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ACTION PLAN TO ENSURE IMPLEMENTATION OF THE REPUBLIC OF ARMENIA ENERGY SECTOR DEVELOPMENT STRATEGIC PROGRAM

MARKET LIBERALIZATION AND ELECTRICITY TRADE (MLET) PROGRAM

January 2021

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ACTION PLAN

TO ENSURE IMPLEMENTATION OF THE REPUBLIC OF ARMENIA ENERGY SECTOR DEVELOPMENT STRATEGIC PROGRAM (TILL 2040)

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
I. Development of Electricity Generation Capacity							
I.1	Implementation of the ANPP Unit 2 Upgrade and Design Lifetime Extension until 2026	Efficient and safe operation of the ANPP Unit 2 until 2026	Clean electricity generation of about 2.9 billion kWh per year (as a result of upgrade, annual generation will increase 300 million kWh)	ANPP	ANRA	December 2022	
I.2	Preparation of the studies justifying safe operation of the ANPP after 2026	Justification of the efficient and safe operation of the ANPP Unit 2 until 2036	Development of safety and reliability measures with implementation timetable for ANPP operation until 2036	ANPP	ANRA	December 2022	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
1.3	Implementation of the ANPP Unit 2 Design Lifetime Extension for 2026 - 2036	Efficient and safe operation of the ANPP Unit 2 until 2036	Clean electricity generation of about 2.9 billion kWh per year.	ANPP	ANRA	December 2026	
1.4	Construction of New Nuclear Unit with Replacing Capacity on the ANPP Site after the Expiration of the ANPP Unit 2 Design Lifetime (including its extensions)	Timetable for the Unit decommissioning measures, including identification of realistic potential financing sources for construction of new unit.	Ensure energy independence, diversification of electricity generation.	RA MTAI	ANRA	December 2035	
1.5	Construction of Yerevan CCGT – 2 with installed capacity of about 254 MW	Highly efficient and clean electricity generation of about 2 billion kWh per year.	Increased reliability of electricity supply. Potential decrease of electricity price in the wholesale market.	RA MTAI	ANRA	July 2022	
1.6	Construction of Masrik -I Solar PV Plant with installed capacity of 55 MW	Increased energy independence through increased share of solar generation to 15% or 1000 MW by 2030.	Clean electricity generation of about 0.11 billion kWh per year.	RA MTAI	RA PSRC	July 2022	
1.7	Implementation of the projects for construction of five Solar PV Plants with total installed capacity of about 120 MW	Increased energy independence through increased share of solar generation to 15%	Clean electricity generation of about 0.192 billion kWh per year.	RA MTAI	RA PSRC	December 2024	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
		or 1000 MW by 2030.					
1.8	Construction of Ayg – 1 Solar PV Plant with installed capacity of 200 MW	Increased energy independence through increased share of solar generation to 15% or 1000 MW by 2030.	Clean electricity generation of about 0.32 billion kWh per year.	RA MTAI	RA PSRC	December 2023	
1.9	Construction of Ayg – 2 Solar PV Plant with installed capacity of 200 MW	Increased energy independence through increased share of solar generation to 15% or 1000 MW by 2030.	Clean electricity generation of about 0.32 billion kWh per year.	RA MTAI	RA PSRC	December 2024	
1.10	Construction of Small Solar Plants (up to 5 MW) with total installed capacity of 315 MW, out of which 15 MW capacity is for construction of community based solar plants.	Increased energy independence through increased share of solar generation to 15% or 1000 MW by 2030.	Clean electricity generation of about 0.326 billion kWh per year.	RA MTAI	RA PSRC	December 2029	
1.11	Construction of Autonomous Solar Power Plants increasing total installed capacity from 40 MW to 100 MW	Increased energy independence through increased share of solar generation to 15%	Clean electricity generation of about 0.16 billion kWh per year.	Private companies, individuals	RA PSRC	December 2023	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
		or 1000 MW by 2030.					
