

Interreg
Alpine Space



Greta
EUROPEAN REGIONAL DEVELOPMENT FUND

Annex 5: Panel of regulation criteria



Panel of regulation criteria

	Symbol	Criteria	Unit
1	D [m]	Depth of drilling / borehole / probe ...	[m]
2	$Q_{ab} - Q_{inj}$	Difference between abstracted and reinjected water	[m ³ /h, ..., l/s]
3	L [m]	Distance to other objects	[m]
4	T_{max}	Maximum temperature	[°C]
5	T_{min}	Minimum temperature	[°C]
6	ΔT	Temperature difference	[°C or °K]
7		Biodegradable	
8		Low environmental impact	
9	GWP	Global warming potential	Low
10	ODP	Ozone depletion potential	0
11	p_{test}	Required testing pressure	[b] (air or water)
12	Δp	Tolerated pressure drop	[Δb / Δt]
13		Backfilling material	Cement / Mixture
14		Density of backfilling material	[g/cm ³]
15	m	Mass of controlled substances in refrigerant or heat carrier fluid	[kg]
16		Duration of abandonment of installation	[month, year]
17	NSGE	Type of near surface geothermal energy plant	H - closed loop - horizontal, V – closed loop - vertical W – open loop - water to water
18	p_a	Piezometric level above surface in artesian aquifer	[m]
19	b	Thickness of unsaturated zone	[m]
20		Perched groundwater level	yes / no
21		Number of pressurized aquifers at different pressure levels / Pressure levels	No
22	WPA	Water protection area	I, II, III, ...
23		Presence of hydrocarbons in geological layer	expected / not expected
24	SPF	Seasonal performance factor	
25	η_s	Seasonal space heating energy efficiency	[%]
26		Value of environmental restoration works	[€]
27		Special geological, hydrogeological and waterecological situation	
28		Number of bore-holes in the geothermal field	No
29		Altitude of location above sea level	[m]
30	P	Installed power of NSGE	[kW]
31	V	Volume of abstracted water	[m ³]
32		Defined region showing complex hydrogeological	yes / no
33		Area of interests drinking water supply	yes / no
34	Q	Energy consumption / demand	[kWh, MWh]

	Symbol	Criteria	Unit
35	T_w	Temperature of abstracted water	[°C]