NDC Action Plan (Partnership Plan)

Country:	Jordan
Period covered:	2019-2021
Date updated:	October 2020

i. OBJECTIVE: Transition to a low carbon economy (increased share of renewable energy in total energy mix; upscaling energy efficiency measures in multiple sectors; mitigation of methane emissions)

	Policy, Strategy & Legislation	Governance and coordination mechanisms
		MTEF, Public Investment Programming, Investment plans (needs vs. availability of resources)
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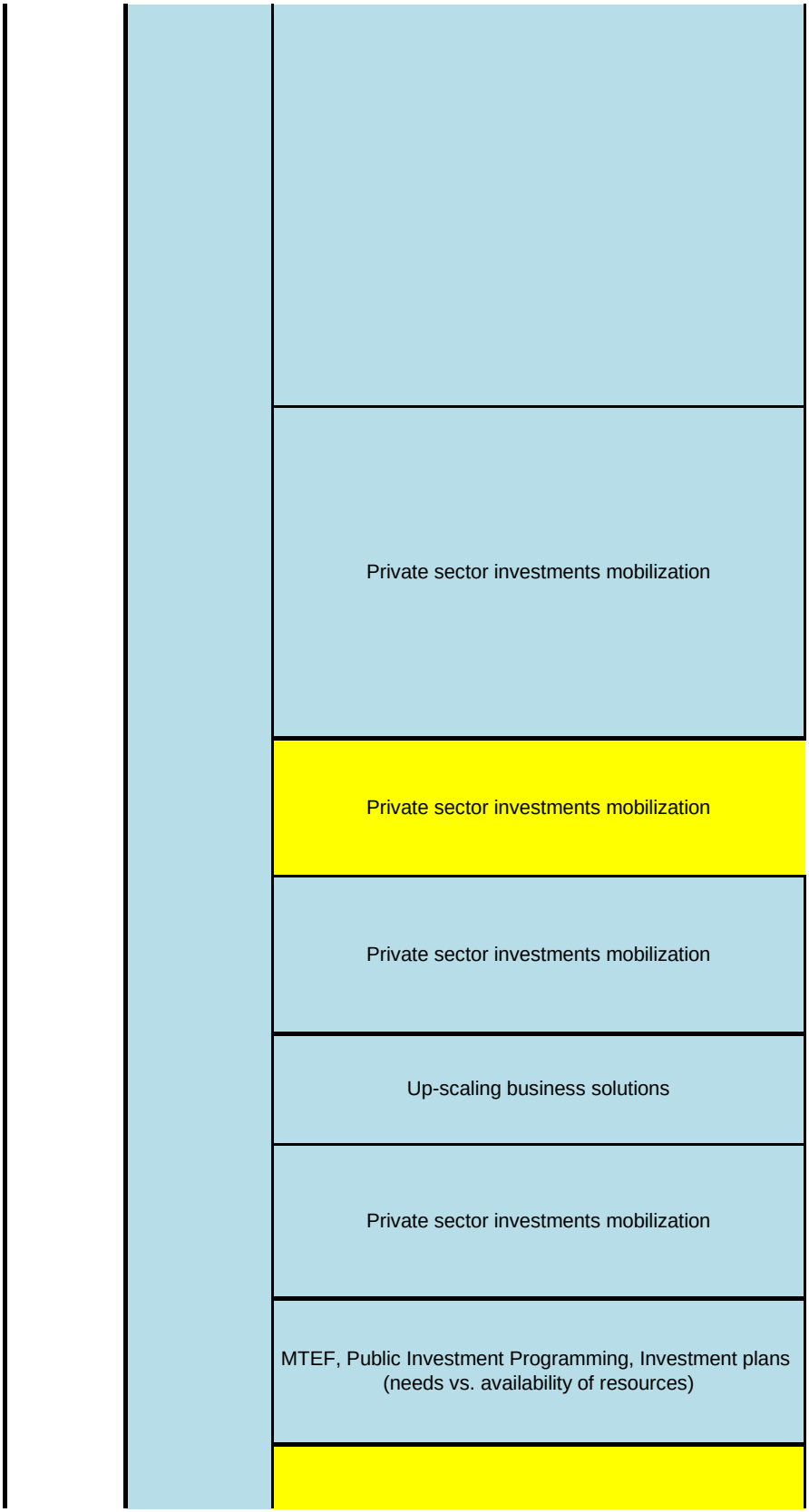
	Private sector investments mobilization


Private sector investments mobilization
Private sector investments mobilization
Private sector investments mobilization
Up-scaling business solutions
Private sector investments mobilization
MTEF, Public Investment Programming, Investment plans (needs vs. availability of resources)

	Budgeting and Investment	MTEF, Public Investment Programming, Investment plans (needs vs. availability of resources)
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		MTEF, Public Investment Programming, Investment plans

	(needs vs. availability of resources)
	MTEF, Public Investment Programming, Investment plans (needs vs. availability of resources)
Monitoring and Evaluation (M&E)	Data collection and management
pacity Building & Lesson-Learning	Communications
	Training needs in any of the other areas/sections
	Training needs in any of the other areas/sections
	Feasibility studies (social, technical, economic)
	Feasibility studies (social, technical, economic)
	Feasibility studies (social, technical, economic)
	Feasibility study completed and approved
	Feasibility studies (social, technical, economic)

	Cap	Feasibility studies (social, technical, economic)
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		Feasibility studies (social, technical, economic)
		Communications
		Training needs in any of the other areas/sections
		Communications
ii. OBJECTIVE: Adaptation to climate change strengthened in the water and agricultural sectors		
		MTEF, Public Investment Programming, Investment plans (needs vs. availability of resources)
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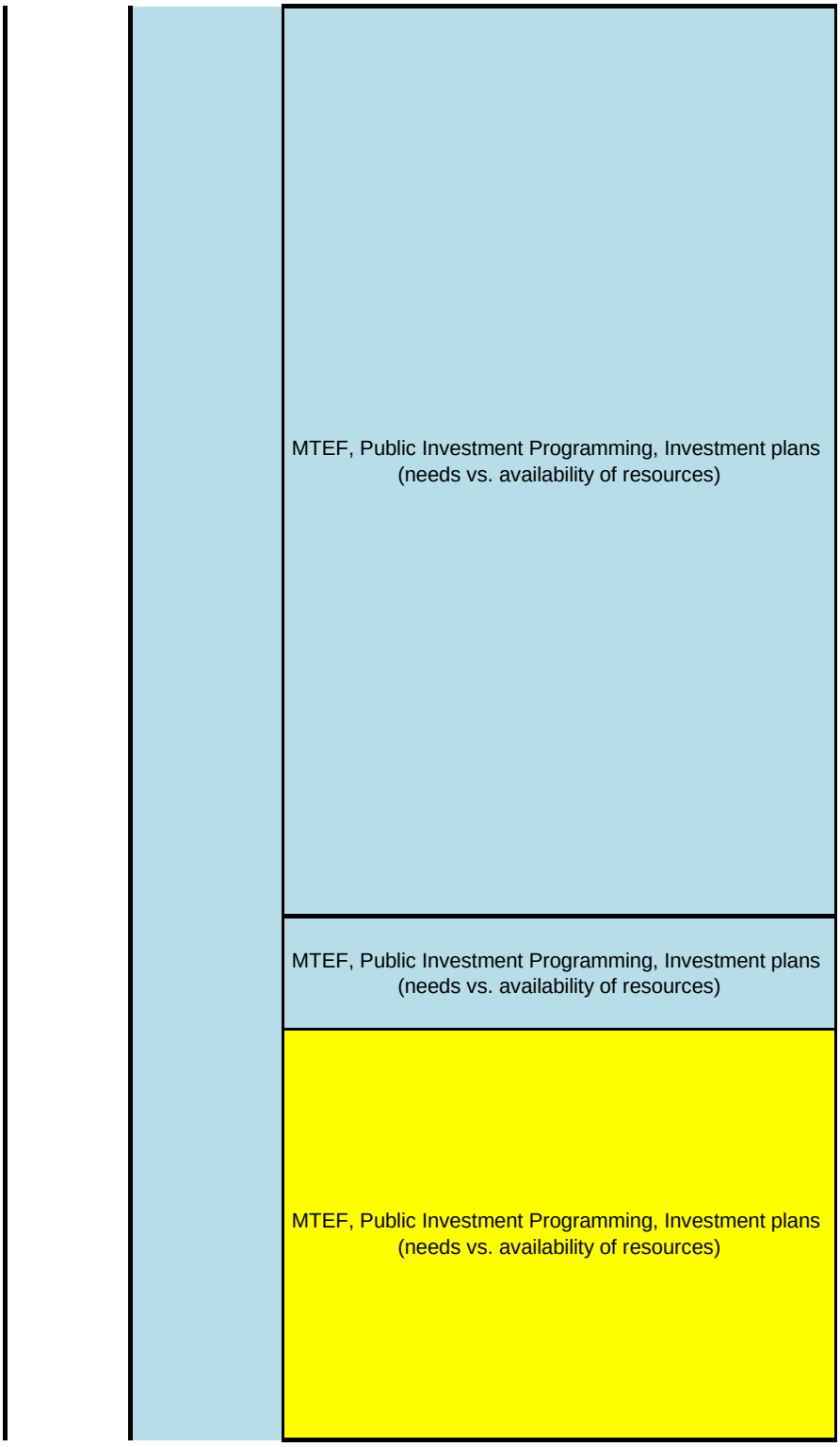
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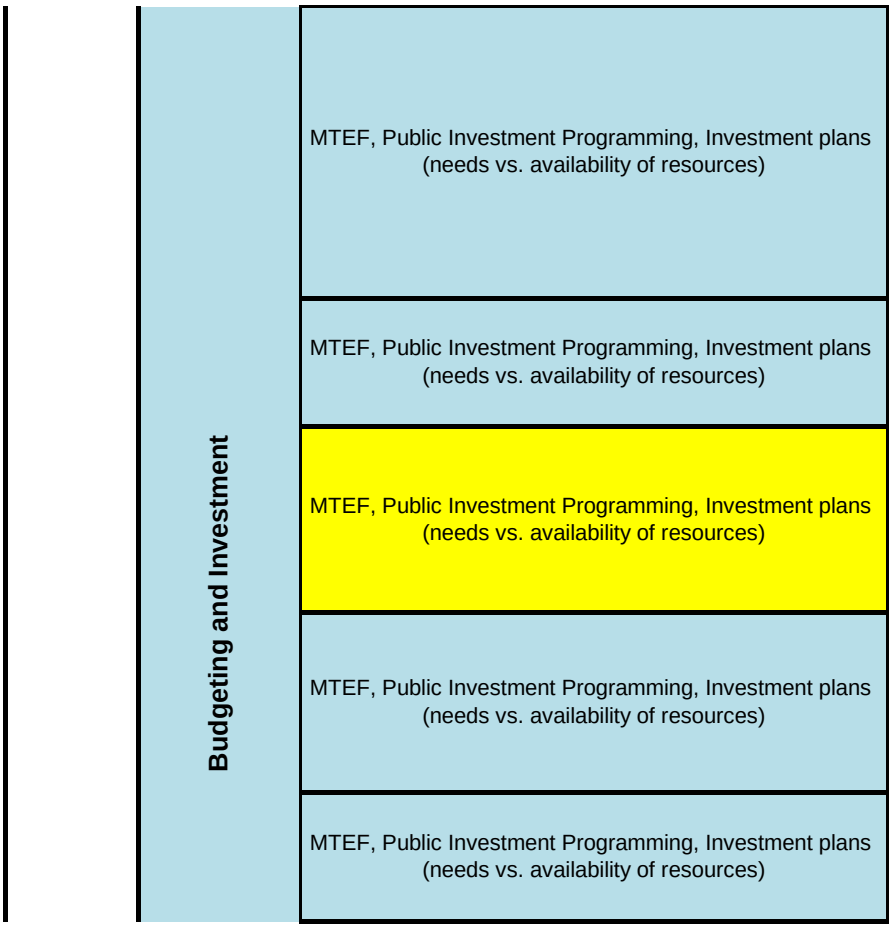
Budgeting and Investment
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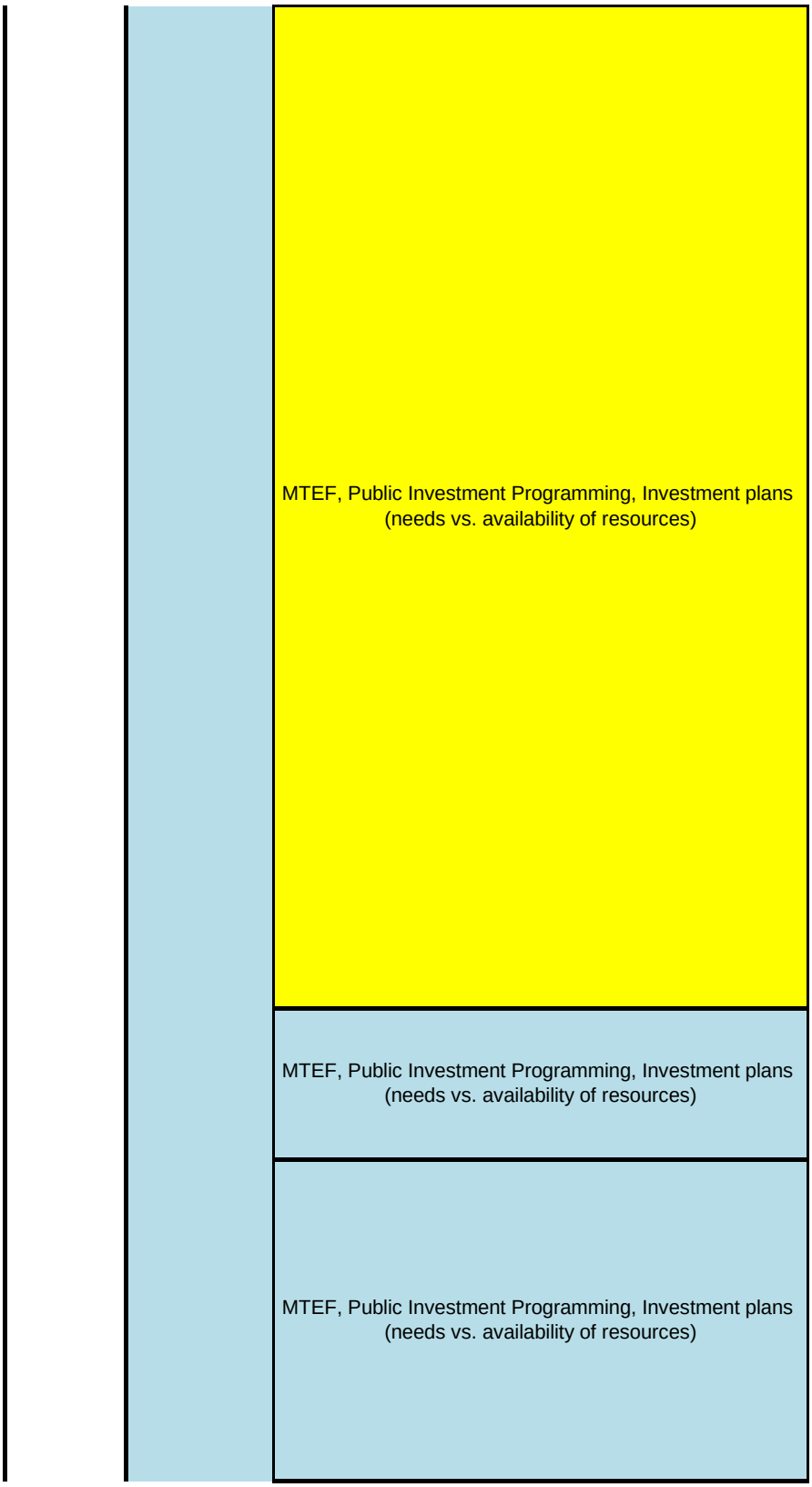
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	Raising/combining climate finance
	Raising/combining climate finance
Monitoring and Evaluation (M&E)	Data collection and management

