



Country Waste Profile Report for SWEDEN 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: SWEDEN

Reporting Year: 2013

Waste Class Matrix: **IAEA Def.**

This country does use the IAEA Scheme: Yes

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: **SKB**

Yes

Description: Waste Classification Scheme according to the waste handbook by SKB

Waste Class Name	Distribution %			
	VLLW	LLW	ILW	HLW
VLLW-SL	100.0	0.0	0.0	0.0
LLW-SL	0.0	100.0	0.0	0.0
ILW-SL	0.0	0.0	100.0	0.0
LILW-LL	0.0	0.0	100.0	0.0
HLW	0.0	0.0	0.0	100.0

Waste Class Matrix: **NAP**

Yes

Description: Waste Classification Scheme according to the national waste plan (NAP)

Waste Class Name	Distribution %			
	VLLW	LLW	ILW	HLW
UMMT	0.0	0.0	100.0	0.0
VLLW-LL	0.0	0.0	100.0	0.0
LLW-LL	0.0	0.0	100.0	0.0
LILW-LL	0.0	0.0	100.0	0.0
VLLW-SL	100.0	0.0	0.0	0.0
LLW-SL	0.0	100.0	0.0	0.0
LILW-SL	0.0	50.0	50.0	0.0
HLW	0.0	0.0	0.0	100.0

Waste Classification Schemes

Country: SWEDEN

Reporting Year: 2013

Waste Class Matrix: **National**

Yes

Description:

Waste Class Name	Distribution %			
	VLLW	LLW	ILW	HLW
VLLW-SL	100.0	0.0	0.0	0.0
LLW-SL	0.0	100.0	0.0	0.0
ILW-SL	0.0	100.0	0.0	0.0
LILW-LL	0.0	0.0	100.0	0.0
HLW	0.0	0.0	0.0	100.0

Comment **# 30825:**

National profile

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
Inprocessed means:	x			
Processed means:		x	x	x

Groups Overview

Country: SWEDEN

Reporting Year: 2013

Reporting Group:	CLAB
Inventory Reporting Date:	December 2013
Waste Matrix Used:	IAEA Def.
Description:	Central Interim Storage for, mainly, spent nuclear fuel but also for activated components from NPPs

Site Name	Facility Name	Facilities Defined	
CLAB	CLAB		storage

Reporting Group:	National Total
Inventory Reporting Date:	December 2013
Waste Matrix Used:	National
Description:	

Site Name	Facility Name	Facilities Defined	
NT	ND		disposal
	NS		storage

Groups Overview

Country: SWEDEN

Reporting Year: 2013

Reporting Group:	NPP
Inventory Reporting Date:	December 2013
Waste Matrix Used:	IAEA Def.
Description:	Nuclear Power Plants at Forsmark, Oskarshamn, Barseback and Ringhals

Site Name	Facility Name	Facilities Defined		
Barseback	Bit	processing		
	Cement	processing		
	Compaction	processing		
	Dewater	processing		
Forsmark	Bit	processing		
	Compaction	processing		
	FKA			disposal
	Solid	processing		
OKG	Cement	processing		
	Compaction	processing		
	Dewater	processing		
	OKG			disposal
	OKG		storage	
Ringhals	Solid	processing		
	Cement	processing		
	Compaction	processing		
	Ringhals			disposal
	Solid	processing		

Reporting Group:	Repository
Inventory Reporting Date:	December 2013
Waste Matrix Used:	IAEA Def.
Description:	Facilities for disposal of LILW in underground cavities

Site Name	Facility Name	Facilities Defined		
SFL 3-5	SFL 3-5			disposal
SFR 1	SFR 1			disposal
SFR 3	SFR 3			disposal

Groups Overview

Country: SWEDEN

Reporting Year: 2013

Reporting Group:	Studsvik			
Inventory Reporting Date:	December 2013			
Waste Matrix Used:	IAEA Def.			
Description:	Studsvik Research Center. The center collects and treats waste from all small users in Sweden.			
Site Name	Facility Name	Facilities Defined		
Studsvik	Cement	processing		
	Compaction	processing		
	Hot cell	processing		
	Incin	processing		
	Melting	processing		
	Studsvik		storage	
	Studsvik			disposal

Site (Structure) : NT

Country: SWEDEN

Reporting Year: 2013

Full Name:

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	ND		
Description:			
Disposal part of facility	ND		
The following shows disposal status for waste classes and SRS.			
Waste Class	Actual	Planned	
VLLW-SL	Yes	No	
LLW-SL	Yes	No	
ILW-SL	Yes	No	
LILW-LL	Yes	No	
HLW	No	No	
List SRS?	No		
List UMMT?	No		
Type:	engineered near surface, geological (cavern)		
Facility is modular?	No		
Depth (m):		Host medium:	unknown (site not selected)
Phase Name	Start Year	End Year	Estimate

