

ANNEX C

COMPLETED, NEW, AND ONGOING ACTIVITIES, FY2017

Note: Activities may be receiving funding from multiple Thematic Areas.

EA = Energy Access

EE = Energy Efficiency

GPM = Governance,
Planning, & Markets

O = Other

RE = Renewable Energy

SR = Subsidy Reform

Table C.1| ESMAP Completed Activities, FY2017

COUNTRY/REGION	COMPLETED ACTIVITY	PRIORITY (if applicable)
ENERGY ACCESS		
AFR	AFREA II	Lighting Global
China	Clean Stoves Initiative in Supporting Hebei Pollution Prevention and Control Program	Efficient and Clean Cooking & Heating
Lao PDR	Background Analysis and Design of Health Impact Results-based Financing Mechanism for Clean Stove Initiative	Efficient and Clean Cooking & Heating
ENERGY EFFICIENCY		
Bangladesh	Open Accessibility Planning for Integrated and Inclusive Transport in Dhaka	Efficient City Services
Bangladesh	Energy Efficiency Improvement Program in Industries	Efficient City Services
China	Developing an Innovative Energy Efficiency Financing Mechanism in China	Efficient City Services
China	Green Logistics for Chinese Municipalities	Efficient City Services
China	Energy Saving Management Action Plan for Water and Wastewater Utilities in Guilin	Efficient City Services
EAP	Inclusive Green Growth for East Asia & Pacific Region Cities	Efficient City Services
EAP	Green Transport ICT	Efficient City Services
Global	Data Analytics for Intelligent Energy Systems	Efficient City Services
Global	Capacity Building	Efficient City Services
India	Efficient & Sustainable City Bus Services: Capacity Building Program in Fuel Efficiency	Efficient City Services
Kyrgyz Republic	Urban Development Project	Efficient City Services
Kyrgyz Republic	Efficiency Improvements of the District Heating System in the Kyrgyz Republic	Efficient City Services
LCR	Latin America & Caribbean Region Urban Energy Efficiency	Efficient City Services
LCR	Achieving Energy Efficient Transport in Cities in Latin America	Efficient City Services
Mexico	Municipal Energy Efficiency Project	Efficient City Services
Mexico	International Conference on Energy Efficiency in	Efficient City Services

	Cities ^{GPM}	
South Asia	Scaling Up Energy Efficiency and DSM Business Line in South Asia	Efficient City Services
Tanzania	Dar es Salaam City Water and Sewerage Services Energy Efficiency Review	Efficient City Services
Tanzania	Cycle Mapping for Improved Urban Mobility	Efficient City Services
GOVERNANCE, PLANNING, & MARKETS		
AFR	AFREA II: New Models to Scale Up Power Generation Investments in Africa	
AFR	AFREA II: Power and Agriculture in Sub-Saharan Africa	
AFR	Uganda-DRC 220kV Interconnector	
AFR	AFREA II: African Rural Electrification Concession	
AFR	Cost Review of Transmission Development in Africa	
AFR	Regional Study on the Performance of Distribution Utilities in Sub-Saharan Africa	
Bangladesh	Analysis of Economy-wide Impact of Energy Sector Reforms in Bangladesh	
Bangladesh	Policy and System Requirements for Scaling Up Power Trade in Bangladesh	
Bosnia & Herzegovina	Power Sector Note	
Brazil	Interface between Carbon and Energy Pricing Policy	
China	Developing Low-Carbon Strategy for Shenzhen	
ECA	Energy Efficiency Financing Option Papers for Kosovo, Turkey, and Georgia	
ECA	Directions for the Energy Sector in the Western Balkans ^{SR}	
Egypt, Arab Republic of	Gas Regulator Capacity Building	
Gabon	AFREA II: Rural Electrification and Water Services Sustainability Mechanism	
Global	Gender Equality and Development e-Course	
Global	Gender and Large Energy Infrastructure	
Global	Thirsty Energy: The Case of China	
Indonesia	Indonesia-Philippines South-South Knowledge Exchange Event	
Jordan	Energy Sector Assistance: NEPCO Restructuring, Procurement Review, LNG Capacity Building	
Kyrgyz Republic	Improving Enabling Environment for Small Hydropower in Kyrgyzstan	
LCR	Energizing Agriculture: Enhancing Efficiency in Agriculture in Latin America & Caribbean Region	
LCR	Challenges and Opportunities in the Energy Sector	
Lebanon	Assessment of the Legal and Administrative Barriers for the Development of the National Hydropower Market for Lebanon	
Madagascar	Support for the Development of Small Hydropower IPP	
Mali	AFREA II: Support to Energy Services Access	
Mexico	Supporting a Low Carbon Economy	

