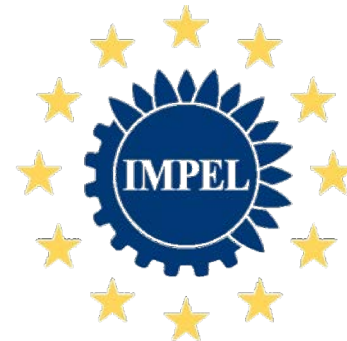


# **IMPEL projects about nitrate pollution from agriculture 2013 - 2018**

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**Anette Dodensig Pedersen**  
Danish Environmental Protection Agency  
& IMPEL Water and Land Expert Team



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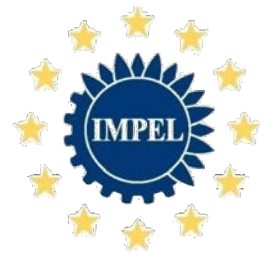
# Overview of the projects

In **2012** The EU Commission highlighted nitrate pollution from agriculture as a crucial area for IMPEL to work on

- **2013** IMPEL project: “Sharing good practice in tackling diffuse pollution and nitrate loss from farms and farmsteads”. Two field trips, in Denmark and Scotland. Fundamental ideas of which topics to work on in future projects.
- **2014** IMPEL project: “Good practice in tackling nitrate pollution from farms and farmsteads”. Field trip in the Netherlands. “Good practice document”.
- **2016** IMPEL project: “Does one measure fit all?” Minimizing diffuse nitrate pollution from farms in regions varying in landscape and agricultural structure
- **2017** Part of the IMPEL SWETE project: “Manure storage capacity”. Field trip in Denmark. Workshop on controlling storage capacity.
- **2018** Part of the IMPEL SWETE project: Exploring the use of videos to exchange experiences and practices.

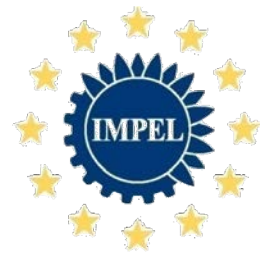
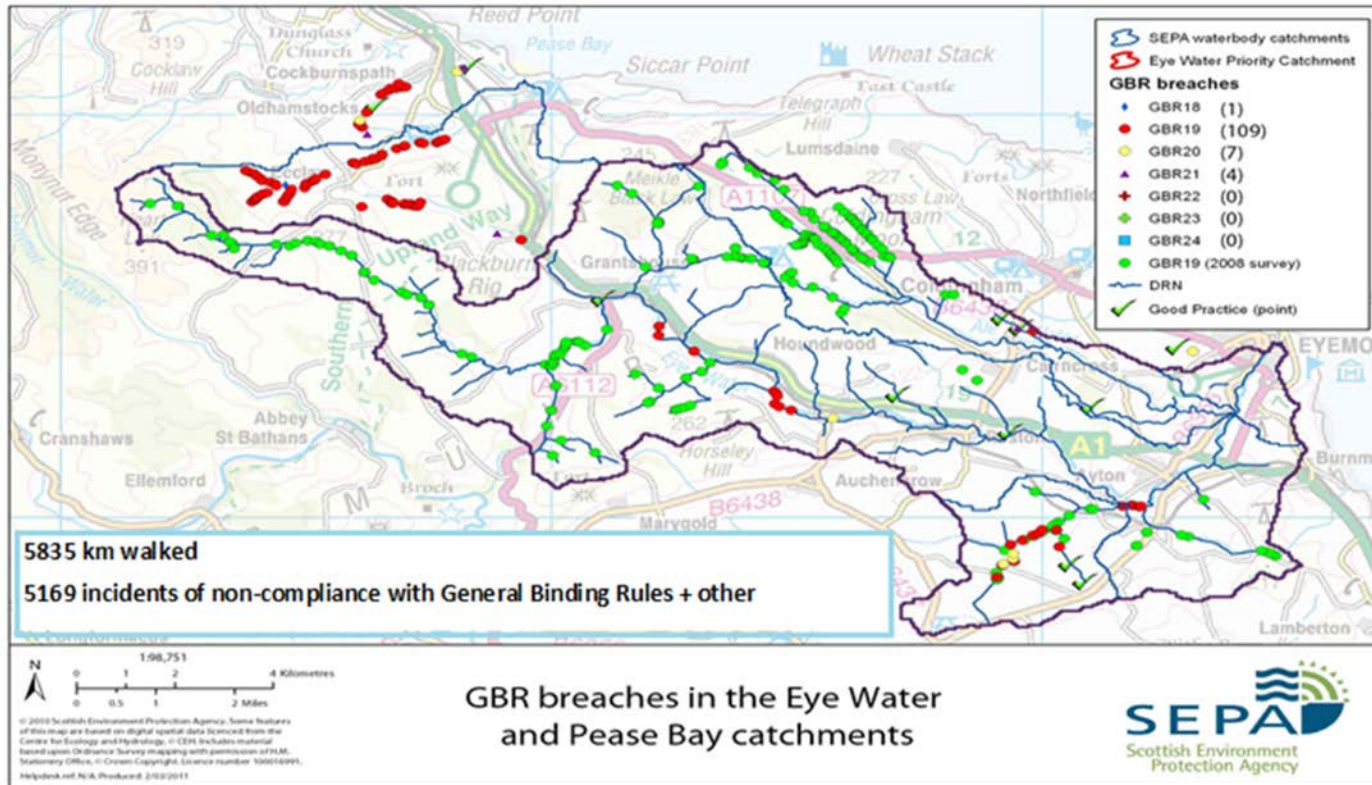


