



Casalduni 34.7 MW Wind Farm, Campania, Italy

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## Note

Unless differently stated, this Report has been prepared on the basis of the information gathered and/or project documents reviewed up to the cut-off date of August 30, 2021.

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# 1 Executive Summary

This construction report covers the period of July-August 2021 (the "Reference Period") and provides information on the status of the main construction activities, based on the documents made available by the Project Company on August 30, 2021.

## Overall Progress

The works are foreseen to be started by the end of November, as WTG manufacturer SGRE being is unable to plan the delivery of WTGs to the construction site due to a landslide on the SS90, Km 48 + 500. Despite the continuous contacts and meetings with ANAS, it has not yet been possible to find an alternative path that does not present other types of impediments. Contacts and meetings with ANAS managers are in progress.

As so far, in accordance with the main activities planned at the beginning of the works are related to the following:

- The Executive Project of the Electrical Substation was completed, as also foundations' design was finalized. It is foreseen to deposit the Executive Project to Genio Civile within July 2021.
- UXO test (Unexploded Ordinances): both the first and the second partial explosive ordinance clearance testing were obtained.
- Archaeological surveys: archaeological assistance with the University of Salerno and other archaeologists will be started along with the start of activities expected to be in the end of May/early July 2021 [3]; birdlife monitoring activities have been contracted.
- Foundations: Seismic authorization obtained for 8 WTGs. The additional documents required by the Genio Civile for WTG03 and WTG18 have been conducted in April, and the seismic authorisation was obtained on May 4, 2021 [3]. As regards the Substation, the deposit of seismic authorization was carried out.

Moreover, it has been stipulated a contract with Siemens for the electromechanical supply. In relation to contracts, the Client foreseen to sign contracts with the suppliers for the following materials/works:

- Supply MV and F.O. cables (Nexans)
- Supply and laying HV cables
- Supply Concrete – Plinth and Piles
- Supply Additives – Foundations
- Supply Cave dry materials (signed)
- Subcontract earth moving (signed)
- Subcontract Treatment at lime
- Subcontract Piles (signed)
- Subcontract Carpenter (signed)
- Subcontract prefabricated cabins in SS (signed)

The TA notifies that, based on the updated project schedule, the Interconnection Date Deadline (February 10, 2022) as per definition in Terms and Conditions of the Notes will not be met by the project. Moreover, the TA notes that, based on the updated project schedule, the Long Stop Date (July 31, 2022) as per definition in Terms and Conditions of the Notes would be met just 5 days in

advance (July 26, 2022), subject to a hypothetical obtainment of WTG transport permit on November 30, 2021, which is yet to be confirmed by the involved authorities.

However, the current schedule would allow the Project to be guaranteed the awarded Tariff without any penalties: the deadline to avoid a 1% reduction on the awarded Tariff for the projects awarded in third auction (in accordance with the DM July 4, 2019), whose ranking results were published in September 2020, was extended to July 30, 2022 due to the current COVID-19 emergency [9].

The TA notes that the buffer to meet this target (represented by the date of energization of the first WTG, currently foreseen for April 20, 2021) has considerably reduced to just three months. This point and possible mitigation actions will be further investigated in the next weeks, and following the starts of the site activities

### Budget

The following EPC contract payment milestones have occurred in the Reference Period:

- 5 WTGs EXW (Net milestone 8.426,4 k€)

The costs are related to the advance payment EPC occurred in July 2019 and the WTG Contract/SSE Contract stipulated in December 2020, as well as the Cable Supply Contract in February 2021 and the abovementioned milestone of August 2021, for a total amount of 24,436.5 k€.