1.12	Construction of Small Hydropower Plants increasing total installed capacity from 380 MW to 430 MW	Increased energy independence	Increase in clean electricity generation of about 0.2 billion kWh per year.	Private company	RA PSRC	December 2023	
1.13	Construction of small and utility scale Wind Power Plants with capacity of up to 500 MW, if competitive tariff offers exist	Increased energy independence	Clean electricity generation	RA MTAI	RA PSRC	2025 - 2040	
1.14	Development of the Least Cost Energy Generation Plan, and its periodic review once in two years.	Planning of development of the electricity system's generating capacities	To provide the Government of Armenia with the visions of potential developments in the electricity system aiming at implementation of the measures in appropriate direction.	RA MTAI	ESO	December 2022	
2. Development of the High-Voltage Electricity Transmission Network							
2.1	Reconstruction of 110 kV Substation "Charentsavan-3"	Increased reliability of the electricity supply	Reduced emergency in the electricity system	HVEN	ESO	December 2023	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
2.2	Reconstruction of 110 kV Substation “Vanadzor-1”	Increased reliability of the electricity supply	Reduced emergency in the electricity system	HVEN	ESO	December 2021	
2.3	Reconstruction of 220 kV Substation “Zovuni”	Increased reliability of the electricity supply	Reduced emergency in the electricity system	HVEN	ESO	December 2024	
2.4	Reconstruction of 220 kV Switching point “Agarak – 2”	Increased reliability of the electricity supply	Reduced emergency in the electricity system	HVEN	ESO	December 2021	
2.5	Reconstruction of 220 kV Substation “Shinahayr”	Increased reliability of the electricity supply	Reduced emergency in the electricity system	HVEN	ESO	December 2022	
2.6	Reconstruction of 220 kV Substation “Ashnak”	Increased reliability of the electricity supply	Reduced emergency in the electricity system	HVEN	ESO	December 2020	
2.7	Reconstruction of 220 kV Substations “Ararat – 2”	Increased reliability of the electricity supply	Reduced emergency in the electricity system	HVEN	ESO	December 2024	
2.8	Reconstruction of 110 kV overhead transmission line “Larvar”	Increased reliability of the electricity supply	Reduced emergency in the electricity system	HVEN	ESO	December 2020	
2.9	Reconstruction of 110 kV overhead transmission line “Noyemberyan”	Increased reliability of the electricity supply	Reduced emergency in the electricity system	HVEN	ESO		
2.10	Reconstruction of 220/110/35 kV Substation “Litchk”	Increased reliability of the electricity supply	Reduced emergency in the electricity system	HVEN	ESO	December 2022	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
2.11	Assessment of the financing options and dates for investment project to reconstruct 220/110/10 kV Substation “Shahumyan-2”	Increased reliability of the electricity supply	Reduced emergency in the electricity system	HVEN	ESO	December 2030	
2.12	Assessment of the financing options and dates of investment project for reconstruction of 220/110/10 kV Substation “Marash”	Increased reliability of the electricity supply	Reduced emergency in the electricity system	HVEN	ESO	December 2030	
2.13	Assessment of the financing options and dates for investment project to reconstruct 220/110/35 kV Substation “Yeghegnadzor”	Increased reliability of the electricity supply	Reduced emergency in the electricity system	HVEN	ESO	December 2030	
2.14	Implementation of the second stage of SCADA communication and automation system investment program	Improved observability and control of the electricity system	Increased reliability and control of the electricity system	ESO		June 2022	
2.15	Implementation of the project for construction of Iran-Armenia 400 kV double-circuit overhead transmission line, and 400 kV Substation “Noravan”	Construction of the transmission line and substation will enable increase of the electricity exchange capacity between two countries’ energy systems from 350	Increased reliability and operation safety of the electricity system	RA MTAI	ESO, HVEN	December 2021	
	2.15.1 Construction of Iran-Armenia 400 kV double-circuit overhead transmission line						

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
	2.15.2 Construction of 400 kV Substation “Noravan”	MW to 1200 MW, meantime will improve reliability of parallel operation of the energy systems and enhance Armenia energy security.					