MNA	Benchmarking Electricity Utilities Performance in the Middle East & North Africa Region
Moldova	Power System Interconnection Analysis
Myanmar	Economic Cost of Natural Gas Study
Nigeria	AFREA II: Electrification Access Program Development
Nigeria	Unlocking Nigeria's Potential for Gas
South Sudan	South Sudan Energy Sector Technical Assistance Project
Tunisia	Strategic Development of Energy Sector in Tunisia, Phase II
Tunisia	Tunisia-Italy Electricity Transmission Interconnection Project
Turkey	Sustainability of Electricity Distribution Companies
Ukraine	Ukraine JIT: Advice to the Design of Energy Efficiency Fund
Uzbekistan	Impact of Energy Subsidies: Way Forward
Uzbekistan	Power Sector Planning Study
Vanuatu	Energy Sector Development Project
Vietnam	Equitization and Divestiture Strategy for the Vietnam's Electricity Generation Companies
Vietnam	Electricity Market Simulation Model of Vietnam
Vietnam	Roadmap for Natural Gas Market Development
West Bank & Gaza	Securing Energy for Development in West Bank & Gaza

RENEWABLE ENERGY

Guatemala	Guatemala Wind and Solar Integration Study	Integrating Variable Renewables
Indonesia	Renewable Energy Resource Mapping and Geospatial Planning: Indonesia	Resource Assessment & Mapping
LCR	Scaling Up Distributed Generation with Roof-top Solar PV	Integrating Variable Renewables
Lebanon	Wind Energy Resource Mapping: Lebanon	Resource Assessment & Mapping
Madagascar	Renewable Energy Resource Mapping and Geospatial Planning: Madagascar	Resource Assessment & Mapping
Malawi	Renewable Energy Resource Mapping and Geospatial Planning: Malawi	Resource Assessment & Mapping
Seychelles	Improving Electricity Planning	Integrating Variable Renewables
Sri Lanka	Capacity Building for Planning and Variable Renewable Energy Grid Integration	Integrating Variable Renewables

SUBSIDY REFORM

China	Urumqi District Heating Pricing Technical Assistance
China	Fossil Fuel Subsidy Study
Egypt, Arab Republic of	Subsidy Reforms TA from the Energy Subsidy Reform and Delivery Technical Assistance Facility, Phase II
Global	Enhancing Knowledge Sharing on Subsidy Reforms: Case Studies on Political Economy of Energy Subsidy Reform
Iraq	Energy Subsidies and Tariff Reform
LCR	Energy Subsidy Reform in Central America
Ukraine	Moving Forward Energy Tariffs Reforms