Site (Structure) : NT

Country: SWEDEN

Reporting Year: 2013

Facility:	NS																			
Description:																				
Storage part of facility	NS																			
The following shows storage status for waste classes and SRS.																				
<table border="1"><thead><tr><th>Waste Class</th><th>Actual</th><th>Planned</th></tr></thead><tbody><tr><td>VLLW-SL</td><td>Yes</td><td>No</td></tr><tr><td>LLW-SL</td><td>Yes</td><td>No</td></tr><tr><td>ILW-SL</td><td>Yes</td><td>No</td></tr><tr><td>LILW-LL</td><td>Yes</td><td>No</td></tr><tr><td>HLW</td><td>No</td><td>No</td></tr></tbody></table>	Waste Class	Actual	Planned	VLLW-SL	Yes	No	LLW-SL	Yes	No	ILW-SL	Yes	No	LILW-LL	Yes	No	HLW	No	No		
Waste Class	Actual	Planned																		
VLLW-SL	Yes	No																		
LLW-SL	Yes	No																		
ILW-SL	Yes	No																		
LILW-LL	Yes	No																		
HLW	No	No																		
List SRS?	No																			
List UMMT?	No																			
Capacity:																				

Site (Data) : NT

Stock of waste as at December 2013

Country: SWEDEN

Reporting Year: 2013

Site Name: NT

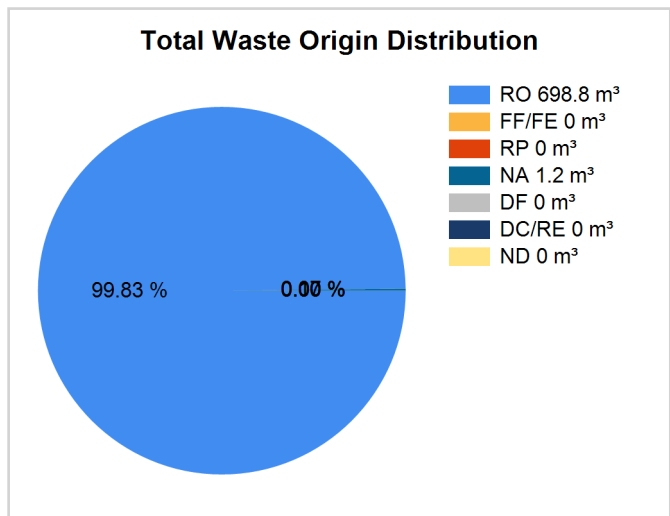
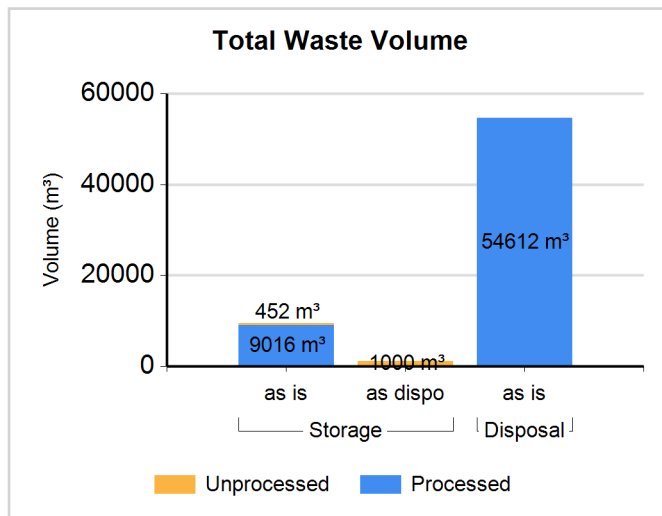
Full Name:

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: VLLW-SL

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
VLLW-SL	Storage	Y	N	2058.000	2058.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
VLLW-SL	Disposal	Y	N	19659.000	19659.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Waste Class: LLW-SL

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LLW-SL	Storage	Y	N	2745.000	2745.000	99.70	0.00	0.00	0.30	0.00	0.00	0.00
LLW-SL	Disposal	Y	N	10200.000	10200.000	99.70	0.00	0.00	0.30	0.00	0.00	0.00

Waste Class: ILW-SL

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
ILW-SL	Storage	Y	N	4213.000	4213.000	99.70	0.00	0.00	0.30	0.00	0.00	0.00
ILW-SL	Disposal	Y	N	24753.000	24753.000	99.70	0.00	0.00	0.30	0.00	0.00	0.00

Waste Class: LILW-LL

Data available but will not be reported.

Site (Structure) : Barseback

Country: SWEDEN

Reporting Year: 2013

Full Name: Barsebäck Nuclear Power Plant

Description:

Official Website:

License Holder(s): Barseback Kraft AB

Waste management facilities that are located at this site:

Facility:	Bit		
Description:	Solidification of ion exchange resins in bitumen		
Processing part of facility			
	Bit		
The following shows processing status for waste classes and SRS.			
Waste Class	Actual	Planned	
VLLW	No	No	
LLW	No	No	
ILW	No	No	
HLW	No	No	
Type:	Conditioning		
Year opened:	1980		

Site (Structure) : Barseback

Country: SWEDEN

Reporting Year: 2013

Facility:	Cement		
Description:	Conditioning of ion exchange resins in cement		
Processing part of facility		Cement	
The following shows processing status for waste classes and SRS.			
Waste Class	Actual	Planned	
VLLW	No	No	
LLW	No	Yes	
ILW	No	No	
HLW	No	No	
Type:	Conditioning		
Year opened:	0		