# 2013 Field trip in Denmark – Inspection on cattle farm



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# 2013 Field trip in Scotland – Catchment walks



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# 2014 Field trip in the Netherlands – Biogas at ACRRES



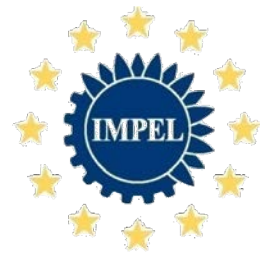
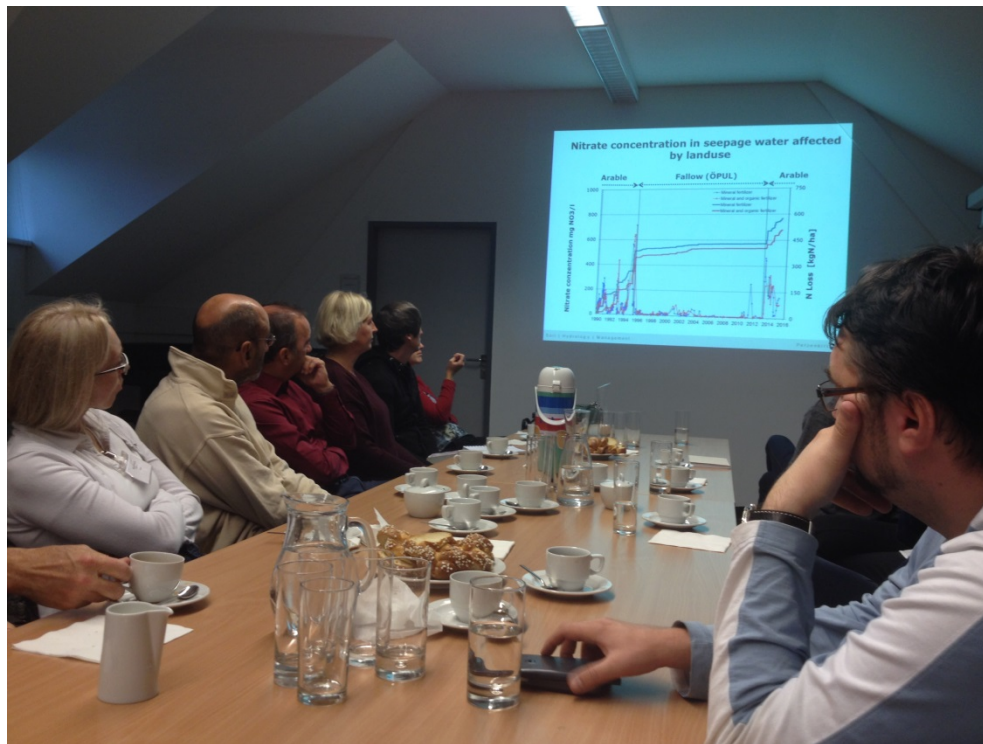
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# 2014 Field trip in the Netherlands – Workshop on degassed manure



