



Country Waste Profile Report for MOROCCO Reporting Year: 2013

*For guidance on reading Country Waste Profile Reports,
please refer to the following internet based document:*

<http://www-newmdb.iaea.org/help/profiles9/guide.pdf>

*For further information, please contact the Responsible Officer via e-mail:
NEWMDB@IAEA.org*

Waste Classification Schemes

Country: MOROCCO

Reporting Year: 2013

Waste Class Matrix: **IAEA Def.**

This country does use the IAEA Scheme: No

Description: The Agency's standard matrix

| Waste Class Name | Distribution % | | | |
|------------------|----------------|-------|-------|-------|
| | VLLW | LLW | ILW | HLW |
| VLLW | 100.0 | 0.0 | 0.0 | 0.0 |
| LLW | 0.0 | 100.0 | 0.0 | 0.0 |
| ILW | 0.0 | 0.0 | 100.0 | 0.0 |
| HLW | 0.0 | 0.0 | 0.0 | 100.0 |

Waste Class Matrix: **National**

Yes

Description:

| Waste Class Name | Distribution % | | | |
|------------------|----------------|-------|-------|-------|
| | VLLW | LLW | ILW | HLW |
| Level I | 0.0 | 100.0 | 0.0 | 0.0 |
| Level II | 0.0 | 100.0 | 0.0 | 0.0 |
| Level III | 0.0 | 0.0 | 100.0 | 0.0 |
| Level IV | 0.0 | 0.0 | 0.0 | 100.0 |

Definition of «unprocessed waste» and «processed waste»:

This country uses the IAEA standard definition:

| | as-generated waste | processed for handling | processed for storage | processed for disposal |
|--------------------|--------------------|------------------------|-----------------------|------------------------|
| Unprocessed means: | x | | | |
| Processed means: | | x | x | x |

Groups Overview

Country: MOROCCO

Reporting Year: 2013

| Reporting Group: | National Total | | | |
|---------------------------|-----------------------|--------------------|---------|--|
| Inventory Reporting Date: | December 2013 | | | |
| Waste Matrix Used: | National | | | |
| Description: | | | | |
| Site Name | Facility Name | Facilities Defined | | |
| NT | NS | | storage | |
| | NS | | storage | |

Site (Structure) : NT

Country: MOROCCO

Reporting Year: 2013

Full Name:

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

| Facility: | NS | | | | | | | | | | | | | | | | |
|--|-----------|---------|-------------|--------|---------|---------|-----|----|----------|-----|----|-----------|----|----|----------|----|----|
| Description: | | | | | | | | | | | | | | | | | |
| <p>Storage part of facility NS</p> <p>The following shows storage status for waste classes and SRS.</p> <table border="1"> <thead> <tr> <th>Waste Class</th> <th>Actual</th> <th>Planned</th> </tr> </thead> <tbody> <tr> <td>Level I</td> <td>Yes</td> <td>No</td> </tr> <tr> <td>Level II</td> <td>Yes</td> <td>No</td> </tr> <tr> <td>Level III</td> <td>No</td> <td>No</td> </tr> <tr> <td>Level IV</td> <td>No</td> <td>No</td> </tr> </tbody> </table> | | | Waste Class | Actual | Planned | Level I | Yes | No | Level II | Yes | No | Level III | No | No | Level IV | No | No |
| Waste Class | Actual | Planned | | | | | | | | | | | | | | | |
| Level I | Yes | No | | | | | | | | | | | | | | | |
| Level II | Yes | No | | | | | | | | | | | | | | | |
| Level III | No | No | | | | | | | | | | | | | | | |
| Level IV | No | No | | | | | | | | | | | | | | | |
| List SRS? | No | | | | | | | | | | | | | | | | |
| List UMMT? | No | | | | | | | | | | | | | | | | |
| Capacity: | | | | | | | | | | | | | | | | | |

Site (Structure) : NT

Country: MOROCCO

Reporting Year: 2013

| | | | |
|---|---------------|----------------|--|
| Facility: | NS | | |
| Description: | | | |
| Storage part of facility NS | | | |
| The following shows storage status for waste classes and SRS. | | | |
| Waste Class | Actual | Planned | |
| Level I | Yes | No | |
| Level II | Yes | No | |
| Level III | No | No | |
| Level IV | No | No | |
| List SRS? | No | | |
| List UMMT? | No | | |
| Capacity: | | | |

