

VERIFICATION STATEMENT

Statement no.: PRJC-531261-2015-AST-NOR

Yara International ASA

CARBON FOOTPRINT - FERTILIZER PRODUCTS

DNV GL AS (DNV GL) was commissioned by Yara International ASA (Yara) to provide a limited assurance third-party verification for the carbon footprint for fertilizer products.

The carbon footprint was determined by Yara International ASA using the carbon footprint calculation tool developed by Fertilizers Europe. <http://www.fertilizerseurope.com/index.php?id=137>

The calculator tool estimates the carbon footprint (t CO₂ equivalents/t product) related to the production of a specific fertilizer product. All emissions with GWP (Global Warming Potential) are included. The calculator includes direct and indirect emissions from all materials directly related to the production of the particular fertilizer product delivered in the final product storage at the production site. Further the calculator includes the estimated emissions from purchased energy and indirect emissions resulting from the production and transportation of raw materials. The calculation tool does not include any emissions released from the application of the fertilizers. It should be noted that Yara has adjusted the Fertilizers Europe model with the following refinements:

- Enabling imported urea as a raw material
- Production of UAN from imported ammonia
- Possibility to use prilling instead of granulation for all products where needed

Scope of verification: Verification of the input data used in the calculation tool (i.e. activity data such as energy and raw materials) for a selected number of production sites and fertilizer products as given in the Annex.

The verification activities included:

- Interviews with responsible persons at the corporate level
- Site visit to the production plants verifying the data sources of activity data and consolidation process
- Review of procedures for collection of activity data from the production sites

Disclaimer: DNV GL takes no responsibility for any changes coming into effect after the vintage year given in this statement. Changes comprises any changes in the production of fertilizers, changes in raw materials used, energy usage or any other changes that may influence the carbon footprint values given in this statement.

During the verification, nothing has come to our attention that causes us to believe that the carbon footprint values given in this statement, calculated using the Fertilizers Europe calculation tool are not fairly stated.

Place and date: Høvik, Norway, 21.12.2017

DNV GL AS



Rafi-ud-Din Khawaja
Lead Verifier



Siv Inderdal Eklo
Regional Development Manager, N. Europe

ANNEX

CARBON FOOTPRINT – YARA FERTILIZER PRODUCTS

DNVGL has verified the carbon footprint for the fertilizer grades from selected productions sites. The carbon footprint values in kg CO₂/kg product represent the maximum carbon footprint for the specific fertilizer product and production site.

Yara Product	Product type	Production sites	Data vintage	kg CO ₂ e/kg product max
YaraBela Extran 33.5	AN (33.5 %N)	Rostock, Germany Sluiskil, The Netherlands Tertre, Belgium	2013 2014 2015	1.25
YaraBela Extran 27	CAN (27 %N)	Rostock, Germany Sluiskil, The Netherlands Tertre, Belgium	2013 2014 2015	1.04
YaraVera	Urea (46 %N) **)	Sluiskil, The Netherlands	2014	1.52
YaraUAN	UAN (30 %N)**)	Rostock, Germany Sluiskil, The Netherlands	2013 2014	1.06
YaraLiva	CN (15.5 %N)	Glomfjord, Norway Porsgrunn, Norway	2013 2013	0.65
YaraMila	NPK *) (15 %N -15 %K ₂ O - 15 %P ₂ O ₅)	Glomfjord, Norway Porsgrunn, Norway Siilinjärvi, Finland Uusikaupunki, Finland	2013 2013 2013 2013	0.80

*) Exact result of a NPK grade depends on the N-P-K ratio.

***) The Urea and UAN figures include CO₂ emissions from hydrolysis after application, but no other emissions from use of the product.

Latest update: Høvik, Norway, 21.12.2017

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Rafi-ud-Din Khawaja
Lead Verifier



Siv Inderdal Eklo
Regional Development Manager, N. Europe