2.16	Caucasus Electricity Transmission Network (Armenia – Georgia power transmission line/substations)	Implementation of the project will result in significant promotion of the mutually beneficial regional cooperation in the energy sector, and in increase of transmission capacity of parallel operation with Georgia from the existing 200 MW to 350 MW.	Increased reliability and operation safety of the electricity system; transient flows, as well as favorable conditions for operational regimes are ensured.	RA MTAI	ESO, HVEN	December 2025	
	2.16.1 Construction of Substation “Ddmashen”						
	2.16.2 Construction of transmission lines						
	2.16.3 Construction of the Back-to Back HVDC station						
2.17	Development of the Ten-Year Transmission Network Development Plan, and its	Optimization of the Electricity System Transmission		ESO	EMO HVEN	December 2022	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
	periodic review once in two years.	Network Development			ENA (by agreement) ANPP Yerevan TPP Hrazdan TPP (by agreement)		
3. Development of the Electricity Distribution Network							
3.1	Implementation of the Investment Program of the Electric Networks of Armenia	As a result it is expected to reduce the average duration and frequency of the interruptions by 2028 to 55% of the 2021 baseline indicator, reduce maximum duration for an interruption by 50%, exclude long-term voltage deviations beyond the permissible limits for customers, reduce technical losses to 7.5% in 2021 and 6.4% in 2028,	Increased reliability and quality of customers electricity supply	ENA (by agreement)		December 2027	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
		exclude the risks of commercial losses, reduce the operational and maintenance cost, expand the distribution network, modernize completely the metering system, complete the works related to geo-informational elements of infrastructures (linear infrastructures), implement ISO standards for environmental, management system and management information system (MIS).					
3.2	Development of the Ten-Year Distribution Network Development Plan, and its periodic review once in two years.	Optimization of the Distribution system	Ensure electricity supply reliability and uninterrupted supply	ENA (by agreement)		December 2022	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
4. Electricity Market							
4.1	Pilot -Transition to the new Wholesale Electricity Market Model with application of the pilot version of the Market Management System Software without financial liabilities to market participants.	Verification of the proposed model for wholesale electricity and capacity market	Experience gained in competitive market, reveal potential deficiencies and make adjustments	EMO ESO	HVEN ENA (by agreement) ANPP Yerevan TPP Hrazdan 5 (by agreement) ContourGlobal (by agreement) IEC (by agreement) REPP	February 2021	
4.2	Full Transition to the new Wholesale Electricity Market Model	Actual introduction of the wholesale electricity and capacity market	Increased efficiency of the system, introduction of responsibility tools	EMO ESO	HVEN ENA ANPP Yerevan TPP Hrazdan 5 (by agreement) ContourGlobal (by agreement) IEC (by agreement) REPP	February 2022	
4.3	Development of regulations to increase efficiency of the current tariff policy	Ensure efficient tariff policy	Increased level of transparent tariff setting.	RA PSRC	RA MTAI EMO ESO	December 2022	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
	4.3.1 Feasibility for future use of night-time and day-time tariff currently established for electricity customers, establishment of monthly fixed service fee for electricity customers		Improved economic indicators of the system. Application of flexible tariff systems.		ENA (by agreement)		
	4.3.2 Introducing tariff for reactive energy for the electricity customers						
	4.3.3 Adoption of the Methodology and Procedure for Setting (Revision) of Tariffs in the Electricity System of Armenia						
4.4	Improvement of protection mechanisms for vulnerable customers	Ensure efficient tariff policy	Poverty reduction	RA MTAI	RA MLSA RA PSRC	December 2022	
4.5	Development of the draft law on making changes in the RoA Laws “on Energy” and “on Energy Saving and Renewable Energy”, according to which: <ul style="list-style-type: none"> I. the renewable energy power plants will be entitled to sell electricity in new electricity market exclusively under competitive terms 	Improvement of the legislative framework of the electricity market	Increased level of the commercial competition in the electricity market	RA MTAI	RA PSRC	July 2021	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
	<p>without providing a power purchase guarantee and signing Public Private Partnership agreement, as well as to generate and consume at different metering points of the power system.</p> <p>2. the current mechanisms for implementation of autonomous generators technical power flows will be improved, enabling the latter to generate and consume electricity at different metering points of the power system and to form groups involving residents and organizations</p>						
4.6	Development of the new RoA Law on Electricity taking into consideration international best practices, as well as issues revealed during implementation of Electricity Market Model and Electricity Trade Mechanisms.	Ensure regulatory and normative framework of the electricity and capacity liberalized market	Harmonization of the legal framework with application of the international practice	RA MTAI	RA PSRC	December 2022	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
5. Regional Energy Cooperation							
5.1	Participation in the EAEU common electricity market in accordance with the Action plan approved by the decree N 31 of Supreme Eurasian Economic Council dated December 20, 2019.	Development and adoption of the regulatory documents	Interstate flow access rules. Electricity interstate trading rules. Identification of interstate sections and distribution rules. Information exchange rules. Interstate networks development procedure.	RA MTAI	RA PSRC	2021-2024	
5.2	Participation in the EAEU common natural gas market in accordance with the Action Plan approved by the decree N 7 of Supreme Eurasian Economic Council dated May 31, 2016.	Development and adoption of the regulatory documents	Rules for trading in the gas exchange. Unified rules for access to the gas transportation system of the Member States. Protocol on completion of the complex measures as pre-conditions required for ensuring access to the gas transportation system of the Member States.	RA MTAI	RA PSRC	2021-2024	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
			Trading rules in the common gas market. Identification of documents for informational cooperation in the information exchange system.				
