

ENERGY SECTOR MANAGEMENT
ASSISTANCE PROGRAM

ANNUAL REPORT 2022

ANNEXES



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ANNEX A**RESULTS AND TARGETS ACHIEVED,
FOR BUSINESS PLAN FY2022–24**

Detailed progress descriptions are provided at: <https://esmap.org/activities?type=businessPlanFramework>

Acronyms

ASA	Advisory Services and Analytics
EAPP	East African Power Pool
GHG	Greenhouse Gases
MTF	Multi-Tier Framework
PV	Photovoltaics (solar)
RE	Renewable Energy
RBF	Results-Based Financing
SAPP	South African Power Pool
WAPP	West African Power Pool

Regions

AFR	Africa
EAP	East Asia and Pacific
ECA	Europe and Central Asia
LCR	Latin America and the Caribbean
MNA	Middle East and North Africa
SAR	South Asia Region

FOUNDATIONS FOR ENERGY TRANSITION

OUTCOME 1: Improved Affordability of Power		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Outcome Indicator 1.1	Reduction in average cost of power supplied	Not yet due (ongoing)	Not yet due (ongoing)	70% of ESMAP supported countries
OUTCOME 2: Improved Financial Viability of Power Sector		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Outcome Indicator 2.1	RISE score on utility creditworthiness reaches the green threshold in all ESMAP supported countries	37%	30%	100% ¹

¹ The target was updated to the percentage rather than the score for the green threshold, for consistency with the description of the indicator "RISE score on utility creditworthiness reaches the green threshold in all ESMAP supported countries."

OUTCOME 3: Electricity Sector Carbon Intensity Reduced		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Outcome Indicator 3.1	Carbon per unit of power generated	IEA reports emissions data every two years but with a 3-year lag. The IFI database for 2021 includes 2018 data and it is expected that data for 2023 will be available in the database revision of 2025. ESMAP will report on the latest data available each year and at the end of its business plan.	Not yet due (ongoing)	700 tCO ₂ /kWh
OUTCOME 4: Fiscal Burden of Power Sector Reduced		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Outcome Indicator 4.1	Reduction in fiscal transfers to the power sector in the countries receiving ESMAP support during business plan	\$3.2 billion	3.2	Reduced by \$2 billion
OUTCOME 5: Improved Quality of Electricity Service		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Outcome Indicator 5.1	Improvement in Doing Business score on Reliability of Supply and transparency of tariff [index 0-8]	Not applicable	Not yet due (ongoing)	1% improvement against baseline 2.3 in 2020
OUTCOME 6: Increased Share of Female Employees, Leaders, Entrepreneurs and Consumers in the Energy Sector		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Outcome Indicator 6.1	Increased share of female employees in energy sector World Bank projects	12%	Not yet due (ongoing)	5% improvement over baseline for each supported project

Outcome Indicator 6.2	Increased share of women entrepreneurs in energy sector World Bank projects	Not yet due (ongoing)	Not yet due (ongoing)	10% improvement over baseline for each supported project
Outcome Indicator 6.3	Increased productivity of female farmers and business owners supported by World Bank energy projects	Not yet due (ongoing)	Not yet due (ongoing)	10% improvement over baseline for each supported project
INTERMEDIATE OUTCOME 1: Power system has capacity, flexibility, financial strength to deliver energy transition		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Intermediate Outcome Indicator 1.1	Volume of World Bank lending that contributes to the achievement of the Outcomes through identified aspects	\$4.2 billion	8.2	\$50 billion
Intermediate Outcome Indicator 1.2	Number of utilities that have implemented process changes consistent with new business models and technologies	1	1	30
Intermediate Outcome Indicator 1.3	Number of regulators that take account of technology disruptions in regulations issued	1	1	30
Intermediate Outcome Indicator 1.4	Number of countries with implementation roadmaps developed for Just Transition	1	1	2
Intermediate Outcome Indicator 1.5	Percentage of ESMAP-supported countries adopting improved policy and regulation for sustainable energy	4%	12%	100%
Intermediate Outcome Indicator 1.6	Increased power trade (between countries)	Not yet due (ongoing)	Not yet due (ongoing)	168 TWh
Intermediate Outcome Indicator 1.7	Number of countries with new markets for energy services	12	13	10
Intermediate Outcome Indicator 1.8	Countries inter-connected and trading	Not yet due (ongoing)	Not yet due (ongoing)	54

Intermediate Outcome Indicator 1.9	Number of countries with official plans to reform energy subsidies (incl. reforming social protection, incorporating energy efficiency measures, and implementing communication campaigns as part of subsidy reform efforts)	5	12	20
Intermediate Outcome Indicator 1.10	Number of countries that have strengthened their social protection systems to ensure the poor are not worse off due to energy subsidy reforms	2	5	10
Intermediate Outcome Indicator 1.11	Coal capacity reduced through coal plant retirement/repurposing	Not yet due (ongoing)	Not yet due (ongoing)	5 GW
Intermediate Outcome Indicator 1.12	Private co-financing mobilized	Not yet due (ongoing)	\$47 million	\$5 billion

INTERMEDIATE OUTCOME 2:**World Bank has expanded support to promoting gender equality in the energy sector****PROGRESS
FY2022****CUMULATIVE****PROGRESS
FY2021-24****TARGET
FY2024**

Intermediate Outcome Indicator 2.1	% of World Bank projects supported by ESMAP to meet Gender Tag to close gaps between women and men (in access, entrepreneurship, and employment)	93%	92%	70%
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INTERMEDIATE OUTCOME 3:**Countries have supported employment opportunities for women in the energy sector****PROGRESS
FY2022****CUMULATIVE****PROGRESS
FY2021-24****TARGET
FY2024**

Intermediate Outcome Indicator 3.1	Number of additional countries that have adopted policies or plans to enhance women's employment at the utility level [across recruitment, retention and promotion with a focus on equal pay, training, childcare, etc.]	5	6	15
Intermediate Outcome Indicator 3.2	Number of additional countries supported by World Bank Development Policy Financing that integrate a focus on closing gender gaps in their energy strategies/policies	Not yet due (ongoing)	1	7
Intermediate Outcome Indicator 3.3	ESMAP-supported decarbonization projects that include a significant women's leadership and employment component/pilot	Not yet due (ongoing)	3	8

Intermediate Outcome Indicator 3.4	Number of countries where there is a World Bank Group engagement in supporting development of roadmaps including maximizing socioeconomic benefits derived from GHG development with a focus on women's employment and skills development	6	11	20
INTERMEDIATE OUTCOME 4: Countries have supported women's entrepreneurship in the energy sector and productive uses of energy		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Intermediate Outcome Indicator 4.1	Percentage of IDA off-grid electrification operations tackling women's entrepreneurship, and access to finance gaps (Electricity Access program)	100%	100%	100%
Intermediate Outcome Indicator 4.2	Strategies adopted at the country level on closing productivity gaps between male and female farmers and business owners (Electricity Access program)	Not yet due (ongoing)	Not yet due (ongoing)	10
Intermediate Outcome Indicator 4.3	Percentage of Clean Cooking Fund supported projects that have proactive actions to promote female employment/entrepreneurship and gender co-benefits	100%	2	100%
Intermediate Outcome Indicator 4.4	Number of new decarbonization projects with enhanced focus on productivity gaps and livelihoods for women	1	5	8
INTERMEDIATE OUTCOME 5: Countries have adopted strategies to support women in host and marginalized communities as consumers in the energy sector		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Intermediate Outcome Indicator 5.1	Countries supported by ESMAP that have integrated electrification of displaced people, host, and marginalized communities in electrification programs, with a focus on the needs of women and girls	1	1	15
OUTPUTS: Utilities for Energy Transition		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Output 1	Flagship report(s): Energy Transition: business and regulatory models in developing countries	Not yet due (ongoing)	Not yet due (ongoing)	1

Output 2	Training/Events: Digital Academy, to identify and transfer emerging global knowledge, best practice, and deliver training in 5 key areas	Not yet due (ongoing)	Not yet due (ongoing)	1
Output 3	Tools: Standard documentation for procurement of new technologies (including DER, digital solutions)	Not yet due (ongoing)	Not yet due (ongoing)	1
Output 4	Country/Regional Grants: Policy/regulatory studies, advice, and capacity building; technical studies, advice, and capacity building; stakeholder engagement; innovative project development and budget support design.	8	9	15
OUTPUTS: Markets, Connectivity, and Trade		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Output 1	Flagship report(s): (1) Design of next generation commercial agreements and market tools; (2) Increasing system flexibility via efficient ancillary service markets	2	2	2
Output 2	Analyses: Analytical studies on regional power trade	2	3	2
Output 3	Tools: Best practices on wholesale markets, technical and regulatory harmonization for regional power pools	2	3	2
Output 4	Training/Events: Knowledge exchange, workshops, trainings on Market deployment, and Power System Planning	5	6	2
Output 5	Country/Regional Grants: Assessments/studies/technical reports; Strategy analyses and investment plans; Surveys/datasets; Workshops/conferences	15	27	30
OUTPUTS: Energy Subsidy Reform		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Output 1	Flagship report(s): Reforming energy subsidies: Achievements, Setbacks, Lessons Learned, and Way Forward	Not yet due (ongoing)	Not yet due (ongoing)	1

Output 2	Training/Events: Internal and external knowledge exchange fora every year	9	19	4
Output 3	Country/Regional Grants: Subsidies assessments, energy reform design, energy reform implementation, stakeholder engagement	60	115	165
OUTPUTS: Closing Gender Gaps		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Output 1	Flagship report(s): (1) Gender and Hydropower; (2) Environmental and social (incl. Gender) considerations in offshore floating solar development	Not yet due (ongoing)	Not yet due (ongoing)	2
Output 2	Analyses: (1) 20 MTF country reports (covering gender gaps); (2) 2 MTF Insight reports: gender & impact evaluation; (3) 4 Annual Gender and Access reports	1	1	3
Output 3	Training/Events: (1) Women's leadership in Decarbonization of Public Sector and End Uses in developing countries; (2) Innovative technology, business, and financing approaches in Clean Cooking: Women's and Men's Preferences and Needs	1	1	2
Output 4	Country/Regional Grants: Regional gender and energy programs, operational support	1	7	15
OUTPUTS: Support to Coal Regions in Transition		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Output 1	Platforms: Regional Collaboration Platforms for Coal Regions in Transition (2-3)	Not yet due (ongoing)	1	2
Output 2	Training/Events: Coal Regions in Transition Learning Academy (2 deliveries annually)	2	2	8
Output 3	Analyses: Coal plant decommissioning/repurposing studies for 15-20 plants	1	2	2
Output 4	Country/Regional Grants: Upstream technical studies, strategies, and roadmaps	Not yet due (ongoing)	2	8

OUTPUT: Deliverables funded with Annual Block Grants		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Output 1	Technical Reports, Studies, Assessments	98	177	300

ENERGY DATA AND ANALYTICS

OUTCOME 1: Government Counterparts Use the Generated Evidence in Policy Decisions		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Outcome Indicator 1.1	World Bank energy lending operations informed by using the Energy Data & Analytics datasets, applications, and knowledge reports (incl. using energy data to close gender gap in energy services)	31%	36%	100%
Outcome Indicator 1.2	New World Bank ASA projects supported by ESMAP confirm and illustrate the use of Energy Data & Analytics datasets, applications, and knowledge reports	100%	100%	100%
Outcome Indicator 1.3	Evidence of uses of Energy Data & Analytics outputs in well-established global initiatives (publications, indexes, research series, white papers from global institution incl. World Economic Forum, UN, IRENA, IEA)	3	8	10
OUTPUTS:		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Output 1	Publication of the Tracking SDG7 Report	1	2	4
Output 2	Publication of RISE analytical platform website	0	1	2
Output 3	Publication of MTF Country Report (focus on gender gaps in each report)	3	3	20
Output 4	Publication of MTF insight on gender and impact evaluation	2	2	2
Output 5	Refugees Data Report Publication	Not yet due (ongoing)	Not yet due (ongoing)	1

Output 6	Knowledge products (incl. RBF data platform) on clean cooking	Not yet due (ongoing)	2	10
Output 7	Regulatory benchmarking index portal	Not yet due (ongoing)	1	2
Output 8	Launching of Global Electrification Platform 2.0	1	1	1
Output 9	Capacity building workshop for GEP	Not yet due (ongoing)	Not yet due (ongoing)	4
Output 10	Residential customer demand estimation report including algorithm and input data by country	Not yet due (ongoing)	Not yet due (ongoing)	20
Output 11	Agriculture energy demand estimation report, including algorithm and input data by country	1	2	20
Output 12	Dissemination of demand assessment toolkit (survey instrument and open-source algorithm)	1	2	1
Output 13	Adding new institutional partners on EnergyData platform that would publish at least 1 dataset each	4	8	12-15
Output 14	Publish analytical pieces on EnergyData platform	3	9	15-20
Output 15	Present Energy Data and Analytics Hub work at World Bank Group/partner/international events and conferences	Not yet due (ongoing)	2	3-5
Output 16	Launch of updates to other existing applications (Global Solar Atlas, Global Wind Atlas, etc.)	Not yet due (ongoing)	2	3

ACCELERATING DECARBONIZATION

OUTCOME 1: Governments Adopt Policies and Plans to Accelerate Decarbonization		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Outcome Indicator 1.1	Estimated GHG emissions reduced or avoided under government policies and plans up to 2030 (lifetime million MtCO ₂ e)	Not yet due (ongoing)	Not yet due (ongoing)	1,100

