THE RIGHT HAND DOES NOT KNOW WHAT THE LEFT HAND DOES.

MISSING LINKS IN THE RESEARCH LITERATURE ON ENERGY SECURITY AND SOCIO-ECONOMIC IMPACTS OF NON-RENEWABLE RESOURCE EXTRACTION IN GREENLAND

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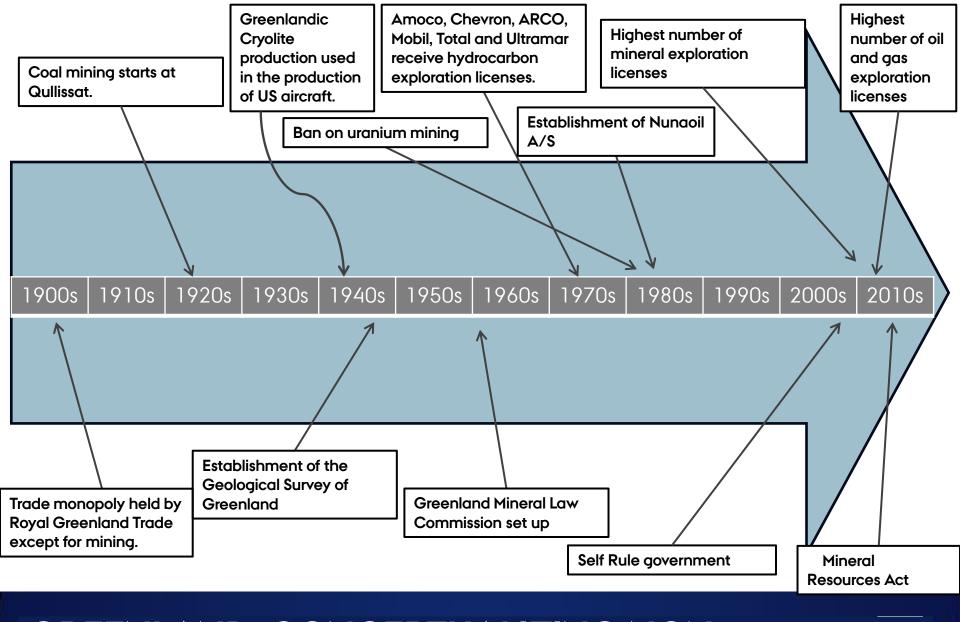
Security and Governance in the Global Arctic: Nordic and International Perspectives



INTRODUCTION

- Greenland: conceptualizing non-renewable resource (NRR) extraction
- Socio-economic impacts
- Energy Security
- 4. No dialogue
- 5. Closing the gap?
- 6. Why should we close the gap?





GREENLAND: CONCEPTUALIZING NON-RENEWABLE RESOURCE EXTRACTION



Old mining shaft at Qullissat
Photo © Esther Kokmeijer
Source:http://mvfram.blogspot.dk/2013/06/a-paradice-of-ice.html



Coal mining at Qullissat, 1907 Source: https://en.wikipedia.org/wiki/Qaarsut

- 1st conceptual wave: NRRs help secure Greenland's status as part of the Danish realm.
- In Greenland more than 20 different mines have operated in the past 150 years and include graphite (Amitsoq, Ivittuut); cryolite (Ivittuut: 1854-1987); lead-zinc (Mestersvig: 1956-1963); zinc, lead and silver (Maarmorilik: 1973-90).
- The Josva mine and smelter at Innatsiaq produced 60 tons of copper between 1905-14.
- The Qullissat mine, on the east coast of Disko, produced 570,000 tons of coal between 1924-1972 (GEUS: 2014).