### Permitting and Land acquisition/concession

- The land rights were obtained on August 1, 2020. The payment for the land costs related to the landowners and MEF are in final phase (90% of the payment has been conducted). The remaining part is expected to be finalized before the starting of the works;
- The land rights for provisional areas are foreseen to be completed by the end of July based on the works progress in the construction site;
- First and second UXO (Unexploded Ordinances) with positive result obtained.
- Seismic authorization obtained for 8 WTGs upon to 10 WTGs. The additional documents required by the Genio Civile for the seismic authorization for WTG18 and WTG03 have been obtained on May 4, 2021.
- It has been stipulated the concession with the Province of Benevento for the laying of the cable duct obtained on July 17, 2020 and the authorization for roads adjustment on February 5, 2021.;
- The authorisation for the cable duct line was obtained from the Pontelandolfo Municipality on April 15, 2021. No related concession will be issued, as it is not needed<sup>1</sup>.
- The authorization from the Casalduni Municipality for the cable duct is still pending and it is foreseen to be obtained in June;
- The ANAS authorization for roads adjustment was obtained on March 29, 2021
- Decree of EIA Extension was obtained March 23, 2021 with positive comments from MATTM and MIBACT. Within July the MITE (former MATTM) is expected to comply with the Decree of EIA Extension. After the compliance, site works will be initiated.

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<sup>1</sup> Confirmed by Renexia with clarification email on 28/05/2021

## HSE

Safety and Coordination Plan were issued in the Reference Period [1].

## Site Visit

To be planned in accordance with new time schedule / progress of site activities. Considering the start of works within the end of November, the site visit is envisaged to be performed in the vicinity of that date.

## 2 Background

The Casalduni WF (the "Project" or the "Wind Farm"), with a total capacity of 34.7 MW consisting of 10 Siemens-Gamesa G132-3.465MW with a hub height of 114 m, received the EIA Decree on November 22, 2014 and has been authorized by the Campania Region according to the D.Lgs. 387/2003 ("Autorizzazione Unica" or "AU") on March 22, 2016. On November 27, 2019 by the AU Decree n.465, the Campania Region issued the Single Authorization for the Project as "Variante".

The Wind Farm is owned by Parco Eolico Casalduni House Srl (the "Project Company" or the "PC" or the "Client"), which in turn is owned by Renexia SpA (the "Sponsor").

In the 2018, Fichtner has been mandated for the lender's engineering activities for the benefit of each financial institution providing debt service to the Project Company according to their individual needs.

As informed by the Sponsor, the Project applied to the third auction in accordance with the DM July 4, 2019. The auction ranking results were published in September 2020. The Project was awarded a tariff of 66.84 €/MWh, corresponding to a 4.51% discount with respect to the threshold tariff of 70 €/MWh, assigned for 20 years starting from the Project COD.

In this framework new turbine supply and O&M contracts (TSA and ISP) have been signed with the Danish WTG manufacturer Siemens Gamesa on December 2020.

Fichtner Italia ("Fichtner" or the "TA" or "LE"), mandated as lender's engineer, has been requested to provide a Construction Report related to the update status of the Project.

During this exercise, the TA has liaised with, or received information from, representatives of the following parties:

- Parco Eolico Casalduni House (PECH) as SPV;
- Renexia as Sponsor



### 3 Introduction

This report aims to provide the Lenders with the status of the main project construction activities for the Reference Period.

The works mainly consist of:

- Building and installation of 10 WTGs composed by 9 deep foundations (piles) and 1 foundation that transfer the load directly on the terrain, for a total installed power of 34.65 MW;
- Execution of the MV cable-ducts;
- Construction of the SSE for the MV/HV transformation of the produced energy;
- Construction of the HV cable duct connected with the RTN<sup>2</sup> line.

All the WTGs are located in Municipality of Casalduni, grouped into two clusters: WTG03, WTG04 and WTG05 belonging to the first cluster and the WTG08, WTG09, WTG10, WTG11, WTG13, WTG14 and WTG18 are in second cluster, while the SSE is located in the Municipality of Pontelandolfo, nearly the existing substation RTN.



Figure 3-1 – Layout of all WTGs and SSE

<sup>2</sup> "Rete elettrica di Trasmissione Nazionale"

## 4 Contractual structure

The Project foresees a contractual structure, summarized in the following figure and table:

