



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 June 30, 2023.

Table of Contents

- 1 Executive Summary5
- 2 Background.....6
- 3 Introduction7
- 4 Contractual structure.....8
 - 4.1 Project Organizational Chart.....9
- 5 Overall Project schedule 10
- 6 Project Progress 13
- 7 Budget..... 15
- 8 Permitting and Lands rights..... 15
 - 8.1 Permitting..... 16
 - 8.2 Lands rights..... 16
- 9 HSE 17
- 10 Site Visit..... 18
- 11 Pictures Error! Bookmark not defined.
- Key References..... 19
- Abbreviations 20

1 Executive Summary

This construction report covers the period of June 2023 (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 June 30, 2023, the Site Visit performed on July 13, 2023 and the Q&A sessions.

Overall Progress

In the Reference Period, in accordance with the main planned works, the following activities have been observed:

- The transportation and installation of the WTGs has been completed during the Reference Period.
- MV cables installation is ongoing, about 30 out of 40 km have been laid.
- Minor civil works in the SSE are pending at the date of the issuance of this report, the substation energization is foreseen between the end of July and the beginning of August.

Budget

The TA has been informed that a new waiver request is under approval by the lenders. The variations would consist of setting new deadlines for the "Provisional Acceptance Certificate" milestone as well as splitting the "SSE Energization/Mechanical completion" milestone in two, each equal to 50% of the previous milestone. "SSE Energization" would require a new deadline while "Mechanical completion" has been achieved during the Reference Period¹.

Permitting and Land acquisition/concession

No updates in the Reference Period.

HSE

Nothing to report in the Reference Period.

Site Visit

During the site visit performed by the TA on July 13, 2023 no relevant issues have been noted. The main outcomes are reported in the Annex1_Site Visit Casalduni_13.07.23.

¹ LT 23 144 - F454 - MEC WTGs Milestone Certificate-signed.pdf

2 Background

The Casalduni WF (the "Project" or the "Wind Farm"), with a total capacity of 34.7 MW consisting of 10 Siemens-Gamesa² 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 WTG manufacturer Siemens Gamesa in 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

² Siemens Gamesa Renewable Energy, or SGRE

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 transfers the load directly on the terrain, for a total installed power of 34.65 MW;
- Execution of the MV cable ducts;
- Construction of the MV/HV electrical substation (SSE);
- Construction of the HV cable duct connected with the RTN³.

All the WTGs are located in Municipality of Casalduni, grouped into two clusters:

- WTG03, WTG04 and WTG05 belonging to the first cluster (south-east) and
- WTG08, WTG09, WTG10, WTG11, WTG13, WTG14 and WTG18 in second cluster (north-west).

The SSE is located in the Municipality of Pontelandolfo, nearly the existing RTN grid station.



Figure 3-1 – Layout of all WTGs and SSE

³ "Rete elettrica di Trasmissione Nazionale", High Voltage National Transmission Network

