



## United Nations Development Programme

Country: Turkmenistan

Annual Work Plan 2022

Project Title:	"Sustainable Cities in Turkmenistan: Integrated Green Urban Development in Ashgabat and Avaza".
UN PFD Outcome(s):	Outcome 2.2: Environmentally sustainable use of natural resources contributes to effectiveness of economic processes and increased quality of life.
Expected CP Outcome Indicator(s):	5.1. Number of current and new institutions that research, pilot and replicate energy efficiency initiatives for sustainable rural and urban development, and the use of renewables, urban development and waste management practices. 5.2. Number of state laws, regulations and procedures developed or amended that incorporate energy efficiency standards and practices, and the use of renewables and sustainable waste management. 5.3. Annual emissions of carbon dioxide (in million metric tons) are measured by an established integrated monitoring system in place (Strategic Plan indicator 1.3.). 6.1. Availability of solutions developed and implemented at national and subnational levels for climate change adaptation, sustainable management of natural resources and ecosystem services, as part of NAP.
Expected Output(s):	Output 5.3: New and innovative solutions developed and implemented that promote energy efficiency for urban/rural development and waste management. Output 6.1: New and innovative solutions developed and piloted at national and subnational levels for climate change adaptation, sustainable land, water, coastal management and ecosystem services, and safe waste disposal as part of NAP.
Implementing partner:	Ministry of Agriculture and Environment Protection of Turkmenistan.
Responsible Parties:	Ministry of Energy of Turkmenistan, Ministry of Construction and Architecture of Turkmenistan, "Turkmenavtoulaglary" Agency, Municipality of Ashgabat city, Municipality of Turkmenbashi city.

### Brief Description

Project objective is to promote and implement integrated low-carbon urban systems in Ashgabat and Avaza, thereby reducing greenhouse gas emissions and creating other environmental, social, and economic development benefits.

Programme period:	Country Programme 2016-2020	Total allocated resources:	\$1,603,650.00
Project Title:	"Sustainable Cities in Turkmenistan: Integrated Green Urban Development in Ashgabat and Avaza"	• UNDP	\$20,000.00
Start date:	01/01/2022	• GEF	\$1,583,650.00
End date:	31/12/2022		

Agreed: \_\_\_\_\_

Ministry of Agriculture and  
Environment Protection of Turkmenistan

Date: 11.12.2021

Agreed: \_\_\_\_\_

UNDP in Turkmenistan

Date: 11.12.2021





Annual Work Plan

Program period: 01.01.2022 - 31.12.2022

Project title: "Sustainable Cities in Turkmenistan: Integrated Green Urban Development in Ashgabat and Avaza"



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Outcome 1	Planned activities	Months												Responsible parties, participants	Budget in USD			
		January	February	March	April	May	June	July	August	September	October	November	December		Budget line	SUM		
<b>Outcome 1: Sustainable urban development in Ashgabat</b>															<b>Total for Result 1:</b>		<b>1,039,000</b>	
<p><b>Targeted indicators by the end of the project:</b></p> <p>1.1 Reduction by 3 percent (180 million passenger-km per year) of private car travels via increased use of alternative modes of transportation and carpooling</p> <p>1.2 Reduction of electricity consumption from public outdoor lighting by 1.5 million kWh per year in Ashgabat and 8 million kWh per year in whole Turkmenistan, compared to baseline</p> <p>1.3 Reduction in landfill waste in Ashgabat and Avaza relative to baseline of recycling and waste reduction programs. Increase in recycling volume by 10 percent and increase in use of secondary raw materials by 25%</p>																		
<b>OUTPUT 1.1.</b> Energy-efficient street lighting implemented in Ashgabat and technical justification prepared  <b>Indicators:</b> 1. Electric power consumption reduced for street lighting in Ashgabat 2. Solar energy is used for street lighting and other purposes	<b>Activity 1.1.1. Development, installation and use of "Smart grid" system for management of street lightening</b>																	
	Activity 1.1.1.1. Organization and holding of regular meetings of the Project Board.															PT, CO, PIU, MAEP	75700	1,000
	Activity 1.1.1.2. Work, consultations and visits of an international consultant/Senior Technical Advisor of the project on energy efficiency and sustainable urban development.															STA, PM, SP, PS, PIU	71200	70,000
	Activity 1.1.1.3. Hiring and work of national consultant on the inventory of light points operated in the street lighting systems of Ashgabat and Avaza, and reducing the amount of greenhouse gas emissions.															NC, PM, SP, STA, PIU, ME	71400	3,000
	Activity 1.1.1.4. Determination of specification, procurement and delivery of low-voltage (stranded) power cable products with a voltage of up to 1.0 kV, for the reconstruction of electrical networks of street lighting systems in Ashgabat (in order to reduce greenhouse gas emissions).															PM, IC, SP, PS, PIU, ME	72200	152,000
	Activity 1.1.1.5. Provision of advisory support during the implementation of set of measures for dismantling of overhead power lines and installation of new cable power lines to connect street lighting systems in Ashgabat for power supply.															SP, PM, STA, IC, PIU, ME	71400	4,000
Activity 1.1.1.6. Analysis of information, determination of specifications, procurement and delivery of modern 35/0.4 kV power transformers for installation in distribution electrical networks for power supply of street lighting systems in Ashgabat (to reduce greenhouse gas emissions).															PM, IC, SP, PS, PIU, ME	72200	160,000	