5.3	EU-Armenia Comprehensive and Enhanced Partnership Agreement (CEPA): Implementation of the reforms in the Energy Sector in accordance with the Road Map adopted by the RoA Prime Minister decision N 666-L dated June 1, 2019 that clearly stipulates the completion period and the responsible authorities.	Implementation of the EU-Armenia Comprehensive and Enhanced Partnership Agreement (CEPA)	Promotion of the investment environment of the energy sector. Development of energy trading with neighboring countries. Increased level of energy security and diversification.	RA MTAI	RA PSRC	2021-2026	
5.4	Implementation of measures focused on the expansion of Armenia - Iran Energy Cooperation and conclusion of agreements	Implementation of Armenia – Iran gas - for - electricity exchange program	Electricity export of 5.0 billion kWh	RA MTAI	ESO EMO Yerevan TPP	2021-2025	
5.5	Implementation of measures focused on the expansion of Armenia - Georgia Energy Cooperation and conclusion of agreements	As a result, prerequisites will be established for regular electricity trade between the	Regular electricity trade between the two countries	RA MTAI	RA PSRC ESO EMO HVEN	2021-2023	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
	5.5.1 Conduct Armenia – Georgia Joint Working Group meetings to ensure electricity trade between Armenia and Georgia and development of the Agreement on the Principles for Electricity Trade	two countries based on the EU directives to the extent possible.	Regular electricity trade between the two countries	RA MTAI	RA PSRC ESO EMO HVEN	2021-2023	
	5.5.2 Conclusion of Armenia - Georgia Agreement on the Principles for Electricity Trade		Regular electricity trade between the two countries	RA MTAI	RA PSRC ESO EMO HVEN	2023	
6. Heat Supply							
6.1	Gradual expansion of implementation of such projects that will enable the use of individual heating and hot water generation systems based on the renewable resources.	Installation of solar water heating systems, 1500 – 7500 AMD/litre, (60°C – 70°C)	Large-scale use of renewable energy sources, Increased level of energy security and independence	RA MTAI	Private sector	Continuously until 2040	
6.2	Development of new Law on Heating of the RA	Regulation of Heating sector and ensuring legal framework	Harmonization of the legislation with implementation of international practice	RA MTAI		December 2022	
7. Gas Supply							

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
7.1	Development of a new law on gas supply based on the modern principles.	Clarification of the sector management principles based on the international best practice.	Reforms in the sector, efficient protection of consumers rights	RA MTAI	RA PSRC	December 2023	
7.2	Comprehensive review of the regulatory framework for the gas supply sector.	Clarification of the sector activities and application of the modern principles.	Ensure requirements for having full transparency of applicable tariffs, and requirements for reliability and security.	RA MTAI	RA PSRC	December 2024	
7.3	Development of the Least Cost Gas Transportation and Gas Distribution Networks Development Ten-year Plans, and its review once in two years	Optimal development of the gas supply sector according to the long-term plan	Ensure reliable and safe gas supply of the customers	Gasprom Armenia CJSC (by agreement)		December 2022	
8. Energy Efficiency							
8.1	In the framework of Comprehensive and Extended Partnership Agreement signed between the European Union and the Republic of Armenia, adapt 65 regulations, instructions and guidelines (buildings and facilities, energy consuming equipment and means of transport) to the RoA	As a result, new standards for energy efficiency and energy saving will be established including for energy labeling and eco design.	Reduced specific cost of energy resources	RA MTAI	RA ME RA UDC	December 2027	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
	legislation which are aimed at promotion of energy efficiency.						
