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USAID ENERGY PROGRAM

# USAID ENERGY PROGRAM TRAINING PLAN

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September 4, 2019

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# DATA

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## ACRONYMS

<b>DSO</b>	Distribution System Operator
<b>EnCT</b>	Energy Community Treaty
<b>ESCO</b>	Electricity Market Operator
<b>EU</b>	European Union
<b>GEDF</b>	Georgian Energy Development Fund
<b>GGSC</b>	Georgian Gas Storage Company
<b>GGTC</b>	Georgian Gas Transportation Company
<b>GNERC</b>	Georgian National Energy and Water Supply Regulatory Commission
<b>GoG</b>	Government of Georgia
<b>GOGC</b>	Georgian Oil and Gas Corporation
<b>GREDA</b>	Georgian Renewable Energy Development Association
<b>GSE</b>	Georgian State Electrosystem
<b>HPP</b>	Hydro Power Plant
<b>MoESD</b>	Ministry of Economy and Sustainable Development of Georgia
<b>MoF</b>	Ministry of Finance of Georgia
<b>MoLHSA</b>	Ministry of Internally Displaced Persons from the Occupied Territories, Labour, Health and Social Affairs of Georgia
<b>MRDI</b>	Ministry of Regional Development and Infrastructure of Georgia
<b>NEA</b>	National Environmental Agency
<b>QWF</b>	Qartli Wind Farm
<b>RIA</b>	Regulatory Impact Assessment
<b>SoLR</b>	Supplier of Last Resort
<b>TSO</b>	Transmission System Operator
<b>USAID</b>	United States Agency for International Development
<b>USoA</b>	Uniform System of Accounts
<b>USS</b>	Universal Service Supplier
<b>VRE</b>	Variable Renewable Energy
<b>WG</b>	Working Group

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## INTRODUCTION

In October 2016, Georgia signed the Energy Community Treaty (EnCT) signaling the country's commitment to direct future energy planning and market development towards approximation with the European Union (EU). This step commits Georgia to enhancing the security of energy supply by promoting the development of relevant infrastructure, increasing market integration and gradual regulatory approximation towards key elements of the EnCT, and promoting the use of renewable energy sources.

USAID Energy Program activities focus on enhancing Georgia's energy security through improved legal and regulatory framework and increased investments in the energy sector. The ultimate expected outcome of this project is an energy legal and regulatory framework that complies with the European requirements and encourages competitive energy trade and private sector investments. USAID Energy Program will build the capacity of the Government of Georgia (GoG) and relevant institutions to evaluate the fiscal and long-term security impacts of regulatory changes, promote energy investment, primarily in Variable Renewable Energy (VRE) development. USAID Energy Program will provide assistance to the local relevant institutions to perform technical and other types of analyses and will providing adequate trainings to counterparts.

USAID Energy Program activities will focus on supporting the development of competitive energy markets that promote renewable energy development and the improvement of energy security. A major part of the technical assistance to the sector is capacity building within Task 2 of the Program covering the topics in the other four Program tasks.

Appendix 1 includes training and other capacity building events to be provided by the USAID Energy Program during the second program year.

USAID Energy Program will be involved in full cycle of planning, implementation and evaluation of study tours and joint Working Groups (WGs) to achieve planned results. Close collaboration with stakeholders during planning process is important to evaluate their needs and estimate possible outcome from study tours or joint WGs. Therefore, respective task leads or subject matter experts of USAID Energy Program will accompany Georgian stakeholders to study tours or joint WG meetings. The role of USAID Energy Program's representatives will be to facilitate discussions, keep agenda in line with the objectives of a study tour/working group meeting, assure common understanding of concepts among different stakeholders, facilitate networking and planning of follow-up activities. We acknowledge that not all presented concepts will be absorbed by the participants immediately, therefore the Program's representative role is to observe such circumstances and address them in an effective manner. The lessons learned from study tours will contribute to design tailor-made capacity building activities that meet immediate needs of stakeholders. All costs related to participation of USAID Energy Program team members in study tours and/or joint WGs will be funded from the Total Direct cost line item, Section B.4, Budget and Payment of the Task Order.

In addition to training plan and workshops USAID Energy Program plans to carry out 4 international Study Tours and support joint WGs with Armenia and Turkish energy stakeholders. The respective plan is provided in Appendix 2.

