

**Arctic Mining: Environmental issues,  
mitigation and pollution control for  
marine and coastal mining-  
Workshop March 21, 22, 23, 2023**



<b>Title:</b> The PAME survey: Arctic marine and coastal mining
<b>Speaker:</b> Anders Mosbech, Project Co- Lead, Aarhus University
<b>Biography:</b> <i>Anders Mosbech has a long experience as project manager for environmental impact studies. He has acted as advisor to the regulatory agencies in the Danish and Greenland governments, participated in international working groups and conducted ecological research on seabirds, geese, muskoxen, marine mammals and vegetation.</i>
<b>What is the Purpose of your Talk?</b>  The purpose of this talk is to give an overview of the results from the PAME survey of Arctic marine and coastal mines. The survey puts the coastal Arctic mines on the map, and based on a questionnaire to each mine a number of issues in relation to the environment is illustrated across the Arctic.
<b>What is the relevant background and context?</b>  PAME (the Arctic council working group for Protection of the Arctic Marine Environment) initiated this study based on the interest in most Arctic countries for increased mining activity with the minimum impact on the environment and a sustainable coexistence with local communities. It is the hope that the project can identify lessons learned and help improve the environmental performance of future mining in the Arctic. <b>What do we need to know about methodology and actors?</b>  The project group developed a questionnaire to gather information about each Arctic mine with respect to basics about the mine as well as focus on environmental issues. The questionnaire was approved by the PAME working group and distributed through the national representatives in the PAME working group. The questionnaire was filled out by national experts in each country based on publicly available material like EIA reports. Only mines with discharge (direct or indirect with water or air) to the sea are included in the survey. Mines from US, Canada, Greenland, Norway and Finland are included in the survey. <b>What are the key learning points you want to share?</b>  The survey provides the backdrop for this workshop; showing the diversity of mines, environmental issues and the diversity of solutions in different countries. These experiences make it possible to reflect on what is the best available environmental solution to each unique mining case to minimize pollution now and in the future. The issues identified for further comparative analysis include: <ul style="list-style-type: none"><li>○ Permanent tailing storage facilities</li><li>○ Shipping and underwater noise</li><li>○ Monitoring and environmental quality guidelines</li><li>○ Monitoring and transparency</li></ul>
<b>What are the next steps raised by your talk and/or questions that need to be answered?</b>  It could be discussed what further needs to be done to extract the lessons learned and disseminate the results.