OUTCOME 2: Stimulation of Public and Private Investment to Accelerate Decarbonization		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Outcome Indicator 2.1	Expected GHG emissions reductions under World Bank Group financed projects (lifetime million MtCO ₂ e)	10.24	48	360
Outcome Indicator 2.2	Number of World Bank Group financed projects that reduce or avoid GHG emissions, of which:	29	43	60
	2.2.1: Number of projects financed that target decarbonization in the public sector	10	14	22
	2.2.2: Number of projects financed that include use of innovative technologies in industry	3	5	10
	2.2.3: Number of projects financed that are "cooling informed"	14	22	20
	2.2.4: Number of projects financed that include green hydrogen	Not yet due (ongoing)	Not yet due (ongoing)	4
	2.2.5: Number of projects financed that include geothermal direct use	2	2	4
Outcome Indicator 2.3	Volume of financing mobilized for projects that support accelerated decarbonization, of which:	\$3.9 billion	\$6.4 billion	\$3.6 billion
	2.3.1: World Bank Group financing mobilized	\$3.8 billion	\$6.3 billion	\$2.5 billion
	2.3.2: Climate finance mobilized	\$1.8 million	\$26.8 million	\$300 million
	2.3.3: Private financing mobilized	\$95 million	\$95 million	\$800 million
INTERMEDIATE OUTCOME 1: World Bank Group has expanded its support to a wide range of client countries to achieve Zero Carbon Public Sector		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Intermediate Outcome Indicator 1.1	Number of countries with World Bank Group engagement on decarbonizing the public sector	Not yet due (ongoing)	20	20

INTERMEDIATE OUTCOME 2: World Bank Group has expanded its support to a wide range of client countries on access and scale up efficient, clean cooling		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Intermediate Outcome Indicator 2.1	Number of countries where there is active World Bank Group engagement on sustainable cooling	16	29	18
INTERMEDIATE OUTCOME 3: World Bank Group has expanded its support on technological innovation in industrial decarbonization		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Intermediate Outcome Indicator 3.1	Number of innovative technologies that are part of active World Bank Group engagements on industrial decarbonization	Not yet due (ongoing)	Not yet due (ongoing)	5
INTERMEDIATE OUTCOME 4: World Bank Group has expanded its support on Green Hydrogen and/or fuel cell technologies		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Intermediate Outcome Indicator 4.1	Number of countries, including green hydrogen and/or fuel cell technologies in their decarbonization strategies	4	4	8
INTERMEDIATE OUTCOME 5: World Bank Group has expanded its support to develop Geothermal Direct Use		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Intermediate Outcome Indicator 5.1	World Bank Group is supporting wide range of client countries to develop Geothermal Direct Use	2	6	6
INTERMEDIATE OUTCOME 6: Countries have supported women's entrepreneurship in the energy sector and productive uses of energy		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Intermediate Outcome Indicator 6.1	ESMAP-funded decarbonization projects that include a significant women's leadership and employment component/pilot	Not yet due (ongoing)	6	8
Intermediate Outcome Indicator 6.2	Number of projects with enhanced focus on productivity gaps and livelihoods for women	2	6	8
OUTPUT: Zero Carbon Public Sector		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Output 1	Flagship Report: Opportunities for achieving decarbonization in the public sector	Not yet due (ongoing)	Not yet due (ongoing)	1

Output 2	Flagship Report: The economics of electric mobility	1	1	1
Output 3	Country/Regional Grants: Upstream sector analysis; policy, regulation, plans and strategies; technical, economic, and financial analyses; capacity building	36	67	64
OUTPUT: Industrial Decarbonization		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Output 4	Flagship Report: Technology innovations for industrial decarbonization in developing countries	Ongoing	Ongoing	1
Output 5	Training/Events: Two dissemination workshops on results of global studies	Not yet due (ongoing)	Not yet due (ongoing)	2
Output 6	Country/Regional Grants: Technical studies and advice; implementation models; pilot projects on innovative technologies	21	25	25
OUTPUT: Efficient and Clean Cooling		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Output 7	Report: Access to energy and cooling (sustainable cold chains)	Not yet due (ongoing)	3	4
Output 8	Report: Brief(s) on innovative sustainable cooling technologies and systems	1	5	10
Output 9	Training/Events: Workshops/exchanges on efficient, clean cooling in developing countries	4	10	10
Output 10	Country/Regional Grants: Upstream sector analysis and engagements; policy and regulatory frameworks; identification and design of technical options, implementation, and financing models; economic and financial analyses; capacity building	13	15	20
OUTPUT: Geothermal Direct Use		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Output 11	Report: Global market analysis for direct use	Not yet due (ongoing)	Not yet due (ongoing)	1
Output 12	Development Plans: Two regional plans	Not yet due (ongoing)	Not yet due (ongoing)	2

Output 13	Training/Events: Two regional workshops	2	2	2
Output 14	Country/Regional Grants: Country workshops, direct use roadmaps, capacity building	0	0	6
OUTPUT: Green Hydrogen		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Output 15	Report: Green hydrogen for multi-sectoral deep decarbonization of developing countries (co-led between industrial decarbonization and green hydrogen programs)	Not yet due (ongoing)	Not yet due (ongoing)	1
Output 16	Report: Technical safety and project design framework	Not yet due (ongoing)	Not yet due (ongoing)	1
Output 17	Training/Events: Technology-focused workshops and regional exchange events	3	5	2
Output 18	Country/Regional Grants: Country strategies and roadmaps; policies, regulations, and standards; capacity building; pre-feasibility studies	4	5	12
OUTPUT: All		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Output 19	Workshop on women's leadership in decarbonization of public sector and end uses in developing countries	Not yet due (ongoing)	Not yet due (ongoing)	1

CLEAN COOKING

OUTCOME 1: Improved Access to Clean Cooking in Client Countries		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Outcome Indicator 1.1	Number of people who gained access to clean cooking resulting from policies, programs, and strategies	21.5 million	61.5 million	200 million
Outcome Indicator 1.2	Number of people who gained access to clean cooking resulting from financed projects	7.1 million	9.2 million	100 million
Outcome Indicator 1.3	Amount of investments mobilized (incl. both public and private financing)	\$77.31 million	\$107.31 million	\$2 Billion

INTERMEDIATE OUTCOME 1: Governments adopt policies and regulations to support public and private sector investment in clean cooking		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Intermediate Outcome Indicator 1.1	Number of policies and regulations adopted by governments to support clean cooking market development	5	6	30
Intermediate Outcome Indicator 1.2	Number of World Bank Group/MDBs investment projects catalyzed by the CCF	5	6	30
Intermediate Outcome Indicator 1.3	Percentage of CCF-supported projects that have proactive actions to promote female employment/entrepreneurship and gender co-benefits	100%	100%	100%
OUTPUTS		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Output 1	Strategies, policies, regulations to support clean cooking	5	13	40
Output 2	Joint activities by partners for global outreach or country-level program coordination	18	38	30
Output 3	Innovative technology, business, and financing approaches, incorporating both women's and men's preferences and needs	2	2	20
Output 4	Own-managed knowledge products (incl. RBF data platform) on clean cooking with one global flagship report every other year	7	16	10

ELECTRICITY ACCESS

OUTCOME 1: People, Farmers, Businesses, and Public Institutions with Electricity Access		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Outcome Indicator 1.1	Population with new electricity access resulting from universal access strategies, programs, and plans, with specific electricity access targets by 2030, implementation schedules and financing plans	Not yet due (ongoing)	91 million people; of which, 51 million mini grid/off-grid	500 million people, of which mini grid/off-grid: 300 million

Outcome Indicator 1.2	Households and/or micro and small enterprises and small-holder farmers with new electricity access through projects/programs funded through the World Bank, Governments, development partners and associated private sector investments (measured as targets in operations approved during the business plan period)	31.4 million	51 million people of which 14.4 million mini grid/off-grid	150 million people, of which mini grid/off-grid: 90 million
Outcome Indicator 1.3	Schools, health clinics, and other community facilities electrified through projects/programs funded through the World Bank, governments, development partners, and associated private sector investments (measured as targets in operations approved during the business plan period)	138,233 public institutions	173,232 public institutions	1 million public institutions
Outcome Indicator 1.4	Electricity access financing mobilized (through IDA, IBRD, climate finance, and associated government, development partner programs and private sector investments)	\$4.7 billion	\$9.6 billion, of which \$1.5 billion represents progress for FY2021	\$30 billion, of which \$10 billion private sector

INTERMEDIATE OUTCOME 1:**Countries with supportive enabling environment for an inclusive and impactful electrification****PROGRESS
FY2022****CUMULATIVE
PROGRESS
FY2021-24****TARGET
FY2024**

Intermediate Outcome Indicator 1.1	Number of countries supported by ESMAP (technical assistance and operational support for pipeline development and implementation) with electricity access deficit, which officially adopted integrated electrification strategies/least cost plans, combining grid, mini grid, and off-grid technologies, with universal access targets, implementation schedule and modalities and financing plans	3	8	50
Intermediate Outcome Indicator 1.2	Countries that have integrated productive use interventions in electrification projects/programs and/or built synergies across energy access and agriculture interventions to support small-holder farmers	Not yet due (ongoing)	3	20

Intermediate Outcome Indicator 1.3	Countries that have adopted and launched implementation of a scalable and sustainable model for electrification of public institutions, supported by ESMAP	Not yet due (ongoing)	12	20
Intermediate Outcome Indicator 1.4	Countries that have adopted integrating electrification of displaced people, host, and other marginalized communities in electrification programs, with a focus on the needs of women and girls	Not yet due (ongoing)	Not yet due (ongoing)	15
Intermediate Outcome Indicator 1.5	Countries that have adopted pro-poor energy access subsidy and delivery model approaches	4	6	20
Intermediate Outcome Indicator 1.6	Percentage of IDA off-grid operations tackling women's entrepreneurship, and access to finance gaps	100%	100%	100%
Intermediate Outcome Indicator 1.7	Strategies adopted at the country level on closing productivity gaps between male and female farmers and business owners	Not yet due (ongoing)	Not yet due (ongoing)	10
		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
OUTPUTS				
Output 1	National electrification strategies and plans, based on geospatial least-cost modeling, integrating grid, mini grid and off-grid technologies developed with ESMAP support, and using technical resources and support provided by ESMAP's geospatial electrification team	8	27	30
Output 2	Country-specific policy and regulatory frameworks, business models and/or financing instruments developed with ESMAP support for scaling up mini grid and off-grid electrification	5	10	25
Output 3	Designed and piloted distinct financing innovations aiming to mobilize commercial debt, crowd in private sector finance, and/or sustainably provide demand side subsidies/ consumer financing	2	2	6
Output 4	Business models developed and piloted for sustainable electrification of displaced population and host communities	Not yet due (ongoing)	Not yet due (ongoing)	3

Output 5	Sustainable business model for electrification of public institutions, leveraging private sector, developed, piloted and results documented	Not yet due (ongoing)	Not yet due (ongoing)	3
Output 6	Approaches for stimulating demand and productive use developed, piloted and results documented	Not yet due (ongoing)	Not yet due (ongoing)	3
Output 7	At least 6 global knowledge reports covering mini grids, off-grid solar, productive use, public institution electrification, subsidies, and other pertinent topics	2	3	6
Output 8	At least 6 global knowledge events covering mini grids, off-grid solar, productive use, public institution electrification, subsidies, and other pertinent topics	2	4	6
Output 9	Delivery of one knowledge product or event related to gender by access program per year (duration of business plan)	1	1	4

RENEWABLE ENERGY

OUTCOME 1: Governments Adopt Policies and Plans to Support a Major Scale-Up of RE		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Outcome Indicator 1.1	RE capacity additions under government policies and plans up to 2030, of which:	23 GW	47.2 GW	60 GW
	1.1.1: Offshore wind in government policies and plans to 2030	0 GW	0 GW	20 GW
OUTCOME 2: Stimulation of Public and Private Investment in RE and Ancillary Infrastructure		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Outcome Indicator 2.1	RE capacity commitments (direct and enabled through ancillary infrastructure and grid improvements) under World Bank Group financed projects, of which:	5.4 GW	8.5 GW	32.5 GW
	2.1.1: Capacity commitments under EnRen-supported financed projects	2.2 GW	4.2 GW	20 GW
	2.1.2: Innovative solar capacity commitments under financed projects	470.5 MW	506.6 MW	3 GW

