

Geothermal heat produc	ction, uitradeep (> 400	, mister /									
Date of factsheet	20-7-2021										
Author Sector	Geothermal heat production, ultrad Industry: Generic	deep (> 4000 m	eter)								
Sector	industry. Generic										
ETS / Non-ETS	Non-ETS										
Type of Technology	Renewable										
Description	This technology represents an applicharacteristic is the depth from what ypical project exists of two wells deep below. The bottom of the well meters on average) below ground I pump), cooled in a heat exchanger degassing may be needed as natural 140°C and makes this technology sideep geothermal heat projects (few project. The use of advanced mater and/or gas separator, an above ground if the return temperature after the application where the first (industriamount of full load hours (e.g. hort UDG project. Legend: 1) above ground installation	ich one expects, a production a lls is situated in evel. Salty hot wand injected ball gas or oil need wited for low term hundreds m3/rials to prevent und heat exchalfirst user (industiculture). By this	to extract hot wand injection well a water holding water (brine) under the same lands to be separated in the same lands to be separated in the same lands are alonger and an injection to the same lands are and an injection to the same lands are and an injection to the same lands are alonger and an injection to the same lands are alonger and an injection to the same lands are along the same land	vater: deeperall, also called delayer of limested der pressure is ayer through the defence stimulation akage may be action pump. A all still be related emperature contents of the defence	than 4000 metoublet. The we one, called Dir pumped up the ne injection we ne. The estime dustry. Product of the well to it required. The it heat network tively high, the with a low te	ter, hence the realls are or fully whatien, and lies arough the production ated production rates can wincrease water installation furt or a heat distribute geothermal head amperature user lowered (to 35)	name Ultra Dee vertically drilled deeper than 40 luction well by there is no loss in temperature vary but are est volumes is sup her consists of bution network eat could be fui r (50-70°C) with	p Geothermal ed or vertical with 2000 meters (600 an ESP (electrical of water, but so waries between imated to be loosed to be para production put is not part of the ther used in a contact of the solution or such as similar or such as simila	energy (UDG). The a curvature O0 to 8000 The submersible The some The submersible The submersi		0m 10 to 10
TRL level 2020	TRL 3 This technology is not yet applied in		do The	atoole is the		عاد الديم مرال	+h c		4000 :	00 000 1	4f. II - 1
TECHNICAL DIMENSIONS	experience with oil and gas wells in increase the geological knwoledge, first UDG pilot project can be reasli the Green Deal will consist of incress Staatstoezicht op de Mijnen (SoDM installations and operators. TNO ge	a Green Deal o sed in the Nete asing the knowl I) controls the s	n Ultradeep Geo rlands. Currently edge of the undo afe working of th	othermal energy, a research preerground below	y (UDG) has bogramme to go w 4000 meter.	een set up in 20 gain more inforr on of operators	017. The original mation from the (DAGO) has de	el expectation ce underground	of teh Green Deal is carried out (SC ober of guidelines	I was that by 2 CAN). Much of to profession	2021/2022 a f the work in nalise
TECHNICAE DIMENSIONS	Functional Unit					V	/alue and Rang	e			
Capacity Potential	MWth						17.00				
		1 .		17.00			-			17.00	
	NL	MWth		Current			2030 1,984.13			2050 7,936.51	
			Min	-	Max	1,984.13	-	1,984.13	7,936.51	-	7,936.51
Market share	NL	%		-	-	,	5.00	,	,	22.00	,
iviarket share			Min	-	Max	5.00	-	5.00	22.00	-	22.00
Capacity utlization factor									1.00		
Full-load running hours per year Unit of Activity	MWth							/,(000.00	1	00
Technical lifetime (years)	IVIVVLII							<u> </u>	15.00		
Progress ratio	n/a								13.00		
Hourly profile	Vaa								13.00		
Evolunation	Yes The expected size of a typical LIDG	project is assum	and to be 17 MM	/th (SDE+ 2021) An annual f	full load produc	tion time of 70	00 hours is assu		to he represe	ntative for
	The expected size of a typical UDG low temperature steam demand in Lifetime is expected to be 15 years, The sector estimates that geothern	industry (baselo, but so far no g	oad). eothermal proje	ct has been ru	nning more th	an a few years	in the Netherla	nds, so actual l	umed, supposed ifetime is unknov	vn.	
COSTS	The expected size of a typical UDG low temperature steam demand in Lifetime is expected to be 15 years,	industry (baselo, but so far no g	oad). eothermal proje	ct has been ru	nning more th	an a few years	in the Netherla	nds, so actual l	umed, supposed ifetime is unknov	vn.	
COSTS	The expected size of a typical UDG low temperature steam demand in Lifetime is expected to be 15 years, The sector estimates that geothern	industry (baselon, but so far no genal heat could s	oad). eothermal proje	ct has been ru	nning more th	an a few years	in the Netherla	nds, so actual l	umed, supposed ifetime is unknov	vn.	
COSTS Year of Euro	The expected size of a typical UDG low temperature steam demand in Lifetime is expected to be 15 years, The sector estimates that geothern 2015	industry (baselon, but so far no genal heat could s	oad). eothermal proje upply 50 PJ in 20	ct has been ru 030 and 200 PJ Current 2.66	nning more th in 2050 (13,9	an a few years tot 55,6 million	in the Netherla MWh) (SPG 20 2030	nds, so actual li	umed, supposed ifetime is unknov about 3 PJ (0,8 m	vn. illion MWh) is 2050	s delivered.
