



WASTE SECTOR



Green Growth National Action Plan 2021-2025



16 PRIORITY ACTIONS for implementation in the 2021-2025 period:



7 investment preparation and demonstration actions

9 enabling policy and institutional reform actions



About National Green Growth Plan for Jordan

The NGGP charts out a plan for Jordan to achieve an expanding yet sustainable and resilient economy that ensures the creation of green jobs for its citizens and increased investment in green projects. The NGGP uses a cost-benefit analysis approach to identify the challenges and opportunities for project implementation and focuses on tackling these barriers in the six green growth sectors: Agriculture, Energy, Tourism, Transport, Waste and Water. **Four driving principles of green growth are identified and mainstreamed across the actions in the Green Growth National Action Plan 2021-2025:**

- Transparent governance processes and enforcement of legislation
- Mechanisms to incentivize green growth
- Integrated planning processes that value societal impacts
- Behavior shifts and capacity building



A National Green Growth Plan for Jordan



Implementation of these actions will contribute to the Waste Sector Green Growth SubObjective and the following:



Increasing diversion of waste away from landfills, through the reduce, recycle and reuse approach.



Building a 'virtuous cycle' a sustainable business model which offsets the cost on waste management for urban areas.



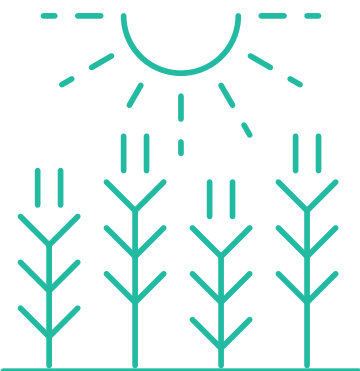
Encouraging investment from the private sector and job creation in the circular economy through innovation, market development and public-private dialogue.



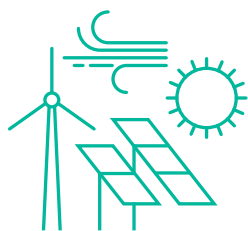
Mainstreaming critical waste streams into sector priorities, including construction and demolition waste, e-waste, hazardous waste.



The following table shows the **waste sector green growth actions** and can be used by action owners to begin **project proposal formulation** for the purpose of mobilizing public budget or external grants, loans or other financial support for implementation. It is understood that detailed implementation approach, outputs, timeline, budget, and stakeholders may change depending on the source of finance during the process of implementation.



Waste Sector Green Growth Actions 2021-2025		
#	Action Title	Total Estimated Implementation Cost (USD)
WS01	Review and update the National Strategy and Action Plan for Municipal Solid Waste (NSAP) 2034-2015 to integrate non-municipal solid waste and elaborate integrated waste management approaches	1,500,000
WS02	Enhance the financial management and strategic planning capacity of municipal waste management authorities	600,000
WS03	Introduce a policy dialogue platform for implementing extended producer responsibility in the waste sector	1,000,000
WS04	Establish a national center for excellence on waste management and circular economy to promote innovation, training, R&D, investment and policy work	15,000,000
WS05	Design and implement a national awareness campaign about circular economy and waste management	10,000,000
WS06	Enhance the financial viability of SMEs in the waste sector through targeted business development support	5,000,000
WS07	Conduct market assessment and feasibility study to identify potential projects and programs to divert organic waste from municipal solid waste streams	14,500,00
WS08	Develop and implement a Master Plan for National Hazardous Waste Management and the rehabilitation of Swaga Hazardous Waste Landfill	35,000,000
WS09	Develop and implement a national policy and regulations for the management construction and demolition waste	3,000,000
WS10	Implement a pilot extended producer responsibility program for e-waste	33,300,00
WS11	Implement program for waste tire disposal and reuse	22,850,00
WS12	Develop a joint public-private roadmap to transition to reduce the use of single use plastics at the household and commercial levels	3,000,000
WS13	Develop a baseline study and roadmap to transition toward green jobs in the waste sector	1,000,000
WS14	Establish a national upcycling hub nearby appropriate waste management infrastructure	16,500,000
WS15	Develop municipal solid waste infrastructure to promote recycling and the use of sanitary landfills	81,000,000
WS16	Implement a comprehensive national cleanup campaign for solid waste littering	5,000,000