Iceland, Greenland and the United States

By Hans W. Weigert

FOREIGN

AFFAIRS

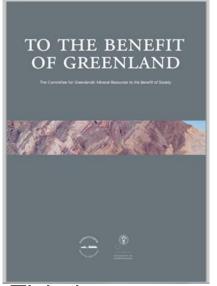
HE consciousness that the far north is an area of great strategic importance to the United States is no longer limited to the small group of men who began to listen to Vilhjalmur Stefansson's gospel of the "northward course" more than twenty years ago. These men did not then pretend to be advancing thoughts which were entirely new. They aimed at a rebirth of the visions which led William Henry Seward to purchase Alaska in the middle of the nineteenth century and made him wish to secure America's position in the North Atlantic through the purchase of Iceland and Greenland from Denmark. For a long time the concept of the American Far North had little effect on our foreign policy. But airmindedness has brought about a revival of Seward's ideas and has given them wide popularity and a new meaning. It is no longer necessary to deplore the lack of a national awareness of the north, but rather to warn against over-enthusiastic

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- Second conceptual wave:
- NRRs assist in achieving greater independence







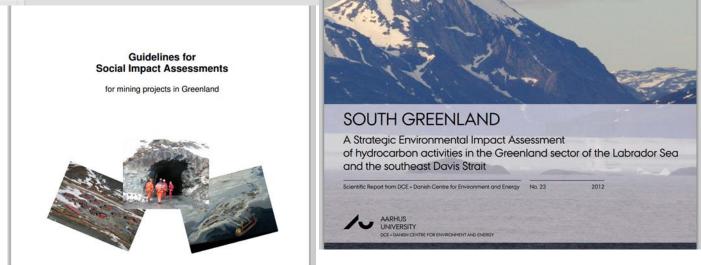


Third conceptual wave.

NRRs: jobs, taxes, royalties, training, new businesses

AND

migration, resource dependence, pollution



Potential environmental impacts of oil spills

An assessment of information status and research needs

in Greenland

NERI Technical Report, No. 415



SOCIO-ECONOMIC IMPACTS: POSITIVE AND NEGATIVE

iblications/opinions-publications/greenland-a-key-for-future-developments-in-the-arctic/

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Greenland's Rare Earth Elements are seen to be crucial for securing low carbon economies. China controls more than 97% of the world's REE-production and that has caused concerned in Western economies. As the REEdemand is rising fast. Greenland and its non-Chinese owned enormous REE-potential are becoming strategic. The Arctic island may be able to supply at least 25% of the world's REE-demand in the next 50 years. But it may actually be more new data from 2011 showed that a mine in South Greenland - which was expected to be exploited during 25-30 years - may be exploited during 300 years, if not more.

· Landmark decision by Sami people to say no to gold mine in Norway https://t.conE51lz1d/B

 RT @StefanieSpear: In her response to Arctic drilling. Hilary broke with the Obama administration









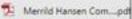






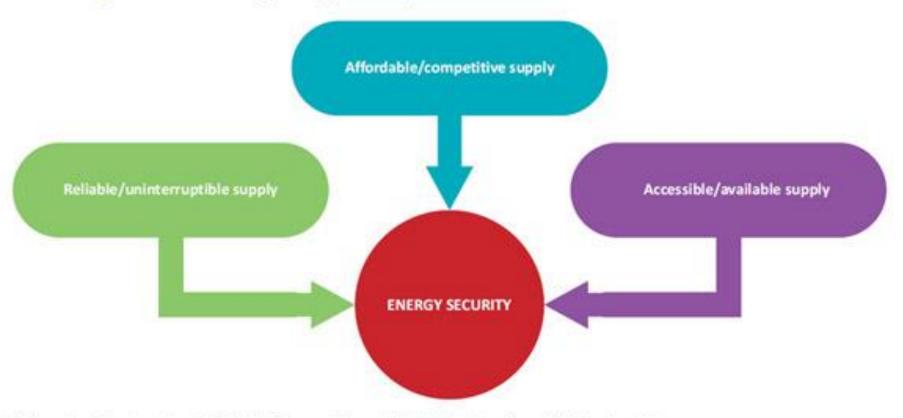








Figure 1.1 Defining energy security



Note: unless otherwise indicated, all tables, figures and boxes in this chapter derive from IEA data and analysis.