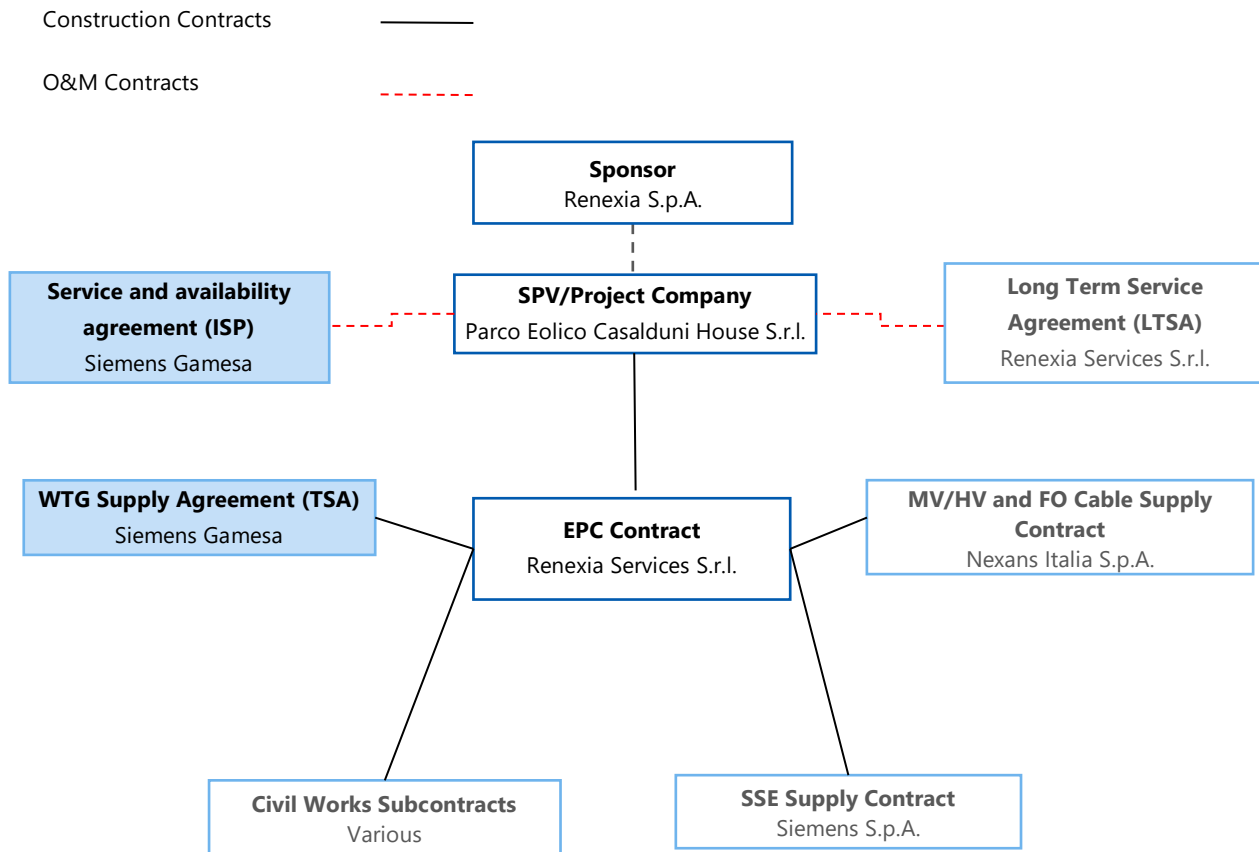


Table 4-1: Casalduni WTG Project Contracts

The new contractual scheme technically covers all the main activities related to the procurement, construction/erection/installation and testing of the Project. This structure will expose the EPC contractor to risks coming from their direct involvement on several responsibilities pertaining to transportation and WTG's towers supply and installation/testing.

## 4.1 Project Organizational Chart

The EPC Contractor Renexia Services S.r.l. has shared the following Organizational Chart highlighting the main roles and responsibilities of its resources during the Project execution:

