

GDF GSR Planners - Endlager Planer

DBHD - ART-TEL - DBD - ELB - PTH

CIGEO - Ing. Goebel - Dr. Herres





PTH 04 and ELB 03 make GDF possible and SAFE 08 Peace Contract RU-UA-USA KBS 3 welding problems

South Korea - KORADIS ELB 03 in PTH 04 in PTK 01 ART-TEL 2.1 Standort BRD Teltow-Fläming

CIGEO 2.1 mit ELB 08 FR UK GDF by NWS 37 Grad Cigeo 2.0 mit ELB 06 FR Cigeo Peer Review

DBD 5227 for small HLW amounts for COVRA Netherland Salt Peer Review nagra CH Durchlauferhitzer am Rhein

Singapore GDF and MMR ART-TEL 2.0 Niederlausitz Deep Isolation or DBD US GDF Salt Geologies

Maglev China Track, Tunnel and Lines Beishan GDF Lab URL China Surao CZ Gen. 1 GDF Ideas

GDF GSR Country List EU Vertrags-Verletzungs-Verfahren gegen Deutschland aufheben

Posiva Oy:tä vastaan nostettu kanne Euroopan unionin tuomioistuimessa NWMO HLW GDF Canada

Mini-Brücke Rehbecke Hagen Fuhrpark-Brücke Hagen A45 Talbrücke Brunsbecke

FINAL - Cuno Berufsschule mit Sport-Halle auf Westside mit HBF Anschluss Cuno Berufsschule und Berufskolleg auf Varta-Insel

BBZ HA Cuno Berufsschule Ersatzbau Sanierung Bahnhofs-Quartier Eastside Hagen NRW DE 06 Sanierung HBF Hagen

Ing Endlager-Planung Lizenzen-Shop Internationales Schweiz Hagen Impressum

-- -- -- -- -- -- -- -- -- - - -

GDF GSR Country List - by Ingenieurbüro Goebel

we list GDF GSR plans by Ing. Goebel + Dr. Herres - 21.10.2026

Geological Disposal Facilites + Geological Storage Facilities

we also list GDF GSR BY COUNTRY LIST that did not need us

208.866 Mg ! (tons) HLW in EU only - have to find GDF.

>>> World total amount of HLW is 516.044 Mg (tons) >>>

GDF GSF Country List - started by Ing. G[...]
PDF-Dokument [1.5 MB]

Origianl table - edit here

Country	Method	Geology	Temp.	Drill-Tech	Capacity
Germany DE Brandenburg 1.842 € / kg HLW	ART-TEL 2.1 ELB 03 DE PTH 04 DE	Rocksalt flat, thick Brandenb.	48,4 °C max. after 58,6 yrs	TBM D 16,4 AVN 0,7 m ? - 700 m, undeep	19.000 Mg DE spent fuel for sale now and vitrified waste
Germany DE Beverstedt 789 € / kg HLW	DBHD 2.0.1 ELB 03 DE PTH 04 DE	Rocksalt Diapir Beverstedt	126,5 °C max. after 215 yrs	SBR D 12 - 22 m Epiroc D = 0,152 - 1.400 m, deep - 2.518 m, deep - 8.400 m, deep	19.000 Mg DE spent fuel for sale now and vitrified waste
Germany DE Brandenburg 2.274 € / kg HLW	DBD 5227 ELB 03 DE PTH 04 DE	Rocksalt flat, thick Brandenb.	71,5 °C max. after 5,6 yrs	Rotary Drill Rig 20", 16", 12", 8" - 1.000 m, deep - 2.250 m, deep	19.000 Mg DE spent fuel for sale now and vitrified waste 3.600 drills !
Germany DE (bei Ulm Psst) 3.500 € / kg HLW	BGR BGE Pollux !? 5.000 W	Clayrock 70 Sediments 30 % das schmiert !!	150 °C ?? max. after xy yrs	Drill & Blast -400 m, undeep Dünn-Schichten Geologie, Tote	19.000 Mg DE spent fuel for sale now and vitrified waste !! WET GDF !!
France FR Bure 2.611 € / kg HLW	CIGEO 2.1 ELB 08 FR PTH 09 FR Expensive	Clayrock 50 Sediments 45 % - Bure Muschelkalk	36,3 °C max. after 37 yrs	2x TBM D 14 m 1x SBR D 14 m 12x AVN 0,7 m - 500 m, undeep	18.000 Mg FR vitrified waste 4 % you say W.-Grade Pu ? !! WET GDF !!
England UK ?? 3 km 2 ??	NWS HLW GDF GSR Concrete !? ELB 10 UK SF	Hardrock 4,31 W 1 Kg ELB SF	xy °C max. after xy yrs	Drill & Blast -1.000 m, deep	5.370 Mg today > 10.000 mg future. m3>kids vitrified waste