4 Contractual structure

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

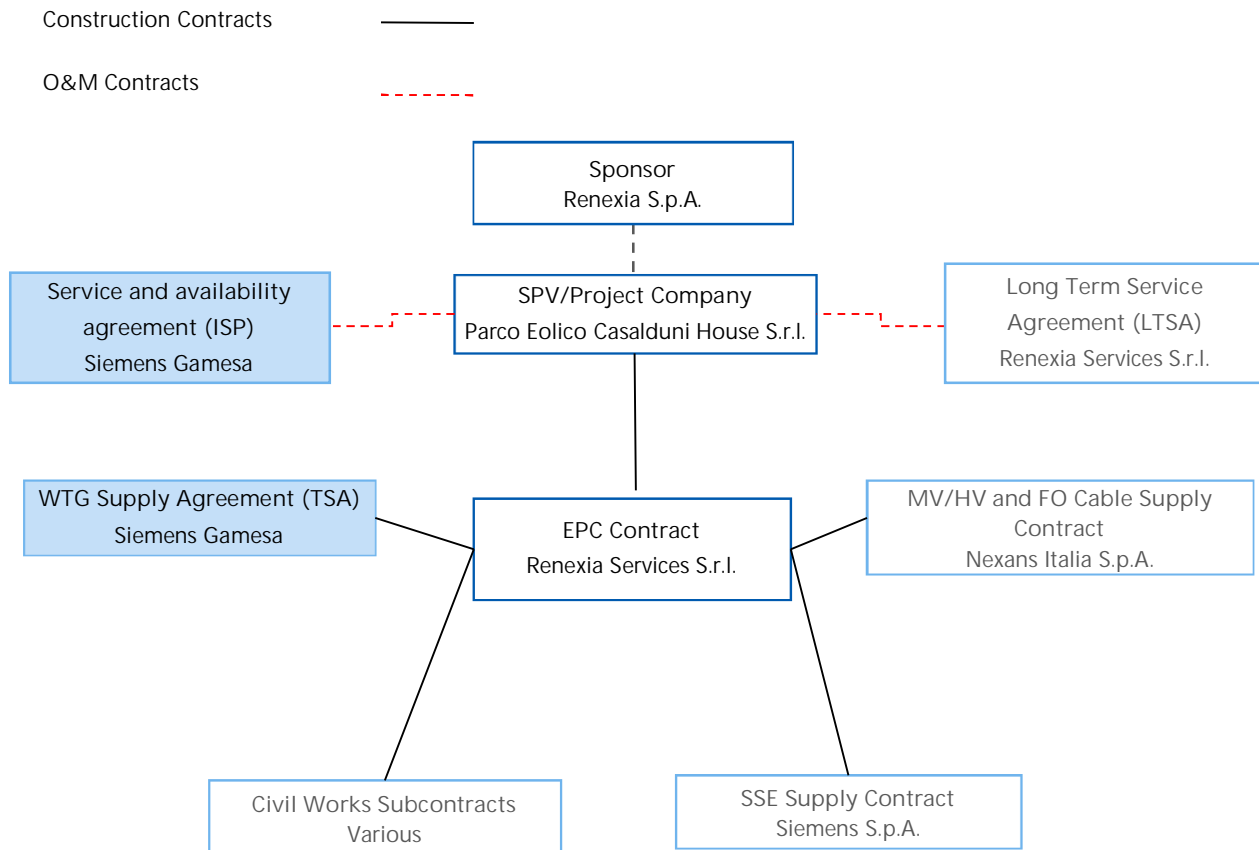


Table 4-1: Casalduni WTG Project Contracts

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:

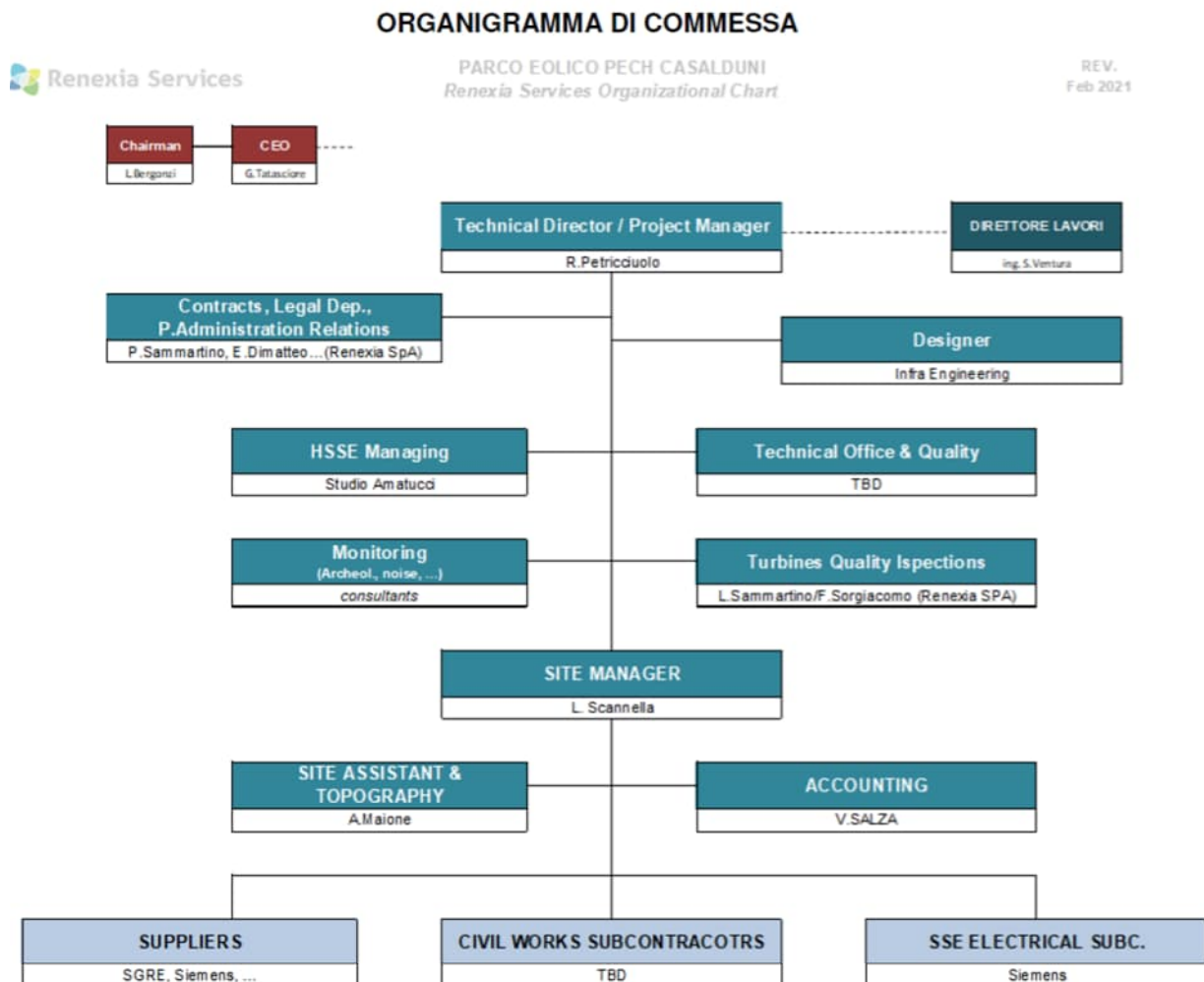


Table 4-2: Project Organizational Chart of EPC Contractor

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

5 Overall Project schedule

The dates of the construction milestones, reported in the overall project schedule of the Wind Farm provided to the TA at DD phase, are compared in the below table with the updated schedules.

Event	Planned Schedule [1]	Updated Schedule Feb 23 [2]	Updated Schedule Apr 23 [3]	TA's comments [4]
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	Done	
Start of Site Works	In the mid of May 2021	May, 2022 [Delay: 12 months]	May, 2022 [Delay: 12 months]	Renexia started the Site Works on April 27, 2022.
WTGs delivery on site	From 09/09/2021 to 15/12/2021	February 2022 to May 2023 [Delay: 17 months]	February 2022 to June 2023 [Delay: 18 months]	Completed during the Reference Period
MV Cables delivery on site	31/03/2021	February 2023	June 2023	All MV and Fiber Optic cables were delivered at the Casalduni site at the end of March 2022. Renexia reordered about 40km of stored cable, burned due to vandalism. The delivery has been completed.
WTGs foundation completion	6/10/2021	March 2023 [Delay: 17 months]	Done	The WTGs foundation completion milestone was met on March 31, 2023.
20/150kV SSE Energization	10/11/2021	May 2023 [Delay: 18 months]	June 2023 [Delay: 19 months]	The 20/150kV SSE Energization is scheduled for August 2023, with two months of delay compared to the previously estimation.
MV Cables and F.O. installation	From to 13/05/2021 to 27/10/2021	August 2022 to May 2023 [Delay: 16 months]	August 2022 to June 2023 [Delay: 17 months]	Carried out by Nexans Italia S.r.l. The activities, restarted in February 2023 after the stop due to the vandalism, will be completed by July 2023, with one month of delay compared to the previously estimation.

