

National Monitoring Information System for Waste

Waste Management strategy link with SDG / National Monitoring Information system





VISION IN THE PAST

Jordan recognized Municipal Solid Waste as pressing issue that needs immediate action Action laid in the National agenda for sustainable development 2006-2015

- ✓ Development of MSWM policies;
- ✓ Encouragement of reduction of generated MSW quantities
- ✓ Maximization of the MSW collection coverage;
- ✓ Encouragement of MSW reuse and recycling; and
- Promotion of environmentally sound treatment and disposal



PRESENT VISION

The government of Jordan approved its first national solid waste management strategy in 2015.

Shift from old system towards a modern and integrated one that will be based on the **"Three R's**

- ➢ Reduce
- Reuse
- ➢ Recycle



GOALS AND TARGETS AND LINK WITH SDG

Go	als	Targets	Link with SDG's
Goal A - Promoto minimiso reuse, re and reco	e waste ation, ecycling	 Waste reduction targets – Reduction of biowaste ending-up to Landfills 75% by weight by 2024 (according to 2014 amounts) 	 SDG9: Industry, Innovation and Infrastructure SDG12: Responsible Consumption and Production
unu recovery		 Preparing for re-use and recycling of MSW materials (at least paper, metal, plastic and glass) 50% by weight by 2024, Recovery of packaging waste (including reuse, materials' recovery and energy recovery) 25% by weight by 2024, 	
		Recycling of packaging waste 15% by weight by 2024,	



GOALS AND TARGETS LINK TO SDG

Goals	Targets	Objectives
 Goal B – ensure the effective and efficient delivery of waste services 	 Achieved Coverage of MSW street-cleaning and collection services 100% by 2019, 100% by 2024 and 100% by 2034 Closed open dumping and unlicensed disposal sites operate well-functioning sanitary landfills-operation permits 50% by 2019 and 100% by 2024 Separate waste collection system and treatment for recyclables (at least paper, metal, plastic and glass) by 2024 	 SDG3: Good Health and Well Being SDG11: Sustainable Cities and Communities SDG12: Responsible Consumption and Production



IMPORTANCE OF THE NMISW

- ✓ Collect accurate data and in periodic manner.
- Important for strategic planning and setting goals and for monitoring the progress.
- $\checkmark\,$ Important data for decision making
- ✓ Monitoring environmental impacts specially of landfills.
- ✓ For the private sector they need to have the data to plan the business model the more accurate the data the better.
- ✓ Monitor the targets set in the national solid waste management Strategy
- ✓ Create times series and see the trends
- ✓ To control pollution associated with waste disposal



COMPONENT OVERVIEW

COMPONENT 1



Strengthen the capacities of MoENV/Stakeholders to establish a NMIS-MSW that will support MoENV to fulfill its monitoring role, also in relation to the EU budget support requirements

COMPONENT 2



Strengthen the capacities (including equipment) of the MoENV to perform environmental controls on existing and new landfills.

COMPONENT 3



Strengthen the capacities of MoENV to enhance the regulatory framework as required by NSWM strategy

Component 1 – establishment of the NMISW



Definition of the content of the NMISW

- How can the NMISW contribute to monitoring the achievement of targets laid down in strategic documents?
- ✓ How can the NMISW contribute to monitoring the enforcement of relevant provisions of legislation?
- ✓ How can the NMISW contribute to fulfilling Jordan's reporting (self-) obligations towards European and/or International Organizations?
- Environmental and key performance indicators

Infrastructure: building the governmental IT tool

Inter-institutional Cooperation

Big Picture – Software-Module



WASTE INFORMATION SYSTEM (WIS)



Reports

- Landfill report
- Incineration Plant report
- Transfer Station report
- Waste Generator report
- Recycler report
- Etc..

Component 2 - perform environmental controls



- Identification of landfills (adequate infrastructure in view of RTMS), identification of groundwater wells
- Support for establishing the LFMU
- Delivery of equipment (Manual and Real time monitoring
- Draft guidelines and monitoring program and trainings





	Monitoring	Monitoring	Monitoring	Transfer System
Al Ghabawi	х	x	х	х
El Ekaider		x		x
Al Husainyat			х	x

Al Ghabawi Landfill Site shall comprise

- Leachate emission monitoring in quantity and quality (electrical conductivity)
- Landfill Raw Gas Emission (quantity and quality parameters: CO₂, CH₄, NOx, SO₂, H₂S),
- Exhaust Gas Emission (quantity, quality parameters CO₂, CH₄, NOx, SO₂, H₂S, and Particulate Matter)
- Ground Water Monitoring quality parameter (electrical conductivity)

INDICATORS SELECTION - REFERENCE LISTS & RATIONALE BEHIND







SEIS H2020 Indicators EU Indicators (for budget support) Waste Management Strategy

Monitoring of waste quantities



© Lisa Riss

Municipal waste generation

MSW composition *

Waste captured by the solid waste management and recycling system

MSW recycled, recovered and disposed

Preparing for reuse and recycling of MSW (paper, metal, plastic and glass)