# APPENDIX 1

## USAID ENERGY PROGRAM ANNUAL CAPACITY BUILDING AND TRAINING PLAN FOR YEAR 2

<b>(TASK 1) ENERGY MARKET DEVELOPMENT</b>					
<b>Trainer</b>	<b>Training Title</b>	<b>Description</b>	<b>Timeline/Actual Date</b>	<b>Target Organizations</b>	<b>Sector</b>
Tamar Jaliashvili	Electricity and Gas Markets Transition Plans	<b>Joint Workshop on Vulnerable Consumers</b> – Support / organize joint workshop of the Ministry of Economy and Sustainable Development of Georgia (MoESD) and Ministry of Internally Displaced Persons from the Occupied Territories, Labour, Health and Social Affairs of Georgia (MoLHSA) related to identification of the state policy on vulnerable consumers including gender impact	17 May 2019	MoESD, MoLHSA	Electricity/Gas
MTX Commodities LTD / Deloitte Experts	Bilateral Over-the-Counter Energy (Electricity and Gas) Trading Training	<b>Key aspects of competitive market operators, gas and electricity trading on bilateral and organized markets</b> – the 3 days training aims event is to acquaint mid-level professionals with the workings of day-to-day buying and selling of gas and electricity in Georgia. Participants will experience simulated trading to improve and develop trading skills	March 26-28, 2019	MoESD, Georgian National Energy and Water Supply Regulatory Commission (GNERC), Georgian State Electrosystem (GSE), Electricity Market Operator (ESCO), Georgian Gas Transportation Company (GGTC), Georgian Oil and Gas Corporation (GOGC), Georgian Energy Development Fund (GEDF), Electricity and Gas Market Participants	Electricity/Gas
Valeriy Vlatchkov	Supplier of Last Resort (SoLR) Tariff Methodology	<b>SoLR Tariff Methodology</b> – The Law for Georgia provides the legal basis upon which the GoG may appoint a SoLR for electricity, based on an open tendering procedure and for a defined period of time. The workshop will train the participants from MoESD and GNERC on the aspects of methodology for calculation of electricity selling tariffs from the SoLR	24 January 2019	GNERC	Electricity
Valeriy Vlatchkov	Universal Service Supplier (USS) Tariff Methodology	<b>USS Tariff Methodology</b> – The purpose of the training is to train the GNERC on principles of the methodology for calculation of electricity supply tariffs from the USS. Service provided by USS may also involve making provisions so that service is available to vulnerable customers and in particular the customers with a disability	30 January 2019	GNERC	Electricity
Valeriy Vlatchkov	Market Operator Service Tariff Methodology	<b>Market Operator Tariff Methodology</b> – The training provides a knowledge and understanding the methodology for calculation of the tariffs from the Electricity Market Operator. The training is oriented to policy makers MoESD and GNERC	6 February 2019	GNERC	Electricity
Valeriy Vlatchkov	Third Party Open Access	<b>Third Party Open Access</b> constitutes the key for the liberalization of the energy market in Georgia. USAID Energy Program provides training and technical assistance to Georgian institutions to understand and implement in practice the third-party open access as a crucial element of organization of access to the energy infrastructure system	13 March 2019	GNERC	Energy
Gagik Hovhannisyan	Uniform System of Accounts (USoA)	<b>Training on Regulatory Chart of Accounts &amp; Instructions</b> – To increase the capacity of GNERC and rate regulated gas distribution	20 May 2019	GNERC, Gas Companies	Gas