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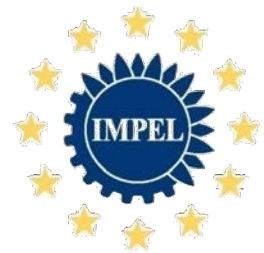
# 2016 Field trip in Austria – Federal Agency for Water Management



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# 2016 Field trip in Austria – Experimental plots for catch crops at HBLA



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# 2017 Workshop in Denmark – Exchanging experiences about controlling manure storage capacity

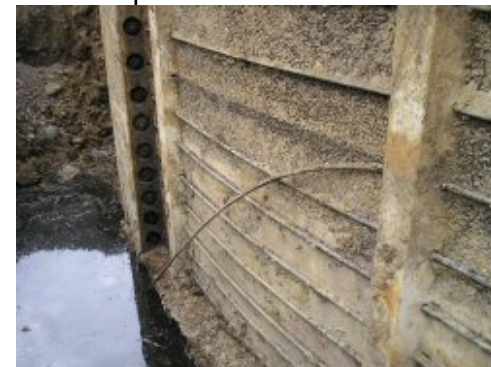


Table A – Weekly volumes of excreta collected as slurry

Livestock type	Number of animals on slurry based system 1	Volume of excreta per livestock type per week (m <sup>3</sup> ) 2	Total volume of excreta to be stored as slurry during the required storage period 3
1 Dairy cow, over 2 years (over 9000 litre milk yield)	x	0.45 =	X 22 =
1 Dairy cow, over 2 years (6000 to 9000 litre milk yield)	x	0.37 =	X 22 =
1 Dairy cow, over 2 years (up to 6000 litre milk yield)	x	0.29 =	X 22 =
1 Dairy heifer replacement, 13 to first calf	x	0.28 =	X 22 =
1 Dairy heifer replacement, 3 to 13 months	x	0.14 =	X 22 =
1 Beef suckler cow (over 500 kg)	x	0.32 =	X 22 =
1 Beef suckler cow (up to 500 kg)	x	0.22 =	X 22 =

# 2018 - Videos to exchange experiences and practices.

- Part of the SWETE project (Safeguarding the Water Environment Throughout Europe)
- The purpose is to explore the use of videos to exchange experiences and practices
- The first topics chosen:
  - Controlling strength and leak tightness of slurry tanks
  - Fertilizer accounting



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## 3.2 Combined consumption of nitrogen in livestock manure and processed livestock manure

Opening stock on 1 August 2017		kg N
Normal production in the period from 1 August 2017 to 31 July 2018	+	kg N
Received livestock manure in the period from 1 August 2017 to 31 July 2018	+	kg N
Livestock manure disposed of in the period from 1 August 2017 to 31 July 2018	-	kg N
Livestock manure disposed of for incineration in an environmentally approved incineration plant	-	kg N
Livestock manure disposed of to a foreign country according to the rules	-	kg N
Livestock manure disposed of to own MVJ ON areas via grazing livestock	-	kg N
Processed livestock manure disposed of to a non-registered enterprise	-	kg N
Stock status on 31 July 2018	kg N	
Consumption from 1 August 2017 to 30 September 2018 (for crops harvested or grazed before 31 December 2018)	- kg N	

# Summing-up & Contact info

- A wide variety of projects on nitrate pollution from agriculture
- A variety of approaches to exchanging experiences
- Plenty of more possibilities - If you are interested in leading a similar project please contact the IMPEL Water and Land Team for support:

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