	Capacity Building & Lesson-Learning	Feasibility studies (social, technical, economic)
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iii. OBJECTIVE: Adaptation to climate change strengthened in multiple sectors (ecosystems, gender-based resiliency, health, local governance, social conditions, etc.)		
		Policy analysis/support (cost-benefit analysis
		Policy analysis/support (cost-benefit analysis; vulnerability assessments)
		Policy analysis/support (cost-benefit analysis; vulnerability assessments)

	Policy, Strategy & Legislation	NDC mainstreaming at the national and subnational level
		NDC mainstreaming at the national and subnational level
	ment	MTEF, Public Investment Programming, Investment plans (needs vs. availability of resources)
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	Budgeting and Invest	MTEF, Public Investment Programming, Investment plans (needs vs. availability of resources)
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	Capacity Building & Lesson-Learning	Training needs in any of the other areas/sections
		Training needs in any of the other areas/sections
		Training needs in any of the other areas/sections
		Feasibility studies (social, technical, economic)

Prioritized NDC actions

ii. OUTPUTS Output statement	iii. Key Performance Indicators (KPIs)
Improved energy efficiency legal & institutional framework	Improvements in regulation framework of energy efficiency approved
Rooftop solar PV systems installed in residential buildings	Number of rooftop solar PV units installed (5000)
	Amount of GHG emissions reduced
Solar water heaters installed in residential buildings	Number of solar water heaters installed (60,000)
	Amount of GHG emissions reduced
Rooftop solar PV systems installed in public school buildings	Number of rooftop solar PV units installed (1500)
	Amount of GHG emissions reduced
Rooftop solar PV systems installed in houses of worship	Number of rooftop solar PV units installed (300)
	Amount of GHG emissions reduced

Energy audits conducted in public buildings	Number of energy audits conducted (300) Amount of potential KWh savings
Residential buildings retrofitted with roof and wall thermal insulation	Number of buildings thermally insulated (17,000) Area of roof and wall surface thermally insulated Amount of KWh saved
Energy audits and energy efficiency measures implemented at industrial small and medium enterprises (SMEs)	Number of SMEs implementing energy audits and EE measures (150)
	Amount of KWh saved
Enabling small-scale farmers vulnerable group in the agricultural sector of the use of renewable energy categories. To improve their livelihoods and food security	Amount of KWH saved
Old refrigerators replaced with more efficient, energy-labelled refrigerators	Number of old refrigerators replaced (3000) Amount of KWh saved
LED lamp fixtures replacing incandescent and fluorescent lamp fixtures in residential buildings	Number of LED lamp replacements (1,150,000)
	Amount of KWh saved
	Amount of GHG emissions mitigated
RE systems installed for small-scale poultry and cattle farmers	Number of poulty farmer beneficieries (2040) Number of cattle farmer beneficieries (720) Amount of GHG emissions mitigated
Renewable energy adopted for water pumping, as follows:	Share (%) of renewable energy in water sector
Khirbat As-Samra WWTP (100% renewable)	20 MW solar power system installed
Small to medium-sized WWTPs (100% renewable)	4.5 MW solar power system installed
From sun rays to water drops	26 MW solar power system installed
Energy over water reservoirs	15 MW solar power system installed
In-pipe hydro in Aqaba	2.5 MW solar power system installed
In-pipe hydro in Sweimeh	1 MW solar power system installed

Floating PV	50 MW solar power system installed
Powering the Wadi Al-Arab transmission line	9 MW solar power system installed
Al-Aqeb well field PV plant	9 MW solar power system installed
Disi Expansion	24 MW solar power system installed
Azraq solar pumping	15 MW solar power system installed
Al-Lajjun solar pumping	7 MW solar power system installed
Energy efficiency measures implemented in the water sector:	% reduction in energy consumption Amount of KWh saved
Zai-Dabouq water transmission system + RE	
Rehabilitation of pumping stations and well fields	
Optimization of 26 pressurized transmission lines	
Improvement of water supply systems in Madaba and Irbid	
Hydro pumped storage	Developing the pumped storage plant in case that the project has been found as feasible
Construction of a 100 MWp PV solar power plant (wheeling scheme) to provide power to SMEs	Design and construction of PV solar power plant completed
Construction of concentrated solar power (CSP) units at SMEs for industrial thermal heating purposes	Number of CSP installations at SMEs for industrial thermal heating uses (45)
Natural gas supply infrastructure installed at SMEs	Number of SMEs (30) installing NG supply infrastructure to replace diesel & liquid fuels Amount of GHG emissions reduced
Phasing out use of diesel and liquid fuels at SMEs	
Access to public transport services increased in Jarash	% Increase in use of public transport in Jarash Quantity of fossil fuel reduced in transport sector
	% Increase in use of public transport in Irbid and Zarqa,

Access to public transport services increased in Irbid and Zarqa centers	Quantity of fossil fuel reduced in transport sector
Fostering mobility in Amman through a Bus Rapid Transit (BRT) network	Increased use of public transport within Amman & reduction in private vehicle use Quantity of fossil fuel reduced in transport sector
Fostering mobility between Amman and Zarqa through a Bus Rapid Transit (BRT) line	Increased use of public transport between Amman and Zarqa & reduction in private vehicle use Quantity of fossil fuel reduced in transport sector
Battery-electric passenger vehicles deployed for use in public/government fleets	% Fraction of all-electric vehicles in public fleets Number of all-electric vehicles in public fleets Quantity of fossil fuel reduced in transport sector
Implement and applied ITS in puplic transportation	% fraction of buses used ITS
Solar Powered Electric Bus Fleet Pilot in Karak, Ma'an and Tafeilah Governorates	% Fraction of all solar power electric buses in public transport Quantity of fossil fuel reduced in transport sector
Battery-electric buses deployed for use in public transport	% Fraction of all-electric buses in public transport Tot vehicle-kilometers traveled by electric buses Quantity of fossil fuel reduced in transport sector
Battery-electric bikes deployed for use by university students	Number of students using electric bikes Number of electric bikes deployed
Demonstration-scale geothermal energy plant for heating and cooling designed and constructed	Design of geothermal plant completed Geothermal plant constructed
Energy efficient LED street lighting installed in municipalities	Number of traditional street lighting units replaced with LED units (405,000)
Rooftop solar PV systems installed in municipal buildings	Number of municipal buildings equipped with solar PV systems (85)

Green building design principles and practices demonstrated **Construction of 3 green model homes**	Three 100 m2 green model homes built in multiple Governorates (north, middle, south)
Retrofitting of homes in accordance with green design principles in five cities	Number of houses retrofitted (1000) Green design training delivered to local builders
Disseminating green building methods in local building	Sustainable practice awareness delivered to CBOs
Creating a transition towards sustainable cities in Jordan, characterized by a low-carbon economy, a resilient infrastructure, and new green jobs in urban centers	Mitigation of urban GHG emissions Implementation of adaptation measures Empowerment of workers w/ green jobs
Municipal solid waste management measures installed in Toqbol, Irbid, to mitigate methane emissions	Upgrade of a municipal solid waste transfer station in Toqbol, Irbid
Landfills rehabilitated to mitigate methane emissions	Delivering new sanitary cells in Deir Ala landfill Closure of Al-Homra old dump site Collecting & flaring methane gas from old dump
A new municipal solid waste landfill built in Ruweished	Conducting feasibility study, technical assistance, and training for a new sanitary landfill Construction of a new MSW landfill in Ruweished
New waste compactors acquired	Delivering a 100 new waste compactors to municipalities A waste transfer station in Toqbol, Irbid, upgraded
Climate Protection in the Waste Water Sector	Construction of biogas digesters at WWTPs • Rehabilitation and expansion of Re-Use WWTPs in Northern Jordan • Building of a Monolandfill (cell 1) next to As Samra WWTP
Biogas production from municipal solid waste landfill in Tafeilah for electricity and/or thermal energy generation	Upgrade of a municipal solid waste landfill in Tafeilah for biogas production