Event	Planned Schedule [1]	Updated Schedule Feb 23 [2]	Updated Schedule Apr 23 [3]	TA's comments [4]
WTGs Erection	15/12/2021	March to May 2023 [Delay: 14 months]	March to June 2023 [Delay: 15 months]	The erection of all WTGs has been completed during the Reference Period.
Mechanical Completion WTGs	From 14/10/2021 to 19/01/2022	April to July 2023 [Delay: 19 months]	April to July 2023 [Delay: 19 months]	The WTGs Mechanical Completion was met during the Reference Period ⁴ .
WTGs Energization	From 16/12/2021 to 26/01/2022	May to July 2023 [Delay: 17 months]	May to July 2023 [Delay: 17 months]	The first WTG Energization is expected by August 2023, with three months of delay compared to the previous estimation.
WTGs reliability tests	From 27/01/2022 to 23/03/2022	June to August 2023 [Delay: 17 months]	August to October 2023 [Delay: 19 months]	The reliability tests of the WTGs will start in August and completed by October 2023, with 2 months of delay compared to the previously estimation.
WTGs Take Over	From 17/03/2022 to 20/04/2022	July to September 2023 [Delay: 16 months]	August to October 2023 [Delay: 17 months]	The WTGs Take Over is foreseen to be finalized by October 2023, with one month of delay compared to the previously estimation.
Wind Farm Take Over	27/04/2022	End of September 2023. [Delay: 14 months]	End of November 2023. [Delay: 16 months]	The Take Over is foreseen by the end of November 2023, with 2 months of delay compared to the previously estimation.

It is noted that the Updated Interconnection Date Deadline (April 20, 2022) and the Long Stop Date (July 31, 2022), as per definition in the Waiver of Terms and Conditions of the Notes dated October 4, 2021, were not met.

As per the Waiver request approved by the Lenders, the Interconnection Date Deadline and the Long Stop Date were extended to May 31, 2023 and October 31, 2023, respectively. Based on the updated time

⁴ LT 23 144 - F454 - MEC WTGs Milestone Certificate-signed.pdf

schedule [4] these milestones are not expected to be met. The TA has been informed that a new waiver request is under approval by the lenders in order to set new milestones deadline.

The above schedule, however, 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 by a total of 553 days, equal to the period included between the date of publication of the rankings (24/09/2020) and the expiration of the state of emergency declared by Resolution of the Council of Ministers of 31/01/2020, 29/07/2020, 07/10/2020, 13/01/2021, 21/04/2021, Decree Law No. 105/2021 and Decree Law No.221/2021 (31/03/2022). Considering the above the new deadline is June 30, 2023. Moreover, according to the D.L. n.21/2022 (Decreto Ucraina), the GSE has implemented the possibility of extending the end of work by 12 months, shifting the deadline for the tariff by the same period. The TA has been informed that PECH requested and obtained the extension, hence the new deadline is June 30, 2024⁵.

The conditions for eligibility to the FIT are: (i) energization of the first WTG and (ii) Erection of all WTGs., whose combined achievement is currently foreseen for the end of May 2023 as per latest available Schedule, which is going to be subject to variations as described above in this Section.

⁵ email communication on February 24, 2023.

6 Project Progress

In the Reference Period, June 2023 [4]:

- The transportation and installation of the WTGs has been completed during the Reference Period.
- MV cables installation is ongoing, about 30 out of 40 km have been laid.
- Minor civil works in the SSE are pending at the date of the issuance of this report, the substation energization is foreseen between the end of July and the beginning of August.

Project Progress

The updated progress for the project activities has been reported by the PC on a monthly basis, with the break-down below illustrated in the below tables.

Cod.	Description	Weight	PROGRESS Monthly Act.	PROGRESS Cumulat. Act.	Overall Progress
		[%]	[%]	[%]	[%]
A	Civil Works	10.9	0.8	98.1	10.7
B	SSE & Electrical Cables Procurement	7.1	3.0	100.0	7.1
C	WTGs Procurement & Installation	78.5	2.5	99.0	77.7
D	Design & Management	3.5	1.4	96.8	3.4
	TOTAL	100.0	2.4	99.0	99.0

Table 6-1: Break-down of EPC progress by activities

The overall weighted progress until today has been of 99.0%, with a monthly progress of 2.4%.