<p><b>Activity 1.1.1.7.</b> Determination of specification, procurement and delivery of equipment (with services) for the reconstruction of the pilot section of street lighting in Ashgabat, with the introduction of modern power cables and energy-saving lamps equipped with digital technologies (in order to reduce TRPT to reduce greenhouse gas emissions).</p> <p><b>Activity 1.1.1.8.</b> Implementation by the national consultant of the activities on monitoring electrical networks after the reconstruction of the pilot section of the street lighting system, with the introduction of energy-saving measures, installation of new modern LED lamps, construction of intelligent networks.</p> <p><b>Activity 1.1.1.9.</b> The work of the national consultant during the dismantling of old lamps and the installation of new modern LED lamps with the construction of intelligent networks at the pilot site of street lighting systems in Ashgabat</p> <p><b>Activity 1.1.1.10.</b> Analysis of information, preparation of justification for the introduction of LED lamps equipped with a renewable energy generation system (solar panels) in the street lighting systems of Ashgabat and Avaza.</p> <p><b>Activity 1.1.1.11.</b> Specification determination and procurement and delivery of high-voltage armored (single-core insulated with cross-linked polyethylene (XLPE) cable products with a voltage of 10.0 kV for the reconstruction of electrical networks of street lighting systems of newly connected settlements of Ashgabat (in order to lower TRPT to reduce greenhouse gas emissions).</p>	1	2	3	4	5	6	7	8	9	10	11	12	PM, STA, SP, PS, PIU, ME	72200	155,000	
	1	2	3	4	5	6	7	8	9	10	11	12	NC, IC, SP, PM, ME	71300	6,000	
	1	2	3	4	5	6	7	8	9	10	11	12	SP, PM, STA, IC, ME	71300	8,000	
															71400	3,000
	1	2	3	4	5	6	7	8	9	10	11	12	STA, IC, SP, PM, ME	71400	3,000	
	1	2	3	4	5	6	7	8	9	10	11	12	PM, IC, SP, PS, PIU, ME	72200	155,000	
	<b>Activity 1.1.2. Documentation on energy efficiency of LED lamps in street lighting and preparation of justification for replication</b>															
	<p><b>Activity 1.1.2.1.</b> Conducting training on the development of renewable energy for specialists of the Ministry of Energy of Turkmenistan, as well as teachers and students of the State Energy Institute of Turkmenistan.</p>	1	2	3	4	5	6	7	8	9	10	11	12	SP, PM, IC, FA, PIU, ME	75700	1,000
																71400
	<p><b>Activity 1.1.2.2.</b> Study the possibility of operation of non-volatile supports in the climatic conditions of Turkmenistan. Evaluation of the results and preparation of recommendations on the possible use of solar energy and batteries for street lighting.</p>	1	2	3	4	5	6	7	8	9	10	11	12	SP, PM, STA, PIU, ME	71400	3,000
															71600	1,000
<p><b>Activity 1.1.2.3.</b> Conducting training on the operation of non-volatile supports in the climatic conditions of Turkmenistan for specialists of the Ministry of Energy of Turkmenistan, as well as teachers and students of the State Energy Institute of Turkmenistan.</p>	1	2	3	4	5	6	7	8	9	10	11	12	SP, PM, IC, FA, PIU, ME	71400	3,000	
															75700	1,000
<p><b>Activity 1.1.2.4.</b> Development of drafts of new regulatory legal acts (5 pcs.) on renewable energy to the Law of Turkmenistan "On Renewable Energy sources" by an international consultant</p>	1	2	3	4	5	6	7	8	9	10	11	12	IC, SP, PM, PIU, ME	71200	20,000	
															71400	3,000
<p><b>Activity 1.1.2.5.</b> Hiring and work of a national consultant for the development of draft regulatory and technical documents on energy saving and energy efficiency.</p>	1	2	3	4	5	6	7	8	9	10	11	12	NC, SP, PM, STA, PIU, ME	71300	13,000	
	<b>Total on Output 1.1.</b>															780,000