Western Balkans Supporting Energy Subsidy Reform in Southeast Europe

Table C.2| ESMAP New Activities, FY2017

COUNTRY/REGION	NEW ACTIVITY	PRIORITY (if applicable)
ENERGY ACCESS		
AFR	Africa Clean Cooking Energy Solutions (ACCES), Phase II	Efficient and Clean Cooking & Heating
AFR	Increased Electricity Access Support (AGAT) ^{GPM}	Mini Grid Global Facility SE4ALL TA
Argentina	Metropolitan Buenos Aires: Efficient and Sustainable Urban Settlements ^{EE}	Energy for the Urban Poor Efficient & Sustainable Bldgs Efficient City Services
Armenia	Support to PSRC with Review of Investment Plans ^{GPM}	Energy for the Urban Poor
Colombia	Colombia: Energy Sector Engagement	Lighting Global SEforALL TA
Congo, Republic of	Power Sector Reform and Electricity Access Support ^{GPM, SR}	SEforALL TA
ECA	Clean and Efficient Heating in Kyrgyzstan and Tajikistan	Efficient and Clean Cooking & Heating
Kenya	Kenya Geospatial Plan ^{GPM, RE}	Mini Grid Global Facility Integrating Variable Renewables Resource Assessment & Mapping Solar Support Program
Moldova	Just-in-time Support to Streamlining of District Heating Regulatory Methodologies and Processes ^{EE, GPM}	Efficient and Clean Cooking & Heating Energy for the Urban Poor Efficient City Services
Nepal	Project Preparation for Business Models for Private Sector-Led Mini-Grid Energy Access Project	Mini Grid Global Facility
Niger	PV Hybridization of Diesel-based Isolated Grids ^{GPM, RE}	Mini Grid Global Facility Solar Support Program
Niger	Support to Innovative Financing Mechanisms and Business Models to Increase Access through Solar Technologies	Lighting Global Mini Grid Global Facility
Ukraine	Technical Assistance for the Ukraine District Heating Energy Efficiency Project ^{EE}	Efficient and Clean Cooking & Heating Efficient & Sustainable Bldgs Efficient City Services
ENERGY EFFICIENCY		
Albania	Project for Integrated Urban and Tourism Development	Efficient City Services
Brazil	BRAZEEC Project Preparation ^{RE}	Efficient & Sustainable Bldgs Efficient City Services Integrating Variable Renewables Solar Support Program
Central America	Towards an Effective Implementation of Energy Efficiency Initiatives in Panama	Efficient & Sustainable Bldgs Efficient City Services
China	Supporting Project Preparation of Shanghai	Efficient City Services

	Urbanization Financing and Innovation Project	
China	Energy Saving Management Action Plan for Water Utilities in Liaoning	Efficient City Services
China	Supporting Implementation of New Urbanization Strategy in Chongqing	Efficient City Services
Cote d'Ivoire	Urban Density and Quality Buildings for an Energy Efficient Abidjan	Efficient & Sustainable Bldgs
ECA	Financing of Public Buildings in the Western Balkans GPM	Efficient & Sustainable Bldgs
ECA	Energy, Gender, and Social Inclusion in the ECA Region	Efficient City Services
Global	Scaling-Up Energy Efficiency Investments in Water Utilities	Efficient City Services
Global	Efficient and Sustainable Buildings	Efficient & Sustainable Bldgs
India	Strategic Options for Energy Efficiency Scale-Up ^{GMP}	Efficient & Sustainable Bldgs
Kazakhstan	Energy Efficiency Transformation in Astana and Almaty ^{GPM}	Efficient & Sustainable Bldgs Efficient City Services
Kyrgyz Republic	Energy Efficiency in Public Buildings in Kyrgyzstan	Efficient & Sustainable Bldgs
Mongolia	Ulaanbaatar Efficient Heating Project	Efficient & Sustainable Bldgs
Philippines	Improving Energy Efficiency in Public Buildings	Efficient & Sustainable Bldgs
Ukraine	Sustainable Urban Mobility for Odessa	Efficient City Services
Ukraine	District Heating Sector Transition ^{GPM}	Efficient City Services
Ukraine	Energy Efficiency Fund Development Technical Assistance	Efficient & Sustainable Bldgs
Vietnam	Energy Efficiency for Industrial Enterprises GCF Proposal	Efficient City Services

