposed focus of the I-ENET Program on distributed renewable energy, electric mobility and just energy transition is hence consistent with investment criteria of the CTF Futures Window Program.

#### **Additional CTF investment criteria for private sector projects/ programs**

a. Financial sustainability	NA - This is a public sector project
b. Effective utilization of concessional finance (including a detailed analysis on how the proposal meets the minimum concessionality principles, and on how it is aligned with the blended concessional finance principles)	NA - This is a public sector project
c. Mitigation of market distortions	NA - This is a public sector project
d. Risks	NA – This is a public sector project

#### **For DPSP projects/programs in non-CTF countries, explain consistency with FIP, PPCR, or SREP Investment Criteria and/or national energy policy and strategy <sup>[c][d]</sup>**

**Indonesia is a CIF eligible country.**

#### **Social Inclusion and Stakeholder Engagement <sup>[c][d]</sup>**

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PLN has considerable experience in executing IBRD lending operations, with demonstrated capacity for advancing social inclusion and stakeholder engagement. PLN has prepared an Environmental and Social Management System (ESMS) Manual and E&S Management Guidelines (MG) that are aligned with World Bank Core Principles. PLN will use the ESMS to manage and advance social inclusion and stakeholder engagement under the proposed I-ENET Program.

The World Bank team carried out consultations with a wide range of stakeholders, including RSPV and EVCS vendors, during I-ENET program preparation. These consultations are expected to continue during Program implementation. Key activities to be undertaken by PLN that will advance social inclusion and stakeholder engagement include: (i) development and dissemination of guidance on construction, labor and waste management for RSPV, including damaged panels and batteries (ii) consultations on the development of Standard Operating Procedures (SOPs) for installation of RSPV; and (c) development and dissemination of guidelines or Environmental and Social Code of Practices (ESCOP) to guide construction, installation, and operation of EVCS.

Please refer to the attached Program Document of the I-ENET Program for additional information.

#### **Gender Considerations** <sup>[c][d]</sup>

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<p><b>Gender Analysis</b> (Please insert the text from the project document on the analysis of gaps in access to services, markets, and jobs by women in relation to the project sectors)</p>	<p>Indonesia continues to face gender gaps in income, health, and labor force participation:</p> <ul style="list-style-type: none"> <li>Indonesia's gender wage gap is at 23 percent, higher than the global average of 16 percent. This income disparity often affects female-headed households (FHHs), which makes them less likely to own assets than male-headed households and are more vulnerable to poverty due to lower incomes. Given their limited financial resources, many FHHs may struggle to afford utilities and other essential services, such as access to electricity.</li> <li>Women's labor force participation is low compared to men. While there is no gap in educational achievement between women and men in Indonesia, women's labor force participation was 53 percent in 2022 compared to 83 percent for men. In 2019, women represented only 12 percent of science, technology, engineering, and mathematics (STEM) graduates, and in the high-tech sector, only 14 percent of women employed held professional or technical positions compared to 31 percent of men.</li> <li>Women face unfavorable health outcomes. Despite rapid gains in health outcomes over the past years, Indonesia continues to face gaps related to maternal mortality, sexual and reproductive health, and access to public health services. Despite rapid reductions in recent years, mother mortality rates (MMRs) in Indonesia, remained high at 189 per 100,000 live births in 2020. Among rural households that use firewood for cooking, women are more exposed to indoor air pollution, as they are responsible for household chores and firewood collection. Rural women dedicate 25 percent of their time to firewood collection and represent the majority of the 165,000 premature deaths caused by indoor pollution. It has also been known that rural women have</li> </ul>
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	<p>lower access to health services due to lack of transportation and poor health infrastructure and tend to have less access to drinking water and sanitation.</p>
<p><b>Gender Activities</b> (Please insert the text describing gender-specific activities included in the project)</p>	<p>The Program's interventions will support efforts to close the gender gap in Indonesia on two fronts.</p> <ul style="list-style-type: none"> <li>Increased delivery and reliability of affordable electricity supply will minimize air pollution and fire risk, and support increased economic activity of female-owned medium and small enterprises. This Program will also address the non-income dimensions of poverty, such as time poverty, irregular water supply, and suboptimal functioning of public health facilities by increasing reliable access to electricity supply. The World Bank will work with PLN to implement awareness and capacity building program to ensure that women and women led businesses and households will have access to new renewable energy options.</li> <li>The Program will provide increased training opportunities to female PLN staff in new technologies, encompassing RE, storage, BESS, demand response programs, and regional interconnection, among others, and track this action using the DLR 6.2: capacity of PLN staff strengthened:</li> </ul>
<p><b>Gender Indicators</b> (Please insert the text on selected gender specific indicators, including annual targets. from the Project Log Frame that the project is committing to report on)</p>	<ul style="list-style-type: none"> <li>Share of Female Headed Households provided with new or improved electricity services.</li> <li>Number of female PLN staff trained to achieve improved understanding of new technologies.</li> </ul> <p>Furthermore, the team will discuss with the implementing agency inclusion of indicators i) to measure the outcomes of training on women's improved employment in the energy utility and (ii) number of additional passengers per day using low-carbon transport (by gender).</p>