<b>OUTPUT 1.2.</b>	
<b>Sustainable urban</b>	
<b>Activity 1.2.1. Design and construction of dedicated bus and bicycle lanes</b>	



<b>transport solutions in Ashgabat developed and applied</b>  <b>Indicators:</b>  1. New practices are adopted on sustainable transport (including public transportation, development of bicycle lanes).  2. Electronic system of tickets is designed  3. New mobile applications are used for riders	<b>Activity 1.2.1.1.</b> Development of strategies, programs, projects of new regulatory legal acts and technical regulatory documents in the field of sustainable transport.	1	2	3	4	5	6	7	8	9	10	11	12	NC, STA, PM, SP, PS, FA, PIU, TAVTA	71300	1,000
	<b>Activity 1.2.2.</b> Designing of system for e-passes, map updates, and a mobile app for riders															
	<b>Activity 1.2.2.1.</b> Analysis of the situation, preparation of recommendations for improving mobile applications for passengers.	1	2	3	4	5	6	7	8	9	10	11	12	NC, PM, FA, PIU, TAVTA, ACM	71300	7,000
	<b>Activity 1.2.3.</b> Behavioral-choice programs and outreach on sustainable transport															
	<b>Activity 1.2.3.1.</b> Development and launch of program for conducting public information campaign on sustainable transport.	1	2	3	4	5	6	7	8	9	10	11	12	PM, SP, FA, TAVTA, MAEP, SMOT, NGO	74200	4,000
	<b>Activity 1.2.4.</b> Data collection and analysis on transport volumes, choices, and preferences															
	<b>Activity 1.2.4.1.</b> Conducting a detailed analysis of data on passenger traffic volumes in Ashgabat.	1	2	3	4	5	6	7	8	9	10	11	12	NC, PM, SP, PIU, TAVTA, SMOT	71300	3,000
	<b>Activity 1.2.5.</b> Development of national long-term roadmap on usage of electric and hybrid vehicles with the demonstrative designing and construction of electric filling ports in Ashgabat and Avaza															
	<b>Activity 1.2.5.1.</b> Promotion of initiatives with subsequent support of activities for the promotion and use of electric vehicles and hybrid vehicles.	1	2	3	4	5	6	7	8	9	10	11	12	STA, NC, PM, PIU, TAVTA, MAEP	71300	2,000
	<b>Activity 1.2.6.</b> Promotion of Turkmenistan's experience on usage of "green" transport (bikes, hoverboards, scooters) in Ashgabat and Avaza on global level															
	<b>Activity 1.2.6.1.</b> Assistance in the implementation of the global cycling initiative (support for Bicycle Day).	1	2	3	4	5	6	7	8	9	10	11	12	SP, PM, FA, PS, MAEP, NGO	71400	4,000
	<b>Activity 1.2.6.2.</b> Hiring national consultants to develop draft Instructions for the Safe Use of Bicycles and Traffic Rules for Bicycles, as well as a website.	1	2	3	4	5	6	7	8	9	10	11	12	NC, SP, PM, FA, MAEP, NGO	71400	4,000
	<b>Total on Output 1.2.</b>															<b>35,000</b>
	<b>OUTPUT 1.3.</b> <b>City plans for sustainable development is developed and approved</b>															
	<b>Indicators:</b>  1. Improved capacity in the field of complex plans of	<b>Activity 1.3.1.</b> Working out of plans for sustainable development in Ashgabat and other cities														
<b>Activity 1.3.1.1.</b> Conducting consultations to discuss areas of capacity building in the field of integrated sustainable urban development plans for government officials.		1	2	3	4	5	6	7	8	9	10	11	12	STA, PM, SP, FA, PIU, MAEP, SMOT	75700	1,000
<b>Activity 1.3.1.2.</b> The work of the project Adviser on the legal aspects of sustainable development, gender and social issues		1	2	3	4	5	6	7	8	9	10	11	12	PLA, PM, PS, PLA, PIU	71400	3,000
<b>Activity 1.3.2.</b> Development and introduction of plans for development of modern monitoring systems for ecological condition of Ashgabat																