Site (Data) : NT

Stock of waste as at December 2013

Country: MOROCCO

Reporting Year: 2013

Site Name: NT

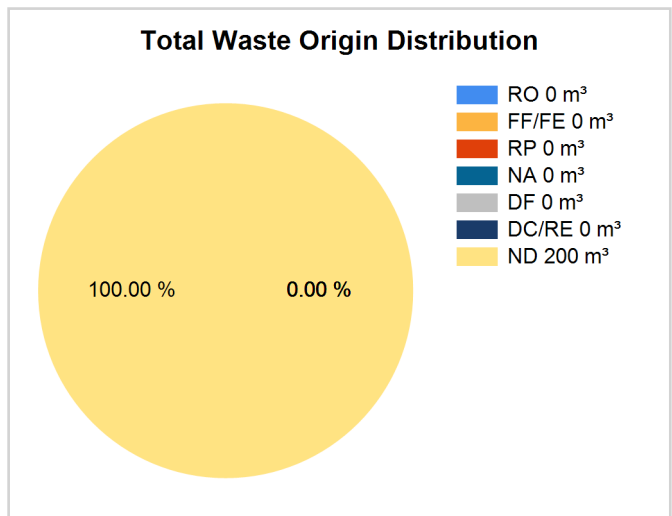
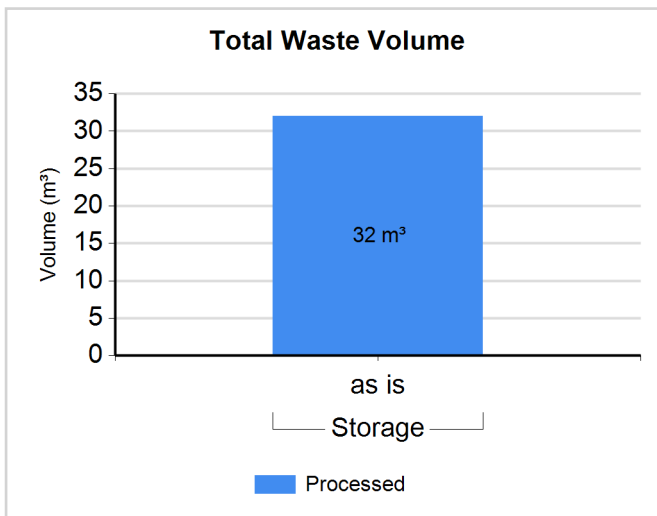
Full Name:

Inventory Reporting Date: December 2013

Waste Matrix Used: National

Waste Inventory

Est=distribution is an estimate, Proc.=Is the waste processed (Yes/No)? RO=Reactor Operations, FF/FE=Fuel Fabrication/Fuel Enrichment, RP=Reprocessing, NA=Nuclear Applications,DF=Defence, DC/RE=Decommissioning/Remediation, ND=Not Determined



Note: where volume "as dispo" is provided, volume "as is" is used in the graph instead.

Waste Class: Level I

| Waste Class Name | Location / Facility | Proc | Est. | Volume "as is" (m³) | Volume "as dispo" (m³) | RO % | FF/FE % | RP % | NA % | DF % | DC/RE % | ND % |
|------------------|---------------------|------|------|---------------------|------------------------|------|---------|------|------|------|---------|--------|
| Level I | Storage | Y | N | 30.000 | 30.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |

Waste Class: Level II

| Waste Class Name | Location / Facility | Proc | Est. | Volume "as is" (m³) | Volume "as dispo" (m³) | RO % | FF/FE % | RP % | NA % | DF % | DC/RE % | ND % |
|------------------|---------------------|------|------|---------------------|------------------------|------|---------|------|------|------|---------|--------|
| Level II | Storage | Y | N | 2.000 | 2.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |

Country: MOROCCO

Reporting Year: 2013

Regulations / Laws

Country: MOROCCO

Reporting Year: 2013

Country: MOROCCO

Reporting Year: 2013

Country: MOROCCO

Reporting Year: 2013

Radionuclide Inventory by Waste Class

Country: MOROCCO

Reporting Year: 2013

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

Spent Fuel Inventory

Country: MOROCCO

Reporting Year: 2013

Spent Fuel **in Storage**
No data available.

Spent Fuel **in Disposal**
No data available.