GOVERNANCE, MARKETS & PLANNING

Afghanistan	Energy Study	
AFR	Lighting Africa	
AFR	AFREA II: Gender and Energy Program	
AFR	Africa Energy Strategy	
AFR	Low Carbon Options for Small Power Systems in Sub-Saharan Africa ^{RE}	Integrating Variable Renewables
Albania	Power Exchange Implementation Support in Albania	
Algeria	Algeria Vision 2035: Energy Efficiency	
Brazil	Smartening the Grid to Fix Broken Utilities: Sharing the Experience of the Large Eletrobras Project	
Brazil	Revisiting Power and Gas Sector Reforms in Brazil ^{RE, SR}	Integrating Variable Renewables
Caribbean	Caribbean Energy Sector Strategic Support	
Congo, Democratic Republic of	Power Sector Report and Policy Dialogue	
EAP	East Asia & Pacific Region Gender and Energy Facility	
India	Support to 24x7 Scheme for Jharkhand ^{RE}	Integrating Variable Renewables
Indonesia	Development and Pilot of Solar Auction Roadmap Workshop ^{RE}	Solar Support Program
Iraq	Power Sector Planning and Operations Improvement	
Kosovo	District Heating Sector Assessment	
LCR	Energy Sector Policy Notes for LC6 Andean Countries	
LCR	Energy Markets: Challenges and Opportunities,	Integrating Variable Renewables

	Phase II ^{RE}	
LCR	Latin America & Caribbean Region Energy and Gender Program	
Malawi	Energy Policy Review and Sector Engagement Strategy ^O	
MNA	Increasing Pan-Arab Regional Energy Trade	
Myanmar	Support for Implementation of the Sustainable Energy for All and National Electrification Program in Myanmar	
Papua New Guinea	National Policy on Benefit Sharing in Hydropower Projects	
São Tomé & Príncipe	Strengthening Energy Monitoring/Planning	
SAR	Analyzing the Benefits of Improving Generation Efficiency of Power Plants in Bangladesh and Pakistan	
Solomon Islands	Tina River Hydropower Development Project: Benefit Sharing and Technical Quality Assurance	
Uganda	AFREA II: Uganda Clean Cooking Supply Chain Expansion	
Ukraine	Market Assessment of Small Hydro Rehabilitation in Ukraine	
Ukraine	Advancing Energy Tariff and Subsidy Reform Implementation ^{SR}	
Uzbekistan	Power System Dispatch and Renewable Energy Integration ^{RE}	Integrating Variable Renewables

RENEWABLE ENERGY

AFR	Solar Resource Mapping: East Africa	Resource Assessment & Mapping
Armenia	Variable Renewable Energy Grid Integration Support	Solar Support Program
Bangladesh	Renewable Energy Resource Mapping: Bangladesh	Resource Assessment & Mapping
Cabo Verde	Distributed Renewable Energy	Integrating Variable Renewables
Ethiopia	Renewable Energy Resource Mapping	Resource Assessment & Mapping
Global	State of Electricity Access Report (SEAR) Dissemination	Integrating Variable Renewables
Global	Global Solar Atlas	Solar Support Program
Global	ESMAP Solar Support Program	Solar Support Program
Global	Global Wind Atlas	
Global	Effectiveness of Public Finance in Attracting Private Capital for Grid Connected Solar Projects	Solar Support Program
Haiti	Solar and Variable Renewable Energy Integration	Integrating Variable Renewables Solar Support Program
Lao PDR	Renewable Energy Resource Mapping: Lao PDR	Resource Assessment & Mapping
Mongolia	Renewable Energy Integration for Mongolia's Western Energy System	Integrating Variable Renewables
Serbia	Power System Study	Integrating Variable Renewables
Turkey	Geothermal Development Project (co-hosting of the 2 nd IGC Türkiye Geothermal Congress 2017) ^{GPM, RE}	Global Geothermal Development Solar Support Program
Vietnam	Scaling-Up Solar PV in Vietnam	Solar Support Program
Western Africa	Variable Renewable Integration in the West Africa Power Pool Grid	Integrating Variable Renewables

SEforALL

Global	Multi-Tier Framework Enterprise Survey
Global	Sustainable Energy for All Global Tracking Framework, 2017

SUBSIDY REFORM

Belarus	Heat Tariff Reform and Social Impact Mitigation Study
Kyrgyz Republic	Energy Sector Reforms in Kyrgyz Republic
Myanmar	Support for Sustainable and Socially Inclusive Electricity Pricing and Reform
Nepal	Energy Tariff Reform in Nepal