sustainable urban development	Activity 1.3.2.1. Finalizing and approving the draft Program to improve the environmental monitoring and control system in the cities of Turkmenistan.	1	2	3	4	5	6	7	8	9	10	11	12	PM, SP, PS, MAEP, SMOT	71400	4,000	
	Activity 1.3.2.2. Development of drafts of new regulatory legal acts and technical regulatory documentation in the field of environmental protection and environmental monitoring.	1	2	3	4	5	6	7	8	9	10	11	12	NC, SP, PM, STA, MAEP	71300	10,000	
	Activity 1.3.2.3. Development of a user manual on greenhouse gas monitoring for pilot facilities (in order to calculate greenhouse gas emissions reduction).	1	2	3	4	5	6	7	8	9	10	11	12	SP, PM, PIU, MAEP, SMOT	71400	4,000	
	Activity 1.3.2.4. Procurement and delivery of specialized equipment (for measuring the concentration of greenhouse gas emissions and dust in the atmospheric air) for the Environmental Control Service of the MAEP.	1	2	3	4	5	6	7	8	9	10	11	12	SP, PM, FA, PIU, MAEP	72200	44,000	
	Activity 1.3.2.5. Analysis and preparation of recommendations for improving environmental statistical reporting on accounting for greenhouse gas emissions.	1	2	3	4	5	6	7	8	9	10	11	12	PM, SP, PS, FA, PIU, MAEP, SMOT	71400	3,000	
	Activity 1.3.2.6. Assistance in updating environmental curricula for universities of the country (jointly with the Magtymguly Turkmen State University).	1	2	3	4	5	6	7	8	9	10	11	12	SP, PM, FA, MAEP, SMOT	71400	3,000	
	Activity 1.3.2.7. Preparation of justification and support for the development of System for the inventory of greenhouse gas emissions in Turkmenistan (1st stage).	1	2	3	4	5	6	7	8	9	10	11	12	PM, SP, PS, FA, PIU, MAEP, SMOT	71400	4,000	
	Activity 1.3.2.8. Support for the implementation of measures to implement the Paris Climate Agreement (including NDC) in Turkmenistan.	1	2	3	4	5	6	7	8	9	10	11	12	PM, SP, PS, MAEP, SMOT	71400	4,000	
	Activity 1.3.2.9. Coordination of the development of Turkmenistan's Fourth National Communication on Climate Change for the UNFCCC (including holding working meetings, consultations, defining indicators, conducting GHG inventory).	1	2	3	4	5	6	7	8	9	10	11	12	PM, SP, PS, FA, PIU, MAEP, SMOT	71400	4,000	
	Activity 1.3.2.10. Support for the implementation of commitments under the Kigali Amendment to the Montreal Protocol on Substances that Deplete the Ozone Layer.	1	2	3	4	5	6	7	8	9	10	11	12	PM, SP, PS, FA, PIU, MAEP	71400	3,000	
	Activity 1.3.2.11. Support in holding environmental protection events and actions, including June 5 - World Environment Day.	1	2	3	4	5	6	7	8	9	10	11	12	PM, SP, FA, PIU, MAEP	74200	2,000	
Total on Output 1.3.																100,000	
sustainable urban development	Activity 1.3.3. Preparation of Concept and draft for creation of "Smart Ecopark" in Ashgabat																
	Activity 1.3.3.1. Implementation of environmental measures and "green" practices in the pilot park.	1	2	3	4	5	6	7	8	9	10	11	12	SP, PM, FA, PIU, ACM, MAEP, NGO	71400	4,000	
	Total on Output 1.3.																100,000
	Activity 1.4.1 Public information campaign on reduction of solid waste emission																
OUTPUT 1.4. Volumes of waste is reduced and recycling increases in Ashgabat	Activity 1.4.1.1. Continuation of the implementation of the campaign on public awareness and capacity building in the field of waste management (with the active involvement of the private sector and NGOs, stage 3).	1	2	3	4	5	6	7	8	9	10	11	12	SP, NC, PM, PS, FA, PIU, MAEP, SMOT, NGO	71400	5,000	
	Activity 1.4.1.2. Organization and holding of actions for cleaning and	1	2	3	4	5	6	7	8	9	10	11	12	PM, SP, FA, PIU,	71400	3,000	
	Indicators:																