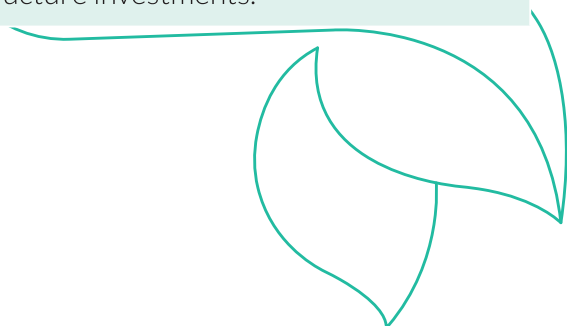


Purpose & Objectives of Waste Sector Green Growth Actions

#	Purpose/Objectives
WS01	Review and update the National Strategy and Action Plan for Municipal Solid Waste (NSAP) 2034-2015 to integrate non-municipal solid waste and elaborate integrated waste management approaches
	The purpose of this action is to bring together the various stakeholders across the waste value chain of the primary SW streams, to set targets for their management, and explore avenues for increased efficiency and collaboration
	<ul style="list-style-type: none"> • Undertake a strategic environmental assessment (SEA) for 2015-2034 NSAP. • Undertake a review and update of the NSAP, which should: • Address and incorporate the recommendations from the SEA prepared for the strategy; • Mainstream Jordan's green growth objectives for the waste sector; • Following participatory approaches, develop and incorporate an addendum to the strategy targeting the management of other non MSW streams; • Improve coordination on waste management across public and private sector entities.
WS02	Enhance the financial management and strategic planning capacity of municipal waste management authorities
	This action will also support the ongoing joint initiative between the MoEnv and DOS, with support from the EU, for the development of the National Monitoring Information System for MSW, which will collect and share data on MSW across the country, providing an evidence base for tariff setting and policy planning.
	<ul style="list-style-type: none"> • Improve capacity among municipalities to plan and operate local waste management services, including the capacity to enable effective PPPs for the provision and operation of key infrastructure for waste management. • Improve information management and sharing mechanisms across sector. • Enhance coverage, quality, and range of municipal waste services across the country. • Reduce the costs of waste management and collection on municipalities and stimulate cost recovery. • Increase the volume and percentage of SW diverted from landfills.
WS03	Introduce a policy dialogue platform for implementing extended producer responsibility in the waste sector
	The purpose of this action is to improve institutional coordination and increase effectiveness of agricultural research and innovation activities taking place in the Kingdom.
	<ul style="list-style-type: none"> • Improve understanding of the opportunities and challenges of operationalizing EPR within the Jordanian context. • Enhance and maintain dialogue and coordination between private and public sectors for the development of a pathway towards EPR implementation. • Enhance knowledge of EPR operationalization and benefits in Jordan among public and private sector.
WS04	Establish a national center for excellence on waste management and circular economy to promote innovation, training, R&D, investment and policy work
	<ul style="list-style-type: none"> • Enhance continuity in waste management knowledge. • Improve access to waste data and applicable technologies. • Encourage and support innovation, and introduce locally relevant technological solutions for waste management.

#	Purpose/Objectives
WS05	Design and implement a national awareness campaign about circular economy and waste management
	<p>The purpose of this action is to increase awareness among different social groups about the need to address individual waste management behaviors, including waste separation at the source.</p> <ul style="list-style-type: none"> Stimulate and promote Jordanians' behavioral change with respect to responsible waste generation and handling (waste reduction, source sorting, and prohibiting littering) through outreach and social marketing. Promote the culture of waste separation at the source, facilitate recycling and composting, and eventually accomplish a reduction of the volume of waste sent to landfills in multiple Jordanian neighborhoods with different socio-economic characteristics.
WS06	Enhance the financial viability of SMEs in the waste sector through targeted business development support
	<ul style="list-style-type: none"> Improve understanding of SMEs in the waste sector across Jordan to support informed decision making. Strengthen awareness and capacity among informal waste workers and Ministry of Micro, Small and Medium Enterprises (MSMEs) to improve the occupational health and safety conditions in which they work. Enhance the financial capacity of both individuals and SMEs in the waste sector to enable sustainable livelihoods.
WS07	Conduct market assessment and feasibility study to identify potential projects and programs to divert organic waste from municipal solid waste streams
	<ul style="list-style-type: none"> Enhance the circularity of waste management through increased material reuse, hence reducing the volume of waste heading to the landfills. Promote the application of innovative technologies to improve the sustainability of waste management.
WS08	Develop and implement a Master Plan for National Hazardous Waste Management and the rehabilitation of Swaqa Hazardous Waste Landfill
	<ul style="list-style-type: none"> Increase individual and institutional capacity to manage hazardous waste. Improve understanding of the needs to achieve efficient and environmentally sound management of hazardous waste and to mitigate its impacts, including: Improve air and water quality and soil health, especially within the immediate vicinity of Swaqa Landfill site. Remediate contaminated soil and water around landfill site through the implementation of advanced sorting techniques and the installation of biological and physical treatment systems. Reduce the impact of waste on the environment to minimum levels. Comply with national and international standards relevant to transporting, receiving, handling, storing, and treating of hazardous waste. Execute the requirements established by international agreements [Basel Agreement, Rotterdam Agreement, Stockholm Agreement (POPs), and Minamata Agreement (Mercury)].
WS09	Develop and implement a national policy and regulations for the management construction and demolition waste
	<ul style="list-style-type: none"> Improve the policy and regulatory environment guiding the management of C&D waste. Improve private sector and industrial waste management stewardship through awareness and identification of investment opportunities. Identify potential economic opportunities to produce clean construction materials locally, and better techniques to reduce waste generation.

