COAL MINE VELENJE

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FROM BLACK TO GREEN
Together with the Šoštanj Thermal Power Plant, we obtain one third (in dry conditions even more) of the electricity we consume in Slovenia, which is why the Velenje Coal Mine is one of the most important pillars of Slovenian energy.

Extracted more than 260 mio t
Today 2,3 mio t/a
147 years of history (from 1875)

Cca 2000 employees
LIGNITE EXCAVATION INFLUENCE ON THE SURFACE

Extraction results in the subsidence of the roof layers and forming lakes.

Coal seam lies in depths from 100 m up to 500 m bellow surface.
Thickness up to 160 m.

Coal production using Velenje mining method.
RENEWABLE ENERGY SOURCES - PV:
• southern part of Gorice, Šoštanj (photovoltaics);
• floating photovoltaics (currently not legally possible – changes in adoption, practice from abroad);

• cca 65 MWp, 67 ha
• After the closure of the coal mine, the shafts could be used for flow HPPs

<table>
<thead>
<tr>
<th>Shaft</th>
<th>Diameter (m)</th>
<th>Depth from surface (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOP II</td>
<td>6.15</td>
<td>391</td>
</tr>
<tr>
<td>NOP</td>
<td>7.2</td>
<td>405</td>
</tr>
<tr>
<td>Pesje</td>
<td>4</td>
<td>142</td>
</tr>
<tr>
<td>Old shaft museum</td>
<td>3.9</td>
<td>160</td>
</tr>
<tr>
<td>Ventilation shaft Šoštanj</td>
<td>5.9</td>
<td>237.7</td>
</tr>
<tr>
<td>Ventilation shaft Šoštanj 2</td>
<td>5</td>
<td>331.5</td>
</tr>
</tbody>
</table>

• Mine waste water cca 1,1 mio m³/a, cca 20-24°C
TRANSFORMATION OF CMV GROUP
1990–2022

National strategy for coal exiting till 2033 – challenges
THANK YOU FOR YOUR ATTENTION

THE COAL MINE OF TOMORROW

FROM BLACK

TO GREEN