Karabash: The City of Pollution

Anna Semenenko

Karabash is one of the largest copper-smelting centers in Russia. The city of Karabash was founded as a mining settlement in 1822; it was granted city status in 1928. Open-pit copper extraction has been conducted there since 1837. There are also two abrasive manufacturing plants which process the copper slag for blast cleaning.

After a century and a half of copper extraction, plant life in the city has practically died out and the ecosystem of the surrounding area has been destroyed. The city and its outskirts have been subject to acid rain since the 1970s; the copper-smelting process produces sulfuric gases, and no purification of emissions was undertaken. A critical worsening of the ecological situation forced the Karabashmed copper plant to stop work from 1989 to 1998. In 1996, Karabash and its surrounding area were declared an ecological disaster zone by order of the Ministry of Natural Resources and Environment.

However, the Karabashmed plant—which provided employment to the majority of the local population—resumed operation in 1998 with no modernization of the treatment facilities. In 2004, a temperature regulation malfunction in one of the furnaces resulted in a colossal sulfuric gas emission. This gas was brought down out of the atmosphere with the next rainfall, producing an acid strong enough to scorch all
Despite continuing pollution, Russia’s Ministry of Natural Resources and Environment decided to exclude Karabash from the list of most-polluted cities in 2009. Moreover, the Urals division of Rostekhnadzor (the Federal Service for Ecological, Technological and Nuclear Supervision) raised the permitted emissions limits for the Karabashmed plants. No concrete actions were taken to stop the contamination of the region until July 2010, when the Prosecutor General’s Office of the Russian Federation in the Ural Federal District legally obliged Karabashmed to modernize its production and reduce harmful emissions; as a result, the ecological situation is slowly improving.

Further readings:


Photo documentation of pollution at Karabash
http://rbth.ru/multimedia/pictures/2013/06/07/karabash_one_of_the_most_polluted_places_on_earth_26747.html

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