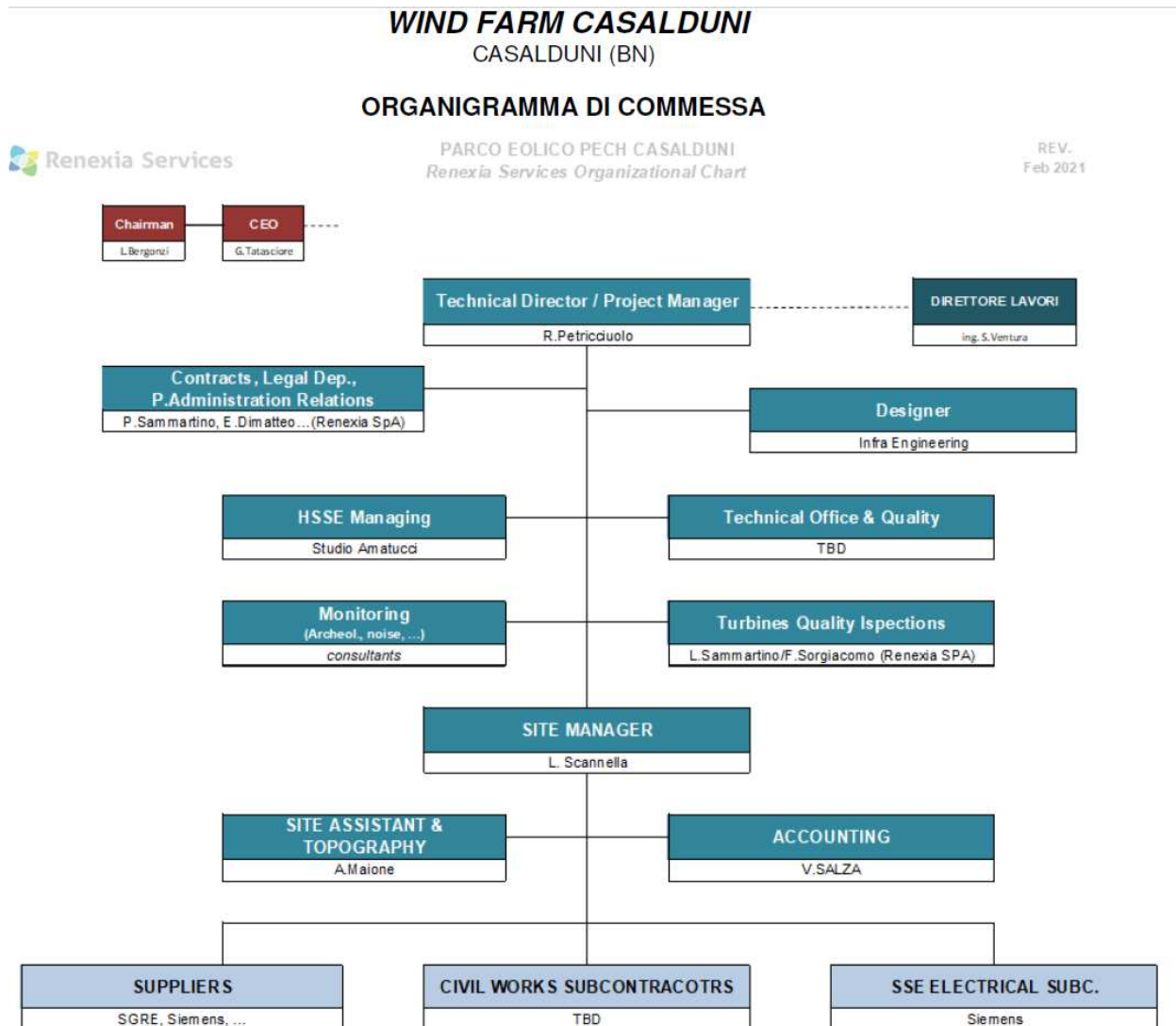


Table 4-2: Project Organizational Chart of EPC Contractor

This organisational structure is, in the TA's opinion, aligned with the industry standard.

## 5 Overall Project schedule

The dates of the construction milestones are reported in the overall project schedule of the Wind Farm provided to the TA at DD phase compared with the new timetable to be attached to the EPC amendment [2]:

Event	Planned Schedule [2]	Updated Schedule [1]	Updated Schedule Aug 21 [17]	Update Schedule and TA's comments
Construction Contracts	Done	Done	Done	The Notice to Proceed (NTP) signed in the mid of January 2021 between the EPC contract and the TSA (Siemens Gamesa).
UXO Survey	Partially Done	Done in June 2021	Done	
Start of Site Works	In the mid of May	End of July [Delay 2.5 months]	November 30, 2021 [Delay 3 months]	<p>After the obtainment of the Decree <i>Proroga VIA</i> on March 23, 2021. Renexia stated that Site Works will start at the end of July.</p> <p>The delay is due, according to Renexia, to the manufacturer SGRE being still unable to plan the delivery of materials to the construction site due to a landslide on the SS90, Km 48 + 500 and, despite the continuous contacts and meetings with ANAS, it has not yet been possible to find an alternative path that does not present other types of impediments. Contacts and meetings with ANAS managers are in progress.</p> <p><b>Risk medium   #1</b>The current Schedule assumes that the WTG transport permit will be obtained from ANAS by November 30, 2021. This, based on the TA's experience, is subject to uncertainty, due to the usually long waiting time required when dealing with ANAS. According to the above a follow up will be carried out by the TA to evaluate potential impacts and/or improvement on the project timing.</p>

WTGs delivery on site	From 09/09/2021 to 15/12/2021	From September 2021 to December 2021. <sup>3</sup> [Delay: -]	From January to April 2022. <sup>4</sup> [Delay: 4 months]	The WTG blades are on their way from China, with estimated arrival at the port of Naples by the end of September 2021.  See previous note for information on final site delivery.
MV Cables delivery on site	31/03/2021	July 2021 [Delay: 3 months]	From December 2021 to January 2022  [Delay: 5 months]	The MV Cable delivery on site is foreseen until January 2022, a delay of 5 months is observed on this procurement item, due to the delay on WTG delivery.  On this regard, the Sponsor informed that manufacturing of MV cables is complete in June, and the MV cables are available at manufacturer's facilities [1].
HV Cables delivery on site	1/09/2021	End of August 2021 [Delay: -]	January 2022 [Delay: 4 months]	The MV Cable delivery on site is foreseen until January 2022, a delay of 5 months is observed on this procurement item, due to the delay on WTG delivery.
WTGs foundation completion	6/10/2021	October 2021 [Delay: -]	February 2022 [Delay: 4 months]	Due to delay in WTG delivery.
20/150kV SSE Energization	10/11/2021	December 2021 [Delay: 1 month]	April 2022 [Delay: 4 months]	The energization of the Electrical Substation is foreseen in April 2022.
MV Cables and F.O: installation	From to 13/05/2021 to 27/10/2021	October 2021 [Delay: -]	June 2022 [Delay: 8 months]	Carried out by Nexans Italia S.r.l.  Due to delay in WTG delivery.
WTGs Erection	15/12/2021	December 2021 [Delay: -]	From January to April 2022 [Delay: 4 months]	The erection of the all WTGs will be completed on December 15, 2021.

<sup>3</sup> Confirmed by Renexia via mail on 29/07/21

<sup>4</sup> Confirmed by Renexia via mail on 29/07/21

Mechanical Completion WTGs	From 14/10/2021 to 19/01/2022	January 2022 [Delay: -]	May 2022 [Delay: 4 months]	Due to delay in WTG delivery.
WTGs Energization	From 16/12/2021 to 26/01/2022	January 2022 [Delay: -]	From April to May 2022 [Delay: 4 months]	According to the new schedule, the first WTG Energisation will occur on April 20, 2022
WTGs trial tests	From 27/01/2022 to 23/03/2022	March 2022 [Delay: -]	From May to June 2022 [Delay: 3 months]	The test run of the WTGs will be completed at the end of June 2022.
WTGs Take Over	From 17/03/2022 to 20/04/2022	April 2022 [Delay: -]	July 2022 [Delay: 3 months]	The WTGs Take Over is foreseen to be finalized on July 19, 2022
Wind Farm Take Over	27/04/2022	April 2022 [Delay: -]	July 2022 [Delay: 3 months]	The TO is foreseen to be on July 26, 2022 and will be delivered following the final inspection.