1. Waste management knowledge is widely spread 2. Sorting of household waste is implemented 3. Private sector actively processes and recycles the waste	landscaping of urban areas.																	ACM, MAEP, NGO	74500	1,000
	<b>Activity 1.4.2. Piloting of sorting for recycling the household waste in Ashgabat</b>																			
	Activity 1.4.2.1 Implementation of measures at the pilot sites of the project for household waste sorting in Ashgabat and Avaza.	1	2	3	4	5	6	7	8	9	10	11	12	SP, PM, FA, PIU, MAEP, ACM, NGO	71400	4,000				
	Activity 1.4.2.2. Procurement, delivery and installation of special equipment, containers and vehicles for collection, sorting and removal of household waste at pilot sites in Ashgabat and Avaza.	1	2	3	4	5	6	7	8	9	10	11	12	PM, SP, FA, PIU, MAEP, NGO	72200	84,000				
	<b>Activity 1.4.3. Morphological analysis of waste streams entering the household landfill in Ashgabat</b>																			
	Activity 1.4.3.1. Coordination of the morphological analysis of waste streams entering urban landfills.	1	2	3	4	5	6	7	8	9	10	11	12	IC, SP, PM, MAEP, ACM, NGO	71400	4,000				
	<b>Activity 1.4.4. Preparation and implementation of Ashgabat program on utilization, processing and recycling of household waste with active involvement of private sector (Union of Industrialists and Entrepreneurs)</b>																			
	Activity 1.4.4.1. Development of drafts of new regulatory legal acts and technical regulatory documentation in the field of environmental protection and waste management.	1	2	3	4	5	6	7	8	9	10	11	12	NC, SP, PM, FA, PS, PIU, MAEP, SMOT	71300	9,000				
	Activity 1.4.4.2. Support for the finalization, adoption and implementation of the draft of the new National Strategy of Turkmenistan on waste management.	1	2	3	4	5	6	7	8	9	10	11	12	SP, PM, FA, PIU, MAEP, SMOT	71400	4,000				
															75700	1,000				
<b>Total on Output 1.4.</b>																				<b>124,000</b>
<b>Total on Outcome 1:</b>																				<b>1,039,000</b>

<b>Outcome 2: Sustainable Tourism Infrastructure and Management Practices in Avaza</b> <b>Targeted indicators by the end of the project:</b> 2.1 Improved capacities and enabling conditions in Avaza for integrated low-carbon and climate-resilient tourism development 2.2 Reduced GHG emissions and other negative environment impact through interventions involving tourism facilities and infrastructure in Avaza	International Consultant	71200	95,000		
	Individual contracts	71300	55,000		
	Service contracts	71400	35,000		
	Travels	71600	5,000		
	Equipment	72200	120,000		
	Printing and Publishing	74200	4,000		
	Miscellaneous	74500	1,000		
	Trainings and seminars	75700	10,000		
	<b>Total on Outcome 2:</b>		<b>325,000</b>		
	<b>Total on Outcome 2</b>	<b>Planned activities</b>	<b>Months</b>	January	<b>Responsible parties, participants</b>
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					
	<b>Budget line</b>	<b>Sum</b>			