Site (Structure) : Barseback

Country: SWEDEN

Reporting Year: 2013

Facility:	Compaction		
Description:	Compaction of low active scrap and trash		
Processing part of facility		Compaction	
The following shows processing status for waste classes and SRS.			
Waste Class	Actual	Planned	
VLLW	No	No	
LLW	No	No	
ILW	No	No	
HLW	No	No	
Type:	Treatment		
Year opened:	1980		

Site (Structure) : Barseback

Country: SWEDEN

Reporting Year: 2013

Facility:	Dewater		
Description:	Dewatering ion exchange resins in waste container		
Processing part of facility		Dewater	
The following shows processing status for waste classes and SRS.			
Waste Class	Actual	Planned	
VLLW	No	No	
LLW	No	No	
ILW	No	No	
HLW	No	No	
Type:	Treatment		
Year opened:	1980		

Site (Structure) : Forsmark

Country: SWEDEN

Reporting Year: 2013

Full Name: Forsmark Nuclear Power Plant

Description:

Official Website:

License Holder(s): Forsmark Kraftgrupp AB

Waste management facilities that are located at this site:

Facility:	Bit															
Description:	Bituminisation of ion exchange resins															
<p>Processing part of facility Bit</p> <p>The following shows processing 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>VLLW</td> <td>No</td> <td>No</td> </tr> <tr> <td>LLW</td> <td>No</td> <td>No</td> </tr> <tr> <td>ILW</td> <td>No</td> <td>No</td> </tr> <tr> <td>HLW</td> <td>No</td> <td>No</td> </tr> </tbody> </table>		Waste Class	Actual	Planned	VLLW	No	No	LLW	No	No	ILW	No	No	HLW	No	No
Waste Class	Actual	Planned														
VLLW	No	No														
LLW	No	No														
ILW	No	No														
HLW	No	No														
Type:	Conditioning															
Year opened:	1988															

Site (Structure) : Forsmark

Country: SWEDEN

Reporting Year: 2013

Facility:	Compaction		
Description:	Compaction of low active scrap and trash		
Processing part of facility		Compaction	
The following shows processing status for waste classes and SRS.			
Waste Class	Actual	Planned	
VLLW	No	No	
LLW	No	No	
ILW	No	No	
HLW	No	No	
Type:	Treatment		
Year opened:	1988		

Site (Structure) : Forsmark

Country: SWEDEN

Reporting Year: 2013

Facility:	FKA		
Description:	Landfill for LILW with very low activity content. Activity content, total 100 GBq. Specific activity max 300 Bq/g and surface dose rate max 0.5 mSv/h		
Disposal part of facility		FKA	
The following shows disposal status for waste classes and SRS.			
Waste Class	Actual	Planned	
VLLW	No	No	
LLW	Yes	Yes	
ILW	No	No	
HLW	No	No	
List SRS?	No		
List UMMT?	No		
Type:	trench(es)		
Facility is modular?	Yes		
Capacity existing (m3):	42500	Capacity planned (m3):	42500
Depth (m):	0	Host medium:	crystalline rock (granite)
Phase Name	Start Year	End Year	Estimate
operation	1989	2040	False

Site (Structure) : Forsmark

Country: SWEDEN

Reporting Year: 2013

Facility:	Solid															
Description:	Solid waste backfilled with cement in waste containers															
Processing part of facility	Solid															
The following shows processing status for waste classes and SRS.																
<table border="1"><thead><tr><th>Waste Class</th><th>Actual</th><th>Planned</th></tr></thead><tbody><tr><td>VLLW</td><td>No</td><td>No</td></tr><tr><td>LLW</td><td>No</td><td>No</td></tr><tr><td>ILW</td><td>No</td><td>No</td></tr><tr><td>HLW</td><td>No</td><td>No</td></tr></tbody></table>	Waste Class	Actual	Planned	VLLW	No	No	LLW	No	No	ILW	No	No	HLW	No	No	
Waste Class	Actual	Planned														
VLLW	No	No														
LLW	No	No														
ILW	No	No														
HLW	No	No														
Type:	Conditioning															
Year opened:	1986															

Site (Structure) : OKG

Country: SWEDEN

Reporting Year: 2013

Full Name: OKG Nuclear Power Plant

Description:

Official Website:

License Holder(s): OKG AB

Waste management facilities that are located at this site:

Facility:	Cement															
Description:	Cement solidification of ion exchange resins															
<p>Processing part of facility Cement</p> <p>The following shows processing 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>VLLW</td> <td>No</td> <td>No</td> </tr> <tr> <td>LLW</td> <td>No</td> <td>No</td> </tr> <tr> <td>ILW</td> <td>No</td> <td>No</td> </tr> <tr> <td>HLW</td> <td>No</td> <td>No</td> </tr> </tbody> </table>		Waste Class	Actual	Planned	VLLW	No	No	LLW	No	No	ILW	No	No	HLW	No	No
Waste Class	Actual	Planned														
VLLW	No	No														
LLW	No	No														
ILW	No	No														
HLW	No	No														
Type:	Conditioning															
Year opened:	1972															