	2.1.3: Hydropower capacity commitments under financed projects	1,040 MW	1,120 MW	4.5 GW
	2.1.4: Offshore wind capacity commitments under financed projects	0 GW	0 GW	5 GW
Outcome Indicator 2.2	Volume of financing mobilized for projects that increase RE capacity, of which:	\$8 billion	\$13.6 billion	\$25 billion
	2.2.1: World Bank financing mobilized	\$4.3 billion	\$6.9 billion	\$3 billion
	2.2.2: Private financing mobilized (includes co-financing from MDBs and DFIs)	\$4 billion	\$7 billion	\$22 billion
Outcome Indicator 2.3	Battery storage capacity commitments under financed projects	370.5 MWh	2.5 GWh	15 GWh
INTERMEDIATE OUTCOME 1: World Bank is supporting RE scale-up in a wide range of countries following the EnRen approach		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Intermediate Outcome Indicator 1.1	Number of countries where there is a World Bank engagement in increasing the penetration of RE in generation mix	7	26	30
Intermediate Outcome Indicator 1.2	Number of countries where active World Bank engagement on geothermal power is newly established	1	1	3
INTERMEDIATE OUTCOME 2: Countries have included innovative technologies in their policies and plans		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Intermediate Outcome Indicator 2.1	Number of countries where there is World Bank Group engagement on battery storage	34	48	40
Intermediate Outcome Indicator 2.2	Number of countries where there is World Bank Group engagement on innovative solar technologies	4	9	12
Intermediate Outcome Indicator 2.3	Number of countries where there is World Bank Group engagement on offshore wind	0	7	10
INTERMEDIATE OUTCOME 3: Countries are developing the next generation of hydropower projects		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Intermediate Outcome Indicator 3.1	Number of countries where there is World Bank engagement under the Hydropower Development Facility	7	13	10

INTERMEDIATE OUTCOME 4: RE scale-up helps countries support socioeconomic development and action on gender		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Intermediate Outcome Indicator 4.1	Number of countries where there is World Bank Group engagement in supporting development of roadmaps including maximizing socioeconomic benefits derived from RE development with a focus on women's employment and skills development	6	11	20
OUTPUTS: Energizing Renewables		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Output 1	Report: Sustainable deployment of solar (grid and off-grid) and wind projects (EnRen guidelines)	0	0	1
Output 2	Events: Workshops to disseminate the EnRen integrated approach and promote the related support	1	2	2
Output 3	Report: Lessons learnt from the Noor Ouarzazate complex in Morocco (lessons for EnRen approach)	0	0	1
Output 4	Tool: Diagnostic tool to identify standardized solutions consistent with the EnRen methodology	0	1	1
Output 5	Tool: E-tendering platform for standardized competitive procurement of RE projects	0	0	1
Output 6	Report: Assessment of geothermal drilling costs	0	0	1
Output 7	Training/Event: Gender in geothermal workshops	0	0	1
Output 8	Report: Lesson learnt from cumulative environmental and social impacts from geothermal development in Turkey	0	0	1
Output 9	Country/Regional Grants: Off-grid and grid-connected planning studies, deployment strategies, socioeconomic studies, technical studies, capacity building	0	20	50

OUTPUTS: Energy Storage		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Output 10	Flagship Report: Lessons learned from World Bank projects and pilot projects	0	0	1
Output 11	Reports: Outputs developed under the Energy Storage Partnership	1	4	1
Output 12	Report: Social development framework and sustainable manufacturing practices for batteries	0	0	1
Output 13	Events: Convene exchanges under the Clean Energy Ministerial campaign on energy storage	0	0	1
Output 14	Training/Events: Technology-focused workshops and regional exchange events	3	15	4
Output 15	Country/regional grants: Upstream technical studies, strategy and roadmaps, downstream technical studies, preparation of testbeds/testing facilities, capacity building	18	27	60

OUTPUTS: Innovative Solar		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Output 16	Report: Distributed solar PV in developing countries	0	0	1
Output 17	Report: Benefits of hybridization of hydropower with solar PV	0	0	1
Output 18	Report: Environmental and social considerations for offshore floating PV development (social considerations to include gender aspects)	0	0	1
Output 19	Training/Events: Global knowledge sharing on innovative solar (as a part of EnRen workshops/consultations)	0	0	1
Output 20	Databases: Floating solar potential on existing hydropower reservoirs (geospatial database) and nearshore floating solar potential (geospatial database)	0	1	2

Output 21	Country/Regional Grants: Country workshops, mapping and geospatial studies, technical studies, policy/ structuring studies	12	15	20
OUTPUTS: Offshore Wind		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Output 22	Flagship Report: Key factors for successful development of offshore wind in emerging markets	0	1	1
Output 23	Report: Environmental & Social framework for development of offshore wind	0	0	1
Output 24	Maps and Data: Global technical potential mapping and analysis	0	1	1
Output 25	Training/Event: Global seminar and knowledge sharing on offshore wind development	0	1	1
Output 26	Country/Regional Grants: Country workshops, offshore wind roadmaps, deployment strategies, downstream technical studies, capacity building	6	8	16
OUTPUTS: Hydropower Development Facility		PROGRESS FY2022	CUMULATIVE PROGRESS FY2021-24	TARGET FY2024
Output 27	Report: Value chain analysis in hydropower	0	0	1
Output 28	Report: Private Sector Financing	0	0	1
Output 29	Report: Gender & Hydropower	0	0	1
Output 30	Training/Events: Global conferences and seminars	0	1	2
Output 31	Database: Global compendium of hydropower dams	0	0	1
Output 32	Report: Sustainability protocol	0	0	1
Output 33	Country/Regional Grants: Country workshops, roadmaps, project implementation strategies, pre-feasibility studies	27	39	25

ANNEX B

ESMAP NEW, ONGOING, CLOSED AND PENDING ACTIVITIES, FY2022

The following information captures the reporting period of July 1, 2022 to June 30, 2023. The current and ongoing status of projects disbursements can be extracted from the Activities Dashboard at: <https://esmap.org/activities>

Acronyms

ASA	Advisory Services and Analytics
BEA	Bank-Executed Activity
BETF	Bank-Executed Trust Fund
DPF	Development Policy Financing
PV	Photovoltaics (solar)
RETF	Recipient-Executed Trust Fund

Associated Trust Funds

AREP	Advancing Regional Energy Projects (in Africa)
CCUS	Carbon Capture, Utilization, and Storage
ROGEP	Support to Regional Off-Grid Electrification Project
SIDS DOCK	Support for Small Island Developing States

Regions

AFR	Africa
EAP	East Asia and Pacific
ECA	Europe and Central Asia
LCR	Latin America and the Caribbean
MNA	Middle East and North Africa
SAR	South Asia Region

New ESMAP Activities, FY2022

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
AFRICA EAST					
Burundi	P133610	TF0B8729	Renewable Energy-Based Generation and Transmission Expansion in Burundi	1) Renewable Energy	1.1) Energizing Renewables
Burundi	P164435	TF0B8569	Scaling Up Access to Decentralized Energy Services in Burundi	1) Electricity Access	1.1) Global Mini Grids Facility, 1.2) Off-Grid Solar, 1.3) Improve Livelihoods and Human Capital

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Comoros	P175840	TF0B6191	Comoros: Sustainable Power for Health Facilities (SIDS – RETF)	1) Small Island Developing States (SIDS)	
Comoros	P175840	TF0B6192	Comoros: Sustainable Power for Health Facilities (RETF)	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling
Eastern and Southern Africa	P165704	TF0B7074	Malawi: Preparation of Options for Financial Recovery for Electricity Supply Corporation of Malawi, Ltd. (ESCOM)	1) Foundations for Energy Transition, 2) Annual Block Grants	1.1) Energy Subsidy Reform Facility
Eastern and Southern Africa	P178319	TF0B8405	Advancing Regional Energy Projects MDTF: East African Power Pool (EAPP) Regional Power Market Support, Phase 2	1) Foundations for Energy Transition	1.1) Energy Markets, Connectivity and Trade
Ethiopia	P173750	TF0B6714	Ethiopia: Strengthen Climate Friendly Cold Chain Infrastructure Development for Quality and Equitable Deployment of COVID-19 and Other Vaccines in Ethiopia	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling
Ethiopia	P173750	TF0B8531	Energy Support for the Delivery of COVID-19 Vaccines to Conflict Affected Populations	1) Electricity Access	1.1) Leave No One Behind
Malawi	P175899	TF0B7517	Climate-friendly and Sustainable Energy Solutions for Improving Access, Quality, and Safety of Essential Health Services in Malawi	1) Electricity Access, 2) Accelerating Decarbonization	1.1) Improve Livelihoods and Human Capital, 2.1) Efficient and Clean Cooling

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Mozambique	P175295	TF0B7228	Sustainable Energy and Broadband Access in Rural Mozambique Project (SPN allocation)	1) Clean Cooking Fund	
Rwanda	P177429	TF0B7406	Supporting Energy Access Expansion and Clean Energy Transition in Rwanda	1) Electricity Access, 2) Foundations for Energy Transition, 3) Clean Cooking Fund	1.1) Off-Grid Solar, 1.2) Leave No One Behind, 1.3) Integrated Electrification Strategies and Planning, 1.4) Improve Livelihoods and Human Capital, 2.1) Utilities for the Energy Transition, 2.2) Energy Subsidy Reform Facility
Sao Tome and Principe	P173783	TF0B7973	Sao Tome and Principe: Climate-friendly Health System E-Mobility	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling
Sao Tome and Principe	P177099	TF0B9035	Electricity Supply Transition Support (BETF 2)	1) Electricity Access, 2) Renewable Energy, 3) Foundations for Energy Transition	1.1) Integrated Electrification Strategies and Planning, 2.1) Energizing Renewables, 2.2) Energy Storage, 3.1) Utilities for the Energy Transition
Somalia	P172031	TF0B7869	Technical Support for Health Facility Cooling and Climate Friendly Cold Chains in Somalia	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling
South Sudan	P176480	TF0B6004	South Sudan COVID -19 Emergency Response and Health Systems Preparedness Project	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
South Sudan	P176480	TF0B7442	Strengthening Energy-Efficient, Climate Friendly Cold Chain in South Sudan (BETF)	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling
Sudan	P174352	TF0B5920	Climate Friendly Cold Chain in Sudan	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling
Sudan	P174352	TF0B7441	Climate Friendly Cold Chain in Sudan (BETF)	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling
Tanzania	P153781	TF0B8158	Tanzania: Support for Renewable Energy Development	1) Renewable Energy	1.1) Energizing Renewables
Tanzania	P163732	TF0B8204	Leveraging Private Sector Financing for Rural Water Supply in Tanzania (BETF 2)	1) Electricity Access	1.1) Improve Livelihoods and Human Capital
Tanzania	P163732	TF0B8224	Leveraging Private Sector Financing for Rural Water Supply in Tanzania (BETF 1)	1) Electricity Access	1.1) Improve Livelihoods and Human Capital
Zambia	P174185	TF0B9085	Roadmap to Climate Friendly Cold Chain in Zambia	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling
Zimbabwe	P176141	TF0B6709	Zimbabwe: COVID-19 Emergency Response Project	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling
Zimbabwe	P176141	TF0B7412	Energy Efficient Cold Chain Equipment for COVID-19 Vaccine Deployment in Zimbabwe (BETF)	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling
AFRICA WEST					
Cabo Verde	P173857	TF0B8709	A Roadmap to Upgrade Public Health Infrastructure in Cabo Verde	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Congo, Republic of	P178614	TF0B8078	Energy Sector Diagnosis for the Republic of the Congo	1) Annual Block Grants	
Ghana	P173258	TF0B8585	Ghana: Energy Sector Recovery Program for Results	1) Renewable Energy, 2) Foundations for Energy Transition, 3) Annual Block Grants	1.1) Energizing Renewables, 2.1) Utilities for the Energy Transition
Liberia	P173416	TF0B5153	Electrification of Health and Vaccine Storage Facilities in Liberia	1) Electricity Access	1.1) Improve Livelihoods and Human Capital
Liberia	P176686	TF0B8524	Liberia: Energy Sector Programmatic Advisory Services and Analytics	1) Electricity Access, 2) Foundations for Energy Transition, 3) Annual Block Grants	1.1) Global Mini Grids Facility, 1.2) Off-Grid Solar, 2.1) Utilities for the Energy Transition
Mali	P167850	TF0B7059	Mauritania: High Level Energy Sector Strategy	1) Annual Block Grants	
Mali	P167850	TF0B8978	Low-Carbon Least Cost Development Plan for Power Generation and Transmission in Mauritania	1) Renewable Energy	1.1) Energizing Renewables
Niger	P173846	TF0B5944	Additional Financing to Niger COVID-19 Emergency Response Project	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling
Niger	P173846	TF0B6955	Energy Efficient Cold Chain Equipment for Vaccine Deployment in Niger	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Nigeria	IFC- 00606757	TF0B8131	Nigeria: Industrial Carbon Capture, Utilization, and Storage (CCUS) Atlas and National Strategy	1) Carbon Capture & Storage (CCUS)	
Nigeria	P174760	TF0B8337	Nigeria: Hydropower Support Under Energy Programmatic (ASA)	1) Renewable Energy	1.1) Hydropower Development Facility
Western and Central Africa	P160708	TF0B7053	Implementation Support of the ROGEP (RETF)	1) Regional Off-Grid Electrification Project (ROGEP)	
Western and Central Africa	P171439	TF0B7293	Supporting Preparation and Implementation of the West Africa Regional Energy Trade (DPF 2)	1) Annual Block Grants, 2) Foundations for Energy Transition	2.1) Energy Markets, Connectivity and Trade
Cambodia	P176906	TF0B7751	Enhancing the Enabling Environment in Energy Policy and Energy Access in Cambodia	1) Annual Block Grants	
East Asia and Pacific	P177280	TF0B7997	EAP Gender and Energy Facility II	1) Foundations for Energy Transition	1.1) Closing Gender Gaps in Energy
Mekong	IFC- 00603211	TF0B7639	Industrial Decarbonization in Vietnam	1) Accelerating Decarbonization	1.1) Industrial Decarbonization
EUROPE & CENTRAL ASIA					
Caucasus	P174666	TF0B8283	Armenia: Clean Energy Engagement	1) Renewable Energy, 2) Annual Block Grants	1.1) Energy Storage, 1.2) Innovative Solar
Central Asia	P178748	TF0B8668	Scaling-up Regional Energy Interconnectivity in Central Asia	1) Foundations for Energy Transition	1.1) Energy Markets, Connectivity and Trade

