Climate change in Danish impact assessment practice: The ugly duckling?



Ivar Lyhne - with Lone Kørnøv

Associate professor, the Danish Center for Environmental Assessment

lyhne@plan.aau.dk

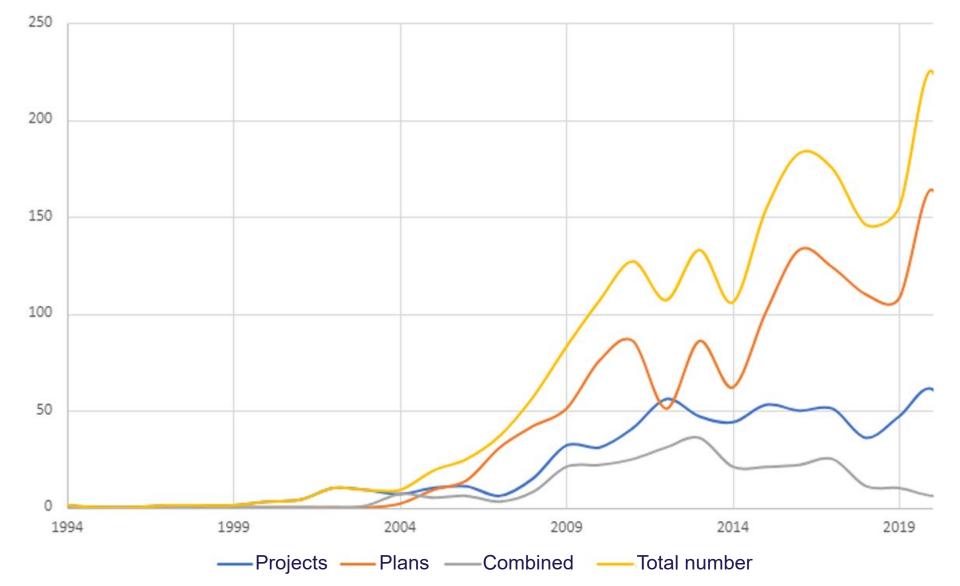
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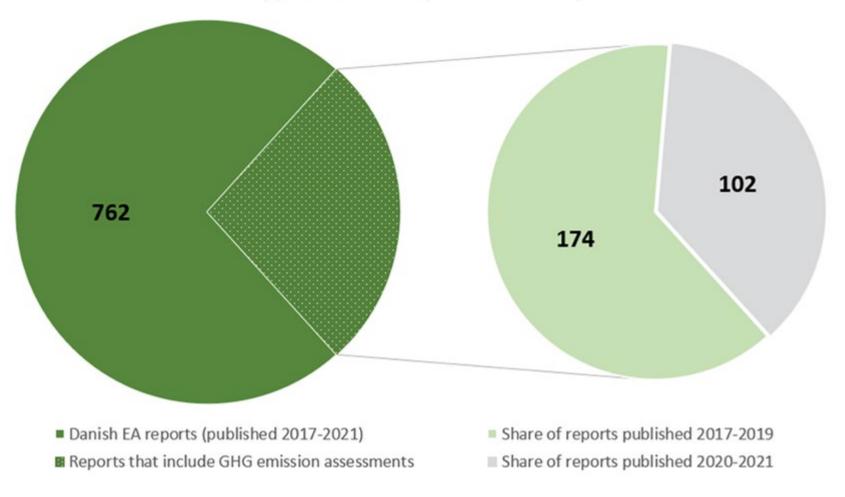
EA in DK

AALBORG University



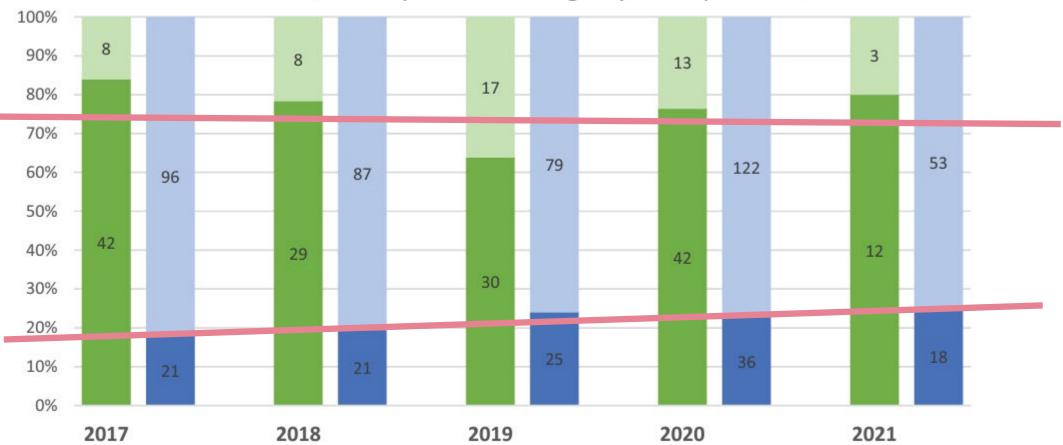
How often are GHG considered in DK EAs?

