
Regioni Liguria e Piemonte
Provincia di Savona e Cuneo

COMUNI DI CAIRO MONTENOTTE,
CENGIO E SALICETO

PARCO EOLICO
MONTE CERCHIO

RELAZIONE TECNICA DI CALCOLO
**Aggiungere in coda gli allegati
strutturali**

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IL PROGETTISTA

Ing. Silvio Mario Bauducco

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1 PREMESSA

1.1 Premessa

Oggetto della presente relazione tecnica è la verifica della struttura di fondazione (plinto in c.a.) SUHYLVWD SHU O¶DQFRUD ad Rio Cerchio Parco Eolico di Cairo Montenotte.

Per garantire la stabilità degli scavi, visto che dalle risultanze della relazione geologica risulta presente la roccia in maniera affiorante, non si rende necessario predisporre una berlinese per sostenere il fronte di scavo delle piazzole e dei plinti. Tuttavia per almeno 1 turbina, vista che sono ubicate nel versante nord di Saliceto in cui sono presenti delle superfici di scivolamento, si opta per realizzare il plinto su pali di grande diametro.

Il metodo di calcolo adottato è quello agli Stati Limite come previsto dal D.M. 17/01/2018.

1.2 Lavori previsti

I lavori previsti consistono nella realizzazione di un plinto di fondazione circolare su pali di grande diametro visto che il terreno per almeno 1 turbina può avere delle ca UDWWHULVWLFKH QRQ LGRQH D VRVWHAQfine di L FDU J DUDQWLUH OD VWDELOLWj G h e optato W app for dire i ca O O ¶ DU H almeno per 25 m così da trasferire parte delle azioni della fondazioni per attrito alla roccia su cui è impostato la fondazione, riducendo la portata del carico di base dei pali. Ogni fondazione sarà poi oggetto di specifico calcolo a valle dei risultati delle prove geologiche e geotecniche comprensive di perforazioni con estrazione di carote così da evidenziare tutti i parametri geotecnici reali turbina per turbina.

Analogamente si è optato, per la stessa ragione, di predisporre una piazzola su cui far posizionare la gru, visti i carichi di circa 500-550 tonnellate che la stessa avrà in fase di montaggio degli elementi.

Per i plinti diretti si è calcolato la massima azione sul terreno schematizzando la fondazione, in prima approssimazione, come un cilindro ad altezza costante.

2 NORMATIVA DI RIFERIMENTO

- La normativa seguita per lo sviluppo della progettazione esecutiva delle opere in c.a. oggetto della seguente relazione sono:
- Legge 05/11/1971 n° 1086: "Norme per la disciplina delle opere di conglomerato cementizio armato normale e precompresso ed a struttura metallica".
- D.M. 14/02/1992: "Norme tecniche per l'esecuzione delle opere in cemento armato normale e precompresso e per le strutture metalliche".
- Circ. Min. LL.PP. 24/06/1993 n° 37406: "Legge 5/11/1971 n° 1086: ³, VWUX]LRQL UHODWLYH DOOH QRUPH WHFQLFKH S cemento armato normale e precompresso e per le strutture metalliche, di cui al D.14/02/1992" (metodo delle Tensioni Ammissibili).
- ' 0 // 33 ³ 1 R U F K H W S I F Q LO F D O F R O R O ¶ H V collaudo delle strutture in cemento armato, normale e precompresso e per O H V W U X W W X U H P H W D O O L F K H ´
- & L U F 0 L Q // 33 Q f , V W U X] L R Q L S H U Norme tecniche per il calcolo, l'esecuzione ed il collaudo delle opere in cemento armato normale e precompresso e per le strutture metalliche, di cui al D.M. 09/01/1996".
- ' 0 // 33 ³ 1 R U P H W H F Q L F K H U H O D W L Y H D L verifica di sicurezza nelle costruzioni e dei carichi H V R Y U D F F D U L F K L ´
- & L U F 0 L Q // 33 Q f , V W U X] L R Q L S H U Norme tecniche relative ai criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi, di cui al D.M. 16/01/1996".
- EUROCODICE 2 ³ 3 U R J H W W D] L R Q H G H O O H V W U X W W X U H G L
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 - D.M. LL.PP. 14 settembre 2005 ±Norme Tecniche per le Costruzioni;
 - CNR- 81, 3 \$QDOLVL GL VWUXWWXUH PHGLDQWH H
 - UHGD]LRQH GHOD UHOD]LRQH GL FDOFROR'
 - D.M. LL.PP. 14 gennaio 2008 - Norme tecniche per le costruzioni.
 - D.M. LL.PP. 17 gennaio 2018 - Norme tecniche per le costruzioni.