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Europe and Central Asia	P177744	TF0B7462	Support of Country Climate and Development Reports: Assessment of Pathways for Energy Sector Decarbonization in ECA	1) Annual Block Grants	
Europe and Central Asia	P177744	TF0B7824	ECA Sustainable Heating Program – Regional: Accelerating Decarbonization II	1) Accelerating Decarbonization, 2) Annual Block Grants	1.1) Zero Carbon Public Sector, 1.2) Geothermal Direct Use
Kyrgyz Republic	P174466	TF0B8755	Kyrgyz Republic: Renewable Energy Sector Development Program	1) Renewable Energy	1.1) Energizing Renewables
Moldova	P160829	TF0B8602	Moldova: Regional Power Interconnection Option Study	1) Foundations for Energy Transition	1.1) Energy Markets, Connectivity and Trade
Tajikistan	P168211	TF0B8118	Review of Technical, Environmental and Social, and Commercial Aspects of Rogun Hydropower Project	1) Renewable Energy	1.1) Hydropower Development Facility
Tajikistan	P170132	TF0B8832	Identification of Prospective Wind Sites in Tajikistan	1) Renewable Energy	1.1) Energizing Renewables
Türkiye	P151739	TF0B7276	Türkiye: Feasibility Assessments for Geothermal Direct Use Applications	1) Accelerating Decarbonization	1.1) Geothermal Direct Use
Türkiye	P173157	TF0B7518	Support for the Preparation of Türkiye's Second National Energy Efficiency Action Plan	1) Accelerating Decarbonization, 2) Annual Block Grants	1.1) Zero Carbon Public Sector

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Türkiye	P177079	TF0B6268	Türkiye: E-Mobility Program	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector
Western Balkans	P169389	TF0B6619	ECA Sustainable Heating Program – Regional: Accelerating Decarbonization	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector, 1.2) Geothermal Direct Use
GLOBAL					
Global	IFC-00603829	TF0B7756	IFC Decarbonization Advisory and Investment Transaction-Linked Support for the Industrial Sectors, II	1) Accelerating Decarbonization	1.1) Industrial Decarbonization
Global	IFC-00603979	TF0B7803	IFC Decarbonization Advisory and Investment Transaction-Linked Support for the Industrial Sectors, I	1) Accelerating Decarbonization	1.1) Industrial Decarbonization
Global	IFC-00606560	TF0B8159	Technical and Economic Assessment of Investment Opportunities in Green Hydrogen	1) Accelerating Decarbonization	1.1) Industrial Decarbonization
Global	IFC-00606704	TF0B7381	Technical and Economic Assessment of Investment Opportunities in Green Hydrogen	1) Accelerating Decarbonization	1.1) Industrial Decarbonization
Global	P171194	TF0B7015	India: Developing a Coal Mine Closure Framework, Achieving a Just Transition for All	1) Foundations for Energy Transition	1.1) Supporting Coal Regions in Transition

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Global	P174361	TF0B8021	Electricity Access Program Supervision	1) Electricity Access	1.1) Integrated Electrification Strategies and Planning
Global	P175657	TF0B5769	COVID-19 Energy Access Relief Fund	1) Electricity Access	1.1) Off-Grid Solar
Global	P176641	TF0B8410	Global: Sustainable Performance Tracking Framework for Power Utilities	1) Foundations for Energy Transition	1.1) Utilities for the Energy Transition, 1.2) Energy Subsidy Reform Facility
Global	P177102	TF0B7292	Improving Private Solutions in Hydropower Projects	1) Renewable Energy	1.1) Hydropower Development Facility
Global	P178069	TF0B8202	Supporting the Development of Sustainable Hydropower Projects and Operations	1) Renewable Energy	1.1) Hydropower Development Facility
LATIN AMERICA & CARIBBEAN					
Argentina	P176905	TF0B8126	Energy Efficient Cold Chain for the Agro-Industrial System in Argentina	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling
Central America	P178163	TF0B8047	Supporting the Energy Transition in Central America through Energy Subsidy Reforms	1) Foundations for Energy Transition	1.1) Energy Subsidy Reform Facility
Central America	P178163	TF0B8154	Defining Commercial Conditions for the Deployment of and Private Investments in Storage Solutions in the Dominican Republic, Costa Rica, El Salvador, and Panama	1) Renewable Energy	1.1) Energy Storage

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Central America	P178163	TF0B8194	Defining Commercial Conditions for the Deployment of and Private Investments in Storage Solutions in the Dominican Republic, Costa Rica, El Salvador, and Panama	1) Small Island Developing States (SIDS)	
Central America	P178163	TF0B8307	Facilitating Investments in Geothermal Direct Use in El Salvador and Costa Rica	1) Accelerating Decarbonization, 2) Annual Block Grants	1.1) Geothermal Direct Use
Central America	P178163	TF0B8411	Strategy And Roadmap for Green Hydrogen Development in Costa Rica	1) Accelerating Decarbonization, 2) Annual Block Grants	1.1) Green Hydrogen
Central America	P178163	TF0B8623	Enabling Environment for an Energy Efficiency Fund in Costa Rica and El Salvador, 2	1) Accelerating Decarbonization, 2) Annual Block Grants	1.1) Zero Carbon Public Sector
Central America	P178163	TF0B8678	Analysis of OECD Recommendations for Improved Performance of Costa Rica's Power Sector	1) Annual Block Grants	
Central America	P178163	TF0B8827	Mobilizing Private Finance to Accelerate the Deployment of Clean and Efficient Cooling Solutions in Panama, 2	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling
Colombia	P172319	TF0B6858	Supporting 2nd Phase Pilot in Bogota for Green Solar-Powered Last-Mile Urban Freight Delivery Services	1) Renewable Energy	1.1) Innovative Solar

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Guatemala	P173480	TF0B7984	Energy Efficient Cold-Chains for Agriculture in Guatemala	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling
Haiti	P177503	TF0B7244	Programmatic ASA for Haiti: Electricity Access and Sustainable, Resilient, and Inclusive Development of the Energy Sector	1) Electricity Access, 2) Energy Data & Analytics, 3) Foundations for Energy Transition, 4) Annual Block Grants	1.1) Integrated Electrification Strategies and Planning, 1.2) Global Mini Grids Facility, 1.3) Improve Livelihoods and Human Capital, 2.1) Multi-tier Energy Access Tracking Framework (MTF) (including data on clean cooking and displaced communities), 3.1) Utilities for the Energy Transition
MIDDLE EAST & NORTH AFRICA					
Lebanon	P166937	TF0B8611	Lebanon Transmission System Planning	1) Annual Block Grants	
Morocco	P177376	TF0B8112	Fostering Decarbonization of Industrial Zones in Morocco	1) Accelerating Decarbonization	1.1) Industrial Decarbonization
Tunisia	P167211	TF0B7291	Tunisia Dispatchable Solar Power	1) Renewable Energy	1.1) Energizing Renewables
SOUTH ASIA					
Bhutan	P174327	TF0B8049	Sustainable Hydropower Development Project	1) Renewable Energy	1.1) Hydropower Development Facility
Bhutan	P174327	TF0B8144	Sustainable Hydropower Development Project	1) Annual Block Grants	

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
India	P168590	TF0B7919	Mainstreaming Building Energy Efficiency and Climate Resilience Agenda in Tamil Nadu	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector
India	P170602	TF0B8918	Catalyzing Scalable Industrial Decarbonization Technologies in India	1) Accelerating Decarbonization	1.1) Industrial Decarbonization
India	P174798	TF0B7294	Improving Energy-Efficiency in Fish Cooling Value-Chain in South Asia, with Focus on India	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling
India	P178053	TF0B8741	Uttar Pradesh Clean Air Management Project: Clean Cookstove Program	1) Clean Cooking Fund	
Nepal	P171183	TF0B7870	Nepal: Clean Cooking Study	1) Clean Cooking Fund	
Pakistan	IFC-00603641	TF0B7466	Industrial Decarbonization in Pakistan	1) Accelerating Decarbonization	1.1) Industrial Decarbonization
Pakistan	P169313	TF0B8125	Pakistan: Electricity Subsidy Reform	1) Foundations for Energy Transition, 2) Annual Block Grants	1.1) Energy Subsidy Reform Facility
Pakistan	P169313	TF0B8180	Industrial Decarbonization Study	1) Annual Block Grants	
Pakistan	P170230	TF0B6930	Technical Assistance for Transition to Wholesale Electricity Market	1) Annual Block Grants	
South Asia	P173928	TF0B6500	South Asia Gender and Energy Facility II – ESMAP	1) Foundations for Energy Transition	1.1) Utilities for the Energy Transition, 1.2) Closing Gender Gaps in Energy

Ongoing ESMAP Activities, FY2022

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
AFRICA					
Africa	P126661	TF0A4769	Advancing Regional Energy Projects MDTF: Supervision	1) Advancing Regional Energy Projects (AREP)	
Africa	P126661	TF0A4770	Advancing Regional Energy Projects MDTF: East Africa Power Pool (EAPP) Assistance Program (BEA)	1) Advancing Regional Energy Projects (AREP)	
Africa	P126661	TF0A4771	Advancing Regional Energy Projects MDTF: South Africa Power Pool (SAPP) Assistance Program (BEA)	1) Advancing Regional Energy Projects (AREP)	
Africa	P172323	TF0B2304	Facilitating Energy Efficiency in Sub-Saharan Africa	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector
AFRICA EAST					
Burundi	P133610	TF0B2281	Burundi: Preparation of a Subsidy Reduction Trajectory and Financial Recovery Plan for REGIDESO	1) Foundations for Energy Transition, 2) Annual Block Grants	1.1) Energy Subsidy Reform Facility
Burundi	P133610	TF0B5426	Legal, Technical, and Safeguard Review Support for Ruzizi III Hydropower Project Preparation	1) Renewable Energy	1.1) Hydropower Development Facility
Burundi	P164435	TF0B1868	Sustainable, Efficient and Clean Cooking in Burundi	1) Clean Cooking Fund	
Comoros	P162783	TF0B3588	Comoros Solar PV & Battery Energy Storage Systems	1) Small Island Developing States (SIDS)	

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Comoros	P175840	TF0B6129	Comoros: Sustainable power for health facilities (BETF)	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling
Congo, Democratic Republic of	P173506	TF0B6006	Programmatic Support to the Power Sector in the DRC	1) Electricity Access, 2) Renewable Energy, 3) Foundations for Energy Transition, 4) Annual Block Grants	1.1) Global Mini Grids Facility, 1.2) Improve Livelihoods and Human Capital, 2.1) Energizing Renewables, 3.1) Utilities for the Energy Transition, 3.2) Energy Markets, Connectivity and Trade
Eastern Africa	P075941	TF0B1772	Rusumo Falls Implementation Support: Tunneling Works	1) Renewable Energy	1.1) Hydropower Development Facility
Eastern and Southern Africa	P126661	TF0B2010	Decarbonizing with Dispatchable Renewable Energy	1) Renewable Energy	1.1) Energizing Renewables, 1.2) Energy Storage
Eastern and Southern Africa	P146987	TF0A8482	Lighting Africa (Phase II)	1) Electricity Access, 2) Accelerating Decarbonization	1.1) Off-Grid Solar, 2.1) Efficient and Clean Cooling
Eastern and Southern Africa	P149119	TF0A4725	AFREA 2: Gender and Energy Program	1) Annual Block Grants, 2) Foundations for Energy Transition	2.1) Closing Gender Gaps in Energy
Eastern and Southern Africa	P162806	TF0A4508	Solar Resource Mapping: East Africa	1) Energy Data & Analytics	1.1) Energy Data Hub
Eastern and Southern Africa	P165617	TF0A6192	Africa Regional Geospatial Planning Support	1) Electricity Access, 2) Annual Block Grants	1.1) Integrated Electrification Strategies and Planning, 1.2) Global Mini Grids Facility

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Eastern and Southern Africa	P173217	TF0B2333	Energy Leap (AFRICA)	1) Electricity Access, 2) Clean Cooking Fund	1.1) Integrated Electrification Strategies and Planning, 1.2) Leave No One Behind, 1.3) Off-Grid Solar, 1.4) Global Mini Grids Facility
Eastern and Southern Africa	P174175	TF0B4111	Horn of Africa Initiative Rapid Support for Regional Integration	1) Electricity Access, 2) Clean Cooking Fund, 3) Annual Block Grants, 4) Foundations for Energy Transition	1.1) Integrated Electrification Strategies and Planning, 1.2) Off-Grid Solar, 1.3) Improve Livelihoods and Human Capital, 1.4) Global Mini Grids Facility, 1.5) Leave No One Behind, 4.1) Energy Markets, Connectivity and Trade
Eastern and Southern Africa	P176468	TF0B5851	Utility Performance and Behavior in Africa Today (UPBEAT): Maintaining and Updating Continental Utility Data Platform to Support Improvements in Utilities' Performance	1) Foundations for Energy Transition, 2) Annual Block Grants	1.1) Utilities for the Energy Transition, 1.2) Energy Markets, Connectivity and Trade, 1.3) Energy Subsidy Reform Facility
Ethiopia	P171742	TF0B2013	Supporting Improved Service Delivery for Universal Electrification	1) Electricity Access	1.1) Integrated Electrification Strategies and Planning, 1.2) Financial Innovation for Energy Access, 1.3) Global Mini Grids Facility, 1.4) Improve Livelihoods and Human Capital