COSTS Year of Euro Investment costs	The expected size of a typical UDG low temperature steam demand in Lifetime is expected to be 15 years. The sector estimates that geothern 2015 Euro per Functional Umln. € / MWth	industry (baselon, but so far no genal heat could s	oad). eothermal proje	ct has been ru 030 and 200 PJ Current	nning more th	an a few years	in the Netherla MWh) (SPG 20	nds, so actual l	umed, supposed ifetime is unknov	vn. illion MWh) is	
COSTS Year of Euro Investment costs	The expected size of a typical UDG low temperature steam demand in Lifetime is expected to be 15 years. The sector estimates that geothern 2015 Euro per Functional U	industry (baselon, but so far no genal heat could s	oad). eothermal proje upply 50 PJ in 20	ct has been ru 030 and 200 PJ Current 2.66 –	nning more th in 2050 (13,9	an a few years tot 55,6 million	in the Netherla MWh) (SPG 20 2030	nds, so actual li	umed, supposed ifetime is unknov about 3 PJ (0,8 m	vn. illion MWh) is 2050 - -	s delivered.
COSTS Year of Euro Investment costs Other costs per year Fixed operational costs per year	The expected size of a typical UDG low temperature steam demand in Lifetime is expected to be 15 years. The sector estimates that geothern 2015 Euro per Functional Umln. € / MWth	industry (baselon, but so far no genal heat could s	oad). eothermal proje upply 50 PJ in 20 2.66 Min	Current 2.66 0.10	2.66	an a few years tot 55,6 million Min Min	2030	nds, so actual li 18), currently a	ifetime is unknovabout 3 PJ (0,8 m	vn. illion MWh) is 2050	Max Max
COSTS Year of Euro Investment costs Other costs per year Fixed operational costs per year (excl. fuel costs)	The expected size of a typical UDG low temperature steam demand in Lifetime is expected to be 15 years. The sector estimates that geothern 2015 Euro per Functional Umln. € / MWth mln. € / MWth	industry (baselon, but so far no genal heat could s	oad). eothermal proje upply 50 PJ in 20	Current 2.66	nning more th in 2050 (13,9 -	an a few years tot 55,6 million Min	in the Netherla MWh) (SPG 20 2030	nds, so actual li	imed, supposed ifetime is unknovabout 3 PJ (0,8 m	vn. illion MWh) is 2050	s delivered. Max
COSTS Year of Euro Investment costs Other costs per year Fixed operational costs per year (excl. fuel costs)	The expected size of a typical UDG low temperature steam demand in Lifetime is expected to be 15 years. The sector estimates that geothern 2015 Euro per Functional Umln. € / MWth mln. € / MWth	industry (baselon, but so far no genal heat could s	oad). eothermal proje upply 50 PJ in 20 2.66 Min	Current 2.66 0.10	2.66	an a few years tot 55,6 million Min Min	2030	nds, so actual li 18), currently a	ifetime is unknovabout 3 PJ (0,8 m	vn. illion MWh) is 2050	Max Max
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Material Unit Current Min	2030	2050 -		
Min - Max Min explanation por-fuel/energy-related emissions or emissions reductions (e.g. CCS) Substance Unit Current - Min - Max Min - Max Min	Max - Max -	Min - Mo - Min - Mo 2050 - Min - Mo - M		
explanation on-fuel/energy-related emissions or emissions reductions (e.g. CCS) Substance Unit Current	2030	- Min - Mo - Mo - Min - Mo		
explanation on-fuel/energy-related emissions or emissions reductions (e.g. CCS) Substance Unit Current	2030	Min - Mo		
explanation on-fuel/energy-related emissions or emissions reductions (e.g. CCS) Substance Unit Current	2030	2050 -		
Substance Unit Current	- Max	- Min - Mo - Mo - Min - Mo - Mo - Min - Mo		
Substance Unit Current	- Max	- Min - Mo - Mo - Min - Mo - Mo - Min - Mo		
Min - Max Min Some CO2 emissions could occur while degassing or decompressing the hot water from the production was	- Max	- Min - Mo - Mo - Min - Mo - Mo - Min - Mo		
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Some CO2 emissions could occur while degassing or decompressing the hot water from the production we		- Min - Mo		
Min - Max Min - Min - Max Min Min - Max Min Some CO2 emissions could occur while degassing or decompressing the hot water from the production was	Alin – Max - Alin – Max	Min – Mo		
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Some CO2 emissions could occur while degassing or decompressing the hot water from the production we	1in – Max	Min – Mo		
Some CO2 emissions could occur while degassing or decompressing the hot water from the production water		Min – Mo		
	n well. However, no information is a			
Parameter Unit Current	2030	2050		
-	<u> </u>	-		
Min – Max Min	1in – Max	Min – Mo		
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Min – Max Min	1in – Max	Min – Mo		
-	-	-		
Min – Max Min	1in – Max	Min – Mo		
	-	-		
Min – Max Min	1in – Max	Min – Mo		
ND SOURCES				
021: EINDADVIES BASISBEDRAGEN SDE+ 2021 , PBL 2022				
018: Masterplan Aardwarmte in Nederland, SPG, DAGO, WN, EBN, 2018 //www.geothermie.nl/index.php/nl/				