



Best Practices for Mining and Sustainable Development in the Arctic

Luleå, Sweden – October 13-14, 2016

Overview

Global experience outside of the Arctic region can serve to highlight and frame critical resource development issues faced by Arctic governments and communities. In this context, the Department of State's Bureau of Energy Resources has developed a series of workshops to bring together governments, the private sector, communities, civil society, and academia to highlight key challenges to consider while in pursuit of sustainable resource development in fragile environments, such as in the Arctic.

The purpose of this workshop is to examine the roles that various stakeholders play in mitigating potentially negative environmental and social impacts from mineral resource extraction projects, especially in remote locations. Key issues that will be examined include global market trends, government strategies to pursue commercially and environmentally sustainable mineral extraction projects in the Arctic, meeting infrastructure challenges and managing waste disposal, adopting innovative solutions to reduce energy costs and environmental footprint through the integration of cleaner energy sources, identifying and mitigating the impacts from climate change on Arctic mining projects, project-specific corporate social responsibility programs with national economic planning and social development priorities, revenue stream management, and ensuring that resource ownership and stewardship are based on frameworks that support sustainable development, from local community to national levels.

The target participants for this workshop are government representatives from ministries responsible for policy development and regulatory management of mineral extraction projects within a country. By the end of the program, participants will have a better understanding of the challenges and increased awareness of case studies highlighting best practices for sustainable mineral extraction in the Arctic.

The workshop will be conducted under Chatham House Rules but the main issues discussed will be included in a white paper that will ultimately be submitted to the Arctic Council.

DAY 1

9:00 AM - Introductory Remarks

- Mr. Johan Sterte – Vice Chancellor, Luleå University of Technology
- Mr. Niklas Nordström – Mayor of Luleå
- Ambassador Mary Burce Warlick - Principal Deputy Assistant Secretary of State, Bureau of Energy Resources, U.S. Department of State

9:30 AM - Key Issues Identified at the Previous Three Workshops, Framing Critical Resource Development Issues in the Arctic through Global Experience:

- Mr. Paul Hueper - Director of Energy Programs, Bureau of Energy Resources, U.S. Department of State



9:45 AM – Overview of Current Global Mining Sector Trends in a Low Commodity Price Market

An overview of the current state-of-play of the global mining sector, including general market challenges and the impact of low commodity prices on future exploration and development in the international and Arctic context

- Mr. Phil Hopwood - Global Leader -Mining, Deloitte
- Dr. Pär Weihed – Professor of Ore Geology and Director of the Center of Advanced Mining and Metallurgy (CAMM), Luleå University of Technology

11:00 AM - Coffee Break

11:15 AM - Government Strategies: Responsible Mineral Resource Development and Supporting Economic Growth in a Low Price Environment

Arctic government strategies in support of attracting investment for extractive resource projects and revenue stream management, including the avoidance of base erosion and profit shifting (BEPS) in a low cost environment (Government speakers from Sweden, Finland, and the United States)

- Mr. Steve Cohn - Deputy State Director for Resources, U.S. Department of Interior, Bureau of Land Management (BLM), Alaska Regional Office
- Ms. Riikka Aaltonen – Senior Advisor, Mineral Policy, Ministry of Employment and Economy, Government of Finland
- Representative from the Government of Sweden (*Invited*)

12:45 PM - Lunch

2:00 PM - Impacts of Low Commodity Prices on Mining Sector Project Planning and Economics

Private sector perspective on the impacts of global commodity prices on mining sector exploration and development, project viability, cash flow management, and barriers to investment

- Mr. Nadim Kara – Senior Director of Policy and Programs, Prospectors and Developers Association of Canada (PDAC)
- Mr. Markus Petäjaniemi – Senior Vice President Market and Logistics, LKAB

3:00 PM - Coffee Break



3:15 PM - Global and Arctic Case Studies on Innovative Approaches to Mitigating Impacts from Mining Activities on Local Communities and the Environment

Best practices for obtaining social acceptance and protecting the environment through limiting surface impacts, disposing of waste products, reducing water usage, engaging with the public, and supporting local development (e.g. Alaska, Australia, Chile, Peru, Canada, Namibia, Sweden, etc.)

- Dr. Chris Anderson – Principal, Yirri Global
- Ms. Karin Nunan – Principal Consultant, Environmental Resources Management (ERM)
- Ms. Serena Sweet – Lead Planner, U.S. Department of Interior, BLM, Alaska Regional Office
- Dr. Lena Abrahamsson – Professor of Gender and Technology, Luleå University of Technology

5:15 PM - Day One Recap of Main Themes and Issues

- Representative from Luleå University of Technology
- Representative from the U.S. Department of State's Bureau of Energy Resources

DAY 2

9:00 AM - Opening & Overview

- Representative from Luleå University of Technology
- Representative from the U.S. Department of State's Bureau of Energy Resources

9:15 AM - Mining in the Arctic in the Context of Planning for Global Challenges Including Adaptation to Climate Change

Addressing the future impacts and costs of global challenges, such climate change, on mining in the Arctic, including unpredictable weather conditions, disturbances to infrastructure and operations, access to global supply chains and distribution routes, worker health and safety, and environmental management

- Ms. Annika Nilsson – Stockholm Environment Institute (SEI)
- Mr. Mark Myers – Former-Director, Department of Natural Resources, Alaska (Retired)
- TBD

10:45 AM Coffee Break



11:00 AM - Innovative Models for Utilizing Renewable Energy Technology for Remote Mining Projects

Identifying and incentivizing the incorporation of renewable energy and hybrid technologies into remote mining projects; A look at technologies, financing, policy and regulations, including for linkage between the mining sector and off-grid communities

- Mr. Mark Myers – Former-Director, Department of Natural Resources, Alaska (Retired)
- Mr. Richard Longstaff – Managing Director for Federal Energy, Deloitte

12:15PM - Lunch

1:15 PM - Case Studies on Renewable Energy, Mining, and Sustainability Synchronization

Public-private case-studies on global mining projects and processes which combine co-located renewable energy projects and lower costs with community and environmental benefits (e.g. Alaska, Chile, Canada, Finland, Namibia, South Africa, Sweden, etc)

- Mr. Richard Longstaff – Managing Director for Federal Energy, Deloitte
- Mr. Russel Blades – Senior Manager for Energy and Greenhouse Gas, Barrick Gold
- Mr. Phil Hopwood – Global Lead – Mining, Deloitte
- Mr. Magnus Tottie – Manager Product Development, LKAB

3:15 PM - Wrap up Discussion

- Mr. Paul Hueper - Director of Energy Programs, Bureau of Energy Resources, U.S. Department of State

3:30 PM - Closing Remarks

- Representative from Luleå University of Technology
- Representative from the U.S. Department of State's Bureau of Energy Resources

3:45 PM - End of Workshop