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Kenya	P173040	TF0B1666	Renewable Energy Development and Institutional Development in Kenya	1) Renewable Energy, 2) Annual Block Grants	1.1) Energy Storage, 1.2) Energizing Renewables
Kenya	P173040	TF0B5094	Options Analysis for Promoting Productive Use of Electricity and Demand stimulation in Kenya	1) Electricity Access, 2) Foundations for Energy Transition	1.1) Improve Livelihoods and Human Capital, 1.2) Financial Innovation for Energy Access, 2.1) Utilities for the Energy Transition
Malawi	P168577	TF0B3629	Clean and Energy Efficient Cooling interventions for Micro, Small, and Medium Enterprises in Malawi	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling
Namibia	P171529	TF0B2597	Namibia National Electrification Program	1) Electricity Access	1.1) Integrated Electrification Strategies and Planning, 1.2) Global Mini Grids Facility
Rwanda	P164520	TF0B3655	Rwanda: Energy Efficient Cold Storage for Agriculture	1) Accelerating Decarbonization, 2) Electricity Access	1.1) Efficient and Clean Cooling, 2.1) Improve Livelihoods and Human Capital
Rwanda	P171671	TF0B3333	Rwanda: Inclusive and Electric Last Mile Connectivity (ESMAP)	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector
Rwanda	P172594	TF0B3589	Energy Access and Quality Improvement Project	1) Clean Cooking Fund	
Rwanda	P172594	TF0B4625	Implementation Support for Rwanda Energy Access and Quality Improvement Project (EAQIP)	1) Clean Cooking Fund	

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
South Africa	P149521	TF0A3137	Development of Carbon Capture and Storage in South Africa	1) Carbon Capture & Storage (CCUS)	
South Africa	P151193	TF019231	Capacity Building for Carbon Capture and Storage in South Africa	1) Carbon Capture & Storage (CCUS)	
South Sudan	P175227	TF0B4320	Pathways to Electricity Access Expansion in South Sudan	1) Electricity Access, 2) Annual Block Grants, 3) Energy Data & Analytics	1.1) Integrated Electrification Strategies and Planning, 1.2) Global Mini Grids Facility, 1.3) Off-Grid Solar, 1.4) Improve Livelihoods and Human Capital, 3.1) Multi-tier Energy Access Tracking Framework (MTF) (including data on clean cooking and displaced communities)
Southern Africa	P126661	TF0A4772	Additional Financing for Advancing Regional Energy Projects in Southern Africa Multi-Donor Trust Fund (SAPP AREP AF)	1) Advancing Regional Energy Projects (AREP)	
Southern Africa	P126661	TF0B5574	Renewable Energy for Building Energy Livelihoods	1) Renewable Energy, 2) Accelerating Decarbonization	1.1) Energizing Renewables, 2.1) Green Hydrogen
Tanzania	P165128	TF0A8813	Tanzania: Promoting Energy Efficiency in Service Delivery and Infrastructure Investments in Zanzibar	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Uganda	P166685	TF0B5204	Uganda: Electricity Access Scale-up Project (EASP)	1) Clean Cooking Fund	
Zambia	P170796	TF0B3121	Energy Sector Programmatic Advisory Services and Analytics (PASA) for Zambia	1) Annual Block Grants, 2) Electricity Access, 3) Foundations for Energy Transition, 4) Clean Cooking Fund	2.1) Integrated Electrification Strategies and Planning, 3.1) Energy Subsidy Reform Facility
Zimbabwe	P170960	TF0B0712	Planning Support and Capacity Building for Power Sector Recovery in Zimbabwe	1) Electricity Access, 2) Renewable Energy, 3) Annual Block Grants	1.1) Integrated Electrification Strategies and Planning, 2.1) Energizing Renewables
Zimbabwe	P170960	TF0B2752	Zimbabwe: Support for Solar Program Development and Coal Transition	1) Renewable Energy	1.1) Energizing Renewables
AFRICA WEST					
Benin	P173749	TF0B2708	Preparation for Electricity Access Scale-Up in Benin	1) Annual Block Grants	
Benin	P173749	TF0B5839	Multi-tier Energy Access Tracking Framework (MTF) Energy Access Diagnostic Study for Benin	1) Annual Block Grants, 2) Energy Data & Analytics	2.1) Multi-tier Energy Access Tracking Framework (MTF) (including data on clean cooking and displaced communities)
Cabo Verde	P170236	TF0B5152	Assessment of Battery Storage Potential in Cabo Verde	1) Renewable Energy	1.1) Energy Storage
Cameroon	P174960	TF0B0855	Cameroon: Energy Subsidy Reform	1) Foundations for Energy Transition	1.1) Energy Subsidy Reform Facility

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Cameroon	P174960	TF0B5787	Institutions and Capacity Strengthening for Regional Power Trade	1) Foundations for Energy Transition, 2) Annual Block Grants	1.1) Energy Markets, Connectivity and Trade
Central African Republic	P164885	TF0B2371	Support for the Promotion and Implementation of Solar PV Projects in Central African Republic	1) Electricity Access, 2) Renewable Energy, 3) Annual Block Grants	1.1) Global Mini Grids Facility, 1.2) Improve Livelihoods and Human Capital, 1.3) Off-Grid Solar, 2.1) Energizing Renewables, 2.2) Hydropower Development Facility, 2.3) Energy Storage
Chad	P174985	TF0B4457	Supporting Reform and Investment to Expand Access to Affordable and Financially Viable Energy	1) Electricity Access, 2) Foundations for Energy Transition, 3) Annual Block Grants	1.1) Global Mini Grids Facility, 1.2) Off-Grid Solar, 2.1) Energy Markets, Connectivity and Trade, 2.2) Energy Subsidy Reform Facility
Gambia, The	P163568	TF0B3700	Energy Efficiency Strategy for The Gambia (ESMAP / PPIAF)	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector, 1.2) Efficient and Clean Cooling
Ghana	P163984	TF0B0723	Ghana: Energy Sector Subsidy Reform Program	1) Foundations for Energy Transition	1.1) Energy Subsidy Reform Facility
Ghana	P173258	TF0B3078	Ghana: Clean Cooking Program Technical Assistance	1) Clean Cooking Fund	
Guinea	P164225	TF0B5946	Methodology for the Calculation of Revenue Requirement for Electricité de Guinée	1) Annual Block Grants	

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Liberia	P173416	TF0B5145	Electrification of Health and Vaccine Storage Facilities in Liberia	1) Electricity Access	1.1) Improve Livelihoods and Human Capital
Mali	P166796	TF0B2703	Mali: DPF Preparation ASA – Assessment of the Performance Contract of Energie du Mali (EDM) and Efficiency Measures to Reduce Costs	1) Renewable Energy, 2) Annual Block Grants	1.1) Energizing Renewables, 1.2) Energy Storage
Mali	P167850	TF0A9351	Accelerate Access to Electricity and Increase of Renewable Energies in the Sahel Region	1) Electricity Access, 2) Annual Block Grants	1.1) Integrated Electrification Strategies and Planning
Niger	P160170	TF0B1992	Assessment on Electricity Access for Host Communities and Forcibly Displaced People in the Lake Chad Basin	1) Electricity Access	1.1) Leave No One Behind
Niger	P174034	TF0B5095	Niger: Energy Sector Support for Accelerating Electricity Access	1) Electricity Access, 2) Foundations for Energy Transition, 3) Annual Block Grants, 4) Renewable Energy	1.1) Integrated Electrification Strategies and Planning, 1.2) Global Mini Grids Facility, 1.3) Off-Grid Solar, 1.4) Improve Livelihoods and Human Capital, 1.5) Financial Innovation for Energy Access, 2.1) Utilities for the Energy Transition, 2.2) Energy Subsidy Reform Facility, 4.1) Energizing Renewables

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Nigeria	P167156	TF0B2619	Nigeria: Improved Child Survival Program for Human Capital Multi-Program Approach (MPA)	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling, 1.2) Zero Carbon Public Sector
Nigeria	P172891	TF0B3332	Electricity Market Transition Assessment and Distribution Company (DISCO) Strengthening and Capacity Building in Nigeria	1) Annual Block Grants	
Nigeria	P174760	TF0B5042	Nigeria: Programmatic Advisory Services and Analytics (ASA) for Energy	1) Renewable Energy, 2) Foundations for Energy Transition, 3) Annual Block Grants, 4) Electricity Access	1.1) Energizing Renewables, 1.2) Innovative Solar, 2.1) Energy Markets, Connectivity and Trade, 2.2) Utilities for the Energy Transition, 2.3) Energy Subsidy Reform Facility, 4.1) Off-Grid Solar
Nigeria	P176130	TF0B5363	Nigeria: Sustainable Green e-Mobility Solutions (ESMAP)	1) Accelerating Decarbonization, 2) Electricity Access	1.1) Zero Carbon Public Sector, 2.1) Global Mini Grids Facility
Sierra Leone	P120304	TF0B0480	Sierra Leone: Expand Electricity Access in a Financially Sustainable Manner	1) Electricity Access	1.1) Global Mini Grids Facility
Sierra Leone	P120304	TF0B1190	Sierra Leone: Energy Sector Subsidy Reform Program	1) Foundations for Energy Transition	1.1) Energy Subsidy Reform Facility
Sierra Leone	P171059	TF0B4850	Promote Efficient and Clean Cooking in Sierra Leone	1) Clean Cooking Fund	

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Western and Central Africa	P160708	TF0B2413	Support to Regional Off-Grid Electrification Project (ROGEP) - BETF	1) Regional Off-Grid Electrification Project (ROGEP)	
Western and Central Africa	P167569	TF0B1483	Planning Support for Battery Storage for Variable Renewable Energy (VRE) Integration in ECOWAS Power System	1) Renewable Energy, 2) Annual Block Grants	1.1) Energy Storage, 1.2) Energizing Renewables
Western and Central Africa	P173172	TF0B2090	Assessment on Electricity Access for Host Communities and Forcibly Displaced People in the Sahel	1) Electricity Access	1.1) Leave No One Behind
EAST ASIA & PACIFIC					
China	P170663	TF0B1039	China: Energy Transition to a Lower-Coal Economy in Shanxi Province	1) Renewable Energy, 2) Accelerating Decarbonization	1.1) Energizing Renewables, 2.1) Zero Carbon Public Sector
China	P172281	TF0B2652	China: Energy Revolution Programmatic Advisory Services and Analytics (ASA)	1) Accelerating Decarbonization, 2) Renewable Energy, 3) Annual Block Grants	1.1) Zero Carbon Public Sector, 2.1) Energizing Renewables, 2.2) Energy Storage
China	P173306	TF0B2717	Technical Assistance for China Sustainable Urban Cooling	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling, 1.2) Zero Carbon Public Sector
China	P173461	TF0B6030	Energy Efficiency and Persistent Organic Pollutants Mitigation in Iron and Steel Industry in China	1) Accelerating Decarbonization	1.1) Industrial Decarbonization
East Asia and Pacific		TF012566	Dissemination & Knowledge Sharing	1) Annual Block Grants	

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
East Asia and Pacific	P170589	TF0B2739	Energy and Extractives Programmatic Advisory Services and Analytics (ASA) in Papua New Guinea	1) Electricity Access, 2) Clean Cooking Fund, 3) Renewable Energy, 4) Annual Block Grants	1.1) Integrated Electrification Strategies and Planning, 1.2) Global Mini Grids Facility, 1.3) Off-Grid Solar, 3.1) Hydropower Development Facility
East Asia and Pacific	P170589	TF0B4219	Energy and Extractives Programmatic Advisory Services and Analytics (ASA) in Papua New Guinea	1) Electricity Access, 2) Clean Cooking Fund, 3) Renewable Energy, 4) Annual Block Grants	1.1) Integrated Electrification Strategies and Planning, 1.2) Global Mini Grids Facility, 1.3) Off-Grid Solar, 3.1) Hydropower Development Facility
Indonesia	P155047	TF0B2516	Indonesia: Energy Transition and Sustainable Access to Modern Energy for All	1) Renewable Energy	1.1) Energizing Renewables
Indonesia	P166071	TF0B2515	Indonesia: Energy Transition and Sustainable Access to Modern Energy for All	1) Renewable Energy	1.1) Energizing Renewables
Indonesia	P172256	TF0B2521	Indonesia: Energy Transition and Sustainable Access to Modern Energy for All	1) Renewable Energy	1.1) Hydropower Development Facility
Indonesia	P173293	TF0B2870	Indonesia: Sustainable Least- cost Electrification (ISLE) Scale-Up (BETF)	1) Renewable Energy	1.1) Energizing Renewables, 1.2) Energy Storage
Indonesia	P173293	TF0B4182	Addressing Projected Impact of COVID-19 Crisis on Perusahaan Listrik Negara's (PLN) Cash Flow	1) Annual Block Grants	

