

From: NectonSubstationAction Messenger <[REDACTED]>
Sent: 09 November 2021 08:53
To: Norfolk Vanguard <NorfolkVanguard@planninginspectorate.gov.uk>
Subject: Carbon footprints

Dear Planning Inspectorate

We would like to bring the SoS's attention to this information, included within this website:
[Farming News - 20 per cent of world's CO2 from ploughing – soil scientist](#)

"When a farmer ploughs and cultivates a paddock it releases CO2 into the atmosphere. The vast majority (95 percent) is released from soil with the other five percent coming from tractor exhausts," Dr Baker says. "The amount of CO2 released by cultivation during reseedling can be approximately three tonnes per hectare"

Information can also be found at this website: [Soil Organic Carbon Content - ESDAC - European Commission \(europa.eu\)](#): Excavation during construction.....

"In constructing a structure excavation plays an important role in making foundations of home, roadways, and building. In this process...The excavated soil gets disturbed by the heavy machinery and the CO2 which is trapped in the soil gets in contact with the atmosphere."

We understand that the Boreas project was asked to provide an assessment of their project's carbon footprint. They provided an assessment which does give amounts for the use of materials and transport etc. however there is nothing which relates to the actual digging of the cable route, which would account for carbon release. No wonder they hid this because the information above from the Farming News says that approximately 3 tonnes CO2 per hectare comes from the soil – but of course they are talking (according to a farmer I have spoken to) about agricultural digging to a depth of just 8 inches. The cable trenches will obviously have to be quite a lot deeper so they're not in danger of being snagged by ploughs and drills etc, so the CO2 release will be much greater than in farming. Also there is no mention of the fact that the substations will have to have their huge sites levelled, and foundations excavated, thereby digging even deeper and creating yet more release of CO2. All of this should be admitted to in the assessments.

Because the Vanguard Examination finished on 10th June 2019 and the amendment which required carbon footprint information from Boreas was introduced on 26th June, the applicant was never asked to provide one for Vanguard.

However, since Vanguard's decision has been quashed, it should now fall within needing to provide this information, especially since Vattenfall claim that their double project is all about saving the planet. This information is surely a vital component when it comes to considering the projects cumulatively.

Given all this new information we feel very strongly that not only should Boreas have to give all information, but Vanguard must be asked the same questions.

Boreas are giving Scenario 1 as approximately 1.860,339 tonnes..... Norfolk Vanguard which would be a similar amount to Boreas Scenario 2.....and added together they would be...3,799,370 **plus whatever the cable routes and substations' foundations might cause.**

We ask that the SoS requests full information on all carbon footprint from both Boreas and Vanguard including that released during the digging of the cable corridors and levelling the substation sites.