Waste quantities disposed in sanitary and non sanitary landfills

WASTE OPERATION PERFORMANCE INDICATORS

Monitoring of the national waste management system: capacity for waste collection & treatment



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Capacity for waste management in municipalities (equipment / resources)

Coverage of MSW street-cleaning and collection services

Percentage of the total municipal solid waste to: MRF, thermal treatment, MBT, sanitary landfill

WASTE OPERATION PERFORMANCE INDICATORS

Monitoring of the national waste management system: capacity for waste disposal Capacity for waste management in landfills (equipment / resources) Capacities for disposing municipal solid waste in sanitary landfills Number of citizens served by sanitary landfill

WASTE OPERATION PERFORMANCE INDICATORS

Monitoring operation of sanitary and non-sanitary landfills



Area covered by lined landfills

Area covered by unlined landfills

Quantity of biogas treated to biogas flare systems

Quantity of leachate that is treated to leachate treatment ponds

ENVIRONMENTAL IMPACT INDICATORS



ENVIRONMENTAL IMPACT INDICATORS



NMISW



https://test.umweltbundesamt.at/nmis/#/home

NMISW



https://test.umweltbundesamt.at/nmis/#/home

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حضرة

شكراً لكم على التسجيل في نظام معلومات الرصد الوطني للنفايات. قبل المتابعة بعملية التسجيل ،يجب اعتماد البريد الإلكتروني من خلال الضغط على الرابط التالي:

https://test.umweltbundesamt.at/nmis/#/mdm/registration/confirm-mail/3a6c8580-7dc3-4118-b37e-5e1fbc2b1c7c

في حال أنكم لم تقوموا بعمل حساب نظام معلومات الرصد الوطني باسخدام هذا البريد الإلكتروني أو كان لديكم أسئلة عامة بخصوص حملية التسجيل، برجي التواصل معنا على البريد الإلكتروني contact@nmis.jordan.gov.jo

> ،كل الإحترام فريق نظام معلومات الرصد الوطني

Dear

Thank you for registering in the National Monitoring Information System for Waste. Before you can continue the registration you have to confirm your e-mail address by clicking on the following link:

https://test.umweltbundesamt.at/nmis/#/mdm/registration/confirm-mail/3a6c8580-7dc3-4118-b37e-5e1fbc2b1c7c

If you did not create an NMIS-Account by using this e-mail address or if you have general questions about the registration process, please contact us at contact@nmis.jordan.gov.jo.

Best regards, Your NMIS team

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	شارع 1/1/1
البيدة	منطقة 1234
r	الأردن

لقد تم التحقّ من البريد الإلكتروني الخاص بكم بنجاح لنظام مطومات الرصد الوطني اللغابات. مرفق بطية ملخص عن معلومات التسجل بر جي العلم بان هذا ليست شهادة التحقّ الرسمية وإنما تسجيل أولي. سيتم إرسال شهادة التسجيل الرسمية والمعتمدة الإكبر بأسرع وقت ممكن بعد الإنتهاء من مراجعة والعلية علم معلومات الرصد الوطني اللغابات. سيتم إحلامكم عن طريق الفريد الإلكتروني بالتنبعة بعد صدور ها.

إذا كان لديكم استفسارات عامة حول عملية التسجيل، يرجى التواصل منا على البريد الإلكتروني contact@nmis.jordan.gov.jo .

كل الإحترام، فريق نظام معلومات الرصد الوطني

حضرة

Dear

You have successfully verified your e-mail address in the National Monitoring and Information System for Waste Enclosed a summary of the given registration data is provided. Please note that this is not yet the official valid certificate but rather a periminary registration. The final authorsed and officially confirmed certificate will be sent as scon as the negistration process has been reviewed and approved by the National Monitoring and Information System for Waste. Once this process is completed you will be notified by e-mail of the result.

If you have general queries or questions about the registration process, please feel free to contact us at contact@nmis.jordan.gov.jo.

Best regards, Your NMIS Team

تم تقديم المعلومات التالية للتسجيل الأولى:

التأكيد على عملية التسجيل الأولى في نظام معلومات الرصد الوطني للنفايات

معلومات الإتصال:	التعريف
المنصب/المسمى الوظيفي: ماجستير	رقم التعريف الوطني: NRID-1234567890
الإسم الأول: جون	الإسم التجاري : اسم التعركة
اسم العائلة: دو	الإسم الرسمي: اسم الشركة الاحداد الا- الــــــــــــــــــــــــــــــــ
ي- رقم الهاتف: +1234567890	النشاط التجاري الأساسي: النقل والتذرين رخصة المهن:
VLIE عنوان البريد الالكتروني:	VLID-1234567890 كمية النفايات البلدية المتولدة تزيد عن 1000 طن/سنة:
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	تولد أي كميات من الثقايات الخطرة: نم

كمية النفايات الخطرة المنتجة سنوياً بالطن: 1000

HOME > FIRST LEVEL > SECOND LEVEL > THIRD LEVEL

Al Ghabawi - overview



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CONTACT DETAILS

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