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Just Transition <sup>[c][d]</sup>	
Just Transition Analysis	<p>Indonesia is committed to a just transition, having signed the 2018 Silesia Declaration and integrated the principles into its Updated Nationally Determined Contributions (NDC) 2021 and the 2050 Long Term Strategy: Low Carbon &amp; Climate Resilience (LTS-LCCR). These frameworks outline just transition as a cross-sectoral priority, emphasizing mitigation and adaptation in various sectors. However, implementation is predominantly focused on the energy sector.</p> <p>Many governmental and nongovernmental organizations, as well as the private sector, have been prompted by Indonesia's G20 presidency to launch new initiatives and align their strategic actions and programs with the transition agenda. Indonesia's just transition has gradually moved away from securing international commitments toward the design and planning the transition, which includes establishing the enabling conditions.</p> <p>The actual transition in the energy sector itself has not yet taken place, although it is projected to happen in the coming years. Just transition is still primarily a national level discussion and planning issue. Although there is a growing understanding of just transition at the sub-national level (provincial and district), planning for a transition (e.g., identification of alternative revenue for local government, new economic activities for nearby communities and workers who may be affected, potential programs to support affected communities and workers during the transition process, etc.) is still very limited, and the urgency for a transition is still difficult to discern</p> <p>It is essential that government agencies prepare concrete action plans and roadmaps to support the implementation and monitoring of actions that will enhance just energy transition in Indonesia.</p>

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<b>Just Transition Activities</b>	<p>The proposed Program supports the following just transition activities:</p> <ul style="list-style-type: none"> <li>(i) distributed solar systems in local communities to facilitate access to clean energy;</li> <li>(ii) preparation of Distributed Energy Resource map for Indonesia which incorporates just energy transition principles; and</li> <li>(iii) training for PLN staff on just energy transition topics.</li> </ul>
<b>Just Transition Indicators</b>	<ul style="list-style-type: none"> <li>• Number of MWs of RSPV system installed in local communities to provide access to clean energy</li> <li>• Adoption of Distributed Energy Resource roadmap by PLN that incorporate mechanisms for (i) using DER investments to mitigate adverse economic and social impacts of energy transition on local communities and (ii) tracking and monitoring the implementation of just energy transition activities</li> <li>• Number of PLN Staff trained on just energy transition</li> </ul>
<b>For projects/programs with activities in countries assessed as being at moderate or high risk of debt distress, macro-economic analysis to evaluate the potential for the CTF project or program to impact the country's debt sustainability</b> <sup>[c][d]</sup>	
NA	
<b>For public sector projects/programs, analysis of how the project/program facilitates private sector investment</b> <sup>[c][d]</sup>	

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PLN has adopted a conservative stance on the development of RSPV due to the current generation overcapacity in the Java, Madura and Bali system and the adverse impact that unfettered development of RSPV would have on its financial viability. However, PLN recognizes the importance of RSPV in meeting the demand for green electricity from its customers and achieving the government's policy targets. It also sees an important role for RSPV in meeting the country's decarbonization and net zero targets. CTF funding would help mitigate the adverse financial impacts of deployment of RSPV systems on PLN and enable it support and integrate RSPV systems developed by the private sector. CTF funding for the I-ENET Program would hence be helpful in unlocking private investments RSPV and EVCS. It is expected that the Program will mobilize an estimated US\$342 million of private capital including US\$330 million for RSPV and US\$12 million for EVCS.

Please refer to the attached Program Document of the I-ENET Program for additional information.

## Expected Results (M&R)

### Project/Program Timeline

Expected MDB Board Approval date <sup>[d]</sup>	28 March 2025
Expected project closure date <sup>[d]</sup>	30 June 2030
Expected lifetime of project results in years (for estimating lifetime targets)	25 years

### CTF Core Indicators

### Project-Defined Indicators/Targets

Please identify which of the indicators below are relevant to the project proposal, list the corresponding project-defined indicator(s), and report all targets, including disaggregated targets.  
(See the [CTF Monitoring and Reporting Toolkit](#) for additional guidance.)