3 MATERIALI PREVISTI

I materiali impiegati per le opere in c.a. sono i seguenti.

3.1 Calcestruzzi cementizi

Per l'esecuzione delle opere in calcestruzzo armato di fondazione dovrà essere impiegato un conglomerato avente le seguenti caratteristiche:

- Resistenza caratteristica R_{ck} non inferiore a 45 N/mm^2 (classe di resistenza C35/45 - prospetto VIII norma UNI 9858); cemento Portland 425 con dosaggio minimo 400 kg/m^3 ; inerti in quattro classi granulometriche ed in curva granulometrica continua di Bolomey, con diametro massimo degli inerti 30 mm e, comunque, compatibile con l'interferro minimo di progetto; slump adeguato al tipo di componente da realizzare.

Gli impasti, sia di malta che di conglomerato, dovranno essere preparati in sito od ordinati ai produttori (centrali di betonaggio) soltanto nella quantità necessaria per l'impiego immediato.

I residui di impasti che non avessero, per qualsiasi ragione, immediato impiego dovranno essere portati alle pubbliche discariche.

3.2 Acciai per armature

/ ¶ D F F L D L R G D L P S L H J D U H S H U O H D U P D W X U H G L W X W W
barre ad aderenza migliorata denominato B450C con caratteristiche meccaniche e chimiche in conformità alle vigenti norme tecniche (tensione caratteristica di snervamento 430 N/mm², tensione di rottura 540 N/mm²).

/ ¶ D F F L D L R S H U U H W L H O H W W U R V D O R G D E W H P R E S E N T A R E X D O X Q T
tensione caratteristica di snervamento 390 N/mm² con tensione caratteristica di rottura 440 N/mm².

4 CARICHI AGENTI SULLA STRUTTURA DI FONDAZIONE DELLA TURBINA

I carichi agenti sul plinto di fondazione della turbina derivano dalle valutazioni dei carichi forniti direttamente dal produttore delle turbine stesse. Risultano essere costituiti da:

- Peso proprio della turbina e delle apparecchiature in essa contenute
- Peso proprio della fondazione ±calcestruzzo e terreno sovrastante
- Azione del vento sulla turbina
- Sisma

4.1 Peso proprio della turbina e delle apparecchiature

I valori dei carichi derivanti dal peso proprio della turbina, della navicella, delle pale e delle apparecchiature derivano dalle azioni calcolate dal produttore della turbina.

Esse risultano ±dalla tabella Vestas per la turbina avente mozzo a 125 m da terra:

In ogni caso le azioni prodotte da turbine analoghe di altri produttori non modificano i carichi in quanto del tutto simili.

4.2 Peso proprio del plinto di fondazione del palo

1.5m , tronco conica fino al cilindro centrale ove vi sono i tirafondi.

La zona dei tirafondi fuoriesce dalla parte tronco conica di 70 cm di cui 20 cm sono esterni al terreno.

Il peso proprio della fondazione per la conformazione a sezione circolare tronco conica, risulta essere pari a:

Peso proprio cls $G_{2k} = 26275 \text{ KN}$

Avendo considerato un peso specifico di 2500 daN/mc.

Il terreno soprastante si prevede abbia un peso specifico di 1800-1900 daN/mc.