	PTH 11 UK SF ELB 11 UK V PTH 12 UK V	56,13 W 20 kg ElB V			!! WET GDF !!
Sweden SE Forsmark 1.0	SKB HLW GDF GSR XXL KBS-3 ELB 05 SE ? PTH 06 SE ?	Hardrock ELE Warning 2.000 kg Inv. 1.830 Watt 13x critical masses	49 °C max. after xy yrs Dr. Herres works on it	Drill & Blast - 500 m, undeep Decay waste heat use unit needed > HOT	8.000 Mg tons > 12.000 Mg spent fuel !! WET GDF !! Vattenfall pls !
Sweden SE Forsmark 2.0	SKB HLW GDF GSR ELB 05 SE PTH 06 SE	Hardrock 1 kg Inv. Containers 1,09 W ? ELB	140 °C max. after xy yrs Dr. Herres works on it	Drill & Blast - 500 m, undeep Decay waste heat use unit build in now	12.000 Mg spent fuel !! WET GDF !! 2K sealed monitored
Finland FI Olkiluoto	Posiva HLW GDF GSR XXL KBS-3 ELB 06 FI ? PTH 07 FI ?	Hardrock ELE Danger 2.000 kg Inv. 1.830 Watt 13x critical masses	xy °C max. after xy yrs Dr. Herres works on it	Drill & Blast - 400 m, undeep Decay waste heat use unit needed > HOT	6.500 Mg tons Final ? spent fuel !! WET GDF !!
Canada CA Wabigoon Ontario	NWMO HLW GDF GSR XL UFC ELB 11 CA ? PTH 12 CA ?	Hardrock ELE Warning 920 kg Inv. 1.620 Watt 4x critical masses	xy °C max. after xy yrs Dr. Herres works on it	Drill & Blast - 650 m, - 850 m, multistory GSF ? then good be- cause decay heat use	112.750 Mg spent fuel is not typing error, its un- enriched UOX !! WET GDF !!

Argentina AR

4.600 Mg	CNEA / PNGRR	Avenida del Libertador 8250	C1429BNP Ciudad Autónoma de Buenos Aires	+54 11 4704-1000	Dr. Ing. Germán Guido Lavalle

Armenia AM

245 Mg - 1.890 BE Typ WWER 440	CJSC	4 Tigran Mets Ave	4 Tigran Mets Ave	+374 10 541719	Armen Amirjanyan

Australia AU		flat salt - thick ?		yellow cake from there	
Bangladesh BD		Rooppur NPP started 2026	app. 60 Mg / year		
Belgium BE		DBD			
5.625 Mg	Niras / Ondraf	Koning Albert II-laan 32	1000 Brüssel	+32 2 212 10 11	Marc Demarche
Belarus BY		BelNPP started 2020	Ostrowez	app. 60 Mg / year	
Brasil BR			Hardrock ?	Salt ?	
2.854 Mg	CNEN	Rua General Severiano 90	Botafogo, Rio de Janeiro 22290-901	+55 (21) 2586-1180	Francisco Rondinelli Júnior
Bulgaria BG					
1.006 Mg	Seraw	52A G. M. Dimitrov Blvd., fl. 6	1797 Sofia	+359 2 9035 100	Dilyan Petrov
Canada CA		Wabigoon ?		hardrock	
112.750 Mg	NWMO	22 St. Clair Avenue East	Toronto, Ontario M4T 2S3	+1 416-934-9814	Laurie Swami ?
China CN		Beishan	far out	hardrock FORSMARK 2.0	ELE - Warning then good
83.000 Mg	CNNC	No 1 Nansanxiang, Sanlihe	Xicheng District, 100822 Beijing,	+86 10 6851 2211	Shen Yanfeng
Croatia HR					
463 Mg	NEK	Ulica Vjekoslava Heinzela 70A	10000 Zagreb	+385 (0)1 3090 700	Josip Lebegner Dipl.-Ing.
Czech Republic CZ					
14.500 Mg	Surao	Dlážděná 1004/6	1100 Praha 1	+420 221 421 511	Dr. Lukáš Vondrovic
Denmark DK		DBD, salt	3 XS SRR	no NPP, no MMR, no SMR	
233 kg		DD			
Egypt EG		NPP El Dabaa start 2028			