8.2	Development of the National Program on Energy Efficiency and Renewable Energy for 2021-2030.	National Program will define new measures and targets for 2021-2030 that will facilitate future formation of the policy for Armenia Energy Efficiency and identification of specific actions for its implementation.	Reduced specific cost of energy resources	RA MTAI		June 2021	
8.3	Implement regular annual energy statistics in the RA	Annual energy balance development in compliance with the standards of the International Energy Commission	Support to implementation of the energy policy	RA MTAI	RA SC	Annually	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
8.4	Establish new parameters for energy efficiency and energy saving, and develop and adopt national standards ensuring their implementation	Energy efficiency and energy saving new national standards for product and services	Reduction of specific cost for energy resources	RA ME	RA MTAI RA UDC	Continuously	
9. Information Technology in the Energy Sector							
9.1	Installation of the electronic platform for trading in the wholesale electricity market	Application of the digital systems for transactions	Ensuring impartial and transparent decision making for the market participants	RA MTAI EMO ESO	RA MHTI	December 2022	
9.2	Installation of the unified information system for remotely transmitting and managing the information on the consumption and other necessary indicators from the electricity metering system of the customers connected to the distribution network.	Ensuring full awareness of customers	Ensuring absolute level of transparency	ENA (by agreement)	RA MHTI	December 2027	
9.3	Installation of the SCADA system in the wholesale electricity market which will enable the ESO not only to collect the necessary data but also to carry out automatic remote control of the network equipment.	Ensuring reliable and uninterrupted operation of the system	Increased quality of the electricity supply	HVEN, ESO	RA MHTI	December 2022	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
9.4	Implementation of the information security management international standards at ANPP, as provided in 9.4.1 – 9.4.2	Ensuring Cyber-security, digital transformation of the energy sector at ANPP	Ensuring required level of reliability and safety of ANPP operation	ANPP	RA MHTI	December 2023	
	9.4.1 ISO/IEC 27000" Security Management Systems (ISMS) standards"						
	9.4.2 NIST SP 800-53 "Security and Privacy Controls for Information Systems and Organizations"						
9.5	Implementation of the information security international standards at Yerevan TPP, as provided in 9.5.1 – 9.5.2	Ensuring Cyber-security, digital transformation of the energy sector at Yerevan TPP	Ensuring required level of reliability and safety of Yerevan TPP operation	Yerevan TPP	RA MHTI	December 2023	
	9.5.1 ISO/IEC 27000" Security Management Systems (ISMS) standards"						
	9.5.2 NIST SP 800-53 "Security and Privacy Controls for Information Systems and Organizations"						
9.6	Implementation of the information security international standards at HVEN, as provided in 9.6.1 – 9.6.2	Ensuring Cyber-security, digital transformation of the energy sector at HVEN	Ensuring required level of reliability and safety of HVEN operation	HVEN	RA MHTI	December 2023	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
	9.6.1 ISO/IEC 27000" Security Management Systems (ISMS) standards"						
	9.6.2 NIST SP 800-53 "Security and Privacy Controls for Information Systems and Organizations"						
9.7	Implementation of the information security international standards at ESO, as provided in 9.7.1 – 9.7.2	Ensuring Cyber-security, digital transformation of the energy sector at ESO	Ensuring required level of reliability and safety of ESO operation	ESO	RA MHTI	December 2023	
	9.7.1 ISO/IEC 27000" Security Management Systems (ISMS) standards"						
	9.7.2 NIST SP 800-53 "Security and Privacy Controls for Information Systems and Organizations"						
9.8	Implementation of the information security international standards at EMO, as provided in 9.8.1 – 9.8.2	Ensuring Cyber-security, digital transformation of the energy sector at EMO	Ensuring required level of reliability and safety of EMO operation	EMO	RA MHTI	December 2023	
	9.8.1 ISO/IEC 27000" Security Management Systems (ISMS) standards"						
10. Scientific Advancement in the Energy Sector							

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
10.1	National Polytechnic University-Fund of Armenia	Providing highly qualified science-based professionals for the safe and reliable operation and development of the energy system	Increased quality of the system operation	NPUA		Continuously	