Site (Structure) : OKG

Country: SWEDEN

Reporting Year: 2013

Facility:	Compaction		
Description:	Compaction of scrap and trash with low activity contents		
Processing part of facility		Compaction	
The following shows processing status for waste classes and SRS.			
Waste Class	Actual	Planned	
VLLW	No	No	
LLW	No	No	
ILW	No	No	
HLW	No	No	
Type:	Treatment		
Year opened:	1972		

Site (Structure) : OKG

Country: SWEDEN

Reporting Year: 2013

Facility:	Dewater															
Description:	Dewatering of ion exchange resins															
Processing part of facility Dewater																
The following shows processing status for waste classes and SRS.																
<table border="1"><thead><tr><th>Waste Class</th><th>Actual</th><th>Planned</th></tr></thead><tbody><tr><td>VLLW</td><td>No</td><td>No</td></tr><tr><td>LLW</td><td>No</td><td>No</td></tr><tr><td>ILW</td><td>No</td><td>No</td></tr><tr><td>HLW</td><td>No</td><td>No</td></tr></tbody></table>	Waste Class	Actual	Planned	VLLW	No	No	LLW	No	No	ILW	No	No	HLW	No	No	
Waste Class	Actual	Planned														
VLLW	No	No														
LLW	No	No														
ILW	No	No														
HLW	No	No														
Type:	Treatment															
Year opened:	1980															

Site (Structure) : OKG

Country: SWEDEN

Reporting Year: 2013

Facility:	OKG
Description:	Rock cavern for storage of LILW

Storage part of facility OKG

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	No	No
LLW	No	No
ILW	Yes	No
HLW	No	No

List SRS?	No
List UMMT?	No

Capacity:	
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
OKG	cave	1978	No	No	No	No

Site (Structure) : OKG

Country: SWEDEN

Reporting Year: 2013

Facility:	OKG		
Description:	Landfill for LILW with very low activity content. Activity content, total 100 GBq (planned 300 GBq). Specific activity max 300 Bq/g and surface dose rate max 0.5 mSv/h		
Disposal part of facility	OKG		
The following shows disposal status for waste classes and SRS.			
Waste Class	Actual	Planned	
VLLW	No	No	
LLW	Yes	Yes	
ILW	No	No	
HLW	No	No	
List SRS?	No		
List UMMT?	No		
Type:	trench(es)		
Facility is modular?	Yes		
Capacity existing (m3):	7500	Capacity planned (m3):	16000
Depth (m):	0	Host medium:	crystalline rock (granite)
Phase Name	Start Year	End Year	Estimate
operation	1987	2040	False

Site (Structure) : OKG

Country: SWEDEN

Reporting Year: 2013

Facility:	Solid															
Description:	Scrap and trash backfilled with cement in waste container															
Processing part of facility	Solid															
The following shows processing status for waste classes and SRS.																
<table border="1"><thead><tr><th>Waste Class</th><th>Actual</th><th>Planned</th></tr></thead><tbody><tr><td>VLLW</td><td>No</td><td>No</td></tr><tr><td>LLW</td><td>No</td><td>No</td></tr><tr><td>ILW</td><td>No</td><td>No</td></tr><tr><td>HLW</td><td>No</td><td>No</td></tr></tbody></table>	Waste Class	Actual	Planned	VLLW	No	No	LLW	No	No	ILW	No	No	HLW	No	No	
Waste Class	Actual	Planned														
VLLW	No	No														
LLW	No	No														
ILW	No	No														
HLW	No	No														
Type:	Conditioning															
Year opened:	1972															

Site (Structure) : Ringhals

Country: SWEDEN

Reporting Year: 2013

Full Name: Ringhals Nuclear Power Plant

Description:

Official Website:

License Holder(s): Ringhals AB

Waste management facilities that are located at this site:

Facility:	Cement		
Description:	Conditioning of resins with cement		
Processing part of facility Cement			
The following shows processing status for waste classes and SRS.			
Waste Class	Actual	Planned	
VLLW	No	No	
LLW	No	No	
ILW	No	No	
HLW	No	No	
Type:	Conditioning		
Year opened:	1974		

Site (Structure) : Ringhals

Country: SWEDEN

Reporting Year: 2013

Facility:	Compaction															
Description:	Compaction of scrap and trash containing small activity quantities															
 Processing part of facility Compaction The following shows processing status for waste classes and SRS.																
<table border="1"><thead><tr><th>Waste Class</th><th>Actual</th><th>Planned</th></tr></thead><tbody><tr><td>VLLW</td><td>No</td><td>No</td></tr><tr><td>LLW</td><td>No</td><td>No</td></tr><tr><td>ILW</td><td>No</td><td>No</td></tr><tr><td>HLW</td><td>No</td><td>No</td></tr></tbody></table>		Waste Class	Actual	Planned	VLLW	No	No	LLW	No	No	ILW	No	No	HLW	No	No
Waste Class	Actual	Planned														
VLLW	No	No														
LLW	No	No														
ILW	No	No														
HLW	No	No														
Type:	Treatment															
Year opened:	1982															