England UK

3.690 Mg	NWS	Pelham Drive	Cumbria, CA20 1DB	+44 300 369 0000	Seth Kybird

Finland FI

EuGH Luxemburg

hardrock

6.500 Mg	Posiva Oy	Olkiluoto NPP Site	27160 Eurajoki	+358 2 8372 31	Ilkka Poikolainen

France FR

CIGEO 2.1

COX Clayrock

15.000 Mg + 12.400 FP	Andra	1/7, rue Jean Monnet	92298 Châtenay-Malabry Cedex	+33 1 46 11 80 00	Lydie Evrard

Germany DE

ART-TEL 2.1

Rocksalt

11.00 - 19.000 Mg	BGE - hahaha	Eschenstr. 55	31224 Peinelich	+49 5171 43-0	Iris Graffunder ?

Hungary HU

DBD

1.200 Mg	Puram	Puskás Tivadar u. 11	2040 Budaör	+36 75 519 534	Bálint Nős

India IN

you have salt

28.643 Mg	BARC	Bhabha Atomic Research Centre	Trombay, 400085 Mumbai	+91-22- 25592000	Shri Vivek Bhasin

Iran IR

Italy IT

DBD

smallest amount

15,66 Mg ???	Sogin S.p.A	Via Marsale 51/C	00185 Rome	+39.06.830401	Luca Mastrantonio

Japan JP

hardrock

19.000 Mg	Numo	Mita NN Bldg. 2F, 4-1-23 Shiba, Minato-ku	Tokyo 108-0014	+81-3-6371-4000	Akira Yamaguchi

Kazakhstan KZ

XXL rocksalt

yellow cake from there

300 Mg	NNC	2B Beibyt Atom St	Kurchatov, Abai Region 180010	+7 (722-51) 3-33-33	Gumar Sergazin

Lithuania LT

DBD in salt

2.500 Mg	Altra	Elektrinės g. 4 K4 7, Drukšinių k.	31152 Visaginas	+370 386 2898	Linas Baužys

Mexico MX

1.200 Mg	CFE	Av. Paseo de la Reforma 164	06600, Ciudad de México	+52 (55) 5229 4400	Emilia Esther Calleja Alor

Pakistan PK		**DBD**			
1.100 Mg	PAEC	Near K–Block, P.O. Box 1114	Islamabad, Pakistan	+92 51 9209032-37	Dr. Raja Ali Raza Anwar
Netherlands NL		**DBD**	**to small amount**	**or Mini ART-TEL for vitrified waste**	**or Mini DBHD for vitrified waste**
ca. 300 Mg	Covra	Spanjeweg 1	4455 TW Nieuwdorp	+31 113 61 66 6	Harald Schoenmakers
Romania RO					
3.700 Mg	ANDR	Strada D.I. Mendeleev nr. 21-25, Sector 1	010362 București	+40 21 316 80 01	Mihăiță Găină
Russia RU		**hardrock**	**salt**	**vitrified waste**	2nd burn from BN 800
24.000 Mg > 70.000 Mg	NO RAO	1st Derbenevsky lane, 5, bld.5	115114, Moscow,	+7 (499) 518 88 81	Sergey Deryabin
South Africa ZA		**hardrock**	**salt**		
1.000 Mg	NRWDI	Building X, Elias Motsoaledi Street Extension (Church Street West) R104, Pelindaba Brits Magisterial District, Madibeng Municipality, North West Province	0240, Südafrika Private Bag X1, Pretoria, 0001, Südafrika	+27 12 305 3222	Riedewaan Bakardien
South Korea KS		**hardrock**	**KBS-3 problem**		**ELE Warning**
18.600 Mg	KORAD	19, Chunghyocheon-gi	38062 Gyeongju	+82 54-750-4114	Lee Jin-ho
Slovakia SK					
3.380 Mg	JAVYS	Jaslovské Bohunice 360	91930 Jaslovské Bohunice	+421 33 531 1111	Miroslav Obert
Slovenia SI		**DBD**	Slovenia /Croatia	Deep Isolation Cowboys	
(926 Mg) 436 Mg	ARAO	Litostrojska cesta 58A	1000 Ljubljana	+386 1 236 32 00	Sandi Viršek
Spain ES		**DBD**		**Deep Isolation Cowboys**	
6.000 Mg	Enresa S.A.	C/ Emilio Vargas nº 7	28043 Madrid	+34 91 566 81 00	Olga Garcia
Sweden SE		**Forsmark 2.0**		**hardrock**	
12.000 Mg	SKB	Evenemangsgatan 13	SE-169 79 Solna	+46 (0)8-459 84 00	Stefan Engdahl
Switzerland CH		**ART-TEL 2.1**	**CIGEO 2.1**	**FORSMARK 2.0**	NOT Weinland ZH
4.100 Mg	nagra	Hardstrasse 73	5430 Wettingen	+41 56 437 11 11	Matthias Braun