Processing of manure collected from commercial farms in Dhulail Municipality to generate compost and biogas	Design and construction of centralized facility for converting manure into energy and compost in Dhulail Municipality
Treatment of wastewater coupled with biogas production for energy generation at Dhulail Municipality	Design and construction of wastewater treatment plant and associated biogas production unit in Dhulail Municipality
Capacity to mitigate black carbon (BC) emissions enhanced	Inventory of black carbon emissions determined
Application of green building codes demonstrated in public and private buildings	Number of buildings using green building codes
Identification and quantification of the effectiveness of different policy and financial de-risking instruments for EE buildings using UNDP's de-risking methodology	Development of De-risking report
Green retrofit of main GAM buildig and City Hall	Increased energy efficiency
Capacity of GAM staff in green building design, operation, and maintenance developed	Reduced water consumption No. of capacity building programs within GAM
Demonstration of sustainable site planning and management of mixed use development promoting interconnected green space, multi-modal transportation, and clean construction	Quality of green goals achieved Achieving livable communities indicators Amount of public-private investment attrected
Walkability promoted in Amman	Length of sidewalks rehabilited
Traffic congestion reduced	Improved access to people with disabilities
Public health improved	Cultural shift towards walkability
Expanded MSW disposal capacity at Ghabawi landfill	Construction of sanitary cell at Ghabawi landfill Amount of methane emissions mitigated
Rehabilitating and upgrading biogas collection system in Ghabawi landfill	Building of biogas collection system in cells 4 & 5, and connecting it to existing collection system Amount of methane emissions mitigated
Upgrade of Ain Ghazal solid waste transfer	Solid WTS at Ain Ghazal rehabilitated

station	Amount of methane emissions mitigated
Upgrade of Al-Shaer solid waste transfer station	Solid WTS at Al-Shaer rehabilitated Amount of methane emissions mitigated
Impacts of energy efficiency & renewable energy deployments measured and verified	Plan of action for measurement and verification prepared Amount of KWh saved from each energy efficiency & renewable energy project calculated
Participation rates in JREEEF renewable energy and energy efficiency funding programs increased	Number of applicants to JREEEF renewable and energy efficiency programs (e.g., rooftop solar PV, solar water heaters, roof insulation, etc)
Industrial SMEs certified in ISO 50001	Number of industrial SMEs approved for ISO 50001 certification
Energy management training delivered to municipality managers	Number of energy management training workshops conducted for municipality managers
Adoption of energy efficiency measures and renewable energy systems by municipal managers	Number of RE and/or EE programs adopted by municipality managers
Feasibility study (technical and economic) for utilizing geothermal energy for heating and cooling purposes for different sectors completed	Feasibility study completed and approved
Feasibility study of recycling food waste effluents generated by food manufacturers conducted	Feasibility study completed & approved
Feasibility of biogas production from municipal solid waste landfill in Tafeilah for energy generation conducted	Feasibility study completed and approved
Feasibility of processing manure collected from commercial farms in Dhulail Municipality to generate compost and biogas conducted	Feasibility study completed and approved
Feasibility of treating wastewater coupled with biogas production for energy generation at Dhulail Municipality conducted	Feasibility study completed and approved

Renewable energy assessments conducted for SMEs	Number of renewable energy assessments for SMEs conducted
National Environmental Impact Assessment (EIA) of switching from diesel fuel to natural gas (NG) conducted	Environmental impact assessment (EIA) conducted & approved
Feasibility study of solar wall technology for industrial applications at SMEs conducted	Feasibility study conducted & approved
Awareness of RE & EE applications & benefits targeting industrial SMEs raised	Number of SMEs attending RE & EE awareness raising campaign events (1050) Number of campaign events held (36)
Energy managers at industrial SMEs qualified for certification in energy management	Number of energy managers certified (150)
Faster adoption of EE & RE measures at industrial SMEs	Number of EE & RE measures adopted
General student population informed about climate change mitigation and adaptation action	No. of training courses targeting teachers (100) Number of school events (100)
Capacity of education sector to address climate change raised	Number of awarteness events at schools

OUTPUTS **Output statement**	**iii. Key Performance Indicators (KPIs)**
Municipal water distribution network in Ayna, Karak Governorate, rehabilitated	% rise in efficiency of distribution network
Municipal water distribution network in Faqou'a, Karak Governorate, rehabilitated	% rise in efficiency of distribution network

Irrigation distribution network in Northern section of the Al-Aghwar rehabilitated	% rise in efficiency of irrigation network

Irrigation distribution network in the mid section of Al-Aghwar rehabilitated	% rise in efficiency of irrigation network
Irrigation distribution network in the Northeastern section of Al-Aghwar rehabilitated	% rise in efficiency of irrigation network
Increased capacity in Balqa'a Governorate to collect and treat wastewater in a region that is not servced with water sanitation services	WWTP in Balqa'a designed and built Coverage (%) of wastewater service Treated wastewater (%) reused

Expansion of Wadi Hassan WWTP and wastewater network serving municipality of Al-Jnaid and North Jarash	Coverage (%) of wastewater service Treated wastewater (%) reused
Construction of WWTP and wastewater network serving district of Al-Koura	Coverage (%) of wastewater service Treated wastewater (%) reused
Expansion of Al-Ramtha WWTP and wastewater network serving municipality of Sahl Houran and city of Al-Ramtha	Coverage (%) of wastewater service Treated wastewater (%) reused
Construction of wastewater networks in Naour	Coverage (%) of wastewater service Treated wastewater (%) reused
Construction of wastewater networks in Madaba	Coverage (%) of wastewater service Treated wastewater (%) reused
Construction of wastewater networks in Al-Azraq	Coverage (%) of wastewater service Treated wastewater (%) reused
Construction of wastewater networks in South Amman	Coverage (%) of wastewater service Treated wastewater (%) reused

Construction of wastewater networks in Ma'an	Coverage (%) of wastewater service Treated wastewater (%) reused
Construction of wastewater networks in Al-Karak	Coverage (%) of wastewater service Treated wastewater (%) reused
Construction of wastewater networks in Dhulail, Hallabat, and Khaldiah	Coverage (%) of wastewater service Treated wastewater (%) reused
Construction of wastewater networks in Al-jbarat, Al-Manarah, and other areas in Jarash	Coverage (%) of wastewater service Treated wastewater (%) reused
Expansion of Khirbat As-Samra WWTP (phase 3)	Coverage (%) of wastewater service Treated wastewater (%) reused
Increased capacity to collect and treat wastewater in the Jordan Valley	Wastewater infrastructure and treatment plant serving the Jordan Valley designed and built
Water harvesting (capture and storage) projects implemented in the Badia	Number of water harvesting projects completed Amount of water captured and stored Improvement in livelihood security by users
Capacity of MOA staff to plan for climate change adaptation strengthened	Number of trained staff (60) Number of training workshops (12)
Grazing reserves by water harvesting sites established & rehabilitated	Area of new sites reserved for grazing established
Ecosystem services restored and sustainably managed	Area of degraded grazing reserves rehabilitated
Livelihood activities diversified & poverty reduced in Badia	Increase in vegetation cover & livestock production
Agricultural Risk Management To reduce frost effects	no. of farmer participating in Training courses for plant and animal production farmers about how agricultural risk management to reduce their effects by use the new technology.

Reduce soil erosion through the management and harvesting of rainwater amongst small farmers in rural areas in Jordan	no of benificiers
Strengthening the capability of the private sector on marketing the agricultural products (Marketing services companies).	% of increaing in ex[ort of jordanian fruit and vegetables
Rehabilitation of rangeland reserves implemented	Area of degraded rangeland rehabilitated
Water harvesting systems designed & built	Number of water harvesting systems built
	Production increase in livestock
Hima system for rangeland management implemented	Completion of soil & socioeconomic assessments
Community participation in rangeland management implemented	Adherence to Hima principles in rangeland use
Ecosystem services restored and sustainably managed	Area of degraded rangeland rehabilitated
Water harvesting techniques introduced in rangeland	See water harvesting in Badia project in water sector (see details in Row 257)
Forestation of recreational parks	Number of parks established (5)
Mitigating soil erosion	Size of area forested (200 dunums)
Creating jobs for low-income families tending ther parks	Number of trees forested (3,000)
Water irrigation channels upgraded & maintained	Length of water channels upgraded (30 Km)
Springs and water sources protected from pollution	Agricultural water yield improved
Income & resilience of poor families in rural areas and Badia improved by providing a package of free livestock and skills training	Number of low-income families targeted (5,000)
	Improvement in income levels of beneficiaries
	Percentage of women beneficiaries
New jobs created through green works in agriculture and forestry	Number of new jobs created (1,000)
Workers acquiring skills in forestation, terrace building, drip irrigation, cistern construction, and seedling production	Area of land newly forested (3,000 donums)
	Number of trees forested (270,000)
Assessment of the impact of climate change on water productivity of rainfed and irrigated crops in three regions (north, middle, and south) of Jordan	Prediction of changes in water productivity of crops in Jordan over 2020-2030 and 2040-2050 relative to base period 1985-2005
	TBD

Land reclamation implemented	Area of land reclaimed for agriculture (15,000 donums)
	Amount of financial assitance offered to farmers
Supplementary irrigation of rainfed olive trees implemented	Improvement in yield of rainfed olive trees
Yield of rainfed olive trees increased	Area of farmland served w/ supplementary irrigation
Organic agriculture methods introduced	Area of farmland converted to organic
Contract farming introduced	Volume of contract farming concluded
Resiliency of small farmers and rural women strengthened	
School children trained to plant, care for, and harvest olive trees in their schools using treated greywater	Number of olive trees planted (9,000)
	Number of participating schools (100)
Mainstreaming use of treated greywater for irrigation	
Domestic/small scale aquaponics production units installed	Number of units installed (300)
	Small scale aqauaponics production demonstrated

Economic empowerment of rural women	Permanent farmer markets set up (3) in three cities
Enhancing skills of rural women in food production & marketing	No. of food production & marketing workshops
Enhancing livelihood of rural women and their families	No. of new jobs created for rural women (900)
Home gardens promoted	Number of agricultural associations engaged
Household food security achieved	
Agricultural associations activated	
Improving productivity of farmers thru mechanized farming	No. of mechanized equipment introduced (50)
Area of cultivation expanded - Reduction in harvest loss	No. of workshops for field stations (120)
New jobs created	No. of new jobs created (1,150)

Capacity of recent university graduates and the unemployed enhanced thru training and establishment of hydroponics and aquaponics incubators	Number of trainees (1,080)
	Number of workshops (54)/Number of ToTs (6)
	Number of incubators (6)
Re-settlement of date palm trees in Al-Azraq ecosystem	Area of land planted with datepalm trees
Income-generating activities for rural communities supported	Energy saving from PV-powered pumping system
Green cover deterioration and desertification risk mitigated	Number of jobs created by project
Increasing the resilience of displaced persons to climate change-related water challenges in urban host settlements	KPIs cannot be defined because the project to enhance resiliece has not been selected yet
Enhancing community resilience by building a 100 Km green belt and launching ecosystem-based enterprises inside forested areas located east of Amman and Zarqa at	Decrease in desertification
	Planting appropriate tree species

areas located east of Amman and Zarqa at the desert edge	Investment plans in ecosystem-based projects prepared
Sustainable recreational parks developed and managed by community-based organizations (CBOs) in each Governorate	Number of sites identified and developed (12)
	CBOs identified and selected
Enhancing the capacity to store water and provide cash by building 500 water cisterns	Number of water cisterns built (500)
	Number of worker beneficiaries
	Impact of water storage on target communities
Conservation of local landraces	Mainstreaming the use of landraces
Strengthening resilience of ecosystems to climate change stresses	Breeding toward resilience, value, and quality
Enhanced adaptive capacity & income for small farmers	Upgrading of the gene bank
Prioritized adaptation practices implemented	Improvement in crop yield
Efficient planning & use of resources & enhancing productivity	Implementation of soil & water adaptation practices
Increased farm income & investment in CC adaptation	Poverty alleviation
Identification of suitable water harvesting sites in Badia	GIS mapping of water harvesting sites
Scenarios developed for applying water harvesting techniques	Water harvesting scenarios developed
Rehabilitated vegetation cover and pastures	Awareness-raising for local communities
Conceptual framework combining silvicultural, ecological and community-based approaches for afforestation & honeybee foraging	Afforested dryland area & plant selection
	Integration of local communities
Developing new knowledge-based policy for afforestation	Extended area of honeybee foraging
Selecting new varieties of wheat with increased salinity tolerance	No. of salinity-resistant wheat varieties selected
Wheat cultivation expanded to new areas	Area expanded for wheat cultivation
Sustainable, participatory roadside afforestation implemented	Number of trees planted
Reduced poverty by providing afforestation jobs	Number of extension workshops conducted
Improved ecosystems and enhanced biodiversity	Number of people trained on afforestation
Building gardens in public schools using permaculture	Number of participant schools/trained students
Introducing permaculture in vocational education courses	No. of permaculture training courses developed
Students awareness of land, wild outdoors, and health raised	Quality of school permaculture gardens
Risks of climate change on epidemiology of plant pests assessed	No. of awareness raising events conducted