Site (Structure) : Ringhals

Country: SWEDEN

Reporting Year: 2013

Facility:	Ringhals		
Description:	Landfill for LILW with very low activity content. Activity content, total 100 GBq. Specific activity max 300 Bq/g and surface dose rate max 0.5 mSv/h		
Disposal part of facility		Ringhals	
The following shows disposal status for waste classes and SRS.			
Waste Class	Actual	Planned	
VLLW	No	No	
LLW	Yes	Yes	
ILW	No	No	
HLW	No	No	
List SRS?	No		
List UMMT?	No		
Type:	trench(es)		
Facility is modular?	Yes		
Capacity existing (m3):	3500	Capacity planned (m3):	10000
Depth (m):	0	Host medium:	crystalline rock (granite)
Phase Name	Start Year	End Year	Estimate
operation	1993	2040	False

Site (Structure) : Ringhals

Country: SWEDEN

Reporting Year: 2013

Facility:	Solid		
Description:	Scrap and trash backfilled with cement		
Processing part of facility		Solid	
The following shows processing status for waste classes and SRS.			
Waste Class	Actual	Planned	
VLLW	No	No	
LLW	No	No	
ILW	No	No	
HLW	No	No	
Type:	Conditioning		
Year opened:	1977		

Site (Structure) : SFL 3-5

Country: SWEDEN

Reporting Year: 2013

Full Name: Repository for LILW-LL

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	SFL 3-5		
Description:	Repository for LILW-LL		
Disposal part of facility SFL 3-5			
The following shows disposal status for waste classes and SRS.			
Waste Class	Actual	Planned	
VLLW	No	No	
LLW	No	No	
ILW	No	Yes	
HLW	No	No	
List SRS?	No		
List UMMT?	No		
Type:	rock cavern (under sea, land access)		
Facility is modular?	No		
Capacity existing (m3):	0	Capacity planned (m3):	20000
Depth (m):	200-300	Host medium:	crystalline rock (granite)
Phase Name	Start Year	End Year	Estimate
operation	2045	2060	False

Site (Structure) : SFR 1

Country: SWEDEN

Reporting Year: 2013

Full Name: Repository for Radioactive Operational Waste

Description:

Official Website:

License Holder(s): Swedish Nuclear Fuel and Waste Management Co (SKB)

Waste management facilities that are located at this site:

Site (Structure) : SFR 1

Country: SWEDEN

Reporting Year: 2013

Facility:	SFR 1
Description:	Repository for disposal of operational LILW in underground cavities excavated in crystalline rock

Disposal part of facility SFR 1

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	No	No
LLW	Yes	No
ILW	No	No
HLW	No	No

List SRS?	No
List UMMT?	No

Type:	rock cavern (under sea, land access)		
Facility is modular?	No		
Capacity existing (m3):	63000	Capacity planned (m3):	63000

Depth (m):	>50	Host medium:	crystalline rock (granite)
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Phase Name	Start Year	End Year	Estimate
planning and/or concept assessment	1974	1976	False
site selection	1980	1981	False
design	1982	1983	False
construction	1983	1987	False
commissioning	1987	1988	False
operation	1988	2030	False
closure	2030		False

Site (Structure) : SFR 3

Country: SWEDEN

Reporting Year: 2013

Full Name: Repository for decommissioning waste

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	SFR 3		
Description:	Repository for disposal of LILW from decommissioning		
Disposal part of facility SFR 3			
The following shows disposal status for waste classes and SRS.			
Waste Class	Actual	Planned	
VLLW	No	No	
LLW	No	Yes	
ILW	No	No	
HLW	No	No	
List SRS?	No		
List UMMT?	No		
Type:	rock cavern (under sea, land access)		
Facility is modular?	No		
Capacity existing (m3):	0	Capacity planned (m3):	150000
Depth (m):	50	Host medium:	crystalline rock (granite)
Phase Name	Start Year	End Year	Estimate
planning and/or concept assessment	1982		False
operation	2020	2040	False

Site (Structure) : Studsvik

Country: SWEDEN

Reporting Year: 2013

Full Name: Studsvik Research Center

Description:

Official Website:

License Holder(s): Studsvik AB / AB SVAFO

Studsvik AB / AB SVAFO

Waste management facilities that are located at this site:

Facility:	Cement		
Description:	Cement solidification of wet waste, ion exchange resins, concentrats etc.		
Processing part of facility		Cement	
The following shows processing status for waste classes and SRS.			
Waste Class	Actual	Planned	
VLLW	No	No	
LLW	No	No	
ILW	No	No	
HLW	No	No	
Type:	Conditioning		
Year opened:	1999		

Site (Structure) : Studsvik

Country: SWEDEN

Reporting Year: 2013

Facility:	Compaction		
Description:	Compaction of low active waste in containers		
Processing part of facility		Compaction	
The following shows processing status for waste classes and SRS.			
Waste Class	Actual	Planned	
VLLW	No	No	
LLW	No	No	
ILW	No	No	
HLW	No	No	
Type:	Treatment		
Year opened:	1970		

Site (Structure) : Studsvik

Country: SWEDEN

Reporting Year: 2013

Facility:	Hot cell		
Description:	Shielded treatment and conditioning of solid LILW. Cement as backfill in waste container.		
Processing part of facility		Hot cell	
The following shows processing status for waste classes and SRS.			
Waste Class	Actual	Planned	
VLLW	No	No	
LLW	No	No	
ILW	Yes	No	
HLW	No	No	
Type:	Conditioning		
Year opened:	0		