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Indonesia	P173293	TF0B4220	Indonesia: Energy Transition and Sustainable Access to Modern Energy for All (Energy Subsidy Reform Facility, ESRF)	1) Foundations for Energy Transition	1.1) Energy Subsidy Reform Facility
Indonesia	P173293	TF0B4426	Development of a Financial Early Warning System from Perusahaan Listrik Negara (PLN)	1) Annual Block Grants	
Indonesia	P173293	TF0B4639	Indonesia: Energy Transition and Sustainable Access to Modern Energy for All (Energy Subsidy Reform Facility, ESRF)	1) Renewable Energy	1.1) Energizing Renewables
Lao People's Democratic Republic	P169538	TF0B0599	Lao PDR: Clean Cook Stove Initiative (ESMAP)	1) Clean Cooking Fund	
Lao People's Democratic Republic	P169538	TF0B2443	Lao PDR: Clean Cook Stove Initiative Project Implementation	1) Clean Cooking Fund	
Pacific Islands	P152653	TF0A1341	Pacific Islands Sustainable Energy Industry Development Project Implementation Support (SIDS DOCK)	1) Small Island Developing States (SIDS)	
Pacific Islands	P152653	TF0A1342	Pacific Islands Sustainable Energy Industry Development Project (SIDS DOCK)	1) Small Island Developing States (SIDS)	
Philippines	P175004	TF0B5114	Philippines: Energy Transition: Securing a Clean and Affordable Energy Future	1) Renewable Energy, 2) Accelerating Decarbonization	1.1) Energizing Renewables, 1.2) Offshore Wind, 2.1) Zero Carbon Public Sector

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Solomon Islands	P162902	TF0A7860	Solomon Islands: Electricity Access and Renewable Energy Expansion Project	1) Small Island Developing States (SIDS)	
Vietnam	P175981	TF0B5801	Retrofits and Cooling Systems for Urban Public Assets in Vietnam	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector
Vietnam	P176851	TF0B1853	Energy Transition in Vietnam, FY2020-FY2021	1) Renewable Energy, 2) Accelerating Decarbonization	1.1) Energizing Renewables, 1.2) Energy Storage, 1.3) Offshore Wind, 2.1) Zero Carbon Public Sector
EUROPE & CENTRAL ASIA					
Azerbaijan	P175716	TF0B4434	Support to Azerbaijan Energy Sector Market Reforms and Offshore Wind Development	1) Renewable Energy, 2) Annual Block Grants	1.1) Offshore Wind
Europe and Central Asia	P163273	TF0A4466	Energy, Gender, and Social Inclusion in the ECA Region	1) Annual Block Grants, 2) Foundations for Energy Transition	2.1) Closing Gender Gaps in Energy
Kazakhstan	P130013	TF0B6012	Kazakhstan: Industrial Energy Transition Initiative	1) Accelerating Decarbonization	1.1) Industrial Decarbonization
Kyrgyz Republic	P157079	TF0A6889	Energy Efficiency Improvements in Public Buildings in the Kyrgyz Republic	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector
Kyrgyz Republic	P157079	TF0B2457	Energy Efficiency Improvements in Public Buildings in the Kyrgyz Republic (RETF)	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Kyrgyz Republic	P174466	TF0B3586	Supporting Energy Sector Reform to Improve Financial Viability	1) Foundations for Energy Transition, 2) Accelerating Decarbonization	1.1) Energy Subsidy Reform Facility, 2.1) Zero Carbon Public Sector
Turkiye	P171645	TF0B3338	Türkiye: Promoting Low-Carbon Technologies and Circular Economy in Organized Industrial Zones	1) Accelerating Decarbonization, 2) Renewable Energy	1.1) Industrial Decarbonization, 2.1) Energizing Renewables
Turkiye	P173157	TF0B2395	Türkiye: Energy Transition Program	1) Renewable Energy, 2) Accelerating Decarbonization, 3) Annual Block Grants	1.1) Energy Storage, 1.2) Innovative Solar, 1.3) Energizing Renewables, 1.4) Offshore Wind, 2.1) Zero Carbon Public Sector, 2.2) Geothermal Direct Use
Uzbekistan	P146206	TF0A7360	Urban Heating Strategy for Uzbekistan	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector
Uzbekistan	P168487	TF0A9281	Uzbekistan: Energy Sector Development Programmatic Support	1) Renewable Energy, 2) Accelerating Decarbonization, 3) Foundations for Energy Transition, 4) Annual Block Grants	1.1) Energizing Renewables, 1.2) Energy Storage, 1.3) Innovative Solar, 2.1) Zero Carbon Public Sector, 3.1) Energy Subsidy Reform Facility
Uzbekistan	P168487	TF0B1752	Uzbekistan: Support for Preparation of Energy Sector Strategy Programmatic Advisory Services and Analytics (ASA)	1) Foundations for Energy Transition	1.1) Energy Subsidy Reform Facility

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Uzbekistan	P168487	TF0B4268	Fostering Industrial Decarbonization in Uzbekistan through Innovative Technologies	1) Accelerating Decarbonization	1.1) Industrial Decarbonization
Uzbekistan	P168487	TF0B4974	Uzbekistan: Renewable Energy Scale-up Support	1) Renewable Energy, 2) Foundations for Energy Transition	1.1) Energizing Renewables, 1.2) Energy Storage, 2.1) Utilities for the Energy Transition
Uzbekistan	P176060	TF0B6094	Decarbonization of Heating and Cooling Systems in Buildings in Uzbekistan	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector
Western Balkans	P169389	TF0B1935	Western Balkans: Energy Transition Program	1) Accelerating Decarbonization, 2) Renewable Energy, 3) Annual Block Grants	1.1) Zero Carbon Public Sector, 2.1) Energizing Renewables
Western Balkans	P169389	TF0B6178	Western Balkans: Energy Subsidy Reform Advisory Services and Analytics (ASA)	1) Foundations for Energy Transition	1.1) Energy Subsidy Reform Facility
GLOBAL					
Global		TF011316	SIDS/DOCK Program Management	1) Small Island Developing States (SIDS)	
Global		TF0A5993	ESMAP Monitoring & Evaluation	1) Program Management & Administration, M&E, Communication, Knowledge Management	1.1) Monitoring & Evaluation (M&E)

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Global		TF0A6021	ESMAP Communications & Outreach	1) Program Management & Administration, M&E, Communication, Knowledge Management	1.1) Communications
Global		TF0A6071	ESMAP Program Management & Administration	1) Program Management & Administration, M&E, Communication, Knowledge Management	1.1) Program Management & Administration (PM&A)
Global		TF0A6072	ESMAP Knowledge Management	1) Program Management & Administration, M&E, Communication, Knowledge Management	1.1) Knowledge Management
Global		TF0A6359	OGE Power Systems Planning (TF)	1) Annual Block Grants	
Global	IFC- 00603979	TF0B2086	Develop Climate Smart Cold Chain Solutions with IFC Clients	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling
Global	P122192	TF097014	Carbon Finance Carbon Capture & Storage Reimbursements to the Bank (Quarterly Billing)	1) Carbon Capture & Storage (CCUS)	
Global	P165586	TF0B5680	Scaling Up De- Carbonization in Water Utilities: Financing and Implementation of Energy Efficiency, Renewable Energy, and New Technologies	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Global	P169835	TF0A9394	Global: Role of Liquefied Petroleum Gas as a Household Fuel	1) Clean Cooking Fund, 2) Foundations for Energy Transition	2.1) Energy Subsidy Reform Facility
Global	P170090	TF0A9367	Offshore Wind Development Program	1) Renewable Energy	1.1) Offshore Wind
Global	P170148	TF0A9896	Sediment Management in Reservoirs and Run-Of-The-River Projects	1) Renewable Energy	1.1) Hydropower Development Facility
Global	P171037	TF0B1753	Quality Assurance Capacity Building for the Off-Grid Solar Sector	1) Electricity Access	1.1) Off-Grid Solar
Global	P171173	TF0B2450	Decarbonizing Natural Gas Using Carbon Capture Utilization and Storage	1) Carbon Capture & Storage (CCUS), 2) Accelerating Decarbonization	2.1) Industrial Decarbonization
Global	P171194	TF0B3997	Coal Transition Program, FY2021-24 Own-managed	1) Foundations for Energy Transition	1.1) Supporting Coal Regions in Transition
Global	P173658	TF0B4422	Technical Assistance to Selected Countries to Realign Agricultural and Energy Policies and Support for Sustainable Food Systems	1) Renewable Energy, 2) Foundations for Energy Transition	1.1) Innovative Solar, 2.1) Energy Subsidy Reform Facility
Global	P173841	TF0B3126	Green Hydrogen Support Program	1) Accelerating Decarbonization	1.1) Green Hydrogen
Global	P173908	TF0B3762	Hydropower Development Facility, FY2021-24 (Own-managed)	1) Renewable Energy	1.1) Hydropower Development Facility

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Global	P173931	TF0B3158	Energy Data Hub - FY2021-24 - Own-managed	1) Energy Data & Analytics	1.1) Energy Data Hub
Global	P173969	TF0B3095	Energy Storage Program, FY2021-24 (Own-managed)	1) Renewable Energy	1.1) Energy Storage
Global	P174100	TF0B3094	Innovative Solar Program	1) Renewable Energy	1.1) Innovative Solar
Global	P174202	TF0B3091	EnRen (Own-managed)	1) Renewable Energy	1.1) Energizing Renewables
Global	P174202	TF0B3092	International Solar Alliance (Own-managed)	1) Renewable Energy	1.1) Energizing Renewables
Global	P174232	TF0B3109	Clean Cooking Fund, FY2021-24 (Own-managed)	1) Clean Cooking Fund	
Global	P174320	TF0B3941	Global: Electricity Demand Estimation	1) Energy Data & Analytics	1.1) Demand Estimation
Global	P174326	TF0B3096	Energy Subsidy Reform Technical Assistance Facility	1) Foundations for Energy Transition	1.1) Energy Subsidy Reform Facility
Global	P174364	TF0B3188	Geothermal Program, FY2021-24 (Own-managed)	1) Accelerating Decarbonization	1.1) Geothermal Direct Use
Global	P174481	TF0B3159	RISE Regulatory Indicators for Sustainable Energy	1) Energy Data & Analytics	1.1) Regulatory Indicators for Sustainable Energy (RISE) / Regulatory Benchmarking Project
Global	P174481	TF0B3160	Multi-tier Energy Access Tracking Framework (MTF) Global Survey	1) Energy Data & Analytics	1.1) Multi-tier Energy Access Tracking Framework (MTF) (including data on clean cooking and displaced communities)

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Global	P174481	TF0B3161	Tracking SDG7	1) Energy Data & Analytics	1.1) Tracking SDG 7 Report
Global	P174518	TF0B3880	Global: Electricity Markets, Connectivity and Trade (MARCOT) Program	1) Foundations for Energy Transition	1.1) Energy Markets, Connectivity and Trade
Global	P174659	TF0B3546	ESMAP Zero Carbon Public Sector, FY2021-24 (Own-managed)	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector
Global	P174660	TF0B3569	ESMAP Efficient Clean Cooling program, FY2021-24 (Own-managed)	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling
Global	P174661	TF0B3542	ESMAP Accelerating Decarbonization - FY2021-24 (Own-managed)	1) Accelerating Decarbonization	1.1) Industrial Decarbonization
Global	P175149	TF0B4030	Leaving No One Behind, FY2021-24 (Own-managed)	1) Electricity Access	1.1) Leave No One Behind
Global	P175150	TF0B3993	Off-Grid Solar Scale-Up, FY2021-24 (Own-managed)	1) Electricity Access	1.1) Off-Grid Solar
Global	P175151	TF0B4088	Mini Grid Facility, FY2021-24 (Own-managed)	1) Electricity Access	1.1) Global Mini Grids Facility
Global	P175152	TF0B3965	Improving Livelihoods through Productive Use of Electricity	1) Electricity Access	1.1) Improve Livelihoods and Human Capital
Global	P175152	TF0B3966	Improving Livelihoods and Human Capital (Own Managed)	1) Electricity Access	1.1) Improve Livelihoods and Human Capital

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Global	P175153	TF0B4069	Integrated Electrification Strategies & Planning, FY2021-24 (Own-managed)	1) Electricity Access	1.1) Integrated Electrification Strategies and Planning
Global	P175154	TF0B4003	Financial Innovation for Energy Access, FY2021-24 (Own-managed)	1) Electricity Access	1.1) Financial Innovation for Energy Access
Global	P175305	TF0B4458	Commercial, Public and Industrial Buildings Energy Efficiency and Cooling	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector, 1.2) Efficient and Clean Cooling
Global	P175482	TF0B5359	ESMAP Gender and Energy Global Program	1) Foundations for Energy Transition	1.1) Closing Gender Gaps in Energy
Global	P175657	TF0B6059	Supervision of COVID-19 Energy Access Relief Fund	1) Electricity Access	1.1) Off-Grid Solar
Global	P176438	TF0B5505	Jobs (Own-managed BETF)	1) Other	
LATIN AMERICA & CARIBBEAN					
Argentina	P159843	TF0B5640	Promoting sustainable and energy efficient social housing in the Province of Buenos Aires	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector, 1.2) Efficient and Clean Cooling
Caribbean	P159107	TF0B0592	Mainstreaming Energy Resilience and Supporting Climate Finance in OECS Countries	1) Electricity Access, 2) Annual Block Grants	1.1) Global Mini Grids Facility
Caribbean	P159107	TF0B5506	Accelerating Green Energy Transition in Grenada - P159107	1) Annual Block Grants	