Waste Management Infrastructure and Financing

Country: MOROCCO

Reporting Year: 2013

National Infrastructure

| | |
|----------------------------------|--|
| Nuclear Energy Context: | |
| Research & Development: | |
| Policies and Programs: | |
| Decommissioning and Dismantling: | |
| Legal Framework: | |

Waste Management Infrastructure and Financing

Country: MOROCCO

Reporting Year: 2013

The law 142-12 is entered into force since last September. This law will replace the previous law and decrees. The aim of this law is to upgrade the national legislative and regulatory framework to ensure consistency with the international regime related to nuclear safety, security and safeguards.

The law is structured to cover the following topics:

- Nuclear and radiological safety and security:
 - o Definitions;
 - o General provisions;
 - o Licensing and notification processes;
 - o Common provisions to licensing and notification processes;
 - o Licensing of radioactive waste management activities;
 - o Protection against ionizing radiation sources;
 - o The use of ionizing radiation sources for medical or dental purposes;
 - o Physical protection, security safeguards and non-proliferation;
 - o Emergency planning;
 - o Accreditation of services providers.
- Enforcement and penalties;
- Creation of the nuclear and radiation safety and security Agency;
- Final provisions.

Pending the entry into force of the new law, regulation of radiological protection and nuclear energy is based on the framework Law of 12 October 1971 on the protection against the hazards of ionizing radiation, which establishes general principles. These principles formed the basis for executive regulations. The law 142-12 apply to the importation, exportation, acquisition, production, transformation, detention, use, sale, transit, transport, recycling and re-use of

equipment or substances capable of emitting ionizing radiation. They also apply to the treatment, handling, conditioning, storage, elimination and disposal of radioactive substances or waste and to any other activity involving a risk arising from ionizing radiation.

Others laws related to the nuclear field are:

- Law N° 12-02 relating to Civil Liability for Nuclear Damage promulgated by Decree
- Law N° 12-03 on Environmental Impact Studies promulgated by Decree N° 1-03-60 of 12 May 2003 applicable to the development of nuclear installations, including radioactive waste management facilities
- Dahir No. 1-99-126 of May 19, 2000 publishing the Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management The director of the Nuclear Safety and Security Agency was nominated. The Agency will take over the regulatory functions currently assigned respectively to the Ministry of Energy, Mines, Water and Environment (MEMEE) for the licensing and regulatory control of nuclear installations and to the National Centre of Radiation Protection (CNRP) under the Ministry of

Health's authority for all other radiation practices and sources, pending the establishment of the agency's structures, the CNRP and The MEMEE continue to cover activities taking place respectively in non-nuclear installations and in nuclear installation The use of radioactive material and substances are subject to authorization and declaration to the agency

The radioactive waste management installation is authorized to manage radioactive waste base on a safety analysis report. Each year CNESTEN submit an annual safety analysis report where he describe any change taking place during the year

Planned Improvements:

National Financing

Waste Management Infrastructure and Financing

Country: MOROCCO

Reporting Year: 2013

| | |
|------------------------|--|
| Nuclear installations: | |
| Legacy Wastes: | |
| Medical installations: | |
| Extractive Industries: | |
| Additional Comments: | |

Waste Management Organisations

Country: MOROCCO

Reporting Year: 2013

| | |
|-------------------|--------|
| Name: | |
| Full Name: | |
| Description: | |
| Address: | |
| Main Website: | |
| Year Established: | 1 |
| Legal Nature: | Public |

Waste Management Strategies

Country: MOROCCO

Reporting Year: 2013

| | |
|--------------------|--|
| Waste Class | |
| Strategy | |

Waste Management Responsibility

Country: MOROCCO

Reporting Year: 2013

| | |
|--|--|
| Waste Class: | |
| Regulatory Authority: | |
| Treatment/Conditioning of Radioactive Waste: | |
| Transport of Radioactive Waste: | |
| Development/operation of interim Storage Facilities: | |
| Development/operation of Disposal Facilities: | |
| Waste Management Organisation: | |
| Additional Comments: | |

Main Waste Producers

Country: MOROCCO

Reporting Year: 2013

| | |
|---------------|--|
| Name: | |
| Full Name: | |
| Description: | |
| Address: | |
| Main Website: | |

Future Outlook

Country: MOROCCO

Reporting Year: 2013

Outlook for the year: 2030

Data not available.

Outlook for the year: 2050

Data not available.

Outlook for the year: 2100

Data not available.