Site (Structure) : Studsvik

Country: SWEDEN

Reporting Year: 2013

Facility:	Incin															
Description:	Incineration of low active trash															
Processing part of facility	Incin															
The following shows processing status for waste classes and SRS.																
<table border="1"><thead><tr><th>Waste Class</th><th>Actual</th><th>Planned</th></tr></thead><tbody><tr><td>VLLW</td><td>No</td><td>No</td></tr><tr><td>LLW</td><td>No</td><td>No</td></tr><tr><td>ILW</td><td>No</td><td>No</td></tr><tr><td>HLW</td><td>No</td><td>No</td></tr></tbody></table>	Waste Class	Actual	Planned	VLLW	No	No	LLW	No	No	ILW	No	No	HLW	No	No	
Waste Class	Actual	Planned														
VLLW	No	No														
LLW	No	No														
ILW	No	No														
HLW	No	No														
Type:	Treatment															
Year opened:	1976															

Site (Structure) : Studsvik

Country: SWEDEN

Reporting Year: 2013

Facility:	Melting		
Description:	Melting of low active scrap		
Processing part of facility		Melting	
The following shows processing status for waste classes and SRS.			
Waste Class	Actual	Planned	
VLLW	No	No	
LLW	No	No	
ILW	No	No	
HLW	No	No	
Type:	Treatment		
Year opened:	1987		

Site (Structure) : Studsvik

Country: SWEDEN

Reporting Year: 2013

Facility:	Studsvik
Description:	Rock cavern for storage of LILW

Storage part of facility **Studsvik**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	No	No
LLW	No	No
ILW	Yes	No
HLW	No	No

List SRS?	No
List UMMT?	No

Capacity:	
------------------	--

Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
AM	cave	1985	No	No	No	No

Site (Structure) : Studsvik

Country: SWEDEN

Reporting Year: 2013

Facility:	Studsvik		
Description:	Landfill for LILW with very low activity content. Activity content, total 100 GBq. Specific activity max 300 Bq/g and surface dose rate max 0.5 mSv/h		
Disposal part of facility		Studsvik	
The following shows disposal status for waste classes and SRS.			
Waste Class	Actual	Planned	
VLLW	No	No	
LLW	Yes	Yes	
ILW	No	No	
HLW	No	No	
List SRS?	No		
List UMMT?	No		
Type:	trench(es)		
Facility is modular?	Yes		
Capacity existing (m3):	900	Capacity planned (m3):	1200
Depth (m):	0	Host medium:	crystalline rock (granite)
Phase Name	Start Year	End Year	Estimate
operation	1987	2040	False

Country: SWEDEN

Reporting Year: 2013

Name:	SSM
Full Name:	Swedish Radiation Safety Authority
Divison:	
City or Town:	Stockholm
Main Website:	

Regulations / Laws

Country: SWEDEN

Reporting Year: 2013

Name:	Nuc Act	
Title or Name:	The Nuclear Activities Act	
Reference Number:	1984:3	
Date Promulgated or Proclaimed:	1/1/1984	Law

Name:	NucActOrd	
Title or Name:	Nuclear Activities Ordinance	
Reference Number:	1984:14	
Date Promulgated or Proclaimed:	1/1/1984	Law

Name:	Safety Reg	
Title or Name:	Regulations Concerning Safety in Certain Nuclear Facilities	
Reference Number:	SKI FS 2004:1	
Date Promulgated or Proclaimed:	1/1/2005	Regulation

Name:	Dose Reg	
Title or Name:	Regulations Concerning the Final Management of Spent Nuclear Fuel and Nuclear Waste	
Reference Number:	SSI FS 1998:1	
Date Promulgated or Proclaimed:	1/1/1998	Regulation

Name:	Archive	
Title or Name:	Regulations Concerning Archives at Nuclear Installations	
Reference Number:	SSI FS 1997:1	
Date Promulgated or Proclaimed:	1/1/1997	Regulation

Name:	Financing	
Title or Name:	Act on the Financing of Future Expenses for Spent Nuclear Fuel, etc.	
Reference Number:	1992:1537	
Date Promulgated or Proclaimed:	1/1/1992	Law

Regulations / Laws

Country: SWEDEN

Reporting Year: 2013

Name:	FinanceOrd		
Title or Name:	Ordinance on the Financing of Future Expenses for Spent Nuclear Fuel etc.		
Reference Number:	1981:671		
Date Promulgated or Proclaimed:	1/1/1981		Law

Milestones

Country: SWEDEN

Reporting Year: 2013

Start Year or Reference Year:	1988	End Year:	2060
Description of Milestone:			
The final repository for short-lived radioactive waste from operation and maintenance of NPPs in operation. From approximately the year 2020 extended to accommodate decommissioning waste from NPPs			