The pictures below <sup>5</sup> represent the landslide and the current impact on local viability

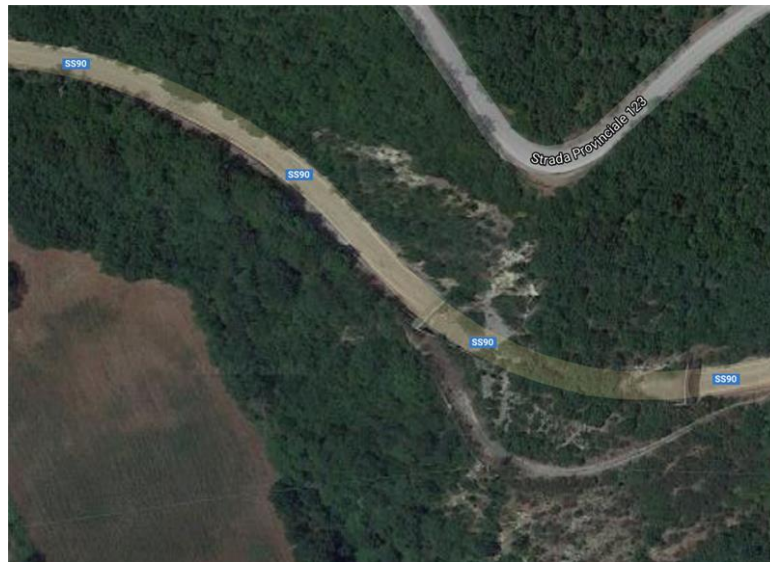


Figure 5-1 - Landslide on SS 90

<sup>5</sup> source: Google Maps, updated on March 2021



*Figure 5-2 - Landslide on SS 90*

**Risk medium** | #2With reference to the time schedule provided and updated in August 2021 the TA points out that the target of Wind Farm Take Over on July 2022 is at risk of not being achieved, mainly due to the delays in the obtainment of permits for WTG transportation, related to the presence of a landslide on SS90, km 480+500, as described above.

The TA notifies that, based on the updated project schedule, the Interconnection Date Deadline (February 10, 2022) as per definition in Terms and Conditions of the Notes will not be met by the project.

Moreover, the TA notes that, based on the updated project schedule, the Long Stop Date (July 31, 2022) as per definition in Terms and Conditions of the Notes would be met just 5 days in advance (July 26, 2022), subject to a hypothetical obtainment of WTG transport permit on November 30, 2021, which is yet to be confirmed by the involved authorities.

This schedule would allow the Project to be guaranteed the awarded Tariff without any penalties: the deadline to avoid a 1% reduction on the awarded Tariff for the projects awarded in third auction (in accordance with the DM July 4, 2019), whose ranking results were published in September 2020, was

extended to July 30, 2022 (an additional 218 days compared to the previous deadline, set on December 24, 2021 by DM July 4, 2019) due to the current COVID-19 emergency [9].

The TA notes that the buffer to meet this target (represented by the date of energization of the first WTG, currently foreseen for April 20, 2021) has considerably reduced to just three months. This point and possible mitigation actions will be further investigated in the next weeks, and following the starts of the site activities (July 2021).



## 6 Project Progress

The activities carried out so far can be summarized as follows:

- Completion of WTG executive design and seismic deposit. Ex Works of 5 WTGs out of 10
- Anchor bolts delivered on site;
- UXO testing carried out and certificates obtained

In the Reference Period (July-August 2021):

- Ex Works of 5 WTGs out of 10 was achieved;
- Executive design of User SS carried out, deposit in progress;
- Manufacturing of SS components has progressed, the Aux transformer will soon undergo FAT;
- MV cables have been manufactured, available at the manufacturer's deposit
- WTGs are being shipped from China and wil reach Italy by end of September.

## 7 Budget

The incurred construction costs amount, based on the EPC Contract milestones, are reported in the table below, as per the latest version of the Schedule, updated in August 2021 [17].

