Appendix 3
Exit and Entry Characteristic Curves UGS Allmenhausen

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 to the UGS Allmenhausen by the upstream grid operator. The characteristic curve is based on a primary pressure of 40 bar ü. in terms of exit and 15 bar ü. in terms of entry. Using the following characteristic curves as well as the calculation formulae, the maximum extractable exit and entry capacity can be determined.

**Characteristic Curves**

![Characteristic Curves Graph](image-url)

**Definition of terms**

- **AGV total**
  - Total working gas level of the UGS Allmenhausen in percent, daily online disclosure

- **ASL SN max**
  - Maximum possible entry capacity of the storage user in dependence of the filling level in kWh

- **ESL SN max**
  - Maximum possible exit capacity of the storage user in dependence of the filling level in kWh

- **ASL SN contract**
  - Maximum possible entry capacity in accordance with contract in kWh

- **ESL SN contract**
  - Maximum possible exit capacity in accordance with contract in kWh

**Calculation**

<table>
<thead>
<tr>
<th>AGV total</th>
<th>ASL SN max</th>
<th>ESL SN max</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 percent – 90 percent</td>
<td>ASL SN max = ASL SN contract</td>
<td>ESL SN max = ESL SN contract</td>
</tr>
<tr>
<td>&lt; 90 percent – 50 percent</td>
<td>ASL SN max = ASL SN contract · (0,007683 · AGV total + 0,31011)</td>
<td>ESL SN max = ESL SN contract</td>
</tr>
<tr>
<td>&lt; 50 percent – 25 percent</td>
<td>ASL SN max = ASL SN contract · (0,0114 · AGV total + 0,12847)</td>
<td>ESL SN max = ESL SN contract</td>
</tr>
<tr>
<td>&lt; 25 percent – 0 percent</td>
<td>ASL SN max = ASL SN contract · (0,008464 · AGV total + 0,19581)</td>
<td>ESL SN max = ESL SN contract</td>
</tr>
</tbody>
</table>

As of April 1st, 2014