Si rammenta che i parametri geotecnici devono essere convalidati da prove con carotature turbina per turbina.

4.3 Azione sismica

I valori de

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YDOXWDWR LQ IDVH GL SUHGLPHQVLRQDPHQWR SDUL
GHOO¶D]LRQH RUL]]RQWDOH

5 VERIFICHE

5.1. Plinto di fondazione palo

Le verifiche, secondo il D.M. 14/01/18 capitolo 6.4 devono essere effettuate almeno nei confronti dei seguenti stati limite:

SLU di tipo geotecnico (GEO)

- FROODVVR SHU FDULFR OLPLTWRGSLQCCPQW) LHPH IRQG
- collasso per scorrimento sul piano di posa (scorrimento)

SLU di equilibrio del corpo rigido (EQU)

- ribaltamento

SLU di tipo strutturale (STR)

- raggiungimento della resistenza negli elementi strutturali,

Per la caratterizzazione del terreno, benchè in questa fase preliminare, siano state condotte solo delle indagini sismiche, si rimanda alla relazione geologica a cura del Dott. Canavero Alessandro, che fa parte del progetto.

La fondazione è stata discretizzata con elementi piastra con vincoli su pali come da schema seguente:

e come un cilindro di calcestruzzo avente diametro 25 m e spessore variabile fino a 3 m. Si riporta in allegato la verifica del plinto circolare senza pali per la parte di stabilità e pressioni trasmesse al terreno.

5.2. Verifiche strutturali

Le verifiche strutturali con la determinazione dello stato di lavoro delle armature e del calcestruzzo saranno oggetto della verifica puntuale plinto per plinto, appena saranno definiti puntualmente il terreno e le sollecitazioni sismiche trasmesse dalla torre e di fornitura del produttore delle turbine.

5.3. Verific a palificata

Le verifiche della palificata sono riportate in allegato e da cui si evince che le dimensioni del plinto e i pali previsti sono compatibili con la presunta capacità portante del terreno.

6 CONCLUSIONI

Con la presente relazione tecnica si sono verificate le strutture di fondazione QHFHVVDULH SHU a tubi di tipo Devista nel Parco eolico di Monte Cerchio.

il Tecnico

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9	"	4	5 7#778 4	8#9<7	994 9	5 8987	<7	#897
9	"	4	5 78#9 9	# 9 7	5 874 84	5 4 7# <	<9	4 <
9	"	4	5 <84 8	5 # 9 7	874 84	5 < 84#	<<	8 <744
9	"	4	5 44 8 84	5 8#9<7	5994 9	5 <9 7	<7	< #9
	+2 5 & 4 + \$ 8							
9	"	#	5 78#79 <	97 9 84	48	5 9 # <	< #	7 #
9	"	#	5 9< 99	59 #	<# 48	5 9 78	<9	7 7848
9	"	#	5 < 87 9	9 #	5 <# 48	5 99 3<<	<<	<7 <
9	"	#	5 <4	597 9 84	5 48	5 9# 477#	<7	99
	+2 5 & % + \$ 7 9\$							
9	"	8	5 847 98	48 #8 87	<< 9	5 4< 4 74	994 <<#	
9	"	8	5 9#8# 4	4#78< 44	5 < <7	5 48 < 9<	9	4 <48
9	"	8	5 #49<9 9#	54#78< 44	< <7	5 8 9 4	7	# 98
9	"	8	5 8 744	548 #8 87	5 << 9	5 8 7 48<<	7<9 4	
	+2 5 & % + \$ 8 9\$							
9	"		5 98 9 9#	77 #	4 8#	5 7 97	9	
9	"		5 7 < 9 4	5 8 4 <	4 # <7	5 << 84 #	< 4 77<<	
9	"	9	5 88 7 84	8 4 <	54 # <7	5 7 7#4	<4 47	
9	"	<	5 #4 89 4	5 77 #	54 8#	5 <8#7	7	9 #8#
	+2 5 9,							
9	"		5 48 9 9			5 <8 94<	< 7 888	
	+2 5 9, ' +7							
9	"		5 7 8	5 8< 44	#99# #	5 479	9 9 <7	
9	"		5 <9< <7<	8< 44	#99# #	5 # 7 7	4 # 494	
	+2 5 9, ' +8							
9	"		5 48 9 9			5 <8 94<	< 7 888	
	+2 5 4, (
9	"	<	5 9#< 7			5 9# 7 7	<<7 <	
	+2 5 4, (' +7							
9	"	7	5 797<< <	5< # 87	4 4#	5 9 74<4	98	4 8