Taiwan TW

3.869 Mg	NSC	2F., No. 80, Sec. 1, Chenggong Rd., Yonghe Dist	New Taipei City 234036	+886-2-8231-7919	Chen, Min-Jen

Turkey TR

Akkuyu start 2026

DBD

UAE AE

90 Mg pro Jahr

DBD

United States US

ELB 07 US
PTH 08 US

DBD, ART-TEL, DBHD, CIGEO and FORSMARK 2

Deep Isolation needs to buy ELB 07 in PTH 08 GDF Containers

104.000 Mg	DOE / NRC / EPA	56 Bio USD on GDF accounts - but no will to build a GDF at all			

Ukraine UA

DBD

7.000 Mg	SSE CERWM	52 Kirova St 34 Lesi Ukrainky Blvd	Kyiv Region, 07270 Kyiv, 01133	+380 50 321 03 50	Ihor Jakowytsch Rybatschenko

GDF GSF Country List - started by Ing. G[...]
PDF-Dokument [1.5 MB]

https://www.ing-goebel.de/gdf-gsr-country-list/

Alle Entsorgungs-Gesellschaften ww unterschätzen den Wärme-Stau von

HLW Behältern in der Geologie !!- Gesteine sind schlechte Wärme-Leiter.

Mitarbeiter eines Bergwerkes erwarten zu Recht 16 °C Temperatur !

Oberirdisch sind grosse HLW Behälter die beste Wahl - weil effizient.

Unterirdisch sind nur 1 kg HLW Behälter nachweisbar unterkritisch und die brauchen dicke Wandungen, um nicht aufgequetscht zu werden.

Alle Mitarbeiter staatl. Entsorgungs-Gesellschaften haben nur 1 Ziel. Die Versorgung Ihrer Ur-Ur-Enkel sicherzustellen - Von Entsorgungs-Gesellschaften in staatlicher Hand können Sie NICHTS erwarten !!! Deren gesamtes Nicht technisches Personal ist überzählig / sinnlos.

Endlager ist eine Material-Schlacht - auf Basis von "Annahmen und Berechnungen" - Der Preis für nukleare Langzeit-Sicherheit ist hoch. Nasse Endlager !!! sind sehr sehr viel TEURER als trockene Endlager. Alle untiefen Endlager sind IMMER so nass wie alle alten Bergwerke.

Die nuklearen Aufsichts-Behörden ? verdienen nicht einmal diesen Namen - weil die selber keine Endlager planen wissen die NICHTS darüber - "Endlager sind immer Bauwerke mit einer Architektur."

Die Endlager-Planer sind Teil der Nuklear Industrie, und erstellen das notwendige Back-End der notwendigen Kernenergie. Es gibt nicht nur Endlager sondern auch - Geologische Storage Facilities.

Alle Länder ausser Kanada (Candu) sollen bitte Wiederaufarbeitung machen - Es ist besser das Spent Fuel zu verkaufen als zu beerdigen. Ing. Goebel und Team beraten alle Länder zu GDF GSF Bauwerken.

Die Umwelt-Minister werden ständig ausgetauscht - müssen sich um das ganze Klima-Geschrei kümmern, und wissen in aller Regel so gar NICHTS zu Thema Endlagerung. SPD Staatssekretäre sind PROBLEME.

Ein gelernter Krankenpfleger tut ? in Deutschland Atom-Aufsicht !?

Innerhalb der EU ist die nukleare Endlagerung im Euratom Gesetz 2011/ 70 geregelt - Das EU Gesetz fragt nach Methoden, und nicht nach Standorten - Die USA sind ein dummes 3 te Welt, Land in dem schlechteste Behälter auf Mitarbeiter Parkplätzen im Regen stehen.

Ein Einziges schlecht geplantes und gebautes Endlager genügt, um das Ende aller Organismen auf der Erde zu sein - Exstinction Level Event Danger. **1 schlechtes Endlager ist das Ende der Menschheit.**

Plansatz Bauantrag CIGEO 2.1 - 30 m -36,[...]
PDF-Dokument [17.6 MB]

ART-TEL_2.1_HLW_Endlager_Plansatz_Bauant[...]
PDF-Dokument [5.0 MB]

Forsmark 2.0_HLW_Endlager_System-Skizze.[...]
PDF-Dokument [42.0 MB]

All waste management companies underestimate the heat buildup in / around

HLW containers within geological formations!!—Rock is a poor conductor of heat.