Table C.3| ESMAP Ongoing Activities, FY2017

COUNTRY/REGION	NEW ACTIVITY	PRIORITY (if applicable)
ENERGY ACCESS		
AFR	AFREA II: Africa Electrification Initiative	Mini Grid Global Facility
Congo, Democratic Republic of	AFREA II: Scaling Up Electricity Access, DRC	Energy for the Urban Poor SE4ALL TA
Global	Global Facility for Promotion of Green Mini Grids	Mini Grid Global Facility
Global	Efficient, Clean Cooking and Heating (ECCH) Program	Efficient and Clean Cooking & Heating
Indonesia	Supervision and Preparation of Scale-Up of Indonesia Cook Stove Initiative Pilot	Efficient and Clean Cooking & Heating
Kyrgyz Republic	Kyrgyzstan Improving Efficiency of Individual Heating Solutions	Efficient and Clean Cooking & Heating
Lao People's Democratic Republic	Lao PDR Cook Stove Initiative	Efficient and Clean Cooking & Heating
LCR	Central America Clean Cooking Initiative	Efficient and Clean Cooking & Heating SE4ALL TA
Liberia	Liberia Renewable Energy Access Project	Mini Grid Global Facility
Mali	Rural Electrification Hybrid System: CEMG Initiative	Mini Grid Global Facility
SAR	Developing Improved Solutions for Cooking	SE4ALL TA
ENERGY EFFICIENCY		
Egypt, Arab Republic of	Towards Energy Efficiency Implementation in Cities in Egypt	Efficient City Services
Global	City Energy Efficiency Transformation Initiative: Low Carbon Growth for Cities through Energy Efficiency	Efficient City Services
Global	Exploring the Potential for the Application of Solar PV Pumping Technologies in the Water Supply Sector: Utility Energy Efficiency Business Model	Efficient City Services
Global	EDGE Green Building Market Transformation Program	Efficient & Sustainable Bldgs
Global	Capacity Building for Leaders in Energy Efficient Urban Transport Planning, Phase II	Efficient City Services
LCR	Energy Efficient Cities Program	Efficient City Services

Lebanon	Promoting Energy Efficiency in Bus Rapid Transit	Efficient City Services
Mexico	Sustainable Land Use for Energy Efficient Cities	Efficient City Services
Morocco	City Energy Efficiency ^{GPM}	Efficient City Services
Uzbekistan	Towards Energy Efficient Resilient Cities in Uzbekistan	Efficient City Services

GOVERNANCE, MARKETS & PLANNING

AFR	AFREA II: Africa Electrification Initiative	
AFR	Increased Electricity Access Support Program	
AFR	Role of Subsidies: Financing Electricity Supply and Providing Affordable Access in Sub-Saharan Africa	
Africa	AFREA II: Africa Clean Cooking Energy Solutions (ACCES)	
Africa	AFREA II: Gender and Energy Program	
Belize	Energy Resilience for Climate Adapt	
Bolivia	International Workshop on Deploying New Solar Technologies in Isolated Rural Areas: Supporting their Adoption in the Latin America & Caribbean Region	
Botswana	Renewable Energy and Energy Efficiency Strategies	
China	Promotion of Power Sector Reform to Unlock Renewable Energy Development	
Cote d'Ivoire	Electricity Access Scale Up Program	
Ethiopia	Energy Sector Review and Strategy	
Global	Rethinking Power Sector Reform	
India	North East Region Assessment of Transmission & Distribution Projects Impact on Access to Electricity	
India	Support to Electricity Distribution System Strengthening and Modernization in Andhra Pradesh	
Indonesia	Support to the Integrated Catchment Management-informed project preparation of Matenggeng Pumped Storage Hydro-Electrical Project	
Indonesia	Local Benefit Sharing for Hydropower Projects in Indonesia	
Kenya	Implementation Roadmap of Energy Bill	
Mekong	Greater Mekong Sub-Region Power Market Development Programmatic Technical Assistance	
Myanmar	National Electrification Project: Inclusive Community Participation	
Nepal	Conflict Management and Prevention for Energy Projects	
Serbia	Serbia Natural Gas Sector Analysis ^{RE}	Global Geothermal Development
Somalia	AFREA II: Somalia Power Sector Development Master Plan	
Tuvalu	Energy Sector Development Project	
Ukraine	Facilitating Electricity and Gas Market Reforms in Ukraine	
Vietnam	Support the MOIT to Finalize the Design of Next Phase of the Vietnam National Energy Efficiency Program, 2016-20	