Farmers and extension agents awareness of new pests and control measures developed	Communication tools to educate farmers
	Warning system about risks designed
Scaling up cultivation of quinoa as an adaptation action	Developing technical packages for quinoa
Improved food and nutritional security in poor communities	No. of training workshops/No. of farmers trained
	Area targeted for quinoa cultivation
Crop modeling framework to improve management of cropping systems and provide farmers with CC adaptive measures	Productivity incease in rain-fed crops
	Efficiency of natural resource use (water, soil)
Exploration of crop scenarios facilitated using expert system	Dissemination of results thru farmers training
Dissemination of conservation agriculture to increase wheat and barley production in dry areas using improved varieties	No. of trainings on CA practices delivered
	Identifying wheat landrace adapted to no-till
Enhancing food security under climate change scenarios	Improvement in soil productivity
Development of high efficiency gray water treatment system using coagulation and flocculation materials extracted from plants	
	Amount of treated gray water re-used in irrigation
Development of gray water treatment system using shredded tire as bio-filter	Effectiveness of shredded tire filtration system
	Results of soil, crop, and water monitoring
	No. of training sessions delivered to beneficiaries
Treatment of gray water and re-use demonstrated	20 graywater treatment units will be installed in each of six villages
Scale-up of gray water treatment and reuse in home garden irrigation using findings from NARC development studies/projects	
	No. of public awareness & education workshops
Land use change mapped in Amman (1984 to 2018) using GIS and remote sensing methods to detect changes in vegetation cover	Spectral vegetation indices on satellite images
	Sharing of research results with decision-makers
Awareness of impact of urbanization on agricultural land raised	Changes in land use laws and policies
Improving rural livelihood by developing Carob cultivars	National survey of Carob tree species
Diversified farm income and enhanced	Propagating Carob species in protected areas

resiliency	Raised awareness about Carob species
Improved field pest control using sustainable pest management	Rearing and adding natural enemies to soil
Enhanced adaptive capacity and resiliency of plants	Number of awareness campaigns and workshops
	Plant resistance and tolerance to soil pathogens
Method to detoxify olive oil mill wastewater demonstrated	Purification method tested using nano-materials
Environmental chemistry lab established for pollutant detection	Environmental chemistry lab established
Protecting ecosystems and water resources from OMW pollution	
Integrating climate change adaptation and mitigation into the watershed management plan of Wadi Shouib	Development of watershed management plan
	Number of green jobs created in the wadi
Guidance and tools developed to support SMEs go green and help youth sustain agricultural activities in the wadi	Technical assistance and financial incentives to farmers
Sustainable land use planning to improve land productivity and increase ecosystem integrity	Guidance tools for agricultural land use developed
Appropriate adaptation interventions identified to restore degraded lands and rangelands and improve resiliency to drought	Land use scenarios proposed under climate change conditions, pointing out potential productive lands to increase income generating opportunities and food supply
A revolving loan fund for supporting climate change mitigation and adaptation action by farmers created	Size of fund raised (10 million JOD) Number of beneficieries (4,500)
Strengthening institutional capacity of Jordan Environmental Fund (JEF) to enhance ability of JEF beneficiaries (NGOs & public sector actors) to implement CC mitigation and adaptation actions	No. of stakeholders engaged annually
	Technical assistance unit established at JEF
	Amount of funding raised
M&E and data analysis for water (focus on water for agricultural use) and waste (focus on solid waste) sectors	Plan of action for measurement and verification prepared Improvement on NDC target in water sector Improvement on NDC target in waste sector
Feasibility study of rehabilitating irrigation	

distribution network in the Northern section of the Al-Aghwar conducted	Feasibility study prepared & approved
Feasibility study of rehabilitating irrigation distribution network in the mid section of Al-Aghwar conducted	Feasibility study prepared & approved
Feasibility study of rehabilitating irrigation distribution network in the Northeastern section of Al-Aghwar conducted	Feasibility study prepared & approved
Feasibility study of introducing SCADA system in Southern region of Jordan Valley conducted	Feasibility study prepared & approved
Wadi Nkhail dam project feasibility study conducted	Feasibility study prepared & approved
Technical study of the Tilal Dhahab dam project conducted	Feasibility study prepared & approved
Feasibility Study to reduce water losses and increase water savings in the northern part of King Abdullah Canal	Feasibility study prepared & approved
Feasibility study on the transfer of treated wastewater from the South Amman wastewater Treatment plant to the Wadi Husban dam and conveyance to the King Abdullah Canal	Feasibility study prepared & approved

ii. OUTPUTS	**iii. Key Performance Indicators (KPIs)**
Output statement	
An assessment of the relative benefits of the 35 individual NDC actions for reducing GHG emissions (i.e. mitigation) and reducing potential climate impacts (i.e. adaptation)	Cost-benefit analysis – as an assessment of the relative benefits of the 35 individual NDC actions
Improved conservation status of climate vulnerable ecosystems and strengthened adaptive capacities of key ecological hotspots	Vulnerability assessment of ecosystems to climate change updated
Conservation plan for climate vulnerable ecosystems updated and network of protected areas (PAs), revised PA buffer zones, and spacial conservation areas (SCAs) officially established	PA network update report published

Enhanced capacities to develop mitigation and adaptation plans	Enhanced ability to formulate and implement CC actions (mitigation and adaptation) and sustainable energy policies at local levels
Increased number of local sustainable actions (SEACAPs)	
assessment of the potential sources of financing for the prioritised options	
Improved access to financing mechanisms	
Enhanced capacities in Aqaba Special Economic Zone Authority (ASEZA) to develop mitigation and adaptation plans	Legislative and policy mechanisms to mainstream climate change action in ASEZA developed & approved
Health sector preparedness strengthened	Database for climate sensitive disease established
Surveillance system for climate change sensitive diseases established in 15 sentinel hospitals and 20 health centers	Incidence and prevalence of climate sensitive diseases determined
Surveillance system for occupational climate change sensitive diseases established	Database for occupational climate sensitive disease established & incidence and prevalence of occupational climate sensitive diseases determined

Leishmania Unit in Division of Parasitic and Zoonotic Diseases established	Preparedness of public health system to diagnose, monitor, and treat leishmania strengthened
Enhancing income of rural families falling below the poverty line **New jobs created** **Improved development services in local community**	Number of new income-enhancing projects introduced (18) Number of participating CBOs (18)
Income and agricultural productivity projects targeting poor rural households expanded **Income diversification for rural households**	Number of additional projects introduced (15) Number of new jobs created (90)
Enhancing capacity of MoSD staff to design and deliver climate resilient services to women and the poor **Raising awareness of MoSD staff of climate change risks & actions**	Number of training workshops (9) Number of trainee beneficiries (225) Improvement in qualities of MoSD programs
Enhancing leadershjp capacity of community-based groups (CBOs) to address climate change **Raising women's awareness of climate change risks & actions**	Number of training workshops (15) Number of CBOs eficiries (20) Improvement in poverty reduction programs
Contribution of non-governmental actors in ASEZA to support NDC implementation increased	Capacity of sectors/institutions within Aqaba to act on climate change strengthened
Capacities of non-governmental actors in ASEZA to conduct climate change research enhanced	Assessment of blue carbon storage and emission in Gulf of Aqaba published by non-governmental actors
Blue Economy Principles for Improved Touristic Competitiveness, Livelihoods of the Fishermen Community, Industrial Development and Monitoring Indicators of Pollution Control and Climate Change in the Jordanian Sector of the Gulf of Aqaba, Red Sea	Environmental Quality Standards

iv. Baseline	v. Targets			vi. Lead ministry	vii. Funding requirements (total)
	Yr 1 2019	Yr 2 2020	Yr 3 2021		
		EE regulation framework approved		MEMR-JCI-JCC-MoIT	
300 solar PV units	1000 solar PV units	2000 solar PV units	2000 solar PV units	MEMR-JREEEF	10.5 million JOD
24,000 SWHs	20,000 SWHs	20,000 SWHs	20,000 SWHs	MEMR-JREEEF	30 million JOD
130 solar PV units	500 solar PV units	500 solar PV units	500 solar PV units	MEMR-JREEEF	21 million JOD
250 solar PV units	100 solar PV units	100 solar PV units	100 solar PV units	MEMR-JREEEF-Ministry of Islamic Affairs	4.2 million JOD

20 energy audits	100 audits	100 audits	100 audits	MEMR-JREEEF-Ministry of Public Works and	300,000 JOD
	2,000 buildings	5,000 buildings	10,000 buildings	MEMR-JREEEF	Roof insulation: 32 M JOD Roof and wall insulation: 80 M JOD
60 SMEs	50 SMEs	50 SMEs	50 SMEs	MEMR-JREEEF-Jordan Chamber of Industry	105 million JOD
0	1,000 refrigerators	1,000 refrigerators	1,000 refrigerators	MEMR-JREEEF-JEPCO-EDCO-IDECO	3 million JOD
0	TBD	TBD	TBD		
150,000 LED lamps	150,000 LED lamps	500,000 LED lamps	500,000 LED lamps	MEMR-JREEEF-JEPCO-EDCO-IDECO	12 million JOD
	TBD	TBD	TBD		
	680 poultry farmers	680 poultry farmers	680 poultry farmers	MOA	20 million JOD
	240 cattle farmers	240 cattle farmers	240 cattle farmers	MEMR	
				Livestock cooperatives	
			Total installed capacity of 183 MW		
					€18.4 million
					€4.9 million
					€191.5 million
					€15.5 million
					€7.5 million
				MWI-MEMR-WAJ-JVA	€4 million

			Raise share of renewable energy in water sector to 10%	WAJ-JVA	€65.5 million
					€9.3 million
					€9.3 million
					€26.4 million
					€14.1 million
					€7.2 million
			15% reduction in specific energy consumption	MWI-MEMR-WAJ-JVA	€103 million
	47 GWH saved				3.29 million JOD
	21 GWH saved				Irbid: 21.5 million JOD
0				Ministry of Energy , private sector, NEPCO	200MUS$
	Design of solar PV plant completed	Construction of solar PV plant completed	PV solar power plant operated	JCI MEMR SMEs	70 million JOD
0	5 CSP units installed	15 CSP units installed	25 CSP units installed	JCI SMEs	25 million JOD
0	10 SMEs	10 SMEs	10 SMEs	SMEs	75 million JOD
TBD	% rise in person-km traveled by public transport in Jarash	% rise in person-km traveled by public transport in Jarash	% rise in person-km traveled by public transport in Jarash	MOT Jarash Municipality LTRC	
	% rise in	% rise in	% rise in	MOT-Municipalities	

0	person-km traveled by public transport	person-km traveled by public transport	person-km traveled by public transport	of the Irbid and zarqa urban centers-LTRC	20 million JOD
	Construction of infrastructure	Commissioning of BRT in Amman	48,000 tonnes of CO_2 eq/yr mitigated 315,000 riders/day	Greater Amman Municipality (GAM) MOT	$250 million
Designs completed	TBD	TBD	TBD	Ministry of Public Works MOT-LTRC GAM	
Enter no. of current electric vehicles in public fleets	15%	30%	75%	MOT-LTRC-GAM-MEMR-Government ministries-NEPCO	
0		20%		MOT-LTRC-	6MUS$
0			20%	MOT-LTRC-Southren Jordan-Municipalities-in Ma'an, Karak, Tafilah	$ 46 million
0	TBD	TBD	TBD	MOT-LTRC-GAM-MEMR-NEPCO-MoEnv-JEF	
0 0	Establishing electric bike standards, bike lanes, finance options	500 students at one university	1500 students at two universities	MOT-LTRC-GAM-Municipalities-Universities-Public Security	$5 million
Feasibility studies prepared	Geothermal plant design & construction	Geothermal plant design & construction	Geothermal plant commissioned for operation	MEMR-JREEEF-NEPCO	TBD based on the feasibility study
80,000 LED lightd installed	135,000 LED lightd installed	135,000 LED lightd installed	135,000 LED lightd installed	MOMA-MEMR-JREEEF-Municipalities	$70-90 million
15 municipal buildings 30 KWp installed	50 municipal buildings	20 municipal buildings	15 municipal buildings	MOMA-Municipalities	$3 million