<b>CTF 1:</b> GHG emissions reduced or avoided (mt CO <sub>2</sub> eq)	
<i>Annual</i>	0.318
<i>Cumulative Lifetime</i>	7.95
<b>CTF 2:</b> Volume of direct finance leveraged through CTF funding (\$)	<i>Indicator calculated from the co-financing section below</i>
<b>CTF 3:</b> Installed capacity of RE as a result of CTF interventions (MW)	
<i>Wind</i>	
<i>Solar</i>	300
<i>Hydro</i>	
<i>Geothermal</i>	
<i>Other/Mixed</i>	
<i>TOTAL</i>	
<b>CTF 4:</b> Number of additional passengers per day using low-carbon transport	
<i>Female</i>	
<i>Male</i>	

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<i>TOTAL</i>	
<b>CTF 5:</b> Energy savings as a result of CTF interventions (GWh)	
<i>Annual</i>	9,297
<i>Cumulative Lifetime</i>	264,826
<b><i>Please also submit the full project results framework to the CIF Secretariat upon MDB Board approval of the project.</i></b>	
<b>CTF Co-Benefit Indicators</b>	<b>Project-Defined Indicators/Targets</b>
<i>Please identify one or more expected co-benefit indicators—i.e., other social, economic, environmental benefits beyond the CTF core indicators—that the project will track and report.</i>	

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**CTF Co-Benefit** (e.g., Gender, employment, energy access, social inclusion, health and safety, fuel savings, competitiveness and industrial development, SDGs):

The following CTF core indicators and indicators relating gender and energy access will be tracked under the Program.

Increased access to improved electricity supply						
People provided with new or improved electricity service (Number)						
Dec/2023	Dec/2024	Dec/2025	Dec/2026	Dec/2027	Dec/2028	Dec/2029
0	0	0	2500000	5000000	10000000	20000000
➤ People provided with new or improved electricity service - Female (Number)						
0	0	0	1250000	2500000	5000000	10000000
Increased integration of distributed energy resources						
Increased integration of Rooftop Solar PV capacity (Megawatt) <sup>DLI</sup>						
Dec/2023	Dec/2024	Dec/2025	Dec/2026	Dec/2027	Dec/2028	Dec/2029
0	20	41	101	165	232	300
Reduced electricity distribution losses (Percentage)						
Dec/2023	Dec/2024	Dec/2025	Dec/2026	Dec/2027	Dec/2028	Dec/2029
100	100	98	96	94	92	90
➤ Distributed Energy Resources roadmap adopted (Yes/No)						
No	No	No	No	No	Yes	Yes
Increased integration of EV charging stations (Number) <sup>DLI</sup>						
Dec/2023	Dec/2024	Dec/2025	Dec/2026	Dec/2027	Dec/2028	Dec/2029
0	2525	5050	7800	10550	13300	16050
Share of PLN staff trained who are female (Percentage)						
Dec/2023	Dec/2024	Dec/2025	Dec/2026	Dec/2027	Dec/2028	Dec/2029
23	23	23	23.5	24.0	24.5	25
Private capital mobilized for integration of Rooftop Solar PV and Electrical Vehicle Charging Station (Number (Thousand))						
Dec/2023	Dec/2024	Dec/2025	Dec/2026	Dec/2027	Dec/2028	Dec/2029
0	23000	46000	114000	184000	259000	335000
Projected lifetime net greenhouse gas (GHG) emissions from results achieved (CO2 equivalent) (Metric ton)						
Dec/2023	Dec/2024	Dec/2025	Dec/2026	Dec/2027	Dec/2028	Dec/2029

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		0	NA	NA	NA	NA	NA	66940 82	
<b>Expected Date of MDB Approval</b>									
28 March 2025 <sup>5</sup> .									

**Version: October 2024**

Link to Documents Management – [here](#)

CCH – [here](#)

CIF Website – [here](#)

CIF Pipeline Management and Cancellation Policy - [here](#)

CIF Financial Terms and Conditions Policy updated for FY24 - [here](#)

CIF Operational Modalities For New Strategic Programs - [here](#)

CTF (DPSP V-FUTURES) Futures Window Design Document [here](#)

CTF M&R Toolkit – [here](#)

FY25 Pricing Policy - [here](#)

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<sup>5</sup> Given that the I-ENET Program is already at negotiations stage and client is well advanced in its internal approval process, the CTF funding for I-ENET Program, upon TCF approval, may be processed as an additional financing to avoid delaying effectiveness of the I-ENET Program. Under such a scenario, the approval of the additional financing is expected to take place 3 to 6 months after the approval of the original Program.

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