9	"7	5 4\$ <4	< # \$7	5 4 4#	5 << 7 #9	<89	4887	
+2 "5 4, (' +8								
9	"	5 9# <7			5 9# 7 7	<<7	<	
+2 ! 5:								
9	"4	5 9 <#			5 97 #	<<	#8	
+ 2 2								
+2 5 & ++ ,								
9	"	5 4<9#			5 7 7 7	99		
+2 ε &								
9	"	ε < < 4 84			ε 8 <4 #	4 7	<<	
+2 5 & '6 7								
9	"9	5 98<7	5 << <<	9 4 9	5 8#7<	8	4###	
9	"9	5 << 9#	<< <<	5 9 4 9	# 9#	48	88	
+2 "5 & '6 8								
9	"<	5 < < 4 84			5 8 <4 #	4 7	<<	
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9	"7	5 7#8 7	8 <	# # < 4	5 <# 9 <	<#	< 7	
9	"7	5 7 8 7	8844 44	5 # # #8	5 < 9#<9	<#	44	
9	"7	9	5 4 7 44	58844 44	# # #8	57 <74#	7 7 <	
9	"7	<	5 49 99	5 8 <	5 # # < 4	5 <8 # 74	7 7 <#	
+2 5 & + \$ 8 9\$								
9	"	ε <89 #	9 7	8 <88 7,	ε 7 9	<8 77		
9	"	5 9897 ##	5 8 <7	8 <4 88	57 #44	<88	#	
9	"	9	ε 8 7 77	8 <7	ε 8 <4 88	ε <7 7 <9	<89 849	
9	"	<	5 <494 4	5 9 7	5 8 <8 77	5 < # #	7 947	
+2 5 & 4 + \$ 7								
9	"4	5 7#7 <		9 4 <#	5 <4 8 <48	<#	<	
9	"4	5 7#44	847 77	5 9 #8 4#	5 < 9	<#	4 <8	
9	"4	9	5 4 < 4#	5 847 77	9 #8 4#	57 4 7	7 8 7	
9	"4	<	5 44 7 <	5	5 9 4 <#	5 <8 #8 <	7 9 <98	
+2 5 & 4 + \$ 8								
9	"#	5 99 <4	997 9 <	< < 8 7	57 9#79	<# 8 <#9		
9	"#	5 < 4 #8	5 9 9 8 7	< < 8	57 7 <<	<88	<48	
9	"#	9	5 9 7 <	9 9 8 7	5 < < 8	5 <7 9 44	<89 4	
9	"#	<	5 <#88 8	5 9 9 7 9 <	5 < < 8 7	5 < < 7 4	7 9 < 4	
+2 ε & % + \$ 7 9\$								
9	"8	5 \$ 4 <	48 # # 8	9 4 44	5 < #	944	7 #	
9	"8	5 9 78 99	48 9 78	5 < 4 4	5 # 479	9#	7 << #	
9	"8	9	5 8 <	548 9 78	< 4 4	5 8 #	4 4 <8	
9	"8	<	5 8 7 9	548 # # 8	5 9 4 44	577 8 # 7	7 8 989	
+2 5 & % + \$ 8 9\$								
9	"	5 7 4	<97 4 #	47 # 7 #8	5 # 4	<<	# 94	
9	"	5 8 <9	5 97 < 4	47 97 #8	54 < 8 8 7	7	4 7 84	
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9	"<	5 99 < #			5 < 8 < 849	7 <<<		
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9	"7	5 9 7 4	5 #7 8 9	47 97	5 4 #9 <	< 8	77 <	
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5<<84< 7T5<9 <9 <7	54 88T4 88	549<9 <9T49<9	5 9<T < <8 #	5 7 8< 8T 7< 4# <	
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	5<<84< 7T5<9 <9 <7	9 # <	<9< # 9		
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7	5<<8 7 T5<97# 47	79< 99	< 7 47 8		
7	5<<#94# #4T5<< 9 87	< < <	9#8 7		
47	5<<44 84T5<<<4	89 49	979 98#		
	5<<47 94T5<<8	89 < 9	9 87		
7	5<<< 9 4T5<79 8 #	9<< 4			
7	5<<74 9 <T5<7# 4	848 89	44		
47	5<<7 9 #T 5< 7 #4	<< #<	<# 9		
