

The use of mercury is being reduced throughout the world due to its effects on human health and the environment. Certain forms of mercury and its compounds can damage neurological development and affect internal organs. Mercury can spread far and wide through air and water. It is ingested by fish and other marine life, where it becomes concentrated as it moves up the food chain.

There is now only one known mercury mine in the world which continues to sell its output abroad: Khaidarkan, in the remote mountains of southern Kyrgyzstan.

What will happen to this “kombinat” is still far from clear. For the international community, continuing mercury mining raises significant concerns. Limiting mercury supply is one of the key elements to any comprehensive global approach to address mercury.



# Khaidarkan mercury

Addressing primary mercury mining in Kyrgyzstan



Produced by Zoi Environment Network  
[www.zoinet.org](http://www.zoinet.org)

[www.unep.org](http://www.unep.org)

United Nations Environment Programme  
P.O. Box 30552 - 00100 Nairobi, Kenya  
Tel.: +254 20 762 1234  
Fax: +254 20 762 3927  
e-mail: [unep@unep.org](mailto:unep@unep.org)  
[www.unep.org](http://www.unep.org)





**unitar**  
United Nations Institute for Training and Research

This is a joint publication by the United Nations Environment Programme (UNEP) and the United Nations Institute of Training and Research (UNITAR) produced by Zoï Environment Network.

The project to address primary Mercury Mining in Kyrgyzstan has been generously supported by the Governments of Switzerland, the United States of America and Norway.

Printed on 100 % recycled paper at Imprimerie Nouvelle Gonnet, F-01303 Belley, France

Copyright © 2009  
ISBN: 978-82-7701-071-7

Cover artwork: Mural in the palace of culture, Khaidarkan

This publication may be reproduced in whole or in part in any form for educational or non-profit purposes without special permission from the copyright holders, provided acknowledgement of the source is made. UNEP, UNITAR and Zoï Environment Network would appreciate receiving a copy of any material that uses this publication as a source. No use of this publication may be made for resale or for any commercial purpose whatsoever without prior permission in written form from the copyright holders. The use of information from this publication concerning proprietary products for advertising is not permitted.

The views expressed in this document are those of the authors and do not necessarily reflect views of the partner organizations or their member countries.

The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of the United Nations Environment Programme, the United Nations Institute for Training and Research nor Zoï Environment Network concerning the legal status of any country, territory, city or area or of its authorities, or concerning delimitation of its frontiers or boundaries. Mention of a commercial company or product does not imply endorsement by the cooperating partners. We regret any errors or omissions that may unwittingly have been made. Moreover, the views expressed do not necessarily represent the decision or the stated policy of the United Nations Environment Programme, the United Nations Institute for Training and Research or Zoï Environment Network, nor does citing of trade names or commercial processes constitute endorsement.

**A climate Neutral publication**

The production and transport of each copy of this booklet has released about 0.4 kilogram's of CO<sub>2</sub>-equivalent into the atmosphere. This is about the amount of CO<sub>2</sub> released when driving an off-roader (burning 14 litres per 100 km) for 1 kilometre. Factors taken into consideration for this calculation are paper, printing and energy consumption of office and computer use and shipping of the final product. The use of sustainably produced paper and plant-based ink helped to lower the climate impact.

In order to compensate for the total amount of 3.5 tonnes of CO<sub>2</sub> eq generated by the project, we purchased the according amount of carbon offsets with the help of the Swiss foundation myclimate. The money (84 EUR) will be invested in a Gold Standard project.

UNEP promotes environmentally sound practices globally and in its own activities. This publication is printed on fully recycled paper, FSC certified, post-consumer waste and chlorine-free. Inks are vegetable-based and coatings are water-based. Our distribution policy aims to reduce UNEP's carbon footprint.



# Khaidarkan mercury

**Addressing primary  
mercury mining  
in Kyrgyzstan**

This report was prepared by the Kyrgyzstan Mercury team of UNEP, UNITAR and Zoi Environment Network

**Concept, maps and graphics:**

Viktor Novikov, Otto Simonett, Christina Stuhlberger

**Text:**

Alex Kirby

**Photography:**

Christina Stuhlberger, Viktor Novikov

**Design and layout:**

Zoi Environment Network, GRID-Arendal

**International contributors:**

Otto Simonett, Christina Stuhlberger, Viktor Novikov, Per Bakken, Brenda Koekkoek, Craig Boljkovac, Tatiana Terekhova, Janna Kalmyrzaeva, Kenneth Davis, Marianne Bailey, Gabi Eigenmann, Pablo Higuera, Tatiana Dizdarevic, Bojan Rezun, Bruno Frattini, Ari Makela, David Lennett, Susan Keane.

**National contributors:**

Iskander Ismailov, Kuban Noruzbaev, Kanybek Isabaev, Ilyasbek Sarybaev, Valentin Bogdezky, Karybek Ibraev, Khodja Murzaev, Suleiman Mendikulov, Murat Suynbaev, Abdulhamid Kayumov, Nurdjan Dzhumabaev, Lidia Reznikova

# Foreword

UNEP and UNITAR are pleased to present to you this overview document outlining the situation regarding the world's last known exporting mercury mine – at Khaidarkan in southern Kyrgyzstan. For the past two years, significant efforts have been taking place at the international level to assist the Government of Kyrgyzstan and national and local stakeholders to consider options regarding the future of the mine and its associated infrastructure.

What is known as “primary” mercury mining is almost a thing of the past. Significant international efforts are taking place under the auspices of UNEP, to ensure that a global legally binding instrument will be agreed by 2013. The issue of mercury supply is to be addressed during these negotiations. The continued introduction of “new” mercury from the Khaidarkan mine – which adds to the already significant international supply of mercury currently being traded – further highlights the need for international action to support alternatives to mercury mining in Kyrgyzstan.