The applied data sample of the study





Is it getting more frequent over time?



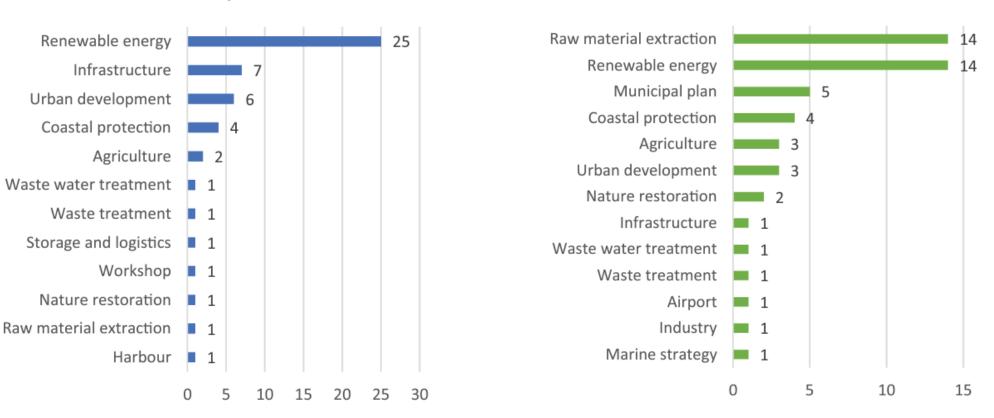
Distribution of EA reports according to year of publication

AALBORG UNIVERSITY SEA reports that do not include assessment of climate impacts EIA reports that do not include assessment of climate impacts SEA reports that include assessment of climate impacts

EIA reports that include assessment of climate impacts

PAGE

For what activities are GHG considered?



SEA reports

Figure 4. Distribution of SEA reports according to plan types.

Figure 3. Distribution of EIA reports according to project types.

EIA reports

How often is GHG emissions significant?

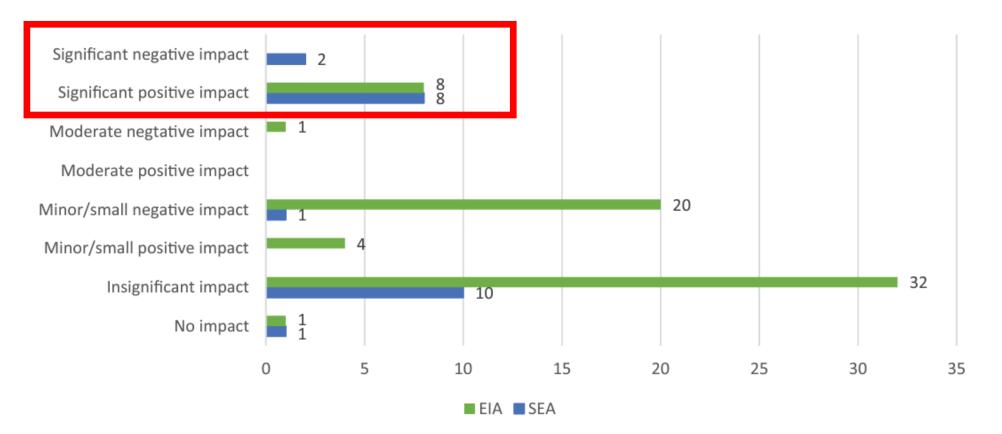


Figure 8. Distribution of 88 significance determinations for GHG emissions according to the determined degree of significance.

Why not significant?

EIA of a highway in 2023:

The total greenhouse gas emission from the construction of the highway and tunnel is estimated to 262.733 tons CO₂

"Compared to Denmark's yearly CO₂ emissions, the CO₂ impact from the project accounts for approx. 0.2%. The CO₂ emissions in the construction phase are therefore considered insignificant compared to global and reginal impacts."



