From Grains to Riches: How Hydropower Production on the Möll River in the Austrian Alps Went from Local to Supra-Regional

Gertrud Haidvogl

Summary

After the collapse of the Austrian-Hungarian monarchy Austria was disconnected from its coal resources. Electricity production was focused on hydropower. The Möll is an example for the turn from local energy production to supranational electricity provision.

Koelnbrein dam and Galgenbichl reservoir as seen from the Arlhoehe

2005 Michael Glanznig
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The Möll rises in the Hohe Tauern and flows eighty kilometers through the Austrian Alps. Today, six hydropower plants divert the waters of the river and its tributaries, providing 18 percent of Austria’s total hydropower capacity.

Around 1830, the twenty-five villages along the Möll produced their energy with 750 mechanical hydropower facilities, powering small house mills, twenty forges, and several sawmills and mechanical threshing machines. On average, every second building had its own grain mill, none of them directly in the river due to its swift current. Locals coped with floods and landslides by avoiding endangered sites for the sake of energy and useable land, a scarce commodity in Alpine environments. The invention of electricity and its transmission over large stretches allowed inhabitants to search for optimal production places, as these no longer needed to be closely connected to the places of consumption. Under the Austro-Hungarian monarchy, the use of hydroelectricity was delayed due
to rich coal sources. Nevertheless, the potential was intensively discussed and engineers systematically measured the flow and slopes of rivers. The collapse of the monarchy cut the country off from coal sources in Bohemia, Moravia, and Silesia.

Hydropower production was the perfect alternative, and gigantic projects were developed. The Hohe Tauern were immediately the object of energy dreams. Reports referred, in particular, to the enormous drop heights and the potential for tapping the precipitation from both sides of the mountain.

In 1928, the first plans for the Kaprun power plant were commissioned. Although completed only after World War II, it started the nationalisation of electricity production in the Möll valley. The large reservoirs and dams, as
well as the huge tubes for water diversion, changed the landscape drastically. Water abstraction and dykes modified the ecological conditions and threatened animal and plant species specific to the locality. The side-effects of clean, renewable “white coal” are particularly profound in steep alpine valleys.

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Further readings:


Related links:

- Nationalpark Hohe Tauern
  http://www.hohetauern.at/en/
- Information site about Möll valley
  http://www.peak.at/moelltal/index.phtml

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- http://de.wikipedia.org/w/index.php?title=Datei:K%C3%B6lnbreinsperre_from_Arlh%C3%B6he.jpg&filetimestamp=20061014194529
About the author:

Gertrud Haidvogl

Gertrud Haidvogl studied history at the University of Vienna. She works at the University of Natural Resources and Life Sciences, Vienna, and is specialized in the history of riverine landscapes and historical changes of fish populations. Haidvogl is a member of the Center for Environmental History Vienna.