

**HAGA HAGA WEF ACCESS ROADS ADDENDUM TO THE AGRICULTURAL ASSESSMENT PORTION OF
THE EIA REPORT FOR THE HAGA HAGA WEF, EAST LONDON REGION, EASTERN CAPE PROVINCE***

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****Laubscher J & Ellis F 2017. EIA for the Haga Haga WEF, East London Region, Eastern Cape Province:
Agricultural Assessment Study, Stellenbosch (Revised Report July 2020).***

The Haga Haga WEF was authorised on 5/07/2019 (DFFE Reference: 14/12/16/3/3/2/1087). The Environmental Authorisation (EA) received an amendment on 03/06/2021 (DFFE Reference: 14/12/16/3/3/2/1087/AM1). The original EIA included a 42 turbine layout and associated internal road network, the amendment reduced the number of turbines to 36 and the internal road network was changed to match. The internal road layout will be built as per the layout submitted during the amendment, within allowable micro siting limits. The WEF has not yet been constructed.

This addendum deals with the impact for agricultural production activities of the planned expansion of the access road network for the Haga Haga WEF in the development area of the project.

During the Haga Haga WEF EIA and amendment it was estimated in the Revised Report (July 2020) that only about 0.9% of the yearly gross margin from farming operations on the site for the WEF will be lost due to the proposed wind energy project (refer to Table 1). It is thus clear that, should appropriate mitigation measures be employed during construction, the negative impact of the Haga Haga WEF on farming practices in the investigation area can be seen as insignificant. It should further be possible for the farmers to organize their grazing schedule in such a way that the reproduction process of the livestock will not be notably disturbed during the construction period. Farming practices should thus be able to continue as in the past.

Table 1: Expected negative financial impact of the wind energy facility on the financial situation of farming in the proposed Haga Haga WEF development site *before* the access road upgrades (*Same as Table 5.2 of the July 2020 revised report*)

ITEM	TOTAL
Farm area (ha)	8730
Affected area:*	
Natural graze land (ha):	76
TOTAL AFFECTED AREA (ha)	76
% of farm area affected	0.9%
Expected loss in gross margin/year (Rand)	
<i>Natural graze land:</i>	
Expected gross margin/LSU(Rand)	R 1 949
Expected gross margin/ha farmland (Rand)**	R 390
Expected yearly loss in Gross margin on natural graze land (Rand)	R 29 623
TOTAL EXPECTED YEARLY LOSS IN GROSS MARGIN***	R 29 623
Expected yearly gross margin of total farm area (Rand)****	R 3 402 526
% of total yearly Gross margin of farming lost	0.9%

*Land to be taken up for the turbines, roads and other infra structure

** At a bearing capacity of 5 ha/LSU

*** Loss in Gross margin due to loss of production on affected areas.

**** Gross margin per year from 8730 ha of natural graze land

The expected farming area to be taken up by the expansion of the access road network on the relevant farms is indicated in Table 2. It is noted that the intersection areas do not need to be included as these will not involve permanent removal of grazing and therefore not a concern for agriculture. The areas shown in Table 2 therefore only included **affected** grazing area.

Table 2: Expected farming area to be taken up by the expansion of the access road network at the Haga Haga WEF development site

Farm Portion	Area (ha)	Road distance(m)	Road area (ha)	% of farm area
Portion 2 of Farm 69	189,4	0	0,0	0.0%
RE of Farm 94	86,3	10	0,0	0,0%
Portion 2 of Farm 94	44,9	891	0,7	1,6%
RE of Farm 111	101,9	361	0,3	0,3%
Portion 1 of Farm 111	102,4	972	0,8	0,8%
RE of Farm 225	59	369	0,3	0,5%
RE Farm 222	63,1	72	0,1	0,1%
RE Farm 288	52,9	61	0,0	0,1%
TOTAL	700,0	2736	2,2	0,3%

Only approximately 2 to 3 ha of natural graze land is expected to be used in this regard. The negative impact on farming is thus expected to be *insignificant* when seen within the context of the spreading of the project over an area of approximately 9430 ha of natural graze land (refer to Table 3). Only approximately 0.3% of the land and thus by implication of the yearly farm profit of the whole area will be lost in this regard. **The negative impact of the access road network on farming practices in the project area can thus be seen as insignificant.**

Table 3: Expected negative financial impact of the wind energy facility on the financial situation of farming in the proposed Haga Haga development site *after* the upgrading of the access road network

ITEM	TOTAL
Farm area (ha)	9430
Affected area:*	
Natural graze land (ha):	78
TOTAL AFFECTED AREA (ha)	78
% of farm area affected	0,8%
Expected loss in gross margin/year (Rand)	
<i>Natural graze land:</i>	
Expected gross margin/LSU(Rand)	R 1 949
Expected gross margin/ha farmland (Rand)**	R 390
Expected yearly loss in Gross margin on natural graze land (Rand)	R 30 494
TOTAL EXPECTED YEARLY LOSS IN GROSS MARGIN***	R 30 494
Expected yearly gross margin of total farm area (Rand)****	R 3 603 795
% of total yearly Gross margin of farming lost	0,8%

*Land to be taken up for the turbines, roads and other
infra structure

** At a bearing capacity of 5 ha/LSU

*** Loss in Gross margin due to loss of production on
affected areas.

**** Gross margin per year from 9430 ha of natural
graze land