Activity 2.1.1. Development and implementation of "green" standards for hotels																
<b>Output 2.1.</b> <b>Practice on reducing energy consumption, water use, and waste implemented by hotels in Avaza</b>  <b>Indicators:</b>  1. "Green practices" are widely applied by hotels of Avaza  2. Energy/water audit measures implemented and led to reduction in energy and water consumption per guest by an average of 10%  3. Ecological sustainable practice is introduced	Activity 2.1.1.1. Hiring and working of project international consultant for development of "Green" standard for Avaza hotels.	1	2	3	4	5	6	7	8	9	10	11	12	IC, SP, PM, FA, ACM, TCM, HAA	71200	15,000
	Activity 2.1.1.2. Development by an international consultant of drafts of new regulatory legal acts (5 pcs.) on renewable energy to the Law of Turkmenistan "On Renewable Energy sources".	1	2	3	4	5	6	7	8	9	10	11	12	IC, SP, PM, PIU, ME	71200	20,000
	Activity 2.1.1.3. Consultations and working meeting on the results of the work of the international project consultant on the development of "green" standards for Avaza hotels. Revision, presentation and further approval of the draft "green" standard.	1	2	3	4	5	6	7	8	9	10	11	12	SP, IC, PM, FA, PIU, ACM, TCM, HAA, SMOT	71400	2,000
	Activity 2.1.1.4. Hiring international and national consultant to conduct morphological analysis of waste streams entering urban landfills, with the preparation of recommendations.	1	2	3	4	5	6	7	8	9	10	11	12	IC, NC, SP, PM, FA, PIU, MAEP, ACM, NGO	71200	23,000
															71300	9,000
	<b>Activity 2.1.2. Conducting an energy/water consumption audit</b>															
	Activity 2.1.2.1. The work of a junior project specialist on energy audit in pilot hotels in Avaza.	1	2	3	4	5	6	7	8	9	10	11	12	SP, PM, FA, PIU	71400	11,000
	Activity 2.1.2.2. Organizing and conducting a comprehensive energy audit in pilot hotels (at least 4) in Avaza.	1	2	3	4	5	6	7	8	9	10	11	12	NC, SP, STA, PM, FA, PIU, TCM, HAA	71300	12,000
															71400	3,000
	Activity 2.1.2.3. Preparation of report and holding a seminar on the results of a comprehensive energy survey in pilot hotels (at least 4) in Avaza.	1	2	3	4	5	6	7	8	9	10	11	12	NC, SP, PM, FA, PIU, TCM, HAA	71400	3,000
															75700	4,000
	Activity 2.1.2.4. Preparation of the justification and determination of specification for the procurement of equipment (solar collector) for the preparation of hot water in the pilot hotel.	1	2	3	4	5	6	7	8	9	10	11	12	SP, NC, IC, PM, FA, PIU, ACM, HAA	71400	3,000
	Activity 2.1.2.5. Procurement and installation of equipment for the implementation of energy-saving measures in Avaza pilot hotel.	1	2	3	4	5	6	7	8	9	10	11	12	SP, PM, PS, FA, PIU, HAA	72200	80,000
Activity 2.1.2.6. Procurement and delivery of specialized equipment (for measuring the concentration of greenhouse gas emissions and dust in the atmospheric air) for the Environmental Control Service of the MAEP.	1	2	3	4	5	6	7	8	9	10	11	12	SP, PM, FA, PIU, MAEP	72200	40,000	
Activity 2.1.2.7. Preparation of the justification and Determination of specification for the procurement of equipment for monitoring the results of energy-saving measures in Avaza pilot hotel.	1	2	3	4	5	6	7	8	9	10	11	12	SP, NC, IC, PM, FA, PIU, ACM, HAA	71400	2,000	
														74500	1,000	
<b>Activity 2.1.3. Public promotion of successes in application of "green practices" by hotels of Avaza</b>																
Activity 2.1.3.1. Conducting public awareness to promote the use of "green practices" in Avaza hotels.	1	2	3	4	5	6	7	8	9	10	11	12	SP, PM, FA, PIU, TCM, ACM, HAA	74200	2,000	
														71600	1,500	
Activity 2.1.3.2. Support for the organization and conduct of environmental events on the Caspian Day	1	2	3	4	5	6	7	8	9	10	11	12	PM, SP, FA, PIU, MAEP, TCM, HAA	74200	2,000	
														71600	2,000	
<b>Total on Output 2.1.</b>													<b>235,500</b>			



Activity 2.2.1. Demonstration and replication of solar-powered lighting																
Output 2.2. Demonstration and replication of solar-powered public lighting	Indicators: 1. Electric power consumption for street lighting is reduced	1	2	3	4	5	6	7	8	9	10	11	12	SP, STA, PM, ACM, TCM, HAA, SMOT	71400	2,000
		Total on Output 2.2.													71600	1,500
Activity 2.2.1.2. Conducting working meetings and consultations on the possible use of solar panels for street lighting.																
Activity 2.3.1. Piloting solar-powered charging stations for electric vehicles																
Output 2.3. Optimally efficient surface transportation implemented in Awaza	Indicators: 1. 10 solar-powered charging stations were installed	1	2	3	4	5	6	7	8	9	10	11	12	NC, SP, PM, FA, PIU, TCM, HAA	71300	8,000
		Total on Output 2.3.													71400	2,000
		Activity 2.3.1.1. Hiring and work of national consultant to analyze and evaluate the possibility of using and developing charging solar stations for electric vehicles (scooters, mopeds and motor scooters) in Avaza hotels.														
		Activity 2.3.1.2. Organization and holding of working meeting based on the results of the assessment of the possibility of using and developing charging solar stations for electric vehicles (scooters, mopeds and motor scooters) in Avaza hotels.														
Activity 2.3.1.3. Development of strategies, programs, projects of new regulatory legal acts and technical regulatory documents in the field of sustainable transport.																
Total on Output 2.3.													71200	37,000		
Total on Output 2.3.													71300	4,000		
Total on Output 2.3.														56,000		