		and transmission companies with regard the tariff setting and record keeping			
<b>Davit Mujirishvili, Gagik Hovhannisyan</b>	<b>USoA</b>	<b>Fixed Assets &amp; Impairment &amp; Lease</b> – To increase the capacity of GNERC and rate regulated gas distribution and transmission companies with regard the tariff setting and record keeping of revenues and expenses	22 May 2019	GNERC, Gas Companies	Gas
<b>Davit Mujirishvili, Gagik Hovhannisyan</b>	<b>USoA</b>	<b>Revenue, Cost and Expenses &amp; Grands and Contribution</b> – To increase the capacity of GNERC on tariff setting and increase capacity of rate regulated gas distribution and transmission companies with regard the Fixed Asset record keeping	23 May 2019	GNERC, Gas Companies	Gas
<b>Gagik Hovhannisyan / Neka Danelia</b>	<b>USoA</b>	<b>Training on Reporting Forms and Instructions for filling reporting forms</b> – To increase the capacity of GNERC on tariff setting and increase capacity of rate regulated gas distribution and transmission companies with regard the reporting to regulator	24 May 2019	GNERC, Gas Companies	Gas
<b>(TASK 2) INSTITUTIONAL STRENGTHENING AND CAPACITY BUILDING</b>					
<b>Trainer</b>	<b>Training Title</b>	<b>Description</b>	<b>Timeline/Actual Date</b>	<b>Target Organizations</b>	<b>Sector</b>
<b>Norberto Pignatti</b>	<b>Regulatory Impact Assessment (RIA) Training</b>	<b>Energy RIA Training</b> – USAID Energy Program provides technical assistance to selected institutions to perform RIAs	October, 2018	MoESD	Energy
<b>Norberto Pignatti</b>	<b>RIA Training</b>	<b>RIA Training focusing on the Impact of a Draft Energy Law and Market Opening on the Vulnerable Customers</b> – USAID Energy Program provides technical assistance to selected institutions to perform RIAs	October, 2018	MoESD, GNERC, other selected institutions	Energy
<b>Valeriy Vlatchkov</b>	<b>Training on Policies and Regulation of Energy Industry (Pre-RIA training)</b>	<b>Training on Policies and Regulation of Energy Industry (Pre-RIA training)</b> – To increase awareness on the energy sector functioning among the MoESD staff as a prerequisite for RIA trainings	October, 2018	MoESD	Energy
<b>Daniel Potash / Kakhi Nemsadze</b>	<b>RIA Training</b>	<b>Conduct RIA on Draft Energy Law Focusing on Electricity Sector</b> – USAID Energy Program provides technical assistance to local institutions to perform RIAs	04 March 2019	MoESD, GNERC, other selected institutions	Electricity
<b>Gergana Stoitcheva / Ivane Pirveli</b>	<b>RIA Training</b>	<b>Conduct RIA on Draft Energy Law Focusing on Natural Gas Sector</b> – USAID Energy Program provides technical assistance to local institutions to perform RIAs	March, 2019	MoESD, GNERC, other selected institutions	Gas
<b>Ivane Pirveli</b>	<b>RIA Training</b>	<b>Conduct RIA on Local Content Requirements for Renewable Energy Projects</b> – USAID Energy Program provides technical assistance to local institutions to perform RIAs	September 2019	MoESD, GNERC, other selected institutions	Energy
<b>Tamar Jaliashvili</b>	<b>RIA Training</b>	<b>Conduct RIA on the Socially Vulnerable Support Scheme</b> – USAID Energy Program provides technical assistance to local institutions to perform RIAs	September 2019	MoESD, MoLHSA, GNERC, Tbilisi City Hall, Ministry of Regional Development and Infrastructure of Georgia (MRDI)	Energy
<b>Eka Nadareishvili</b>	<b>Training for Media Representatives</b>	<b>Conduct Awareness Training</b> – USAID Energy Program jointly with Georgian Renewable Energy Development Association (GREDA) and GEDF will deliver Capacity building training on increasing awareness on the benefit of a competitive market among the selected media representatives	June 8-9, 2019	Media representatives	Media
<b>Daniel Potash / Masood Ahmad</b>	<b>Electricity Resource Adequacy</b>	<b>Workshop regarding electricity resources adequacy</b> in the scope of energy security WG meeting at the MoESD	24 June 2019	MoESD, GNERC, GSE, GDEF, ESCO, Ministry of Finance of Georgia (MoF); other institutions and donor organizations	Energy



Daniel Potash / Ivane Pirveli	RIA Training	<b>RIA on the Draft Law on Energy and Water Supply – USAID</b> Energy Program to organize two-day training for Georgian parliamentarians. The training aims at introducing the RIA study results and facilitating discussions among the energy experts and the government	July 15-16, 2019	Members of the Georgian Parliament	Energy
<b>(TASK 3) ENERGY INVESTMENT OPTIMIZATION</b>					
<b>Trainer</b>	<b>Training Title</b>	<b>Description</b>	<b>Timeline/Actual Date</b>	<b>Target Organizations</b>	<b>Sector</b>
Valeriy Vlatchkov / Nino Gvazava	Investor Advisory Group	<b>TSO Training</b> - Training on Recommendations for Transmission System Operator (TSO) and / or Distribution System Operator (DSO) in the process of grid access of new VRE generation / <b>VRE Projects</b> - Development of VRE projects in compliance with Environmental Legislation - workshop	22 May 2019	TSO, MoESD, DSOs	Electricity
Valeriy Vlatchkov	Investor Advisory Group	<b>VRE Training</b> - Training on improving the capability of the regulator to evaluate and develop quotas and methodologies for connection into the grid new VRE generation- workshop	May-June 2019	Regulator, Transmission MoESD, DSOs	Electricity
Nino Gvazava, Tamar Jaliashvili, Tamar Murtskhvaladze	Investor Advisory Group	Training workshop regarding Guide Book for potential energy project developers - workshop	19 April 2019	Potential investors, MoESD	Energy
<b>(TASK 4) GRID INTEGRATION OF VARIABLE ENERGY RESOURCES</b>					
<b>Trainer</b>	<b>Training Title</b>	<b>Description</b>	<b>Timeline/Actual Date</b>	<b>Target Organizations</b>	<b>Sector</b>
Valeriy Vlatchkov / Davit Mujirishvili	Capacity Building	<b>VRE Integration Training</b> - Provide training to relevant stakeholders on the recommended changes to legislation for VRE integration as well as for the Guide Book	September, 2019	GSE, National Environmental Agency (NEA), Qartli Wind Farm (QWF), Wind & Solar developers	Energy
Valeriy Vlatchkov / Davit Mujirishvili	Design and Implementation Plan for VRE forecasting	With Design and implementation plan for VRE forecasting GSE would have access to detailed information in advance for electricity produced from VRE power plants. USAID Energy Program provides training to GSE experts to better understanding the importance of VRE forecasting and the design of VRE forecasting system and the plan of its implementation	1 February 2019	GSE	Energy
Valeriy Vlatchkov / Davit Mujirishvili	Wind Power Forecasting for Power System Operations	<b>Training on Centralized VRE Forecasting –</b> Training on providing details regarding implementation of centralized wind power forecasting, data requirements, rules and responsible parties for delivery forecasted outputs to various platforms	3 July 2019	GSE	Electricity