With initial support of the Government of Switzerland and the United States of America, UNITAR and UNEP have

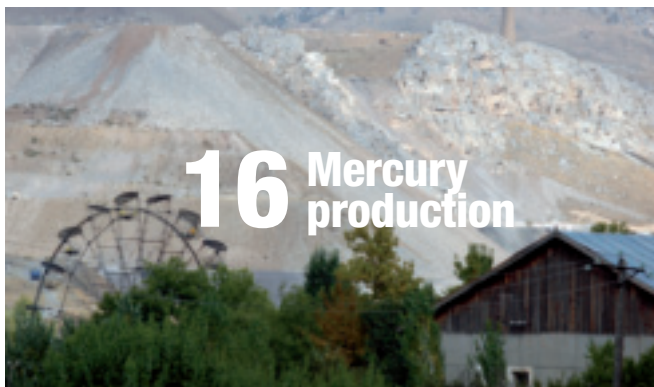
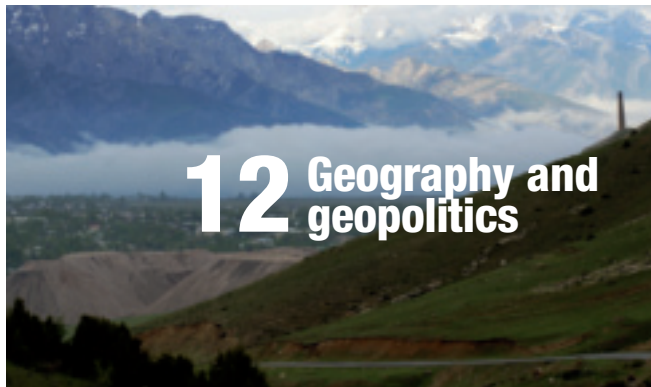
assisted the Kyrgyz Government as they grapple with the complex issues related to the future of the mine. As you will see in this publication, the region of the country where the mine is situated faces long-term economic and environmental challenges that make the possible closure of the mine a contentious issue.

The international community has shown encouraging signs of support for the future of Khaidarkan – asking for options that can be considered for support should a decision to close the mine be firmly made by Kyrgyzstan. Should this decision be made, we all can therefore be more certain that a “win-win” – for the global environment and the local community of Khaidarkan – can be realized. More recent funding support from the Government of Norway has also been warmly welcomed.

We hope that this publication can provide a general overview of the issues at-hand. More information is available from UNEP, UNITAR and our supporting organization, the Zoï Environment Network.



# Contents





An aerial photograph of a town built in a valley, with mountains in the background. The town consists of numerous small, simple buildings with flat roofs. The mountains in the background are rugged and have some snow or light-colored patches. The overall scene is captured in a monochromatic, sepia-toned style.

# Make mercury history

# Make mercury history

Mercury, to the Romans, was the messenger of the gods. Today's mercury is more prosaic: a planet, and also a metal, known sometimes as quicksilver. It was widely used in thermometers, scientific instruments (due to its unique chemical properties), as well as many other products and processes. The use of mercury, however, is being reduced throughout the world due to its toxicity and the availability of substitutes. Certain forms of mercury and its compounds can damage neurological development and affect internal organs. Effects are most pronounced in pregnant women, infants and children. Mercury can spread far and wide through air and water: it is found as far from industrial centres as the Arctic. It is ingested by fish and other marine life, where it becomes concentrated as it moves up the food chain.

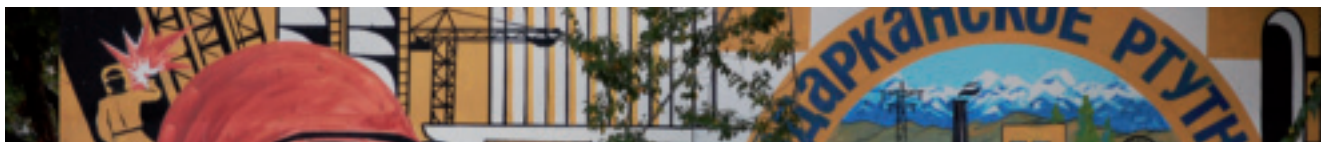
The world's governments agreed at the United Nations Environment Programme Governing Council in 2009 to prepare a legally binding instrument on mercury to protect human health and the environment from mercury. The Intergovernmental Negotiating Committee is to develop

a comprehensive and suitable approach to mercury, including provisions to reduce the supply of mercury taking into account the circumstances of countries. Negotiations are to conclude in 2013.

There is now only one known mercury mine in the world which continues to sell its output abroad: Khaidarkan, in the remote mountains of southern Kyrgyzstan.

What will happen to the “kombinat” (the mine, smelter and all the associated installations are known together as “the kombinat”<sup>\*\*</sup>) is still far from clear. For the international community, continuing mercury mining – business as usual, even if brought up to international standards – raises significant concerns. It is widely recognized in the international community that limiting mercury supply

<sup>\*\*</sup>Combine (*Комбинат*, kombinat) was the Soviet bloc term for industrial business groups or conglomerates in the socialist countries. Examples include VEB Kombinat Robotron, an electronics manufacturer, and IFA, a manufacturer of vehicles, both in East Germany, or the Erdenet copper combine in Mongolia. (Source: Wikipedia)



预览已结束，完整报告链接和二维码如下：

[https://www.yunbaogao.cn/report/index/report?reportId=5\\_15767](https://www.yunbaogao.cn/report/index/report?reportId=5_15767)