10.2	Scientific Research Institute of Energy CJSC	Application of scientific- research studies in different subareas of the energy system	Increased quality of the system operation	SRIE		Continuously	
10.3	“Armatom” CJSC	Application of scientific- research studies in nuclear energy sector	Increased quality of the system operation	Armatom		Continuously	
10.4	Establishment of climate change, energy and energy efficiency projects implementation unified institution.	Increased efficiency for projects implementation	Management cost reduction	RA MTAI	RA MEnv	October 2021	
II. Management of State - Owned Companies							
II.1	ANPP management improvement and implementation of international	Ensuring efficient management at ANPP, in	Improvement of management efficiency			2021 - 2024	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
	standards, in accordance with 11.1.1 – 11.1.7	compliance with the international standards	of state-owned energy companies				
	11.1.1 Revision of the rules applied to profit rate for calculation of ANPP electricity tariff, to involve commercial capital without state guarantee.			RA MTAI ANPP	RA PSRC	January 2021	
	11.1.2 Fixing ANPP operation and maintenance costs and establishment of approaches for its annual revision for the next 10 years			RA MTAI ANPP	RA PSRC	December 2021	
	11.1.3 ISO 9001: 2015 Quality Management			RA MTAI ANPP		December 2024	
	11.1.4 ISO 37001: 2016 Anti-Bribery Management Systems			RA MTAI ANPP		December 2024	
	11.1.5 ISO 50001: 2018 Energy Management Systems			RA MTAI ANPP		December 2024	
	11.1.6 ISO 14001: 2015 Environmental Management Systems			RA MTAI ANPP		December 2024	
	11.1.7 ISO 31000: Risk Management			RA MTAI ANPP		December 2024	
11.2	Yerevan TPP management improvement and implementation of international standards, in accordance with 11.2.1 – 11.2.7	Ensuring efficient management at Yerevan TPP, in compliance with the	Improvement of management efficiency of state-owned energy companies			2021 - 2024	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
	11.2.1 Revision of the rules applied to profit rate for calculation of Yerevan TPP electricity tariff, to involve commercial capital without state guarantee.	international standards		RA MTAI Yerevan TPP	RA PSRC	January 2021	
	11.2.2 Fixing Yerevan TPP operation and maintenance costs and establishment of approaches for its annual revision for the next 10 years			RA MTAI Yerevan TPP	RA PSRC	December 2021	
	11.2.3 ISO 9001: 2015 Quality Management			RA MTAI Yerevan TPP		December 2024	
	11.2.4 ISO 37001: 2016 Anti-Bribery Management Systems			RA MTAI Yerevan TPP		December 2024	
	11.2.5 ISO 50001: 2018 Energy Management Systems			RA MTAI Yerevan TPP		December 2024	
	11.2.6 ISO 14001: 2015 Environmental Management Systems			RA MTAI Yerevan TPP		December 2024	
	11.2.7 ISO 31000: Risk Management			RA MTAI Yerevan TPP		December 2024	
11.3	HVEN management improvement and implementation of international standards, in accordance with 11.3.1 – 11.3.7	Ensuring efficient management at HVEN, in compliance with the	Improvement of management efficiency of state-owned energy companies			2021 - 2024	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
	11.3.1 Revision of the rules applied to profit rate for calculation of HVEN electricity tariff, to involve commercial capital without state guarantee	international standards		RA MTAI HVEN	RA PSRC	January 2021	
	11.3.2. Fixing HVEN operation and maintenance costs and establishment of approaches for its annual revision for the next 10 years			RA MTAI HVEN	RA PSRC	December 2021	
	11.3.3 ISO 9001: 2015 Quality Management			RA MTAI HVEN		December 2024	
	11.3.4 ISO 37001: 2016 Anti-Bribery Management Systems			RA MTAI HVEN		December 2024	
	11.3.5 ISO 50001: 2018 Energy Management Systems			RA MTAI HVEN		December 2024	
	11.3.6 ISO 14001: 2015 Environmental Management Systems			RA MTAI HVEN		December 2024	
	11.3.7 ISO 31000: Risk Management			RA MTAI HVEN		December 2024	
11.4	ESO management improvement and implementation of international standards, in accordance with 11.4.1 – 11.4.7	Ensuring efficient management at ESO, in compliance with the international standards	Improvement of management efficiency of state-owned energy companies			2021 - 2024	
	11.4.1 Revision of the rules applied to profit rate for calculation of ESO electricity			RA MTAI ESO	RA PSRC	January 2021	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
	tariff, to involve commercial capital without state guarantee.						