Month	SAL [k€]	%	Milestone
4 July 2019	10,954.3	26%	Advance payment EPC
Oct-19	-	0.0%	
Nov-19	-	0.0%	
Dec-19	-	0.0%	
<b>FY19</b>	<b>10,954.3</b>	<b>26.0%</b>	
Jul-20	-	0.0%	
Aug-20	-	0.0%	
Sep-20	-	0.0%	
Oct-20	-	0.0%	
Nov-20	-	0.0%	
Dec-20	1,053.3	2.5%	WTG Contract/SSE Contract
<b>FY20</b>	<b>1,053.3</b>	<b>2.5%</b>	
Jan-21	-	0.0%	
Feb-21	632.0	1.5%	Cable Supply Contract
Jun-21	842.6	2.0%	Cables EXW
Jun-21	2,527.9	6.0%	Site Delivery Anchor bolts
Jul-21	-	0.0%	
Aug-21	8,426.4	20.0%	No. 5WTG EXW batch 1
Sep-21	8,005.1	19.0%	No. 5WTG EXW batch 2
Oct-21	842.6	2.0%	Cables delivery on site
Oct-21	1,264.0	3.0%	Transformer EXW
Oct-21	1,264.0	3.0%	WTG Foundation completed – MW Cable and FO installation completed
Nov-21	-	0.0%	
Dec-21	-	0.0%	
<b>FY21</b>	<b>23,804.6</b>	<b>56.5%</b>	
Jan-22	1,264	3.0%	SSE Energization/Mechanical completion
Feb-22	-	0.0%	
Mar-22	842.6	2.0%	Definitive Platform and Roads completed
Apr-22	4,213.2	10.0%	Provisional acceptance
<b>FY22</b>	<b>6,319.8</b>	<b>15.0%</b>	

Tabella 7-1: EPC Contract Milestones status

As reported in the above **Tabella 7-1**, the milestone “No. 5 WTG EXW” was reached in the month of August, as proven by the related Milestone Certificates issued by the Sponsor between June, 25, 2021 and July, 27, 2021 [18]. For this reason, the TA has issued the relevant Draw-Down certificate #6 on August 6, 2021 [19].

Three payment milestones have been delayed (No. 5WTG EXW batch 2, Cables delivery on site, Transformer EXW) for the reasons explained in **Section 5**.

The Sponsor points out that the milestone No. 5WTG EXW batch 2 will be achieved in the first days of September.

## 8 Permitting and Lands rights

An updated status of the authorization process and events occurred in the Reference Period, related to permits and land rights, is provided in the following, based on the information provided by the PC report [1].

### 8.1 Permitting

The first partial testing BOB (UXO-unexploded ordinance) was obtained with issuance of the report of partial validation number 34 on January 25, 2021.

For the small areas occupied by SSE and WTG04 and the municipality roads, the submission of the request for second partial UXO test was carried out, and the UXO test was executed on May 20, 2021 [1], followed by the issuance of the report of partial validation number 226 on May 24, 2021.

The Seismic Authorization for the 8 WTGs were obtained, excepted for the WTG03 and WTG08, whose additional documents required by the Genio Civile have been delivered. The related authorization has been obtained by Genio Civile on May 3, 2021 [10]. Instead, the seismic authorization for the substation were deposited. The documentation about executive design of SS is complete. The deposit to Genio Civile is foreseen within September.

The obtainment of the EIA Decree of *Proroga* was on date March 24, 2021 [7], which acquired the positive opinions from the EIA commission of the MATTM and MIBACT. Within July the MITE (former MATTM) is expected to comply with the Decree of EIA Extension. After the compliance, site works will be initiated

### 8.2 Lands rights

The private parcels affected by the project were acquired through notary agreements already in August 2020. The payments related to the lands of the owners and/or deposit to MEF are at the phase of conclusion (90% of the payment done). The remaining part is expected to be finalized before the starting of the works. A detailed and updated report of the payments will be shared later by Renexia [3].

The land rights for provisional areas – mainly relative to the access of exceptional transport carriers - are foreseen to be completed between May-June, based on the works progress in the construction site, in order not to impact major site activities [3].

Province of Benevento: the concessions for cable duct installation were obtained on July 17, 2020 [8] and the related works for external roads adjustment on February 5, 2021 [5]

Pontelandolfo Municipality: the authorization for laying the cable duct was obtained on April 15, 2021 [4].

Casalduni Municipality: the authorization for the cable duct line is expected to be finalized in May [3].

ANAS: the authorization for the adjustment of external roads was obtained on March 29, 2021 [6], except for a minor intervention at Buonalbergo, whose authorization is awaited shortly according to Renexia [1].

In TA's opinion, this will not interfere with the Project schedule, as the start of WTGs delivery onsite is foreseen in November 2021 [1].

SGRE has not yet obtained the necessary transport authorizations since port to the construction site, due to the presence of a landslide along the way (see **Section 5**).

## 9 HSE

Safety and Coordination Plan were issued in April 2021 [1].