Policies

Country: SWEDEN

Reporting Year: 2013

National Systems

Policy		(Yes;Partially;No)
Q14	Has your Country implemented a national policy for radioactive waste management?	Yes
Strategies		(Yes;Partially;No)
Q15	Has your country developed strategies to implement a national policy?	Yes
Requirements		(Yes;Partially;No)
Q17	identified the parties involved in the different steps of radioactive waste management	Yes
Q18	specified a rational set of safety, radiological and environmental protection objectives	Yes
Q19	implemented a mechanism to identify existing and anticipated radioactive wastes	Yes
Q20	implemented controls over radioactive waste generation	Yes
Q21	identified available methods and facilities to process, store and dispose of radioactive waste on an appropriate time-scale	Yes
Q22	taken into account interdependencies among all steps in radioactive waste generation and management	Yes
Q23	implemented appropriate research and development to support the operational and regulatory needs	Yes
Q24	implemented a funding structure and the allocation of resources that are essential for radioactive waste management	Yes
Q25	implemented formal mechanisms for disseminating information to the public and for public consultation	Partially
Responsibilities		(Complete;Incomplete)
Q28	establish and implement a legal framework for the management of radioactive waste	Complete
Q29	establish or designate a regulatory body that has the responsibility for carrying out the regulatory function with regard to safety and the protection of human health and the environment.	Complete
Q30	define the responsibilities of waste generators and operators of waste management facilities	Complete
Q31	provide for adequate resources	Incomplete
Q33	enforce compliance with regulatory requirements	Complete
Q34	implement the licensing process	Complete
Q35	advise the government	Complete
Q37	identify an acceptable destination for the radioactive waste	Complete
Q114	comply with legal requirements	Complete

Policies

Country: SWEDEN

Reporting Year: 2013

Activities		(Yes;Partially;No)
Q43	perform safety and environmental impact assessments for radioactive waste management facilities	Yes
Q44	ensure adequate radiation protection for workers, the general public and the environment	Yes
Q45	ensure suitable staff, equipment, facilities, training and operating procedures are available to perform the safe radioactive waste management steps	Yes
Q46	establish and implement a quality assurance programme for the radioactive waste generated or its processing, storage and disposal	Yes
Q47	establish and keep records of appropriate information regarding the generation, processing, storage and disposal of radioactive waste, including an inventory of radioactive waste	Yes
Q48	provide surveillance and control of activities involving radioactive waste as required by the regulatory body	Yes
Q49	collect, analyze and, as appropriate, share operational experience to ensure continued safety improvements in radioactive waste management	Yes
Q50	conduct or otherwise ensure appropriate research and development to support operational needs in radioactive waste management	Yes
Clearance		(Yes;No)
Q128	Does your country have "clearly defined clearance levels based on radiological criteria, with policy statements that material below those levels can be recycled or disposed of with non-radioactive wastes"?	No
Q129	Has your country ever used a "case-by-case" approach to clearing radioactive wastes (excluding spent/disused sealed radioactive sources)?	Yes
Q130	Has your country ever used clearance levels to dispose of, reuse or recycle radioactive waste as non-radioactive waste or as a non-radioactive resource (excluding spent/disused sealed radioactive sources)?	Yes

Policies

Country: SWEDEN

Reporting Year: 2013

Disposal Facilities

Licensing		(Yes - All;Yes - Some;No)
Q53	Environmental Assessment (EA)	Yes - All
Q54	Environmental Impact Statement (EIS)	Yes - All
Q55	Performance Assessment (PA)	Yes - All
Q56	Quality Assurance (QA)	Yes - All
Q57	Safety Assessment (SA)	Yes - All
Q59	If Quality Assurance is part of your Country's current, waste disposal facility licensing policy, does the QA Program conform to international standards (such as the ISO9000 series)?	Yes - Some
Operation		(Yes - All;Yes - Some;No)
Q60	Does your Country have formal, documented waste acceptance criteria for its operating or proposed disposal facilities?	Yes - All
Post-Closure		(Yes;No)
Q61	Does your Country have any written policies to address the maintenance of records that describe the design, location and inventory of waste disposal facilities?	Yes
Q62	If the answer to the previous question was YES, does your Country have any policies, laws or regulations that prescribe what records are to be maintained?	Yes
Q63	Does your Country have any written policies to address active institutional controls or passive institutional controls, such as monitoring or access restrictions?	No

Policies

Country: SWEDEN

Reporting Year: 2013

Processing/Storage

Policies/Procedures		(Yes;No)
Q73	waste sorting/segregation	No
Q74	waste minimization	No
Q75	waste storage	Yes
Q76	processing and/or storing and/or disposing of nuclear fuel cycle waste separately from non-nuclear fuel cycle waste (also known as nuclear applications waste)	No
Q78	Does your country have any legislation, regulation, or policy that waste processing must take place prior to storage (see following note)	No
Implementation		(Yes;No)
Q80	In your Country are there any waste processing facilities at the same location where the waste is generated?	Yes
Q81	In your Country are there any centralized waste processing facilities?	Yes
Q82	In your Country are there any mobile waste processing facilities?	No
Foreign		(Yes;No)
Q121	Has your country sent any wastes or spent fuel to another country for processing (reprocessing for fuel)?	Yes
Q122	Will some or all of the product(s) of processing/reprocessing be returned to your country?	Yes
Q123	Currently, are any of your country's wastes (processed or unprocessed, including the products of reprocessing) or spent fuel being stored in another country?	Yes
Q124	Has your country accepted any wastes or spent fuel from another country for processing (reprocessing for fuel)?	Yes
Q125	Currently, are there any wastes (processed or unprocessed, including the products of reprocessing) or spent fuel from another country being stored in your country?	Yes
Q126	Will some or all of the the product(s) of processing/reprocessing be returned to the country of origin?	Yes
Q127	Does the inventory you reported to the NEWMDB for your country include radioactive wastes that originated in another country or that were generated as a result of processing/reprocessing radioactive waste/spent fuel that originated in another country?	No