#	Purpose/Objectives
WS10	Implement a pilot extended producer responsibility program for e-waste
	This action proposes the development of a national policy to guide the management of e-waste
	<ul style="list-style-type: none"> • Reduce the need for global mining and metal imports to Jordan through e-waste recycling, translating it into economic and environmental benefits. • Reduce the number of informal rare metals' recycling activities, which have significant health impacts on unprotected waste pickers. • Reduce the environmental impacts from current e-waste management operations.
WS11	Implement program for waste tire disposal and reuse
	<ul style="list-style-type: none"> • Divert waste tires from landfills and informal dumpsites. • Reduce the government's cost for managing tire waste.
WS12	Develop a joint public-private roadmap to transition to reduce the use of single use plastics at the household and commercial levels
	The purpose of this action is to formulate a deliberate, strategic, and systematic transition away from single use plastics at the household and commercial levels.
	<ul style="list-style-type: none"> • Assess current impact of single-use plastics and plastic waste on municipal waste management costs, environmental quality, and consumption patterns at both the industrial and commercial levels. • Measure the full market potential of alternative options, including the export potential of non-plastic packaging products. • Develop partnerships with the private sector to map a transition away from production and consumption of single-use plastics in Jordan, identifying specific business opportunities for investment.
WS13	Develop a baseline study and roadmap to transition toward green jobs in the waste sector
	<ul style="list-style-type: none"> • Shared strategic vision between the government and the private sector to transition toward decent employment and green jobs in the waste sector. • National stakeholders have examined the concept of green jobs and identified opportunities to support green job creation. • Enhanced collaboration between public and private stakeholders.
WS14	Establish a national upcycling hub nearby appropriate waste management infrastructure
	The purpose of this action is to bring those two things closer together, both strategically and physically
	<ul style="list-style-type: none"> • Promote innovation in the reuse and recycling of waste materials through collaboration with innovation drivers (artists, researchers) and entrepreneurs. • Retain and potentially increase the economic value of recovered waste materials. • Make efficient and effective use of MSW management infrastructure investments.



#	Purpose/Objectives
WS15	Develop Municipal Solid Waste infrastructure to promote recycling and the use of sanitary landfills
	The purpose of this action is to address the environmental challenges of SWM sector in Jordan, as well as its core focus on recycling and responsible management of waste through both the construction of critical infrastructure, and programming to promote better SW planning at the municipal level, and behavioral change
	<ul style="list-style-type: none"> Increased environmental and operating efficiency as a result of increased capacity to sort and recycle material through the development and rehabilitation of a series of sanitary landfill sites, dumpsites, and transfer stations. Increased awareness and the incentives available to promote recycling will augment the realization of the “Three R’s”, with a greater emphasis on reducing, reusing, and recycling in the SWM sector.
WS16	Implement a comprehensive national cleanup campaign for SW littering
	The purpose of this action is to increase the understanding of the drivers and impacts associated with littering, and design a set of awareness campaigns and government, NGO, and private sector partnerships to achieve cleanup and behavior change.
	<ul style="list-style-type: none"> Develop cross-sectoral governmental partnerships to ensure preventing littering is a priority for different economic activities and issue areas. Contribute to changing littering behaviors by spreading awareness and providing financing for local cleanup campaigns. Improve the government’s understanding of the drivers and impacts associated with littering, and methods to enforce anti-littering laws and regulations.



OVERVIEW: Jordan Green Growth National Action Plan 2021-2025

The Green Growth National Action Plan 2021-2025 lays out pathways for sustainable development that will increase resilience, strengthening Jordan's capacity to contain shocks and recover from catastrophic events such as COVID-19.



FIGURE 2
Relationship between the Five National Green Growth Objectives and SDGs

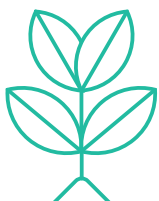


Figure 1 below shows a summary of the green growth planning and implementation in Jordan:



FIGURE 1
Green Growth Planning and Implementation in Jordan