## APPENDIX 2

### INTERNATIONAL STUDY TOURS AND JOINT WORKING GROUP MEETINGS FOR YEAR 2

STUDY TOURS AND WORKING GROUP MEETINGS				
Country	Description	Timeline/Actual Date	Target Organizations	Sector
Joint WG meetings in Georgia and Armenia (optional in Armenia)	<b>Regional Energy Cooperation - Facilitating Energy Cooperation with Armenia.</b> Support regional WGs with Armenia on competitive market reforms with appropriate donors and stakeholders from both countries. <i>3 meetings in Georgia and 2 meetings in Armenia (may take place in Armenia)</i>	October 2018 - September 2019	MoESD, GSE, GNERC, Armenian counterparts	Energy
Joint WG meetings in Georgia and in Turkey (optional in Turkey)	<b>Facilitating Energy Cooperation with Turkey.</b> Support regional WGs between Georgia and Turkey on energy cooperation. <i>2 meetings in Georgia; and 2 meetings in Turkey (may take place in Turkey)</i>	November 2018-September 2019	MoESD, GSE, GNERC, Turkish counterparts	Energy
<b>Enguri Hydro Power Plant (HPP) Performance Assessment.</b> Updated List of Critical and Timely Energy Security Issues	<b>Enguri HPP Performance Assessment.</b> The Program will conduct study assessing technical and civil engineering issues related to the dam, powerhouse, substation the operation and maintenance and plant management. <b>Updated List of Critical and Timely Energy Security Issues.</b> Follow-up workshop will be devoted to update list of energy security issues and to identify specific topics that will be addressed	06-12 December 2018	MoESD and other stakeholders	Electricity
Study tour to Romania (Electricity)	<b>Study tour to Romania.</b> Organize international study tour for USAID Energy Program counterparts, focusing on those countries and challenges that best match Georgia's priorities and align with USAID Energy Program's in-country training plan	30 September-6 October, 2018	MoESD, GNERC, others	Electricity
Study tour to Romania (Natural Gas)	<b>Study tour to Romania.</b> Organize international study tour for USAID Energy Program counterparts, focusing on those countries and challenges that best match Georgia's priorities and align with USAID Energy Program's in-country training plan	18-25 November, 2018	MoESD, GNERC, others	Gas
Study Tour to Austria	<b>Study Tour to Austria</b> will be organized for the Georgian gas sector stakeholders. The Study Tour aims at increasing institutional capacity of Georgian energy stakeholders in the areas related to gas market including balancing, exchange and ancillary services markets, imbalance charging, competition at wholesale and retail levels	September, 2019	GOGC, GNERC, Georgian Gas Storage Company (GGSC), GGTC	Gas
Study Tour to the Netherlands	<b>Study Tour to the Netherlands.</b> Organize participation of USAID Energy Program counterparts in Submarine Power Cable three-day training course provided by DNV GL	September, 2019	GSE	Energy
Study Tour to Lithuania	<b>Study Tour to Lithuania, also including Study Tour for Task 5 and Trip report.</b> Organize international study tour for USAID Energy Program counterparts, focusing on those countries and challenges that best match Georgia's priorities and align with USAID Energy Program's in-country training plan	16-19 December 2018	MoESD, GNERC, others	Energy

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