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Caribbean	P159107	TF0B6221	Implementation Mechanisms and Time-bound Action Plan for Accelerating EE and Distributed RE in Residential, Commercial, Public and Industrial Buildings in Grenada	1) Renewable Energy, 2) Accelerating Decarbonization	1.1) Innovative Solar, 2.1) Zero Carbon Public Sector
Central America	P169052	TF0B2957	Advisory services to accompany the development of the electricity sector regulatory and normative frameworks in Honduras	1) Annual Block Grants	
Colombia	P172319	TF0B2682	Support the implementation of the Energy Transition and Modernization of the Power Sector in Colombia	1) Electricity Access, 2) Accelerating Decarbonization, 3) Foundations for Energy Transition	1.1) Integrated Electrification Strategies and Planning, 1.2) Off-Grid Solar, 1.3) Global Mini Grids Facility, 2.1) Zero Carbon Public Sector, 3.1) Utilities for the Energy Transition
Colombia	P172319	TF0B5061	Offshore Wind Roadmap for Colombia	1) Renewable Energy	1.1) Offshore Wind
Dominica	P156500	TF013661	Small Island Developing States (SIDS): Geothermal Development in Dominica	1) Small Island Developing States (SIDS)	
Dominica	P162149	TF0A9545	Dominica Geothermal Risk Mitigation Project	1) Renewable Energy	1.1) Energizing Renewables

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Dominica	P162149	TF0B1219	Dominica Geothermal Risk Mitigation (BETF)	1) Renewable Energy, 2) Accelerating Decarbonization	1.1) Energizing Renewables, 2.1) Geothermal Direct Use
Dominican Republic	P147277	TF0A7456	Technical Assistance for Distribution Grid Modernization and Loss Reduction in the Dominican Republic	1) Electricity Access, 2) Annual Block Grants	1.1) Leave No One Behind
Dominican Republic	P175874	TF0B5807	Supporting Electricity Sector Reforms in the Dominican Republic	1) Foundations for Energy Transition	1.1) Energy Subsidy Reform Facility
Haiti	P156719	TF0B3842	Solar Hybrid Electricity Systems for Prioritized Healthcare and Water Facilities in Haiti in the Context of COVID-19	1) Electricity Access	1.1) Improve Livelihoods and Human Capital
Haiti	P156719	TF0B3955	Solar Hybrid Electricity Systems for Prioritized Healthcare and Water Facilities in Haiti in the Context of COVID-19	1) Electricity Access	1.1) Improve Livelihoods and Human Capital
Latin America	P144569	TF014176	Assessment of Geothermal Potential in LCR	1) Renewable Energy, 2) Annual Block Grants	1.1) Energizing Renewables
Latin America	P163363	TF0A4742	LCR Energy and Gender Program	1) Renewable Energy, 2) Annual Block Grants, 3) Foundations for Energy Transition	1.1) Energizing Renewables, 3.1) Closing Gender Gaps in Energy

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Latin America	P166823	TF0A9773	Argentina & Paraguay: Promoting Cleaner and Sustainable Energy Systems	1) Accelerating Decarbonization, 2) Annual Block Grants	1.1) Zero Carbon Public Sector
Mexico	P161360	TF0A5156	Support for the Development of Carbon Capture, Utilization, and Storage in Mexico, Phase II	1) Carbon Capture & Storage (CCUS)	
St. Lucia	P161316	TF0B2294	St Lucia: Renewable Energy Sector Development Project (ESMAP/DFID BETF)	1) Renewable Energy	1.1) Energizing Renewables
MIDDLE EAST & NORTH AFRICA					
Iraq	P155335	TF0B0192	Iraq: Energy Sector Programmatic Technical Assistance	1) Annual Block Grants	
Iraq	P168745	TF0A9925	Iraq: Gas Sector Reform	1) Annual Block Grants	
Lebanon	P170769	TF0B1373	Generation Mix and Transmission System Planning for 2020- 2030	1) Annual Block Grants	
Middle East and North Africa	P163837	TF0A5196	MNA Energy and Gender Program	1) Annual Block Grants, 2) Foundations for Energy Transition	2.1) Utilities for the Energy Transition, 2.2) Closing Gender Gaps in Energy
Middle East and North Africa	P170546	TF0B3749	Unlocking E-Mobility Development Potential in MNA (ESMAP)	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector, 1.2) Efficient and Clean Cooling
Middle East and North Africa	P174504	TF0B5841	Pan-Arab Regional Energy Trade Investment Support - CCU - Component 3 of PA-RETP 2.0	1) Carbon Capture & Storage (CCUS)	

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Middle East and North Africa	P174504	TF0B5900	Pan-Arab Regional Energy Trade Investment Support Energy Connectivity Sustainability Security (PA- RETP2.0)	1) Foundations for Energy Transition	1.1) Energy Markets, Connectivity and Trade
Morocco	P172651	TF0B2319	Morocco: Clean and Efficient Energy Transition Support	1) Accelerating Decarbonization, 2) Renewable Energy	1.1) Zero Carbon Public Sector, 2.1) Energizing Renewables
Tunisia	P164625	TF0A6788	Power Interconnector: Project Preparation Technical Assistance in the Republic of Tunisia (BETF)	1) Annual Block Grants	
Tunisia	P164625	TF0A6789	Power Interconnector: Project Preparation Technical Assistance in the Republic of Tunisia (RETF)	1) Annual Block Grants	
SOUTH ASIA					
Afghanistan	P173775	TF0B5205	Solarization of Vaccine Storage Facilities in Afghanistan	1) Electricity Access	1.1) Improve Livelihoods and Human Capital
Afghanistan	P173775	TF0B6034	Solarization of Vaccine Storage Facilities in Afghanistan (BE)	1) Electricity Access	1.1) Improve Livelihoods and Human Capital
Bangladesh	P131263	TF0A8133	Implementation Support for Bangladesh Clean Cooking Program	1) Clean Cooking Fund	

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Bangladesh	P161246	TF0B2571	Clean and Energy Efficient Cooling for Livestock Supply Chains in Bangladesh	1) Accelerating Decarbonization	1.1) Efficient and Clean Cooling
Bangladesh	P161869	TF0A6626	Scaling-up Renewable Energy in Bangladesh	1) Renewable Energy, 2) Annual Block Grants	1.1) Energizing Renewables, 1.2) Innovative Solar
Bangladesh	P170688	TF0B3140	Maximize Sustainable and Resilient Energy Supply and Use in Green Economic Zones in Bangladesh	1) Accelerating Decarbonization, 2) Renewable Energy	1.1) Industrial Decarbonization, 2.1) Innovative Solar
Bangladesh	P172183	TF0B0886	Bangladesh: Roadmap for Meeting Energy Needs of Refugees and Host Communities	1) Electricity Access, 2) Clean Cooking Fund	1.1) Leave No One Behind, 1.2) Global Mini Grids Facility
Bangladesh	P172183	TF0B2221	Bangladesh: Energy Transitions	1) Accelerating Decarbonization, 2) Renewable Energy, 3) Annual Block Grants	1.1) Efficient and Clean Cooling, 1.2) Zero Carbon Public Sector, 2.1) Energy Storage, 2.2) Energizing Renewables
Bangladesh	P174650	TF0B5508	Bangladesh: Electricity Distribution Network Transformation	1) Renewable Energy, 2) Foundations for Energy Transition, 3) Annual Block Grants	1.1) Innovative Solar, 2.1) Utilities for the Energy Transition
India	P162086	TF0A6977	Supporting Government of India's 24x7 Power for All program	1) Annual Block Grants	

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
India	P170590	TF0B0661	Supporting Government of India's 24x7 Power for All program in West Bengal	1) Annual Block Grants	
India	P170602	TF0B1586	India: Supporting Energy Transition	1) Renewable Energy, 2) Accelerating Decarbonization, 3) Foundations for Energy Transition	1.1) Energizing Renewables, 1.2) Innovative Solar, 1.3) Energy Storage, 1.4) Hydropower Development Facility, 1.5) Offshore Wind, 2.1) Efficient and Clean Cooling, 2.2) Zero Carbon Public Sector, 3.1) Supporting Coal Regions in Transition
India	P170602	TF0B4637	India: Supporting Himachal Pradesh in tapping its Renewable Energy Potential	1) Renewable Energy	1.1) Energizing Renewables
India	P170602	TF0B4638	Addressing Development Challenges in India's Hydropower Sector	1) Annual Block Grants	
India	P170602	TF0B5384	India: Supporting structural reforms in electricity distribution sector	1) Annual Block Grants	
India	P170602	TF0B5531	Developing a Compressed Bio-Gas roadmap in India	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector
India	P170602	TF0B5641	Green Hydrogen Opportunities and Roadmap for India	1) Accelerating Decarbonization	1.1) Industrial Decarbonization, 1.2) Green Hydrogen

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Maldives	P145482	TF0B0238	Maldives: Supporting Energy Transition and Integrated Resource Planning in an Island-Grid Context	1) Accelerating Decarbonization, 2) Renewable Energy	1.1) Zero Carbon Public Sector, 2.1) Energizing Renewables, 2.2) Innovative Solar, 2.3) Energy Storage
Maldives	P145482	TF0B5106	Maldives: Supporting Energy Transition and Integrated Resource Planning in an Island-Grid Context	1) Small Island Developing States (SIDS)	
Maldives	P172788	TF0B3331	Maldives: Supporting the Development of Electric Mobility in the Maldives	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector
Nepal	P150066	TF0B0014	Nepal: Technical Assistance and Capacity Building Support for Institutional Strengthening of the NEA for Environmental and Social Management	1) Annual Block Grants	
Nepal	P171183	TF0B1747	Support Sustainable Hydropower Development in Nepal	1) Renewable Energy	1.1) Hydropower Development Facility
Pakistan	P169313	TF0B0583	Pakistan: Technical assistance on electricity distribution efficiency improvement	1) Annual Block Grants	

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Pakistan	P169313	TF0B0934	Pakistan: Sustainable Energy Program	1) Accelerating Decarbonization, 2) Renewable Energy	1.1) Efficient and Clean Cooling, 1.2) Zero Carbon Public Sector, 2.1) Energizing Renewables, 2.2) Innovative Solar
Pakistan	P169313	TF0B4266	Pakistan: Energy Access Technical Assistance	1) Electricity Access, 2) Energy Data & Analytics	1.1) Integrated Electrification Strategies and Planning, 1.2) Global Mini Grids Facility, 1.3) Off-Grid Solar, 2.1) Multi-tier Energy Access Tracking Framework (MTF) (including data on clean cooking and displaced communities)
South Asia	P167971	TF0B5507	Accelerate South Asia Power Market (ASAP): Development of Regional Wholesale Market Design Options for Cross Border Electricity Trade among BBINS (Bangladesh, Bhutan, India, Nepal, and Sri Lanka) countries	1) Renewable Energy, 2) Foundations for Energy Transition, 3) Annual Block Grants	1.1) Hydropower Development Facility, 2.1) Energy Markets, Connectivity and Trade
Sri Lanka	P166865	TF0B5911	Floating Solar PV Development Option Study	1) Renewable Energy	1.1) Innovative Solar
Sri Lanka	P175305	TF0B4044	Offshore Wind Development Roadmap and Demonstration Project Study	1) Renewable Energy	1.1) Offshore Wind

Closed ESMAP Activities, FY2022

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
AFRICA					
Africa	P169041	TF0A9018	State of African Utilities	1) Foundations for Energy Transition, 2) Annual Block Grants	1.1) Energy Subsidy Reform Facility
AFRICA EAST					
Angola	P169765	TF0A9623	Angola Energy Sector Engagement	1) Electricity Access, 2) Foundations for Energy Transition, 3) Annual Block Grants	1.1) Integrated Electrification Strategies and Planning, 2.1) Energy Subsidy Reform Facility
Congo, Democratic Republic of	P167912	TF0A8630	Mapping and Prioritization of Hydropower Resources in the Democratic Republic of Congo	1) Energy Data & Analytics	1.1) Energy Data Hub
Eritrea	P173146	TF0B2293	Eritrea: Power Sector Policy Note	1) Foundations for Energy Transition, 2) Annual Block Grants	1.1) Energy Subsidy Reform Facility
Rwanda	P162646	TF0B2012	Supporting Efficient and Clean Cooking for Beneficiaries of Rwanda's flagship Social Safety Net – The Vision 2020 Umurenge Program	1) Clean Cooking Fund	
Uganda	P166685	TF0B1934	Uganda: Energy Access Scale-up Project - Clean Cooking	1) Clean Cooking Fund	