0	Plans and designs prepared & approved	Home building completed Training delivered	Awarness campaign launched	MOMA	
48 housed retrofitted	Retrofit of 300 homes	Retrofit of 300 homes	Retrofit of 400 homes	MoEnv-JEF-JGBC-MOMA	3.3 million JOD
Replication of Green Affordable Homes project	Training to 15 CBOs delivered	Project video prepared	Sustainable practices awareness delivered to 1000 households		
	Training delivered to 25 local builders	Sustainability awareness developed	Knowledge sharing workshop organized		
	Urban mobility	Waste recycling	Community	MOPIC-MOMA-MoEnv-MOT-MEMR-CSBE-JEF	
	Land use planning	Urban safety	Green jobs		
	Energy efficiency	Water efficiency	Governance		
			Upgrade of waste transfer station completed	Ministry of Municipal Affairs	$3.5 million
			Rehabilitation of landfills completed	Ministry of Municipal Affairs	$10 million
			New MSW sanitary landfill constructed	Ministry of Municipal Affairs	$10 million
	60 waste compactors	20 waste compactors	20 waste compactors	Ministry of Municipal Affairs	$10 million
	Design of landfill upgrade completed & approved	Upgrade of landfill in progress	Upgrade of landfill completed	MoEnv MOMA Tafeilah Municipality	$23.25 million

	Design of facility completed & approved	Construction of facility in progress	Construction of facility completed	MoEnv-MOMA-MOA-JEF Dhulail Municipality	$11.75 million
	Design of WWTP completed & approved	Construction of WWTP in progress	Construction of WWTP completed	WAJ-MWI-MoEnv-MOMA-Dhulail Municipality	$23.5 million
	Instruments for measuring BC installed	Data collection and modeling in progress	Inventory baseline of BC emissions determined	MoEnv-MOT	$500,000
0	0	3	3	Greater Amman Municipality (GAM)	$2.64m
0	0	0	1		
0	Not available	Not available	Not available	GAM JGBC Jordan Engineers Asso.	
				Greater Amman Municipality (GAM)	
0				Greater Amman Municipality (GAM)	
				Greater Amman Municipality (GAM)	
				Greater Amman Municipality (GAM)	
				Greater Amman	

				Municipality (GAM)	
				Greater Amman Municipality (GAM)	
	KWh saved	KWh saved	KWh saved	MEMR-JREEEF	TBD based on scope and type of RE and EE measures applied
TBD	30% of target audience	50% of target audience	70-100% of target audience	MEMR-JREEEF	
0	50	50	50	MEMR-JREEEF-Jordan Chamber of Industry	TBD based on scope
0				MOMA-JREEEF-Municipalities	
0					
Geological data available			Feasibility study approved	MEMR-JREEEF-NEPCO	500,000 JOD
	Feasibility study approved			Jordan Chamber of Industry (JCI) SMEs in food industry	15,000 JOD
	Feasibility study completed & approved			MoEnv-MOMA-Tafeilah Municipality	$2 million
	Feasibility study completed & approved			MoEnv-MOMA-MOA-Dhulail Municipality	$1 million
	Feasibility study completed & approved			MoEnv-MOMA-Dhulail Municipality	$2 million
				Jordan	

	50 assessments	50 assessments	50 assessments	Jordan Chamber of Industry	60,000 JOD
				SMEs	
				Jordan Chamber of Industry	50,000 JOD
	EIA approved				
				SMEs	
	Feasibility study completed & approved			Jordan Chamber of Industry	
				SMEs	
0	300 SMEs	350 SMEs	400 SMEs	JCI Local chambers of industry	225,000 JOD
0	12 events	12 events	12 events	JIEC	
	50 managers	50 managers	50 managers	Jordan Chamber of Industry	75,000 JOD
	TBD	TBD	TBD	SMEs	
0	50 training courses	50 training courses		GAM	50,000 JOD
0	50 school events	50 school events		Ministry of Education	
0	Two movies made	Park rehabilitation			

iv. Baseline	v. Targets			vi. Lead ministry	vii. Funding requirements (total)
	Yr 1 2019	Yr 2 2020	Yr 3 2021		
Current efficiency	TBD	TBD	TBD	MWI-WAJ-Water companies	$5.7 million
	TBD	TBD	TBD		
Current efficiency	TBD	TBD	TBD	MWI-WAJ-Water companies	$4.3 million
	TBD	TBD	TBD		

Current efficiency		Efficiency of irrigation network raised to 85%		MWI-JVA	$8.5 million

Current efficiency		Efficiency of irrigation network raised to 85%		MWI-JVA	$11.3 million
Current efficiency		Efficiency of irrigation network raised to		MWI-JVA	$8.5 million
			WWTP built by 2023	MWI-WAJ	€115 million

	Piloting A decentralized WWTP in Finan Eco-lodges	Piloting environmentally friendly and low-maintenance treatment of sewage sludge at Wadi Hassan WWTP	□	MWI- WAJ MWI-WAJ	6.5 M EUR 25 million JOD
				MWI-WAJ	38 million JOD
				MWI-WAJ	38 million JOD
				MWI-WAJ	22 million JOD
				MWI-WAJ	45 million JOD
				MWI-WAJ	15 million JOD
				MWI-WAJ	70 million JOD

				MWI-WAJ	10 million JOD
				MWI-WAJ	17.5 million JOD
				MWI-WAJ	55 million JOD
				MWI-WAJ	12 million JOD
				MWI-WAJ BOT	230 million JOD
				MWI-JVA	
37 water harvesting projects completed from 2016 to present	15 water harvesting projects	15 water harvesting projects	15 water harvesting projects	MWI-MOA	6 million JOD
	30 staff 4 workshops held	15 staff 4 workshops held	15 staff 4 workshops held	MOA	130,000 JOD
	Two new grazing sites (3000 donums) designed & established	Assessment studies completed Training delivered to local	Vegetation cover in 2 degraded grazing sites (2000 donums) restored	MOA	800,000 JOD
				MOA. NARC	9.00 MUS$

				MOA.,small Farmers	
				MOA, private sector	12 MUS$
	Assessments of soil & vegetation cover completed	5,000 donums of rangeland planted w/ artiplex (saltbush)	Grazing activities regulated & training delivered	MOA	500,000 JOD
Replication of 1000 donums Hima project in Bani Hashem	Assessments completed and approved	Association set up Training delivered Buy-in secured	5,000 donums under Hima restoration Grazing regulated	MOA	900,000 JOD
	2 parks established 70 dunums forested 1,000 trees planted	2 parks established 70 dunums forested 1,000 trees planted	1 park established 60 dunums forested 1,000 trees planted	MOA	3.5 million JOD
13.5 Km of water channels upgraded in 2018	Completing the upgrading of 10 Km of water	Completing the upgrading of 10 Km of water	Completing the upgrading of 10 Km of water	MOA	1 million JOD
10,000 current beneficiaries	1,500 families	1,500 families	2,000 families	MOA	5 million JOD
	250 jobs	250 jobs	500 jobs	MOA-Ministry of Labour-MOPIC-CBOs	3 million JOD
	1000 donum forested	1000 donum forested	2000 donum forested		
			270000 tree forested		
Replication & expansion of an existing project	Collection of weather data and selection of crops	Agricultural survey completed	Report mapping water productivity changes	MOA	600,000 JOD

Replication of a concluded IFAD-financed project	Reclamation of 5,000 donums	Reclamation of 5,000 donums	Reclamation of 5,000 donums	MOA	8 million JOD
	Awareness raising delivered	Supplementary irrigation applied to TBD donums	Yield improved by TBD%	MOA	
	Cisterns built				
	Training delivered	Soil preparation on-going	Organic certification applications submitted	MOA-JSMO	4 million JOD over 4 years
	Detoxification of farmland started				
Since 2017, 2950 olive trees have been planted in 37 schools	3,000 olive trees planted in 35 schools	3,000 olive trees planted in 35 schools	3,000 olive trees planted in 30 schools	MOA Philanthropists	100,000 JOD
				MOA	1 million JOD
Designs completed	100 units installed	100 units installed	100 units installed		

	1 market set up in Amman	2 markets set up in Irbid & Zarqa	Overall, 75,000 beneficieries	MOA- Ministry of Industry and Trade- Ministry of Health- Ministry of Social Development -JSMO- CBOs	10 million JOD
	5 workshops	5 workshops	5 workshops		
	300 jobs created	300 jobs created	300 jobs created		
	35 agricultural associations engaged	35 agricultural associations engaged	35 agricultural associations engaged	MOA	500,000 JOD over 4 years
	15 machines	20 machines	15 machines	MOA	
	50 workshops	90 workshops	20 workshops	Jordanian Agricultural Engineering Association	7 million JOD
	345 new jobs	460 new jobs	345 new jobs		

	360 trainees	360 trainees	360 trainees	MOA	6.3 million JOD
	18 workshops/2 ToTs	18 workshops/2 ToTs	18 workshops/2 ToTs	CBOs	
	2 incubators	2 incubators	2 incubators		
	Needs assessment completed	Water irrigation system powered by solar PV installed	Water harvesting structures rehabilitated	MOA	5 million JOD over 4 years
	100 donums planted				
				MWI-MoEnv-MOPIC-MOMA-Municipalities of Irbid and Mafraq	$7 million for National Component
	TBD by August 2019	TBD by August 2019	TBD by August 2019		
	Action plan prepared	Site prepared	Trees planted	CBOs/NGOs -MoEnv-JEF-MOA-MWI-MOMA-	2.5 million JOD
	Tree species selected	Eco-system based	Eco-system based		

	Design completed	investments approved	projects implemented	MOPWH-RSCN-CSBE	
3 sites identified Concept developed Funding identified	3 parks implemented 3 additional parks identified	3 parks implemented 3 additional parks identified	3 parks implemented 3 additional parks identified	MoEnv-JEF-MOA-MOMA-MoTA-CBOs & NGOs-Private	$2.3 million
500 cisterns built	Effect of cisterns on socio-economic conditions			MOA	
				NARC MOA	500,000 JOD
				NARC MOA	250,000 JOD
				MWI-MoEnv	
				NARC MOA MWI	120,000 JOD
				NARC MOA	$970,000
				NARC MOA MWI	200,000 JOD
				NARC MOA MWI-MoEnv	600,000 JOD
				NARC MOA MoEdu	250,000 JOD
				NARC	

				MOA	120,000 JOD
				MoEnv	
				NARC	
				MOA	$850,000
				MWI	
				NARC	
				MOA	500,000 JOD
				MWI-MoEnv	
				NARC	
				MOA	$600,000
				MoEnv	
				NARC	
				MOA	500,000 JOD
				MWI	
				NARC	
				MOA	$400,000
				NARC	
				MOA	500,000 JOD
				MWI	
				NARC	
				MOA	100,000 JOD
				GAM-MoEnv	
				NARC	
				MOA	250,000 JOD

				NARC MOA	250,000 JOD
	Fabrication of nano-material completed	Testing of nano-material completed	Technology demonstrated	NARC MOA	500,000 JOD
				NARC MOA	450,000 JOD
				NARC MOA MoEnv	150,000 JOD
	3 million JOD raised 1,500 beneficieries	3 million JOD raised 1,500 beneficieries	4 million JOD raised 1,500 beneficieries	Agricultural Credit Corporation MOA	10 million JOD
JEF strategy Institutional building of JEF is on-going	Operations manual and gender policy plan approved	M&E plan Technical unit set up Raising $25 million	Funding accreditation achieved	MoENV-JEF	
				MWI, MOA, MoE	
	Feasibility study				

	study prepared and approved			MWI-JVA	$260,000
	Feasibility study prepared and approved			MWI-JVA	$220,000
	Feasibility study prepared and approved			MWI-JVA	$290,000
	Feasibility study prepared and approved			MWI-JVA	$700,000
	Feasibility study prepared and approved			MWI-JVA	$2 million
	Feasibility study prepared and approved			MWI-JVA	$2 million
	Feasibility study prepared & approved			MWI-JVA	0.5 MUS$
	Feasibility study prepared and approved			MWI-JVA	$2.2 million

iv. Baseline	v. Targets			vi. Lead ministry	vii. Funding requirements
	Yr 1 2019	Yr 2 2020	Yr 3 2021		
NDC AP				MoEnv.	100,000 US$
Third National Communication (TNC) report	Vulnerability assessment approved by RSCN			MoEnv-ASEZA-PTDRA	200,000 JOD
2008 PA Network Conservation Plan & sensitivity map	Desktop assessment conducted & field assessment designed	Field assessment conducted & PA network report developed	PA network report finalized & PA network approved by MoEnv	RSNC	
				MoEnv. MOPIC	

				MOMA	
				Municipalities	TBD
				MoEnv. MoEnv.	
Legal review of environmental laws in ASEZA	Legal framework developed	Legal framework approved	Integrating carbon sinks into mitigation & adaptation policies	JREDS ASEZA	50,000 JOD
	20% of surveillance centers established	More surveillance centers established at rate of 20% per year	Incidence & forecast of climate sensitive diseases determined	Ministry of Health	1.7 million JOD
	Database developed				over 5 years
	30% of centers set up	30% of centers set up	40% of centers	Ministry of Health	1.56 million JOD
	Health units set up	Health units set up	Health units set up		
	Training conducted	Training conducted	Training conducted		over 3 yrs out of 7 yrs

