

Wind Farm CASALDUNI

Inspector	ING. FRANCESCO SPANO'
Attendants to the inspection	ING. RAFFAELE PETRICCIUOLO; ING. ALESSANDRO IERACE
Inspection Date	20.06.22

Definitions

Category of Defect	Description of Category	Results of Inspection
Minor Defect	defect to be remedied	4 findings
Major Defect	major defect to be remedied on short term	NO findings
Critical defect	safety critical defect, immediate action to be taken	NO findings
n.a.	not applicable in this type of turbine	

Findings

No.	Category	Description of Defect	Defect cat.
M-1	Safety	No gate, barrier or fence in place to avoid external access to the site works.	Minor
M-2	Land storage	No information notice with details of the Plan was affixed at site.	Minor
M-3	Foundation	A maintenance needs to correct the gradient of the excavation slopes before the restart of activity	Minor
M-4	Platform	Some correction will be necessary to avoid potential sliding or water erosion	Minor

General Information on wind farm

1	Wind Farm Information	
1.1	Wind Farm	PARCO EOLICO CASALDUNI
1.2	Location	CASALSUNI/PONTELANDOLFO, Benevento, Campania, Italy
1.3	Status	In construction
1.4	Commissioned	-
2	Wind Turbine Information	
2.1	Manufacturer	Siemens Gamesa Renewable Energy Wind
2.2	Type / Capacity	G132 / 3.645 MW
2.3	Wind farm capacity	34.65 MW
2.4	Rotor diameter	132 m
2.5	Hub height	114 m

Minor Defect
Major Defect
Critical Defect
n.a.

defect to be remedied
major defect to be remedied on short term
safety critical defect, immediate action to be taken
not applicable in this type of turbine

Inspection

3	Access and main site entrance		
3.1	Access roads	<p>Tared public road in good condition through existing paths (SP 58).</p> 	OK
3.2	Roads	<p>Preliminary accesses to the site works, arranged from Civil Work's Subcontractor Corbo, appear in good condition.</p> 	OK
3.3	Gate	<p>M-1: No gate, barrier or fence in place to avoid external access to the site works.</p>	Minor
3.4	Information and safety signs	<p>Along the internal roads safety and information signs were available.</p>	OK

Minor Defect
Major Defect
Critical Defect
n.a.

defect to be remedied
major defect to be remedied on short term
safety critical defect, immediate action to be taken
not applicable in this type of turbine

					
4	WTG08				
4.1	Roads	<p>The actual status of internal roads allows arrival on site of materials, machineries and workers.</p> 	OK		

Minor Defect
Major Defect
Critical Defect
n.a.

defect to be remedied
major defect to be remedied on short term
safety critical defect, immediate action to be taken
not applicable in this type of turbine

			
4.2	Crane platform	<p>The actual status of platforms allows the storage of steel cages for piles construction and the placement of machineries for pouring concrete.</p> 	OK
4.3	Foundation	<p>During the site visit the perforation of pile foundation was carried out by the Contractor Trivellazioni Italia. The activity is slowly proceeding due to the presence of bedrock. The equipments available on site seem compliant with the standard.</p>	OK

Minor Defect
Major Defect
Critical Defect
n.a.

defect to be remedied
major defect to be remedied on short term
safety critical defect, immediate action to be taken
not applicable in this type of turbine



Minor Defect
Major Defect
Critical Defect
n.a.

defect to be remedied
major defect to be remedied on short term
safety critical defect, immediate action to be taken
not applicable in this type of turbine

5	WTG09		
5.1	Roads	<p>The actual status of internal roads allows arrival on site of materials, machineries and workers.</p> 	OK
5.2	Crane platform	<p>The actual status of platforms allows the storage of steel cages for piles construction and the placement of machineries for pouring concrete.</p> 	OK
5.3	Foundation	<p>The excavation of foundation was complete, ready for the piles perforation.</p>	OK

Minor Defect
Major Defect
Critical Defect
n.a.

defect to be remedied
major defect to be remedied on short term
safety critical defect, immediate action to be taken
not applicable in this type of turbine

			
5.4	Land storage	<p>M-2: The land storage from excavation is compliant with the provision of the Reuse Plan (Ref. Doc. 239EEOLIM000CANRE001A). The provisional deposits are identified as per design. No information notice with details of the Plan was affixed at site.</p> 	Minor
6	WTG10		
6.1	Roads	<p>Only the Roads Clearing and Grubbing was completed.</p> 	OK

Minor Defect
Major Defect
Critical Defect
n.a.

defect to be remedied
major defect to be remedied on short term
safety critical defect, immediate action to be taken
not applicable in this type of turbine

6.2	Crane platform	The platform wasn't yet carried out.	OK
6.3	Foundation	A preliminary excavation of foundation was complete, waiting for the piles perforation starting. 	OK
7	WTG11		
7.1	Roads	Only the Roads Clearing and Grubbing was completed. 	OK
7.2	Crane platform	The platform wasn't yet carried out.	OK
7.3	Foundation	The site works don't yet start	OK

Minor Defect
Major Defect
Critical Defect
n.a.

defect to be remedied
major defect to be remedied on short term
safety critical defect, immediate action to be taken
not applicable in this type of turbine



8	WTG13		
---	-------	--	--

8.1	Roads	Although preliminary activities of internal roads construction weren't complete, the access to this site is available.	OK
-----	-------	------------------------------------------------------------------------------------------------------------------------	----



8.2	Crane platform	The embankments with material from excavation were started.	OK
-----	----------------	-------------------------------------------------------------	----

Minor Defect
Major Defect
Critical Defect
n.a.

defect to be remedied
major defect to be remedied on short term
safety critical defect, immediate action to be taken
not applicable in this type of turbine

			
8.3	Foundation	<p>M-3 A preliminary excavation was complete. No working activities are carrying out at this site. A maintenance needs to correct the gradient of the excavation slopes before the restart.</p> 	Minor
8.4	Land storage	<p>M-2: The land storage from excavation is compliant with the provision of the Reuse Plan (Ref. Doc. 239EEOLIM000CANRE001A). The provisional deposits are identified as per design. No information notice with details of the Plan was affixed at site.</p>	Minor

Minor Defect
Major Defect
Critical Defect
n.a.

