



# Report for joint NKJ-SNS networks

Submit the report before March 1<sup>st</sup> 2018 to [sns@slu.se](mailto:sns@slu.se) and [hansson.nkj@slu.se](mailto:hansson.nkj@slu.se)  
The report should not exceed 1000 words (including words in the template).

1. Network title:	Effects of bioenergy production from forests and agriculture on ecosystem services in Nordic and Baltic landscapes
2. Network no:	2015-03

3. Network coordinator:	Dr. Nicholas Clarke
Address:	Norwegian Institute of Bioeconomy Research
Email:	Nicholas.clarke@nibio.no

4. Place for the activity:	Gothenburg (Sweden), Moss (Norway), Copenhagen (Denmark)			
5. Duration of the activity	Start:	01.01.2016	End:	30.04.2018

6. List the published outputs (peer-reviewed articles, other publications):
<p>Clarke, N. Effects of bioenergy production on ecosystem services. <i>Scandinavian Journal of Forest Research</i> 2016 31: 235</p> <p>Nielsen, T.F., Matuszak, A., Stupak, I., Futter, M. (eds.) (2018). Book of Abstracts. Abstracts from the conference "Governing sustainability of bioenergy, biomaterial and bioproduct supply chains from forest and agricultural landscapes", 17-19 April 2018, University of Copenhagen, Frederiksberg, 59 pp.</p> <p>The following peer-reviewed paper is in preparation: Clarke, N., Hansen, A.C., Hegnes, A.W. Bioenergy risk and risk management in the Nordic countries Stupak, I. et al. Synthesis paper from the Copenhagen conference</p> <p>A summery paper is planned as an output from the Copenhagen conference.</p>

7. Other practical outputs (e.g. websites, policy recommendations, conferences, large-scale project applications etc.)

The network was involved in the organisation of two workshops and one conference:

1. "Landscape management and design for food, bioenergy and the bioeconomy: methodology and governance aspects", workshop, Gothenburg, Sweden, 15-16 March 2016 (collaboration with Chalmers University and the SNS-funded CAR-ES III)
2. "Effects of bioenergy production from forests and agriculture on ecosystem services in Nordic and Baltic landscapes", workshop, Moss, Norway, 4-5 April 2016
3. "Governing sustainability of bioenergy, biomaterial and bioproduct supply chains from forest and agricultural landscapes", conference, Copenhagen, Denmark, 17-19 April 2018 (collaboration with IEA Bioenergy Task 43 and CAR-ES III)

The network was presented at the SNS and NKJ Matchmaking Day For Forestry, Agriculture, Environment and the Energy Sectors, Vantaa, Finland, 15 September 2016

8. Specify the conclusions of the network (maximum 500 characters) for possible use in SNS News and Views

Bioenergy sustainability is an aspirational goal. As we are dealing with complex systems, we cannot predict all consequences. Despite this, principles and best practices have been developed and should continue to be applied. Decision-making should be informed by transparent, replicable, science-based analyses. Governance systems must be perceived as justified, with broadly accepted standards, effectively solving concerns they were designed to address. Due to variation between countries and regions, solutions with balance between regulation and flexibility are necessary.

9. Specify how the network has been beneficial in a Nordic setting:

Bioenergy is a major renewable source of energy in the Nordic and Baltic countries. Despite this, and although a great deal of work has already been done on all aspects of its use, including effects on ecosystem services, there has been little contact between scientists working in different sectors. As there are similar challenges in both the forestry and agricultural sectors, there has been a need for more contact between scientists working in these sectors. This is crucial especially for processes that take place at larger (landscape and above) scales, including for example hydrology, water quality and biological diversity, and with regard to similarities and differences in governance. The network's activities have contributed to filling this gap.

10. Download, fill in and return the 'policy brief' template, which will be used for spreading information about the network and its findings in a popular scientific manner.

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### 11. Participants in the network activities

Actual no. of participants	DK	FI	IS	NO	SE	EE	LT	LV	Total	Women	Men
Young researchers / PhD students				1	5		2	1	9	6	3
Senior researchers	2	4		3	3	1		2	15	8	7
Stakeholders											
Communicators											
<b>Total</b>	<b>2</b>	<b>4</b>		<b>4</b>	<b>8</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>24</b>	<b>14</b>	<b>10</b>

### 12. List the participating sectors:

Universities  
Sector-based research institutes  
Stakeholders (at the Copenhagen conference)

### 13. Economy

Specify currency:	SEK
Received grant from SNS & NKJ:	330000 (=322268 NOK)

### 14. Costs (NOK)

	Self-financed	SNS - NKJ grant	Total	% of self-financing
Travel and hotel	44003	43161	87164	50
Meeting costs including hotel for first meeting		157210	157210	0
Communication				
Consumables				
Salary	421049	121705	542754	78
(Other costs (specify below))				
<b>Total SUM</b>	<b>465052</b>	<b>322076</b>	<b>787128</b>	<b>59</b>

### 15. Economic result (deficit or surplus):

The grant has been completely used up, but there is no deficit.

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Comments to the economic reporting:

I hereby declare that the above statements are true to the best of my knowledge

Main applicant signature, place and date

*Nicholas Clarke*

Norwegian Institute of Bioeconomy Research 18/06/18

.....  
(Signature)

.....  
(Institution)

.....  
(Day / Month / Year)

Signature of head of research institution

*Roald Sørheim*

*NIBIO*

*18/06/2018*

.....  
(Signature)

.....  
(Institution)

.....  
(Day / Month / Year)

...Roald Sørheim, Director, Division of Environment and Natural Resources.....

(Printed name, function)