ENERGY SECURITY: IEA SIMPLIFIED VIEW

NO OVERLAP OR LITTLE DIALOGUE BETWEEN ENERGY SECURITY AND SOCIAL IMPACT LITERATURES

Social impacts are conceived as failures to secure energy.

"Short-term energy security focuses on the ability of the energy system to react promptly to sudden changes within the supply-demand balance. Lack of energy security is thus linked to the negative economic and social impacts of either physical unavailability of energy, or prices that are not competitive or are overly volatile." (IEA: 2015)

What about the social impacts incurred in the process of securing energy?



REE extraction: the process requires a cocktail of chemical compounds and produces a "tremendous amount" of solid waste, according to the U.S.
Environmental Protection Agency. (Yale Environment 360: 2013)



4. CLOSING THE GAPS?

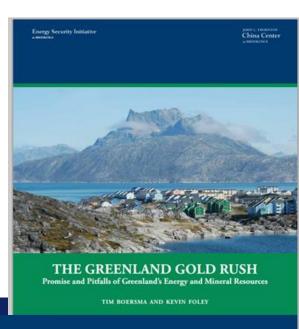
TO THE BENEFIT OF GREENLAND

The Committee for Greenlandic Mineral Resources to the Benefit of Society

Energy security should be primarily a question of ethics. Before we talk about the need for increased energy security we must ask:

- What is this energy for?
- Who benefits?
- What are the alternatives?
- What are the social, environmental and generational costs? (Sovacool, 2013: 3).

Social impacts lit should inform ES lit





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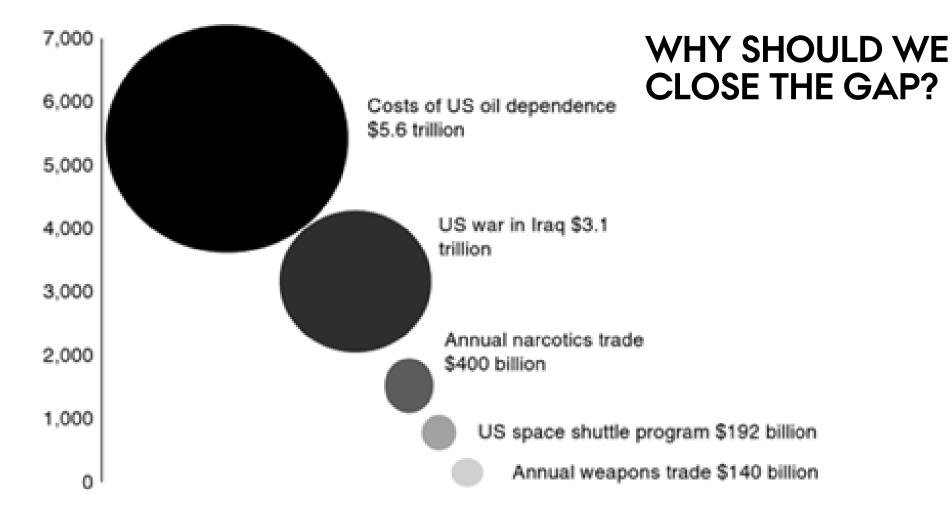


Figure 2.1 Macroeconomic costs of US dependence on foreign oil (billions of dollars), 1970–2004



Without morality "the tecnological pursuit of salvation can become a threat to our survival" (Noble: 1997: 208).



https://books.google.com/ngrams/graph?content=Energy+Security%2C(Socio-economic+impacts)%2CGreenland&year_start=1800&year_end=2008&corpus=15&smoothing=3&share=&direct_url=t1%3B%2CEnergy%20Security%3B%2Cc0%3B.t1%3B%2C%28Socio%20-%20economic%20impacts%29%3B%2Cc0%3B.t1%3B%2CGreenland%3B%2Cc0

EARLY DAYS FOR ENERGY SECURITY DISCOURSE