## 10 Site Visit

To be planned in accordance with new time schedule / progress of site activities. Considering the start of works within the end of November, the site visit is envisaged to be performed in the vicinity of that date.

## Key References

Doc. Ref.	Title	File Name	Version / Date
1	Construction Report	210831_report costruzione Casalduni	September 22, 2021
2	Time schedule	Renexia Services P.E.C.H. – Programme nov2020.pdf	February 23, 2021
3	Clarifications	Email 22.05.2021	May 22, 2021
4	Pontelandolfo Municipality Concession	Prot_Par 0003131 del 13-04-2021 - Documento CCF_000073.pdf	April 23, 2021
5	Province Benevento for roads adjustment concession	concessione 21 del 05022021 SP95.pdf concessione 22 del 05022021 SP87.pdf	April 23, 2021
6	ANAS authorization for roads adjustment	220882.pdf 220892.pdf	April 23, 2021
7	EIA Decree Proroga	ID_VIP_4993_Parere_SCVIA_n_128 (1).pdf MATTM_2020-0094513 (1).pdf	April 23, 2021
8	Province Benevento for cable duct line concession	UFFICIALE.2020.0017445_disciplinare.pdf p_bn.REGISTRO UFFICIALE.2020.0017474_disciplinare.pdf p_bn.REGISTRO UFFICIALE.2020.0017314_disciplinare.pdf	April 23, 2021
9	Extension of the deadline for the application of the 1% reduction of the tariff referred to in Article 7.3.a for plants registered in a useful position in the rankings formed pursuant to the third auction	Delibera Consiglio dei Ministri 31/01/2020, Delibera Consiglio dei Ministri 29/07/2020, Delibera Consiglio dei Ministri del 07/10/2020, Delibera Consiglio dei Ministri del 13/01/2021	January 13, 2021
10	Seismic authorisation for WTG03 and WTG08, issued by Genio Civile	NOTA PROT. N. 241414 DEL 04-05-2021_AutSism_3-18	May 4, 2021
11	SS works schedule by Siemens Energy	Programma Lavori elettromeccanici	June 15, 2021
12	Client's plan of SS works by Siemens Energy	Piano Della Committenza rev.00	June 15, 2021



Doc. Ref.	Title	File Name	Version / Date
13	Acceptance of Payment Schedule Amendment	FRAME - Amendment to the EPC Agreement (Acceptance)	July 14, 2021
14	Drawdown Certificate form Milestones "Cables EXW" and "Site Delivery Anchor Bolts"	LT 21 198.1_F454 - Casalduni WF_n.05 Draw Down Certificate_rev.1-signed	June 16, 2021
15	Amended Payment Schedule, July 2021	PECH_EPC milestone curve_july21_TP	July 14, 2021
16	SGRE EXW Certificate - WTG Blades	Exhibit E_Delivery Certificate Blades	June 30, 2021
17	Project Schedule updated, August 2021	Renexia Services P.E.C.H.- Programme Sept2021 REV1	August 31, 2021
18	Casalduni Draw-down certificate #6 - Milestone certificates and other attachments	LT 21 229_F454 - Annex 2	June-July 2021
19	Casalduni Draw-down certificate #6	LT 21 229_F454 - Casalduni WF_n.06 Draw Down Certificate-signed	August 6, 2021

## Abbreviations

BOP	Balance of Plant
CAPEX	Capital Expenditures
COD	Commercial Operation Date
EXW	EX Works ( <i>Franco Fabbrica</i> )
HV	High Voltage
IB	Installation Barge
IEC	International Electrotechnical Commission
JUV	Jacking-Up Vessel
kW	Kilowatt
kWh	Kilowatt-hour
LD	Liquidated Damage
LV	Low Voltage
MCR	Major Components Replacement
MLA	Mandated Lead Arranger
MP	Monopile
MW	Megawatt (1,000 kW)
MWh	Megawatt-hour (1,000 kWh)
MV	Medium Voltage
O&M	Operation and Maintenance
PC	Project Company
SCADA	Supervision Control and Data Acquisition
TA	Technical Advisor
TOC	Take Over Certificate
VAT	Value Added Tax
WF	Wind Farm
WTG	Wind Turbine Generator