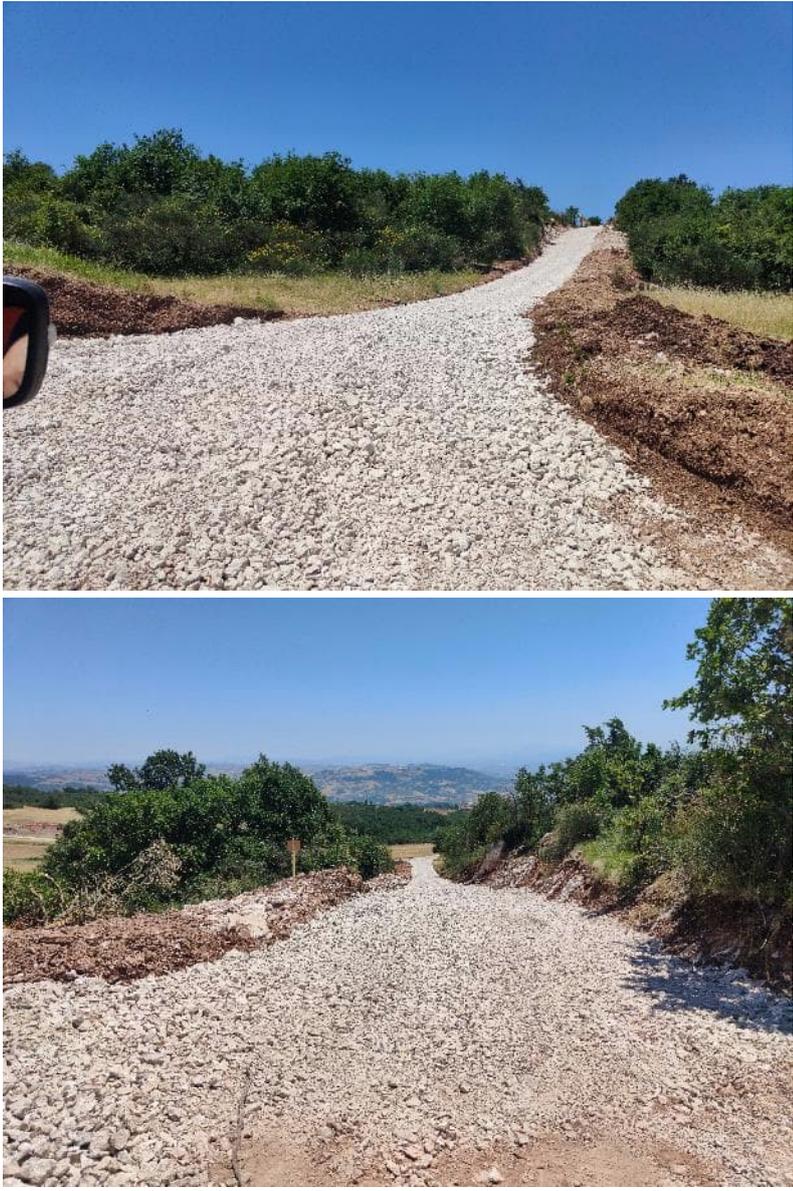
defect to be remedied
major defect to be remedied on short term
safety critical defect, immediate action to be taken
not applicable in this type of turbine



9	WTG14		
9.1	Roads	<p>A preliminary activity of construction road was complete at this site, consisting in removal of topsoil and formation of excavation base by compacted material.</p> 	OK
9.2	Crane platform, Foundation	<p>The activity don't started.</p> 	OK

Minor Defect
Major Defect
Critical Defect
n.a.

defect to be remedied
major defect to be remedied on short term
safety critical defect, immediate action to be taken
not applicable in this type of turbine

10	WTG18		
10.1	Roads	<p>The sub-base grade of internal road was complete.</p> 	OK
10.2	Crane platform	<p>The actual status of platforms allows the storage of steel cages for piles construction and the placement of machineries for pouring concrete.</p>	OK

Minor Defect
Major Defect
Critical Defect
n.a.

defect to be remedied
major defect to be remedied on short term
safety critical defect, immediate action to be taken
not applicable in this type of turbine



M-4:

The embankment of the platform appears very high. Some correction will be necessary to avoid potential sliding and water erosion.

Minor



10.3	Foundation	The Civil Subcontractor Corbo is carrying out the excavation of foundation. The activity is going to complete with some difficult, caused by the presence of weathered rock,	OK
------	------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----

Minor Defect
Major Defect
Critical Defect
n.a.

defect to be remedied
major defect to be remedied on short term
safety critical defect, immediate action to be taken
not applicable in this type of turbine



11	WTG03-04-05		
11.1	Roads, Platform and Foundation	<p>No construction activity was yet started in this area.</p>	OK

Minor Defect
Major Defect
Critical Defect
n.a.

defect to be remedied
major defect to be remedied on short term
safety critical defect, immediate action to be taken
not applicable in this type of turbine



Minor Defect
Major Defect
Critical Defect
n.a.

defect to be remedied
major defect to be remedied on short term
safety critical defect, immediate action to be taken
not applicable in this type of turbine