	Entomology section & leishmania strain unit established	Medical doctor hired Training conducted Awareness raised	Monitoring & treatment of leishmania launched	Ministry of Health	300,000 JOD
	6 new projects introduced 6 participating CBOs	6 new projects introduced 6 participating CBOs	6 new projects introduced 6 participating CBOs	Ministry of Social Development (MoSD)	540,000 JOD
18 projects delivered between 2010-2018	5 additional projects introduced 30 new jobs created	5 additional projects introduced 30 new jobs created	5 additional projects introduced 30 new jobs created	Ministry of Social Development (MoSD)	300,000 JOD
	3 workshops held 75 MoSD staff trained	3 workshops held 75 MoSD staff trained	3 workshops held 75 MoSD staff trained	Ministry of Social Development (MoSD)	85,000 JOD
	5 workshops held 7 participating CBOs	5 workshops held 7 participating CBOs	5 workshops held 6 participating CBOs	Ministry of Social Development (MoSD)	150,000 JOD
Integrated Coastal Zone Management (ICZM) action plan	Capacity building workshops on CC conducted	Capacity to calculate GHG emissions strengthened	Capacity to calculate mitigation outcomes strengthened	The Royal Marine Conservation Society of Jordan (JREDS)	100,000 JOD
Elementary maps of corals, seagrass beds, and sandy areas	Marine habitat maps for Gulf of Aqaba prepared	Carbon sequestration by ecosystems in Gulf of	Carbon loss by marine ecosystems monitored over 5 yrs	JREDS ASEZA	500,000 JOD over 5 years
				ASEZA	

viii. Cost co-share contributed by the lead ministry or institution	ix. Implementing Partner(s)	x. Budget	xi. Status	xii. Relevant concept notes and proposals or strategies
	Netherlands (RVO / ETF)	EUR 0.5 M	Planned	
	IRENA		Planned	
JREEEF: 10%			Without support	JREEEF Strategy 2015-2018 Scaling up of an on-going project
20%	EU		Ongoing	JREEEF Strategy 2015-2018 Scaling up of an on-going project
	EU		Ongoing	JREEEF Strategy 2015-2018 Scaling up of an on-going project
	KfW	EUR 16.5 M	Ongoing	
10-20%				
50%			Without support	JREEEF Strategy 2015-2018 Scaling up of an on-going project

15%			Without support	JREEEF Strategy 2015-2018; National Energy Efficiency Action
10%			Without support	JREEEF Strategy 2015-2018; National Energy Efficiency Action Plan (NEEAP)
JREEEF: 50% of audit costs + interest up to 350,000 JD Owners: 50% of audit costs + cost of implementation	EIB/IKI	EUR 9 M	Planned	National Energy Efficiency Action Plan (NEEAP)
			Without support	
10%	Discussions on-going w/ AFD		Indicative	National Energy Efficiency Action Plan (NEEAP)
	Explore co-funding by Montreal Protocol		Indicative	
Yr1 self-financed Yr2 & Yr3: 10%			Without support	National Energy Efficiency Action Plan (NEEAP)
			Without support	Proposal available
			Without support	Pre-feasibility studies completed for all

				completed for all projects
	KfW			
			Without support	
	GIZ		Ongoing	
				Pre-feasibility studies completed for all projects
	KfW	EUR 50 M	Planned	
			Without support	available pre feasibility study implemented by EU
SMEs: 50%	KfW	EUR 48 M	Ongoing	
SMEs: 50%			Without support	
SMEs: 50%			Without support	
			Without support	Available
TBD	EBRD			Available

			Ongoing	
	AFD	USD 166 M	Ongoing	Available
	EBRD			
			Without support	Available
			Without support	
50%	MOT-LTRC		Without support	Preconcept is available
	private sector		Without support	Pre concept to GCF available
	private sector		Without support	GCF proposal available
5%			Without support	
			Without support	
			Without support	Proposal available
10%			Without support	

			Without support	
			Without support	
			Without support	Proposal available
			Without support	
50%			Without support	
10%			Without support	Available
10%			Without support	Available
10%			Without support	Available
10%			Without support	
	KFW	20 M EUR	Ongoing	
			Ongoing	
			Concluded	
			Without support	"Methane Mitigation" report and pre-proposal available

			Without support	"Methane Mitigation" report and pre-proposal available
			Without support	"Methane Mitigation" report and pre-proposal available
			Without support	"BC Mitigatiom" assessment report & concept note available
	UNDP	2.64 MUS4	Ongoing	GAM 2018-2022 Strategy
			Without support	
			Without support	
			Without support	
			Without support	
			Without support	
			Without support	
			Without support	
			Without support	
			Without support	
			Without	

			support	
			Without support	
10%	WB		Planned	JREEEF Strategy 2015-2018
TBD			Without support	JREEEF Strategy 2015-2018
TBD			Without support	
TBD			Without support	
			Without support	
5%			Without support	
			Without support	"Methane Mitigation" report and pre-proposal available
			Without support	"Methane Mitigation" report and pre-proposal available
			Without support	"Methane Mitigation" report and pre-proposal available

25%			Without support	Scaling up of an on-going project
15%			Without support	
			Without support	
5% + In-kind			Without support	
SMEs: 20%			Without support	
			Without support	

viii. Cost co-share contributed by the lead ministry or institution	ix. Implementing Partner(s)	x. Budget	xi. Status	xii. Relevant concept notes and proposals or strategies
			Without support	Water Sector Capital Investment Program 2016-2025
				Water Sector Capital Investment Program 2016-2025

	KfW	EUR 48 M	Ongoing	Water Sector Capital Investment Program 2016-2025

	KfW	EUR 24 M	Planned	Water Sector Capital Investment Program 2016-2025
	KfW	EUR 48 M (part of same project as budget above)	Ongoing	Water Sector Capital Investment Program 2016-
	EC	EUR 14.8 M	Planned	
	AFD, co-financed by GCF			Concept note available

	GIZ			Feasibility studies completed Full proposal available
			Without support	Feasibility studies completed Full proposal available
			Without support	Feasibility studies completed Full proposal available
	KfW	EUR 45 M	Planned	Feasibility studies completed Full proposal available
			Without support	Feasibility studies completed Full proposal available
			Without support	Feasibility studies completed Full proposal available
	KfW	EUR 48 M (part of same project as budget above)	Planned	Feasibility studies completed Full proposal available

			Without support	Feasibility studies completed Full proposal available
	KfW	EUR 29 M	Planned	Feasibility studies completed Full proposal available
			Without support	Feasibility studies completed Full proposal available
			Without support	Feasibility studies completed Full proposal available
	KfW	EUR 48 M (part of same project as budget above)	Planned	Feasibility studies completed Full proposal available
			Without support	Concept note available
			Without support	Concept note available
			Without support	Concept note available
In-kind Public land leased for free			Without support	Proposal available
			Without support	

			Without support	
			Without support	pre concept
In-kind Public land leased for free			Without support	Proposal available
In-kind Public land leased for free			Without support	Proposal available
			Without support	
350,000 JOD			Without support	Concept note available
In-kind			Without support	Proposal available
			Without support	Proposal & case studies available
20% in-kind	FAO/EU	US 12 M	Ongoing	Concept note available
			Without support	Concept note available

MOA: 10% Farmers: 20%	IFAD	USD 15 M	Ongoing	Proposal available
MOA: 10% in-kind Farmers: 5%			Without support	Concept note available
			Without support	Action Plan 2018-2022 available
5,000 olive trees donated by philanthropist			Without support	Concept note available
			Without support	

	Netherlands		Ongoing	Concept note available
	ILO			
In-kind			Without support	
			Without support	Concept note available

	Netherlands	EUR 0.89 M	Planned	Concept note available
	FAO			
			Without support	Proposal available
	UN Habitat-Global Adaptation Fund		Planned	AF approved Concept note Full proposal submitted to AF
			Without support	Concept note available

	UNDP-AfD			Concept note available
	ILO-FAO		concluded	
			Without support	Full proposal available
			Without support	Concept note available
	ICARDA-FAO			Concept note available
			Without support	Full proposal available
			Without support	Concept note available
			Without support	Concept note available
			Without support	Concept note available
			Without	Concept note

			Without support	Concept note available
			Without support	Full proposal available
	IFAD	USD 23.991 M	Ongoing	Full proposal available
			Without support	Concept note available
			Without support	Concept note available
			Without support	Full proposal available
			Without support	Concept note available
			Without support	Concept note available
			Without support	Full proposal available

			Without support	Concept note available
			Without support	Full proposal available
			Without support	Concept note available
	UNDP support by WASH	0.5 MUS$	Ongoing	Concept note available
5%			Without support	
			Without support	
	UNEP/IKI	EUR 0.492	Planned	
			Without	Water Sector Capital

			Without support	Capital Investment Program 2016-
			Without support	Water Sector Capital Investment Program 2016-
			Without support	Water Sector Capital Investment Program 2016-
			Without support	Water Sector Capital Investment Program 2016-
			Without support	Water Sector Capital Investment Program 2016-
			Without support	Water Sector Capital Investment Program 2016-
			Without support	
			Without support	Water Sector Capital Investment Program 2016-2025

viii. Cost co-share	ix. Implementing Partner(s)	x. Budget	xi. Status	xii. Relevant concept notes and proposals or strategies
	Ricardo		Planned	NDC AP
5% (in-kind contribution: staff time, etc)	GCF (pending)		Without support	Proposal for funding will be submitted in 2019 to GCF
10% (in-kind contribution: staff time, etc)	CEPF/ IPA		Concluded	Draft concept note available
	UNDP	1 MUS$	Ongoing	Proposal available

TBD	EU/ClimaMed		Planned	Proposal available
	GIZ		Ongoing	
	W.B		Ongoing	
			Concluded	
	Ricardo		Planned	
5%			Without support	Concept note can be provided on a short notice
0			Without support	"National climate change health adaptation strategy and action plan" available
0			Without support	"National climate change health adaptation strategy and action plan" available

0			Without support	"National climate change health adaptation strategy and action plan" available
			Without support	
			Without support	Feasibility study available
In-kind			Without support	
In-kind			Without support	
5%			Without support	Concept note can be provided on a short notice
3%			Without support	Concept note can be provided on a short notice
			Without support	

Partner Progress on Implementation and Financing		
Direct linkage	**Indirect linkage**	**Description**
Energy Efficiency & Renewable energy in water sector Through CAEP; IRENA plans to implement Renewables		Under preparation: 2020-2022 (0.5) M EUR □ The Netherlands Enterprise Agency (RVO)through the Energy Transition Facility (ETF) supports partner countries
By the end of the second quarter of 2019, 7 500 additional solar water heaters had been installed in Jordan with EU funding within the		
By the end of the second quarter of 2019, 600 PV rooftop systems had KFW implementing Energy Efficiency		

	Rationalizing energy	EIB implementing project fundedd by IKI with

Reductions of greenhouse gas		KFW implementing Climate Protection in the Waste
Indirect reduction of GHG emissions, by		□ The global IKI project “Water and Wastewater
□ Reduce energy consumption of		KFW implementing Energy Efficiency in the Water
	KFW implemented Energy Supply for Host Communities and	KFW implemented Energy Supply for Host Communities and Syrian Refugees II project with Installation of a 46 MW PV

EBRD support: □ Feasibility study.		

