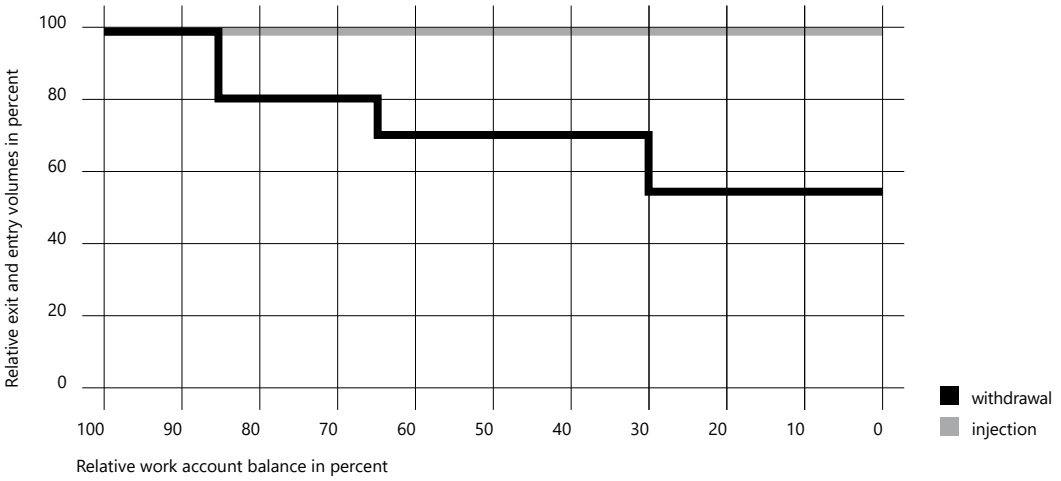
Thüringer Energie Speichergesellschaft

Appendix 3

Exit and Entry Characteristic Curves TEP Storage Hub

The maximum extractable exit and entry capacity that is available to the storage user depends on the total working gas level and the primary pressure made available by the upstream grid operator. The characteristic curve is based on grid pressures of 40 $bar_ü$ in terms of injection and 15 $bar_ü$ in terms of withdrawal. Using the following characteristic curves as well as the calculation formulae, the maximum extractable exit and entry capacity can be determined.

Characteristic Curves



Calculation		
AGV_{total}	**$ASL_{SK\ max}$**	**$ESL_{SK\ max}$**
100 percent – 85 percent	$ASL_{SK\ max} = ASL_{SK\ contract}$	$ESL_{SK\ max} = ESL_{SK\ contract}$
< 85 percent – 65 percent	$ASL_{SK\ max} = ASL_{SK\ contract} \cdot 0{,}80$	$ESL_{SK\ max} = ESL_{SK\ contract}$
< 65 percent – 30 percent	$ASL_{SK\ max} = ASL_{SK\ contract} \cdot 0{,}70$	$ESL_{SK\ max} = ESL_{SK\ contract}$
< 30 percent – 0 percent	$ASL_{SK\ max} = ASL_{SK\ contract} \cdot 0{,}54$	$ESL_{SK\ max} = ESL_{SK\ contract}$

Definition of terms

AGV_{total} Total working gas level in percent, daily online disclosure

$ASL_{SK\ max}$ Maximum possible entry capacity of the storage user in dependence of the filling level in kWh

$ASL_{SK\ contract}$ Maximum possible entry capacity in accordance with contract in kWh

$ESL_{SK\ max}$ Maximum possible exit capacity of the storage user in dependence of the filling level in kWh

$ESL_{SK\ contract}$ Maximum possible exit capacity in accordance with contract in kWh

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