Policies

Country: SWEDEN

Reporting Year: 2013

Spent/Disused SRS

Registration		(Yes;No)
Q84	Is there a national level registry?	Yes
Q85	If answer was yes, is the registry used only for disused/spent SRS?	No
Q87	Are there regional-level registries (one or more)?	No
Q90	Are there local-level registries (one or more)?	Yes
Q115	If the answer was yes, are any registries used only for disused/spent SRS?	Yes
Procedures		(Yes;No)
Q91	Does your Country have documented procedures in place to ensure that sealed radioactive sources (SRS) are transferred to secure facilities in a timely manner after their user declares them to be spent?	No
Agreements		(Yes;No)
Q93	Government to Government agreements	No
Q94	Government - Supplier agreements	No
Q95	Supplier-User agreements	No
Q97	Do any agreements include suppliers that are outside of your Country?	No
Release / Disposal		(Yes;No)
Q99	Does your Country have any regulations to free-release spent sealed radioactive sources (SRS)?	No
Q100	Has your Country disposed of spent SRS in existing disposal facilities for LILW or HLW waste?	Yes
Q101	Does your Country plan to dispose of spent SRS in existing or planned disposal facilities for LILW or HLW waste?	Yes
Q102	Has your Country implemented dedicated disposal facilities for spent SRS?	No
Q103	Does your Country have plans to implement dedicated disposal facilities for spent SRS?	No
Import-Export		
Radioactive Waste		(Yes;No)
Q104	Does your Country have laws or Regulations restricting either the import or export of radioactive waste (excluding spent fuel)?	Yes
Spent Fuel		(Yes;No)
Q105	Does your Country have laws or Regulations restricting either the import or export of spent fuel?	Yes

Country: SWEDEN

Reporting Year: 2013

Liquid HLW**Storage****(Yes;No)**

Q106 Does your Country have high-level liquid wastes in storage? No

UMMT**Responsibility****(Yes;No)**

Q110 Does your Country have any Uranium Mine and Mill Tailings sites that do not have a designated authority to manage them? No

Decommissioning**Funding****(Yes - All;Yes - Some;No)**

Q111 Does your Country require that funds should be set aside in support of future waste management activities, such as decommissioning activities? Yes - All

Facilities**(Yes;No)**

Q119 Does Your Country have any nuclear fuel cycle facilities? Yes

Q120 Does Your Country have any nuclear applications facilities (non fuel cycle facilities)? Yes

Timeframe**(Yes - All;Yes - Some;No)**

Q112 Does your Country require a time frame for the decommissioning of nuclear fuel cycle facilities once these facilities cease operation? No

Q113 Does your Country require a time frame for the decommissioning of non-nuclear fuel cycle facilities once these facilities cease operation? No

Radionuclide Inventory by Waste Class

Country: SWEDEN

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.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

Waste Management Infrastructure and Financing

Country: SWEDEN

Reporting Year: 2013

National Infrastructure

Nuclear Energy Context:	
Research & Development:	
Policies and Programs:	
Decommissioning and Dismantling:	
Legal Framework:	
Planned Improvements:	

National Financing

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

Waste Management Organisations

Country: SWEDEN

Reporting Year: 2013

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

Waste Management Strategies

Country: SWEDEN

Reporting Year: 2013

Waste Class	
Strategy	

Waste Management Responsibility

Country: SWEDEN

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: SWEDEN

Reporting Year: 2013

Name:	
Full Name:	
Description:	
Address:	
Main Website:	

Future Outlook

Country: SWEDEN

Reporting Year: 2013

Outlook for the year: 2030

Gross Nuclear Capacity (MW):	0
Assumptions:	
Total Waste "as dispo" Volume in Storage (m ³):	21000
Total Waste Volume in Disposal (m ³):	90000
Assumptions:	
Total Spent Fuel in Storage (tHM):	9500
Total Spent Fuel in Disposal (tHM):	
Assumptions:	
Remaining Disposal Capacity for Volume of Waste (m3):	0
Assumptions:	
Remaining Disposal Capacity for Spent Fuel (tHM):	0
Assumptions:	

Future Outlook

Country: SWEDEN

Reporting Year: 2013

Outlook for the year: 2050

Gross Nuclear Capacity (MW):	
Assumptions:	
Total Waste "as dispo" Volume in Storage (m ³):	19000
Total Waste Volume in Disposal (m ³):	155000
Assumptions:	
Total Spent Fuel in Storage (tHM):	4000
Total Spent Fuel in Disposal (tHM):	8000
Assumptions:	
Remaining Disposal Capacity for Volume of Waste (m3):	
Assumptions:	
Remaining Disposal Capacity for Spent Fuel (tHM):	
Assumptions:	

Outlook for the year: 2100

Data not available.