AFD support construction of the infrastructures to		
EBRD support GAM: Finance to operator: (Purchase of buses		

The project supports, amongst others, to build two bio-digesters in Central Irbid and Wadi Arab and is exploring to provide further input		

UNDP is currently implementing a project that aims to promoting low-carbon buildings		

Through the CAEP, WB is helping Jordan establish the MRV system. This activity will help improve information quality, as a follow-		

Irrigation distribution network in Northern section of the Al-Aghwar rehabilitated		KFW implementing Adaptation to Climate Change I and II project during 2016 – 2024, the project activities including: □ Rehabilitation of Southern, the Northern and the North East Ghors (45 Mil. EUR) □ Consultancy services for farmers and Water Users associations (3 Mil. EUR) 48 Mil EUR The main objective of the project is to contribute to the mitigation of climate change risks. The aim is to reduce the vulnerability of farming communities in the Jordan Valley to the impact of climate change through improved supply of irrigation water by decreasing the use of freshwater resources and increasing the use of reclaimed water in the farms and thus saving valuable freshwater resources

Irrigation distribution network in the mid section of Al-Aghwar rehabilitated; Pre-feasibility study process		KFW implementing Adaptation to Climate Change III (DKTI) during 2020 – 2026 focusing on □ Rehabilitation of Middle Ghors with estimated budget 24 M EUR The main objective of the project is to contribute to the mitigation of climate change risks. The aim is to reduce the vulnerability of farming communities in the Jordan Valley to the impact of climate change through improved supply of irrigation water by decreasing the use of freshwater resources and increasing the use of reclaimed water in the farms and thus saving valuable freshwater resources. In addition, the reduction in the use of fresh water resources for irrigation will make available a significant amount of fresh water for drinking water supply in urban areas such as
Irrigation distribution network in the Northeastern section of Al-Aghwar		KFW implementing Adaptation to Climate Change I and II project during
The European Commission is co-financing with an additional grant of EUR 14.8 million the construction of a Waste Water Treatment Plant in		
AFD, co-financed by GCF		

□ Piloting A decentralized WWTP in Finan Eco-lodges □ Piloting environmentally friendly and low-maintenance treatment of sewage sludge at Wadi Hassan WWTP		GIZ implemented Decentralized Wastewater Management for Adaptation to Climate Change, ACC The project supports the MWI and WAJ in developing and implementing strategies for decentralized wastewater treatment and reuse as a measure for climate change adaptation. In addition, the project carries out various capacity development measures to enhance the expertise, skills and performance in the wastewater sector.
Construction of wastewater networks in Naour		KFW implementing Water Resources Management Programme V project during 2019 - 2025, the main activities: □ Expansion of wastewater
Save freshwater resources through the provision of treated wastewater for irrigation systems		KFW implementing Water Resources Management Programme VI project during 2020 - 2026 . project

Construction of wastewater networks in Al-Karak		KFW implementing Wastewater Karak project Construction of wastewater treatment plant Karak
Building of a Monolandfill (cell 1) next to As Samra WWTP through KfW		KFW implementing Water Resources Management Programme VI project during

Enhancing resilient livelihoods and food		Project implemented by FAO funded by EU with total
Livelihoods and income generating opportunities for the most food insecure created through sustainable management of natural resources.		

IFAD implementing Rural Economic Growth and Employment Project I, during 2015- 2021 with total budget (15) MUS$ aimed to Improve access to finance in rural areas		

Contribute to the increased competitiveness and performance of Jordanian horticulture produce in a variety of export markets, rural job creation and income generation in horticulture. Establishing a web-portal providing the agriculture sector in Jordan with market intelligence. Build producer Association capacity to deliver services to the sector and to develop a market ambition for the industry.		Pilot Project Inclusive Horticulture Value Chains Jordan is a pilot project, which has started at the beginning of 2019, to assist the small and medium sized farmers that are not (yet) able to access advanced greenhouse technology. The pilot project is implemented by a consortium led by Advance Consulting in collaboration with WUR, Profyta, and Holland Door. This pilot project aims to contribute to the increased competitiveness and performance of Jordanian horticulture produce in a variety of export markets, rural job creation and income generation in horticulture. Taking into account the delicate balance between delivering short-term results and establishing strategies that will be sustainable in the long run, the consortium
		Export Promotion is a project by the Centre for the Promotion of Imports from developing countries (CBI)

	Netherlands support strengthening the skills development for WWT and agricultural reuse	Netherland embassy in Jordan Funded by OKP 2020- 2021 0.890 M EUR; Activities: Recently established diploma programme at the Al-Balqa' Applied University Enhancing the competitiveness of Jordanian produce on national, regional, and international markets through adoption of improved technologies for sustainable and efficient agriculture and introducing market-driven approaches to improve productivity and reduce water use; Strengthening horticultural business partnerships and creating market systems; □ expanding the pool and skills of human resources in hydroponics and postharvest management to prepare for labour market entry; □ Creating employment opportunities in commercial farming and agribusinesses, especially for vulnerable
	Hydroponic Agriculture and Employment Development	
National components including the following interventions: Rainwater harvesting	The proposal developed and currently under financial process evaluation,	at final stage of financial process in Adaptation Fund

The International Labor Organization (ILO) is exploring specific areas where		

IFAD implementing Small Ruminants Investment and Graduating Households in Transition project during 2017-2023		

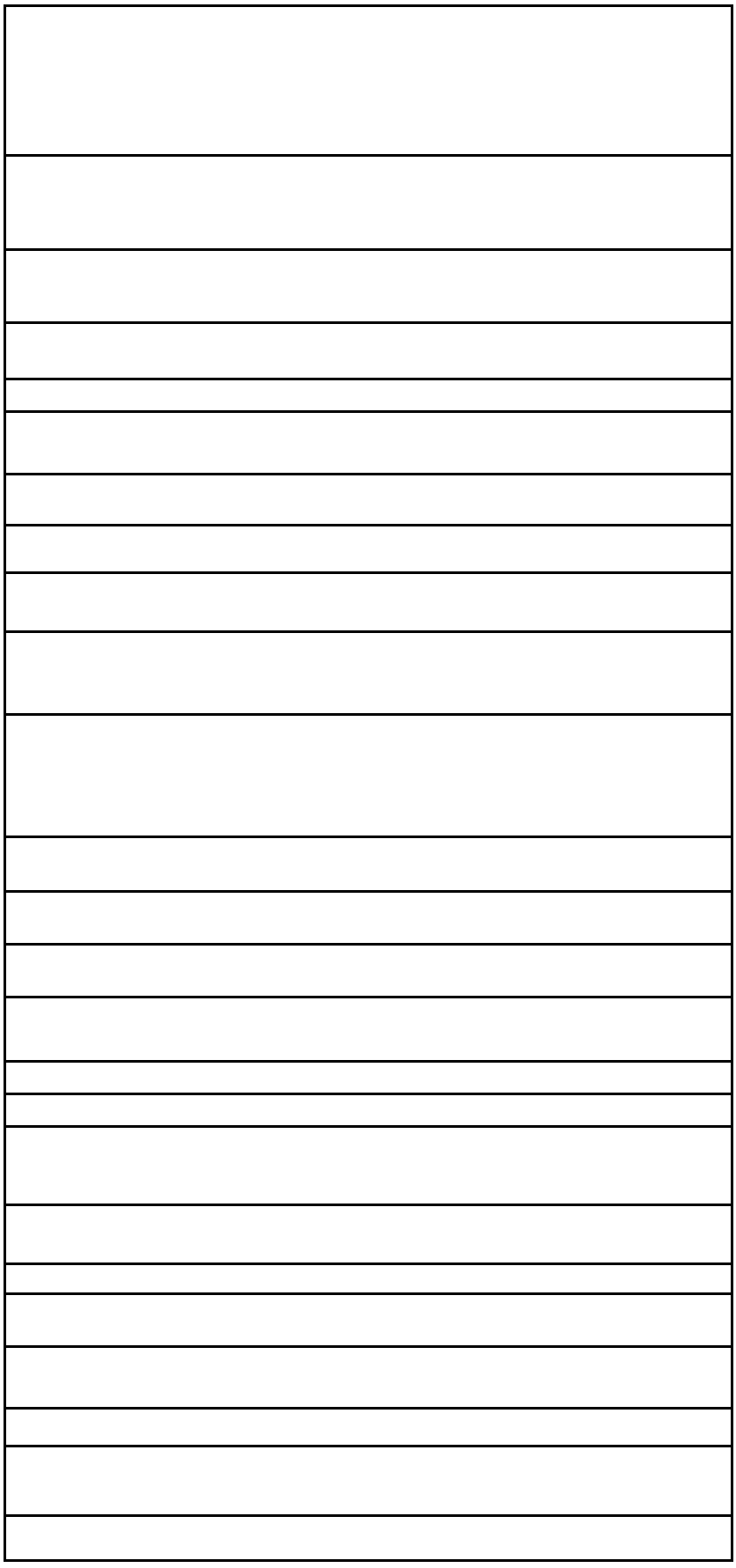
UNDP is currently implementing a project that aims to strengthen the		
	Support and accelerate public and private investment in sector specific NDC implementation	UNEP preparing for implementing project funded by IKI with total budget 0.492 M EUR during 2020-2023,Based on scoping mission on Feb.2020, Agreement with Ministry of Environment on selection of two sectors for prioritization;

Through CAEP, Ricardo will implement Cost-benefit analysis – as		
project has ended		
UNDP implementing project funded by GEF : The National circumstances chapter		

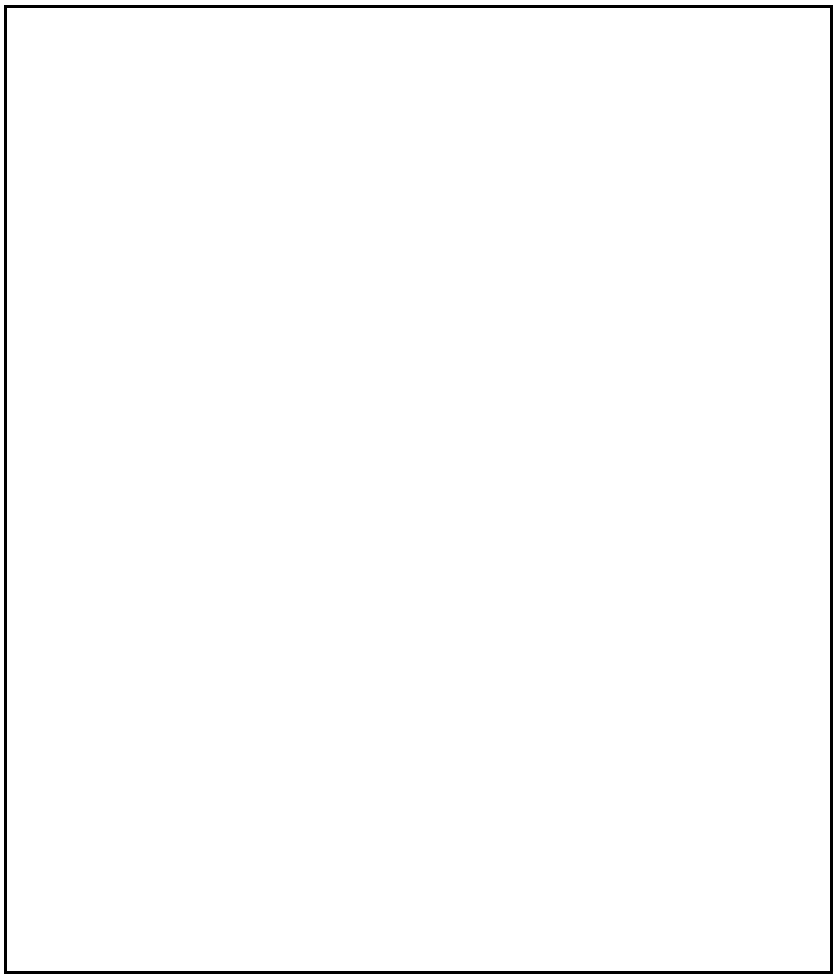
A draft for action plan has been developed for each city covering the sectors included in the SEACAP		Clima-Med Acting for Climate in South Mediterranean focuses on supporting sustainable energy policies and strategies both at
	Under project "Supporting effective governance for NDC review and implementation in Jordan (IKI NDCs)" GIZ in cooperation with ministry of Environment	under implementation
Through CAEP, Ricardo plans to develop of a strategy for climate finance – we interpret this as an assessment of the potential sources of financing for the prioritised options, including both public		