Mine workers rightly expect a temperature of 16°C !

Above ground, large HLW containers are the best choice—because they are efficient.

Underground, only 1 kg HLW containers are demonstrably subcritical, and

they require thick walls to avoid being crushed.

All employees of state-run waste management companies have only one goal:

Securing financial future of their great-great-grandchildren. You can expect

NOTHING from state-owned waste management companies !!!

Their entire non-technical staff is superfluous/useless.

A final repository is a massive undertaking involving vast quantities of materials

based on "assumptions and calculations"—and the price of long-term nuclear safety is high.

Wet repositories!!! are far, far more EXPENSIVE than dry repositories.

All shallow repositories are ALWAYS as wet as any old mine.

Nuclear regulatory authorities? They do not even deserve that name

because they do not plan repositories themselves, they know NOTHING

about them—"Repositories are always BUILDINGS with a specific architecture."

Repository planners are part of the nuclear industry and plan

the necessary back-end for essential nuclear energy. There are

not only final repositories but also geological storage facilities.

All countries except Canada (Candu) should please engage in reprocessing

it is better to sell spent fuel than to bury it.

Engineer Goebel and his team advise countries on GDF and GSF buildings.

Environment ministers are constantly being swapped out—they have to deal

with all the climate hysteria, yet as a rule, they know absolutely NOTHING

about the subject of final disposal. SPD state secretaries are the PROBLEM.

A trained male nurse handling nuclear oversight in Germany !?

Within the EU, nuclear waste disposal is regulated by Euratom Directive

2011/70—the EU law focuses on methods, but not, not with a single word

on specific sites — the USA is a greedy, stupid Third World country where

substandard containers sit out in the rain in employee parking lots.

A single poorly planned and constructed geological disposal site is enough

to spell the end for all organisms on Earth — an extinction-level

event. **"One bad disposal site means the end of humanity."**

01.10.2026 - HLW GDF Planning for Germany - lets sell all the spend fuel to France !

Country	Method	Geology	Temp.	Drill-Tech	Capacity
Germany DE Brandenburg 1.842 € / kg HLW	ART-TEL 2.1 ELB 03 DE PTH 04 DE	Rocksalt flat, thick Brandenb.	48,4 °C max. after 58,6 yrs	TBM D 16,4 AVN 0,7 m ? - 700 m, undeep	19.000 Mg DE spent fuel and vitrified waste
Germany DE Beverstedt 789 € / kg HLW	DBHD 2.0.1 ELB 03 DE PTH 04 DE	Rocksalt Diapir Beverstedt	126,5 °C max. after 215 yrs	SBR D 12 - 22 m Epiroc D = 0,152 - 1.400 m, deep - 2.518 m, deep - 8.400 m, deep	19.000 Mg DE spent fuel and vitrified waste
Germany DE Brandenburg 2.274 € / kg HLW	DBD 5227 ELB 03 DE PTH 04 DE	Rocksalt flat, thick Brandenb.	71,5 °C max. after 5,6 yrs	Rotary Drill Rig 20", 16", 12", **8"** - 1.000 m, deep - 2.250 m, deep	19.000 Mg DE spent fuel and vitrified waste 3.600 drills !
Germany DE (bei Ulm Psst) 3.500 € / kg HLW	BGR BGE Pollux !? 5.000 W	Clayrock 70 Sediments 30 % das schmiert !!	150 °C ?? max. after xy yrs	Drill & Blast -400 m, undeep Dünn-Schichten Geologie, Tote	19.000 Mg DE spent fuel and vitrified waste !! WET GDF !!
France FR Bure 2.611 € / kg HLW	CIGEO 2.1 ELB 08 FR PTH 09 FR Expensive	Clayrock 50 Sediments 45 % - Bure Muschelkalk	36,3 °C max. after 37 yrs	2x TBM D 14 m 1x SBR D 14 m 12x AVN 0,7 m - 500 m, **undeep**	18.000 Mg FR vitrified waste W.-Grade Pu ? !! WET GDF !!

Volker Goebel / Dipl.-Ing. / Tel +49 157 546 624 34 DE / info@ing-goebel.com / archi.goebel@gmail.com - Konnte am 08.03.2025 und 14.04.2025 nach 14 Jahren !!! eine vollständige Endlager-Planung nachweisen.