Activity 2.4.1. Technical assistance and training of planners, officials, and facility managers in Avaza																
Output 2.4. Managerial and technical capacity of planners, officials, and facility managers in Avaza enhanced via training	Indicator: 1. Application of principles of sustainability and new methods and practices in planning and implementation of activities by officials and hotel managers	1	2	3	4	5	6	7	8	9	10	11	12	SP, PM, ACM, TCM, SMDT, HAA	71400	3,000
		Total on Output 2.4.													71400	2,000
		Activity 2.4.1.1. Preparation of manual for the implementation of energy-saving measures in public buildings (hotels).														
		Activity 2.4.1.2. Conducting training seminar on energy efficiency in residential areas for sustainable development of the urban environment.														
Activity 2.4.1.3. Collection and analysis of information, preparation of justification and support for the development of the draft National Strategy of Turkmenistan on environmental protection.																
Total on Output 2.4.													71300	22,000		
Total on Outcome 2:														325,000		

Outcome 3: State policy at Municipal and National levels		Targeted indicators by the end of the project:										
3.1. Spreading of experience and increasing the volume of first two components of the project on nationwide level via spreading of information, capacity building of establishments and managers as well as adopting state policy and legal normative acts		International Consultants	71200	53,000								
		Individual contracts	71300	16,000								
		Service contracts	71400	42,000								
		Trips	71600	3,650								
		Printing and Publishing	74200	6,000								
		Miscellaneous	74500	1,000								
		Trainings and seminars	75700	6,000								
		Equipment	72200	46,000								
<b>Total on Outcome 3:</b>				<b>173,650</b>								



Total on Outcome 3	Planned activities (cost description)	Months												Responsible parties, participants	Planned budget in US dollars				
		January	February	March	April	May	June	July	August	September	October	November	December		Budget line	SUM			
		Activity 3.1.1.1. Development and adoption of national policy and budgets in support of implementation for spreading the practice of sustainable urban development																	
<b>Output 3.1. National policy developed and adopted in support of integrated and scaled-up "green" urban development practices</b>  <b>Indicators:</b> 1. Number of cities adopted and implement practices on sustainable transport, energy-efficiency, waste management, construction	Activity 3.1.1.1.1. Support for the development of the draft National Strategy of Turkmenistan on environmental protection.	1	2	3	4	5	6	7	8	9	10	11	12	NC, PM, SP, FA, PIU, MAEP	71300	16,000			
	Activity 3.1.1.1.2. Conducting review of the curricula of engineering specialties of universities in Turkmenistan to study the possibility of introducing the discipline on sustainable urban development.	1	2	3	4	5	6	7	8	9	10	11	12	NC, STA, PM, MAEP, SMOT	71400	10,000			
	Activity 3.1.1.1.3 Hiring and work of international consultant for the development of draft regulatory legal acts on energy saving and energy efficiency, regulatory and technical documents on energy audit of street lighting systems, electrical networks, power transformers, and generation systems based on renewable energy sources.	1	2	3	4	5	6	7	8	9	10	11	12	IC, SP, PM, FA, PIU, ME, SMOT	71200	15,000			
	Activity 3.1.1.4. Supporting the development of strategies, programs, drafts of new regulatory legal acts and technical regulatory documents in the field of sustainable transport.	1	2	3	4	5	6	7	8	9	10	11	12	IC, STA, PM, SP, PS, FA, PIU, TAVTA	71200	38,000			
	Activity 3.1.1.5. Procurement and delivery of specialized equipment (for measuring the concentration of greenhouse gas emissions and dust in the atmospheric air) for the Environmental Control Service of the MAEP.	1	2	3	4	5	6	7	8	9	10	11	12	SP, PM, FA, PIU, MAEP	72200	36,000			
	Activity 3.1.1.6. Organization and conduct of trainings for specialists of chemical laboratories of the Environmental Control Service of the Ministry of Agriculture and Environmental Protection to improve and optimize the operation of the observation network for monitoring the state of air/water/soil pollution	1	2	3	4	5	6	7	8	9	10	11	12	SP, PM, PM, FA, PIU, MAEP	71400	6,000			
	Activity 3.1.1.7. Conducting working meetings and consultations with representatives of government organizations, private sector and civil society to discuss the best practices for the development of sustainable cities.	1	2	3	4	5	6	7	8	9	10	11	12	PM, SP, STA, FA, PIU, MAEP, SMOT, UIET, NGO	75700	2,500			
																71600	2,650		
																74500	1,000		
																75700	2,500		
																71600	1,000		
																74200	6,000		
	<b>Total on Output 3.1.</b>																		<b>150,650</b>
	<b>Output 3.2. National incentives and standards adopted for increasing the fuel efficiency of imported cars</b>  <b>Indicators:</b> 1. New standards are acting that save fuel consumption for imported vehicles	Activity 3.2.1. Development and implementation of fuel-efficient standards and incentives for motor vehicles																	
Activity 3.2.1.1. Analyzing the current situation and developing incentives for imported vehicles with improved fuel efficiency.		1	2	3	4	5	6	7	8	9	10	11	12	STA, SP, PM, MAEP, SMOT	71400	6,000			
Activity 3.2.1.2 Organization of working meeting with stakeholders to discuss the recommended incentives for imported vehicles.		1	2	3	4	5	6	7	8	9	10	11	12	SP, PM, FA, PIU, MAEP, SMOT	71400	6,000			
Activity 3.2.1.3. Support for the creation of urban bicycle workshops for women with the purchase of spare parts and equipment for bicycles, the installation of pilot stations.		1	2	3	4	5	6	7	8	9	10	11	12	SP, PM, FA, PIU, NGO	72200	10,000			