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
AFRICA WEST					
Nigeria	P164001	TF0A8119	Nigeria: Facilitating Implementation of Power Sector Recovery Program	1) Foundations for Energy Transition	1.1) Energy Subsidy Reform Facility
Nigeria	P174760	TF0B8337	Nigeria: Hydro Support under Energy Programmatic Advisory Services and Analytics (ASA)	1) Renewable Energy	1.1) Hydropower Development Facility
China	P158079	TF0A8315	China: Development of Green and Energy Efficient Urban Industrial Zones	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector
East Asia and Pacific	P151262	TF0B4267	Increasing Access to Clean Cooking and Establishing Power Sector Strategy and Engagement	1) Annual Block Grants	
Marshall Islands	P160910	TF0A6578	Promotion of Energy Efficiency Program	1) Accelerating Decarbonization, 2) Annual Block Grants	1.1) Zero Carbon Public Sector
Myanmar	P152936	TF0A6531	Off-Grid Access in Myanmar (ESMAP RETF)	1) Electricity Access	1.1) Off-Grid Solar
Myanmar	P152936	TF0A6611	Off-Grid Access in Myanmar	1) Electricity Access	1.1) Off-Grid Solar, 1.2) Global Mini Grids Facility
Myanmar	P152936	TF0A7405	Support for Implementation of the Sustainable Energy for All and National Electrification Program in Myanmar	1) Annual Block Grants	

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Myanmar	P171461	TF0A6395	Support for Renewable Energy Development in Myanmar	1) Renewable Energy	1.1) Energizing Renewables, 1.2) Innovative Solar
Myanmar	P171461	TF0B2693	Myanmar: Efficient Electric Cooking Solutions	1) Clean Cooking Fund	
Philippines	P147646	TF0A7322	Agus Hydropower Cascade Rehabilitation	1) Annual Block Grants	
Philippines	P173728	TF0B5761	Climate Risk Assessment in Preparation for of Agus-Pulangi Hydropower Complex Rehabilitation (APHC)	1) Renewable Energy	1.1) Hydropower Development Facility
Vietnam	P176851	TF0A9131	Vietnam: Power Development Plan: Supporting Activities	1) Renewable Energy, 2) Annual Block Grants	1.1) Energizing Renewables
Vietnam	P176851	TF0B0987	Supporting Implementation of National Energy Efficiency Program in Vietnam	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector
EUROPE & CENTRAL ASIA					
Central Asia	P166417	TF0A7670	Just-in-Time Renewable Energy Development Support for Central Asia	1) Renewable Energy, 2) Annual Block Grants	1.1) Energizing Renewables, 1.2) Energy Storage
Moldova	P167676	TF0A9428	Optimization of DH System and Fuel Supply Options Study	1) Clean Cooking Fund	

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Moldova	P169217	TF0A9348	Moldova: Public Sector Energy Efficiency Financing Options	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector
Serbia	P169842	TF0A9504	Serbia: District Heating Tariff Study and Poverty and Social Impact Assessment	1) Accelerating Decarbonization, 2) Foundations for Energy Transition	1.1) Zero Carbon Public Sector, 2.1) Energy Subsidy Reform Facility
Tajikistan	P167384	TF0A7624	Tajikistan: Electricity Tariff Setting and Mitigation of Social Impacts	1) Foundations for Energy Transition	1.1) Energy Subsidy Reform Facility
Türkiye	P151739	TF0A9929	Characterizing the Declining CO2 Emissions from Turkish Geothermal Power Plants	1) Renewable Energy	1.1) Energizing Renewables
Türkiye	P167364	TF0A8499	Türkiye: Advisory Support for Türkiye Smart Grid Options and Generation Planning	1) Renewable Energy, 2) Annual Block Grants	1.1) Energizing Renewables, 1.2) Energy Storage
Ukraine	P146788	TF0A7544	Development of Market Compatible Renewable Energy Framework in Ukraine	1) Renewable Energy, 2) Annual Block Grants	1.1) Energizing Renewables, 1.2) Energy Storage
Western Balkans	P167499	TF0A9044	Integrated Hydropower Development in the Drina River Basin	1) Renewable Energy, 2) Annual Block Grants	1.1) Hydropower Development Facility
Western Balkans	P169389	TF0B6619	ECA Sustainable Heating Program – Regional: Accelerating Decarbonization	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector, 1.2) Geothermal Direct Use

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
GLOBAL					
Global		TF0A5090	Lighting Global (Own-managed)	1) Electricity Access	1.1) Off-Grid Solar
Global	IFC-00603829	TF0B7756	IFC Decarbonization Advisory and Investment Transaction-Linked Support for the Industrial Sectors, II	1) Accelerating Decarbonization	1.1) Industrial Decarbonization
Global	IFC-00606704	TF0B7381	Technical and Economic Assessment of Investment Opportunities in Green Hydrogen	1) Accelerating Decarbonization	1.1) Industrial Decarbonization
Global	P145972	TF0A7954	City Energy Efficiency Transformation	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector
Global	P151262	TF0A5068	East Asia and Pacific Gender and Energy Facility	1) Annual Block Grants, 2) Foundations for Energy Transition	2.1) Closing Gender Gaps in Energy
LATIN AMERICA & CARIBBEAN					
Central America	P169052	TF0A5851	Honduras: Toward Cost-Reflective Tariff Regulation for the Power Sector	1) Foundations for Energy Transition, 2) Annual Block Grants	1.1) Energy Subsidy Reform Facility
Central America	P169052	TF0B4245	Mobilizing Private Finance to Accelerate the Deployment of Clean and Efficient Cooling Solutions in Panama	1) Accelerating Decarbonization, 2) Annual Block Grants	1.1) Efficient and Clean Cooling

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
Central America	P169052	TF0B5708	Enabling Environment for an Energy Efficiency Fund in El Salvador and Costa Rica	1) Annual Block Grants, 2) Accelerating Decarbonization	2.1) Zero Carbon Public Sector, 2.2) Efficient and Clean Cooling
El Salvador	P170089	TF0B0563	Increasing Power Generation from Geothermal Resources in El Salvador	1) Renewable Energy, 2) Accelerating Decarbonization, 3) Annual Block Grants	1.1) Energizing Renewables, 2.1) Geothermal Direct Use
Latin America	P164403	TF0A9587	Analysis of Impact of Electromobility Scale- Up in the Brazilian Power Sector	1) Accelerating Decarbonization, 2) Annual Block Grants	1.1) Zero Carbon Public Sector
Latin America	P175621	TF0B4424	Implications of Enhanced Regional Electricity Trade on Power Sector Reforms in LCR	1) Foundations for Energy Transition	1.1) Energy Markets, Connectivity and Trade
Mexico	P157932	TF0B2149	Design of Energy Efficient Subsidy Program for Low- Income Housing in Mexico	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector
Mexico	P173171	TF0B2768	Energy Efficient Cold- Chain for Agriculture in Mexico	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector
Peru	P171140	TF0B2677	Advisory Support for the Power Sector Modernization Reform in Peru	1) Annual Block Grants	
Libya	P167743	TF0A8236	Libya: Support for Preparation of Liquefied Natural Gas (LNG) Import Component	1) Annual Block Grants	

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
SOUTH ASIA					
Bangladesh	P161996	TF0A7683	Increasing the Sustainability and Efficiency of Fuelwood Supply Value Chain to Increase Access to Efficient and Clean Cooking in Bangladesh	1) Clean Cooking Fund	
India	P168144	TF0B0119	India: Supporting Himachal Pradesh in Tapping its Renewable Energy Potential	1) Renewable Energy	1.1) Energizing Renewables
India	P168355	TF0A5376	India: Improving Agricultural Productivity and Energy Efficiency through Direct Benefit Transfer for Electricity to Farmers	1) Foundations for Energy Transition, 2) Annual Block Grants	1.1) Energy Subsidy Reform Facility
Nepal	P171183	TF0A6655	Solar Measurement Campaign in Nepal and Additional Budget for Renewable Energy Resource Mapping and Geospatial Planning	1) Energy Data & Analytics	1.1) Energy Data Hub
Pakistan	P156972	TF0A7073	Pakistan: Punjab Energy Efficient Municipal Service	1) Accelerating Decarbonization	1.1) Zero Carbon Public Sector

ESMAP Activities Pending Approval, FY2022

COUNTRY/ REGION	PROJECT #	TRUST FUND #	PROJECT NAME	ESMAP THEMATIC AND CROSS- CUTTING AREA	ESMAP PRIORITY
AFRICA					
Botswana	P178822	TBD	Botswana: Renewable Energy Scale Up Support	Renewable Energy	Energizing Renewables
Guinea- Bissau	P174576	TBD	Guinea Bissau: Solar Energy Scale Up Support	Renewable Energy	Energizing Renewables
Mali	P176633	TBD	Off-Grid Solar Delivery for Rural Clinics	Electricity Access	Improve Livelihoods and Human Capital
Namibia	P179377	TBD	Namibia Renewable Energy Scale Up Support	Renewable Energy	Energizing Renewables
Niger	P174034	TBD	Niger Accelerating Electricity Access Project Support to Clean and Efficient Cooking	Clean Cooking Fund	
Sao Tome and Principe	P177099	TBD	Electricity Supply Transition Support	Renewable Energy	Energizing Renewables
EAST ASIA & PACIFIC					
Pacific Islands	P152653	TBD	Developing Renewable Energy Storage System for Pacific Island Countries	Renewable Energy	Energy Storage
EUROPE & CENTRAL ASIA					
Europe and Central Asia	P165651	TBD	ECA Sustainable Heating Program	Foundations for Energy Transition	Utilities for the Energy Transition
Europe and Central Asia	P130013	TBD	ECA Sustainable Heating Program	Foundations for Energy Transition	Utilities for the Energy Transition
MIDDLE EAST & NORTH AFRICA					
Morocco			Fostering Decarbonization of Industrial Zones in Morocco	Accelerating Decarbonization	Industrial Decarbonization

ANNEX C

ESMAP PUBLICATIONS, FY2022

Regions

AFR	Africa
EAP	East Asia and Pacific
ECA	Europe and Central Asia
LCR	Latin America and the Caribbean
MNA	Middle East and North Africa
SAR	South Asia Region

ISBN, PUB NO., OR PROJECT NO.	COUNTRY/ REGION	TITLE	AUTHOR/TTL
Live Wire No. 2022/121	AFR	Access to Clean Cooking and Electricity: Righting the Policy Balance in Sub-Saharan Africa and Fragile Settings	Sharmila Bellur, Paul Mathew, Juliette Besnard
Joint Publication	AFR	Closing the Loop on Energy Access in Africa	Global Battery Alliance, World Economic Forum, the Energy Storage Partnership, the Faraday Institution, Vivid Economics, Öko-Institut e.V.
P169041	AFR	UPBEAT: Utility Performance and Behavior in Africa Today	Ani Balabanyan, Yadviga Semikolenova, Arun Singh, Min A. Lee
P169041	AFR	UPBEAT: Analyzing Foregone Cash to Improve Utility Performance http://documents.worldbank.org/curated/en/371961628830813641/Analyzing-Foregone-Cash-to-Improve-Utility-Performance-Topical-Paper-Utility-Performance-and-Behavior-in-Africa-Today	Ani Balabanyan, Denzel J. Hankinson, Stephen Nash, and Arun Singh

ISBN, PUB NO., OR PROJECT NO.	COUNTRY/ REGION	TITLE	AUTHOR/TTL
P169041	AFR	UPBEAT: Catalyzing Utility Reform in Sub-Saharan Africa – Quick Wins Matter for Transparency and Accountability http://documents.worldbank.org/curated/en/519011628831337787/Catalyzing-Utility-Reform-in-Sub-Saharan-Africa-Quick-Wins-Matter-for-Transparency-and-Accountability-Topical-Paper-Utility-Performance-and-Behavior	Yadviga Semikolenova, Ian Driscall, Min A. Lee
P169041	AFR	UPBEAT: Utility Performance and Behavior in Africa Today - Summary Report http://documents.worldbank.org/curated/en/440591628869078878/Summary-Report	Ani Balabanyan, Yadviga Semikolenova, Arun Singh, and Min A. Lee
P169041	AFR	UPEAT: African Utilities during COVID-19 - Challenges and Impacts http://documents.worldbank.org/curated/en/683831628830335585/African-Utilities-during-COVID-19-Challenges-and-Impacts-Topical-Paper-Utility-Performance-and-Behavior	Ani Balabanyan, Yadviga Semikolenova, Denzel J. Hankinson, Stephen Nash, and Christopher Parcels
P175716	Azerbaijan	Offshore Wind Development Program: Offshore Wind Roadmap for Azerbaijan	Orucu, Ayse Yasemin; Whittaker, Sean; Leybourne, Mark Thomas
P168255	Georgia	Georgia Power Sector: Maximizing Finance for Development https://openknowledge.worldbank.org/handle/10986/37733	Artur Kochnakyan, Zhengjia Meng, Joern Thorsten Huenteler
Live Wire No. 2022/120	Global	Agrodem: An Open-Source Model that Quantifies the Electricity Requirements of Irrigation	Alexandros Korkovelos, Bryan Bonsuk Koo, Kabir Malik
P169313	Global	Assessing and Mapping Renewable Energy Resources, Second Edition	Energy Sector Management Assistance Program

ISBN, PUB NO., OR PROJECT NO.	COUNTRY/ REGION	TITLE	AUTHOR/TTL
P171194 Technical Report 016/21	Global	Coal Plant Repurposing for Ageing Coal Fleets in Developing Countries	Gireesh Shrimali and Abhinav Jindal
Publications	Global	Cooling Facility: Environmental and Social Sustainability Framework	ESMAP
P175150	Global	Designing Public Funding Mechanisms in the Off-Grid Solar Sector (English)	Rysankova, Dana; Miller, Charlie
ADMIN	Global	Energy Sector Management Assistance Program (ESMAP) Annual Report 2021	Lucie Blyth
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