	5<<<7 4 T5< 4 7 4	7 4 9	#4 77#<		
7	5<<9#8# <85<4 7	74#4 #	< <944		
7	5<<9 87 <<T5<4 # #	7 #<	8 9<		
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9 7	5<< 7< 79T5<#848	7# 9<	4 7 <7		
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947	5<< < # 4T5<8#8 9	<448	98 < 7		
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< 7	5<9## 4<T57 # 84	7 # #	< 4		
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7	5<944 8 4<T57 8	4## 4	977		
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7 7	5<94#9 < T57 4 8 84	877 9<	9 7 989		
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7	5<< 99 7T57779 #	9<99 9<	<9 #		
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' (B' (J' (B')*(J')*(!')*(
5<<8497 4 T5<9 <# 4	54< 8T4< 8	57#8# T7#8#	\$ < <#T 7 8879	57< #474T 7 8# #	
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	5<<8497 4 T5<9 <# 4	8<4# 9	<9< #7		
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7	5<<8 <8 T 5<978 87	8 4	< 7 97 #		
7	5<<#94 T5<< 9 <	989 7	9##		
47	5<<44 < <T5<<# <	44<	97		
	5<<4 <7 7 T5<<8 4 4	8 7 7	9 # <4		
7	5<< 98 4T5<794< 9	9 8	7 8 4		
7	5<<747 T5<7# 9	848 4	< <<7<		
47	5<<7 7 7 T5< 4 88	< 74	< <		
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7	5<<9#8 44T5<4 4 78	7#	99#9		
7	5<<9 ## 4<T5<4 9 9	9< 8	8 7 47		
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9	5<< 9 T5<#7 8 ##	88	# <<		
9 7	5<< 79< ##T5<#8#< 7	7489 #	4 #		
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7	5<< 9 8 79T577797 4	99 8	98 7 4		
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47	5<< 4<9 8 T57# 4# 9	# <# 4	98 7#
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447	5<<98 T578 < 8#	< 9	9 #
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8	5<< 4# T5 9 9 9	8 9	77 <77
	5<<#88< <#T5 7499	4 9	< 97
	5<7 << 7 T5 #< 7	8<8 97	7# 8
	5<79 98 <T54 #9 7	8 7	<4 #8<<
9	5<779 9 4T5494<4 4i	8# <	9< 487.
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7	5<787# 4#T548 8 7	#< 7	9 74
	5< 47 77T5# 44 7#	7 47	8
4	5< 98 # T5#<<77 <	9<#	4 9
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7	59 98 <8T 5<< 7 4	59 94 8 T5<<977 84	59 8 T5<7	9<7 8 8<	8 7 44
7	59 98 <8T 5<< 7 4	59 94 8 T5<<977 84	59 8 T5<7	9<7 8 8<	8 7 44
7	59 94 8 T5<<977 84	59 98 98T 5<< #4 #	59 8 T5<7	9<7 8 8<	8 7 44
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