		<b>Total on Output 3.2.</b>												<b>23,000</b>
		<b>Total on Outcome 3:</b>												<b>173,650</b>

Outcome 4: Monitoring, Evaluation and Knowledge Management (MEKM)	Planned activities (cost description)	Months												Responsible parties, participants	Planned budget in US dollars	
		January	February	March	April	May	June	July	August	September	October	November	December			
Outcome of Monitoring, Evaluation and Knowledge Management	Individual contracts	1	2	3	4	5	6	7	8	9	10	11	12		71300	10,000
		Service contracts													71400	6,000
		Service													72100	5,000
		Trainings and seminars													75700	8,000
		<b>Total for MEKM:</b>														<b>29,000</b>
Implementation of the Action Plan for the implementations of the mid-term recommendations of the project evaluation	Activity 4.1. Implementation of the activities of the Plan for the implementation of the recommendations of the project mid-term evaluation.	1	2	3	4	5	6	7	8	9	10	11	12	PM, STA, SP, NC, PS, PIU, MAEP, SMOT	71300	10,000
															71400	6,000
															72100	5,000
															75700	8,000
																<b>29,000</b>
		<b>Total for MEKM:</b>												<b>29,000</b>		

Outcome 5: Project management	Service contracts	Communication	Office expenditures	Office rental	Project service by UNDP Country Office	Miscellaneous	Total Outcome 5:
	71400	72400	72500	73100	74596	74500	<b>37,000</b>
<b>TOTAL FOR THE PROJECT (for 2022):</b>							<b>1,603,650</b>

Outcome 1	1,039,000
Outcome 2	325,000
Outcome 3	173,650
Outcome 4	29,000
Outcome 5	37,000
<b>TOTAL</b>	<b>1,603,650</b>



Agreed:

Ministry of Agriculture and Environmental Protection of Turkmenistan

Agreed:

UNDP in Turkmenistan



Abbreviations:

PM - Project Manager	MAEP - Ministry of Agriculture and Environmental Protection
SP - Specialist of the Project	ME - Ministry of Energy
FA - Field Assistant	MCA - Ministry of Construction and Architecture
STA - Senior Technical Advisor (International Consultant)	TAVTA - "Turkmenavtotransport" Agency
JPS - Junior Project Specialist	ACM - Ashgabat City Municipality
IC - International Consultant	TCM - Turkmenbashi City Municipality
NC - National Consultant	UIET - Union of Industrialists and Entrepreneurs of Turkmenistan
PS - UNDP Program Specialist	SMOT - State ministries and organizations of Turkmenistan
PIU - UNDP Project Implementation Unit	HAA - Hotels in Avaza and Ashgabat
PLA - Project Legal Advisor	NGO - Non-governmental organizations
CO - UNDP Country Office	GEF - Global Environment Facility
PT - Project Team	