	11.4.2 Fixing ESO operation and maintenance costs and establishment of approaches for its annual revision for the next 10 years			RA MTAI ESO	RA PSRC	December 2021	
	11.4.3 ISO 9001: 2015 Quality Management			RA MTAI ESO		December 2024	
	11.4.4 ISO 37001: 2016 Anti-Bribery Management Systems			RA MTAI ESO		December 2024	
	11.4.5 ISO 50001: 2018 Energy Management Systems			RA MTAI ESO		December 2024	
	11.4.6 ISO14001: 2015 Environmental Management Systems			RA MTAI ESO		December 2024	
	11.4.7 ISO 31000: Risk Management			RA MTAI ESO		December 2024	
11.5	EMO management improvement and implementation of international standards, in accordance with 11.5.1 – 11.5.7	Ensuring efficient management at EMO, in compliance with the international standards	Improvement of management efficiency of state-owned energy companies			2021 - 2024	
	11.5.1 Revision of the rules applied to profit rate for calculation of EMO electricity			RA MTAI EMO	RA PSRC	January 2021	

NN	Action	Expected Immediate Result	Expected Impact	Responsible Body(ies)	Co-implementer(s)	Deadline	
	tariff, to involve commercial capital without state guarantee.						
	11.5.2 Fixing EMO operation and maintenance costs and establishment of approaches for its annual revision for the next 10 years			RA MTAI EMO	RA PSRC	December 2021	
	11.5.3 ISO 9001: 2015 Quality Management			RA MTAI EMO		December 2024	
	11.5.4 ISO 37001: 2016 Anti-Bribery Management Systems			RA MTAI EMO		December 2024	
	11.5.5 ISO 50001: 2018 Energy Management Systems			RA MTAI EMO		December 2024	
	11.5.6 ISO 14001: 2015 Environmental Management Systems			RA MTAI EMO		December 2024	
	11.5.7 ISO 31000: Risk Management			RA MTAI EMO		December 2024	

Acronyms

RA	Republic of Armenia
RF	Russian Federation
RA MTAI	RA Ministry of Territorial Administration and Infrastructure
RA MLSA	RA Ministry of Labour and Social Affairs
RA ME	RA Ministry of Economy
RA MEnv	RA Ministry of Environment
RA MHTI	RA Ministry of High-Tech Industry
RA UDC	RA Urban Development Committee
RA PSRC	RA Public Services Regulatory Commission
ANRA	RA Nuclear Safety Regulation Committee
RA SC	RA Statistics Committee
ESO	“Electric Power System Operator” CJSC
EMO	“Settlement Center” CJSC/Electricity Market Operator
HVEN	“High Voltage Electric Networks” CJSC
ENA	“Electric Networks of Armenia” CJSC
ANPP	“Armenian Nuclear Power Plant” CJSC
Yerevan TPP	“Yerevan TPP” CJSC
Hrazdan 5	Unit of “Gasprom Armenia” CJSC
IEC	"International Energy Corporation" CJSC
ContourGlobal	"ContourGlobal Hydro Cascade" CJSC
REPP	Renewable Energy Power Plant
SRIE	“Scientific Research Institute of Energy” CJSC
Armatom	“Armatom” CJSC
NPUA	"National Polytechnic University of Armenia" Foundation
ADB	Asian Development Bank
USAID	United States Agency for International Development
EIB	European Investment Bank
IBRD	International Bank for Reconstruction and Development
KfW	German development bank
NIF	Neighborhood Investment Fund
SDR	Special Drawing Right
EDBI	Export Development Bank of Iran
PPP	Public Private Partnership
USD	US dollar