OTHER

Global	Capacity Building for Leaders in Energy Efficient	
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Urban Transport Planning, Phase II

RENEWABLE ENERGY

Cabo Verde	Distributed Solar Energy Systems Project	Integrating Variable Renewables
Chile	Technical Assistance for Sustainable Geothermal Development in Chile	Global Geothermal Development
Djibouti	Geothermal Exploration Project	Global Geothermal Development
Ethiopia	Renewable Energy Resource Mapping and Geospatial Planning: Ethiopia	Resource Assessment & Mapping
Ethiopia	Energy Sector Review and Strategy	Integrating Variable Renewables
Fiji	Pre-Feasibility Study and Roadmap for Development Geothermal Power in the Republic of Fiji	Global Geothermal Development
Global	ESMAP Variable Renewable Energy Grid Integration Support Program	Integrating Variable Renewables
India	Solar Parks: Grid Integration Study and Capacity Building	Integrating Variable Renewables
Indonesia	Capacity Strengthening and Risk Mitigation for Geothermal Development	Global Geothermal Development
Kenya	Geothermal Strategy	Global Geothermal Development
LCR	Technical Assistance for Geothermal Project Preparation in Latin America & Caribbean Region	Global Geothermal Development
Maldives	Renewable Energy Resource Mapping and Geospatial Planning: Maldives	Resource Assessment & Mapping
Nepal	Renewable Energy Resource Mapping: Nepal	Resource Assessment & Mapping
Pacific Islands	Variable Renewable Energy Grid Integration for Pacific Islands Sustainable Energy Industry Development Project	Integrating Variable Renewables
Pakistan	Renewable Energy Resource Mapping and Geospatial Planning: Pakistan	Resource Assessment & Mapping
Papua New Guinea	Renewable Energy Resource Mapping and Geospatial Planning: Papua New Guinea	Resource Assessment & Mapping
Tanzania	Renewable Energy Resource Mapping and Geospatial Planning: Tanzania	Resource Assessment & Mapping
Vietnam	Renewable Energy Resource Mapping and Geospatial Planning: Vietnam	Resource Assessment & Mapping
Zambia	Renewable Energy Resource Mapping Initiative: Zambia	Resource Assessment & Mapping

SEforALL

Global	Global Rollout of Readiness for Investment in Sustainable Energy (RISE)
Global	Global Survey for Multi-Tier Energy Access Tracking

SUBSIDY REFORM

Algeria	Energy Subsidies and Price Reform in Algeria
Armenia	Improvement of Power-Tariff Setting and Addressing of Social Impacts of Tariff Increases
Azerbaijan	Poverty and Social Impacts of Improving Fiscal Sustainability and Quality of Power Distribution in Azerbaijan
Egypt, Arab Republic of	Programmatic Energy Reforms in Egypt
Ethiopia	Energy Sector Review and Strategy

Global	Energy Subsidy Reform Knowledge Events
Global	Energy Subsidy Reform Online Community
Global	Energy Subsidy Reform Assessment Framework (ESRAF)
Global	Energy Subsidy Reform Knowledge Products
Haiti	Distributional Analyses and Reform Options for Petroleum Price Reforms in Haiti, Phase II
Madagascar	Pump Fuel Price Subsidy Removal Technical Assistance
MNA	Support to Middle East & North Africa Countries Preparedness of Social Safety Nets for Subsidy Reform: Algeria, Djibouti, Jordan, Morocco, Tunisia, and Yemen
Ukraine	Advancing Energy Tariff and Subsidy Reforms
Vietnam	Electricity Vietnam Communications Strategy for Tariff Reform
Vietnam	Energy Subsidy Reform, Phase I