Transformation process

Training

AALBORG UNIVERSITET

UDDANNELSE FORSKNING SAMARBEJDE OM AAU NYHEDER

SÆRSKILT MODUL

LIVSCYKLUSVURDE-RING (LCA) MED FOKUS PÅ KLIMAAFTRYK



Guidance

VÆSENTLIGHED AF KLIMAPÅVIRKNINGER

Tilgange til at vurdere væsentlighed af drivhusgasudledninger i miljøvurderinger

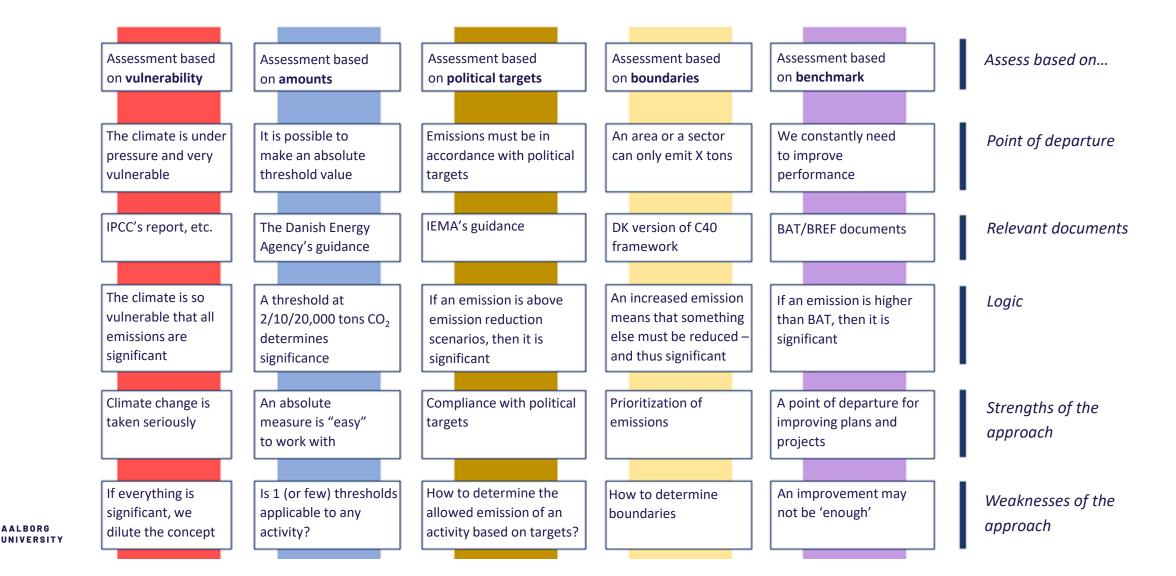


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Approaches to significance assessment

LBORG



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IMPACT ASSESSMENT AND PROJECT APPRAISAL 2024, VOL. 42, NO. 1, 30–42 https://doi.org/10.1080/14615517.2024.2308443



Greenhouse gas emissions in Danish environmental assessments: a critical review

Kasper Smetana Christensen^a, Sebastian Moeslund Wael^b, Laura Hillingsø Munk^a, Ivar Lyhne^c and Lone Kørnøv^o

^aConsultant, Nature and Areas, COWI, Denmark; ^bConsultant, Society, Economics and Environment, COWI, Denmark; 'The Danish Center for Environmental Assessment, Aalborg University, Denmark

ABSTRACT

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KEYWORDS

emissions; SEA

Check for updates

Climate change is a key focus in society, and environmental assessments (EAs) are seen as key instruments to inform decision-makers about climate consequences of plans and projects. Previous research has, however, identified shortcomings of practice of assessing greenhouse gas (GHG) emissions and their significance, and this paper aims to unfold current practices with a focus on Denmark. From an initial set of 762 Danish EA reports published between 2017 and 2021, researchers scrutinized 102 of them to assess their handling of GHG emissions. The findings show that climate change mitigation receives continuous sparse attention and is only to a limited extent included in the scope of the EA. Moreover, analysis of GHG emissions only involves few phases in a life-cycle perspective, GHG emissions are seldomly deemed significant, and justifications provided are varied and frequently inadequate. The results contrast with the increasing focus in society on climate change as a pivotal concern across numerous societal activities. The repercussions of this current practice are discussed. Finally, a research agenda to support better practice is outlined.

Highlights

Increased focus on climate change has not had a major impact on Danish EA practice. Increasing GHG emissions are almost never assessed as significant. Nine types of justifications for the significance of GHG emissions are identified. Assessing GHG emissions directly against national total emissions is misleading. Christensen, K. S., Wael, S. M., Munk, L. H., Lyhne, I., & Kørnøv, L. (2024). Greenhouse Gas Emissions in Danish Environmental Assessments: A Critical Review. *Impact Assessment and Project Appraisal, 42*(1), 30-42. <u>https://doi.org/10.1080/14615517.2024.2308443</u>

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Take-aways and discussion

• EA have a role in GHG efforts – but do we make use of it?

• Overview of (bad) practice motivates improvements of practice

- Overview of approaches to assess significance provides very good discussions among practitioners
- Cross-country exchange of status, approaches, and experiences would be highly interesting and useful!



Let's continue the conversation!

#iaia24

Post questions and comments in the IAIA24 app.

Ivar Lyhne

Associate professor, The Danish Center for Environmental Assessment, Aalborg University

Denmark

lyhne@plan.aau.dk

LinkedIn

The Danish Center for Environmental Assessment, Aalborg University