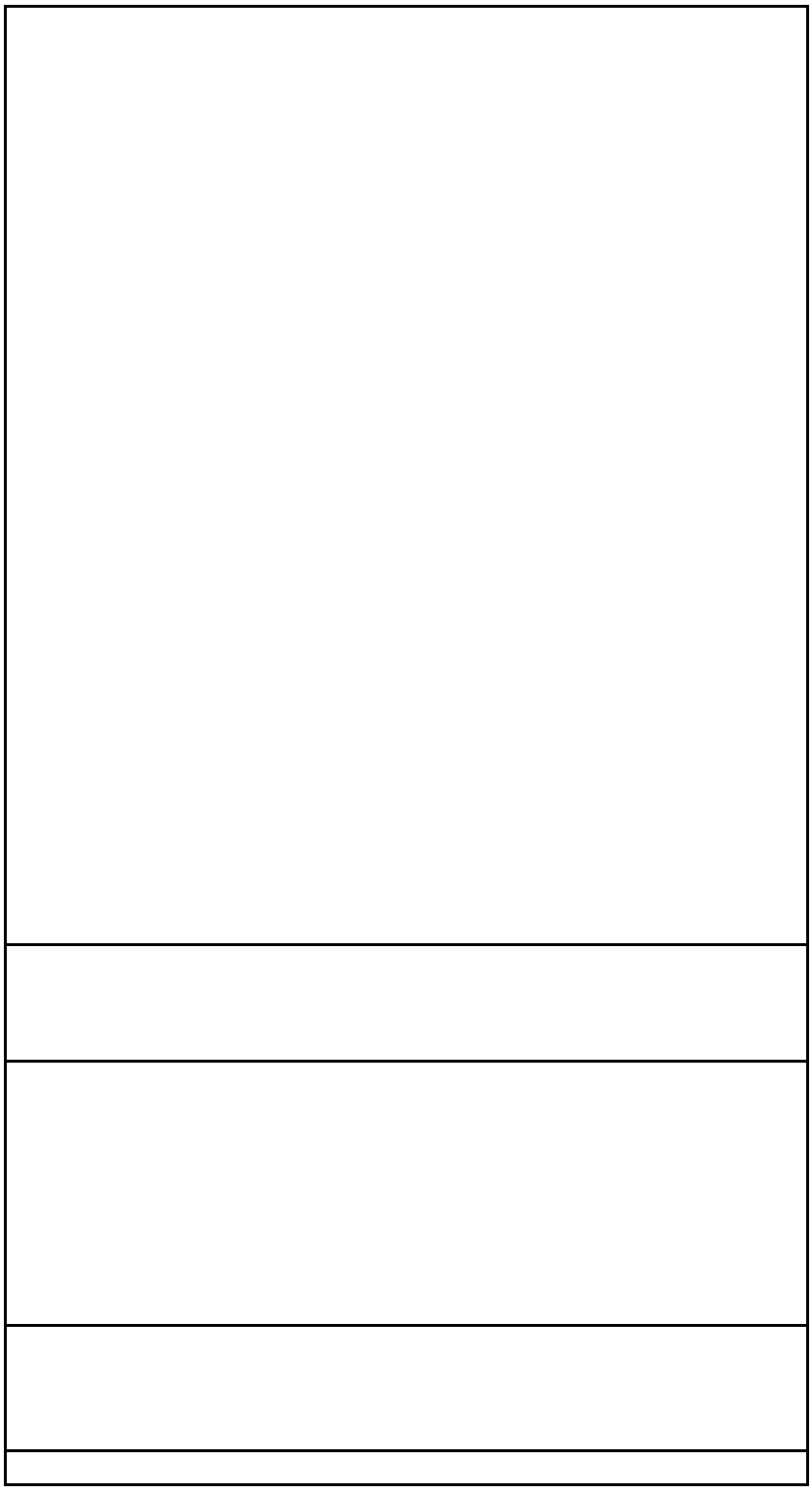
Quarterly Implementation Progress

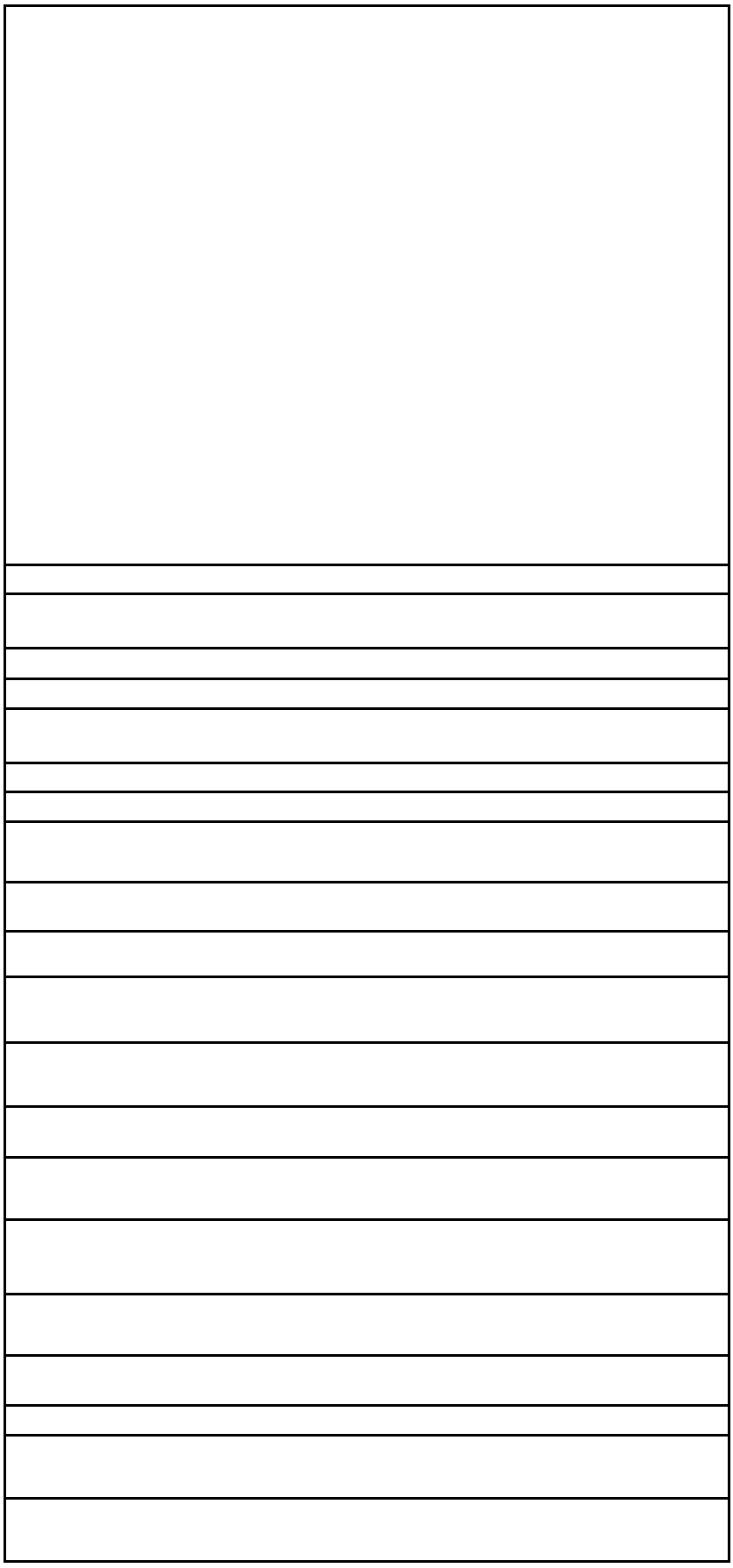
Q 3 2020



Development and Implementation of the Monitoring reporting and verification system, completed

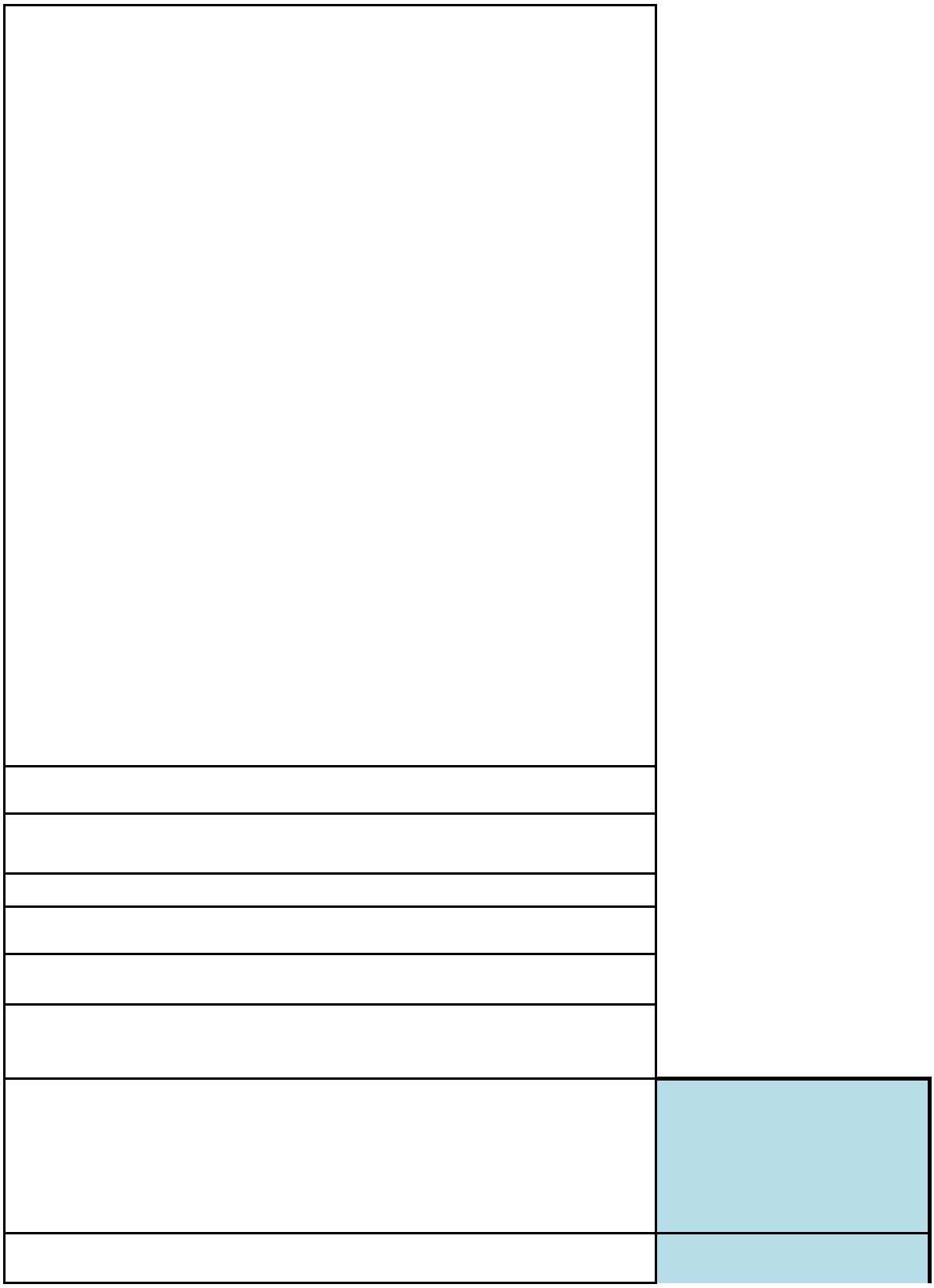






Develop models on use of organic waste at Zatari refugee camp to covert to composting, and use sludge from waste water treatment and organic waste to pilot a waste to energy project producing biogas and electricity in Zatari refugee camp

No. of new jobs created are 1300 by IFAD
Guidance and tools developed to support SMEs go green and help youth sustain agricultural activities in the wadi, Technical assistance and financial incentives to farmers; ($1,268,508 loans to SMEs + 204 people accessing rural finance (108 women) + 1 policy knowledge product).
No. of training workshops/No. of farmers trained are 1612 (583 women)

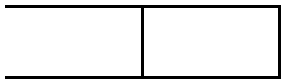


The Adaptation Fund has approved financing their proposal titled “Increasing the Resilience of both Displaced Persons and Host Communities to Climate Change-Related Water Challenges in Jordan and Lebanon” with grant 14MUS$.

Agreement signed with the Inter-Islamic Network for Water Resources Development and Management (INWRDAM) and implementation has been initiated
No progress

The second Biennial Update Report has been finalized and under revision, expected submission date end of Nov. 2020

Technical assistance task for the Southern Neighborhood region, including Jordan, to enhance municipalities to develop sustainable energy and climate action plans, to support climate action
1. Development of a detailed methodology for NDC revision to be approved and verified by stakeholders 2. Training for national partners in data management for GHG Emissions inventory and calculations 3. Developing three local climate action plans (LCAPs) for the first time in Jordan and supporting the implementation of one pilot measure.
Amman Climate Plan Financing strategy
Design of the digital finance platform with Development of business case for digital finance platform with JOPACC and Development of Green Bonds guidelines
• Ricardo has received most data needed and will now begin to analyze and form initial reviews. • The main issue to be raised is that Ricardo has reached out to partners to cross-check cost and benefit information to make sure it is in line. o More inputs on benefit quantification would be helpful, either from experience of Jordan or in the region



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