Cod.	Description	Weight	PROGRESS	PROGRESS	Overall Progress
		[%]	Monthly	Cumulat.	
			Act.	Act	
			[%]	[%]	
A1	Concrete Supply - Foundation Plinths and Piles	18.0	-	100.0	18.0
A2	Inert Materials Supply	12.0	2.0	97.0	11.6
A3	Steel Supply - Foundation Plinths and Piles	20.0	-	100.0	20.0
A4	Earthmoving	18.0	0.0	99.6	17.9
A5	Foundation Piles Construction	3.0	-	100.0	3.0
A6	WTG Foundations	6.0	-	100.0	6.0
A7	Laying Fiber Optic Cables - including civil works	15.0	4.0	90.8	13.6
A8	Electrical Substation Civil Works	8.9	0.0	99.0	7.9
	Total	100.0	0.8	98.1	98.1

Table 6-2: Civil works progress detail

Cod.	Description	Weight	PROGRESS	PROGRESS	Overall Progress
		[%]	Monthly	Cumulat.	
			Act.	Act	
			[%]	[%]	
B1	Electrical Substation equipment Supply	70.0	-	100.0	70.0
B2	MV, FO and HV Cables Supply	30.0	10.0	100.0	30.0

Total	100.0	3.0	100.0	100.0
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Table 6-3: SSE & Electrical Cables Procurement progress detail

Cod.	Description	Weight	PROGRESS	PROGRESS	Overall Progress
		[%]	Monthly	Cumulat.	
			Act.	Act	
			[%]	[%]	
C1	Notice to proceed	20.0	-	100.0	20.0
C2	Delivery on site Anchor Bolts	10.0	-	100.0	10.0
C3	Ex-Works Delivery	60.0	-	100.0	60.0
C4	Installation & Take Over	10.0	25.0	100.0	10.0
Total		100.0	3.5	100.0	100.0

Table 6-4: WTGs Procurement & Installation progress detail

Cod.	Description	Weight	PROGRESS	PROGRESS	Overall Progress
		[%]	Monthly	Cumulat.	
			Act.	Act	
			[%]	[%]	
D1	Design & technical consulting	40.0	2.0	97.0	38.8
D2	Operations Management	60.0	1.0	96.7	58.0
Total		100.0	1.4	96.8	96.8

Table 6-5: Design & Management detail

7 Budget

The incurred construction costs, based on the EPC Contract milestones, are reported in the table below, as per the version of the schedule updated and approved at the beginning of February 2023.

Month	SAL [k€]	%	Milestone
Milestones achieved			
4 July 2019	10,954.3	26.0%	Advance payment EPC
FY19	10,954.3	26.0%	
Dec-20	1,053.3	2.5%	WTG Contract/SSE Contract
FY20	1,053.3	2.5%	
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
Aug-21	8,426.4	20.0%	No. 5 WTGs EXW batch 1
Nov-21	8,005.1	19.0%	No. 5 WTGs EXW batch 2
Dec-21	1,264.0	3.0%	Transformer EXW
FY21	21,698.0	51.5%	
Aug-22	842.6	2.0%	Cables delivery on site
Dec-22	842.6	2.0%	WTG Foundation 50% completed
FY22	1,685.2.8	4.0%	
Mar-23	842.6	2.0%	Transformer delivery on site
Mar-23	842.6	2.0%	WTG Foundation 100% completed
Milestones not yet achieved			
May-23	842.6	2.0%	SSE Energization/Mechanical completion
Sep-23	4,213.2	10.0%	Provisional Acceptance Certificate
FY23	6,741.0	16.0%	

Tabella 7-1: EPC Contract Milestones status

The TA has been informed that a new waiver request is under approval by the lenders. The variations would consist of setting new deadlines for the "Provisional Acceptance Certificate" milestone as well as splitting the "SSE Energization/Mechanical completion" milestone in two, each equal to 50% of the previous milestone. "SSE Energization" would require a new deadline while "Mechanical completion" has been achieved during the Reference Period⁶.

⁶ LT 23 144 - F454 - MEC WTGs Milestone Certificate-signed.pdf

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.

8.1 Permitting

Nothing to report in the Reference Period.

8.2 Lands rights

Nothing to report in the Reference Period.

9 HSE

The TA is not aware of any HSE issue in the Reference Period.

No HSE reports have been provided to the TA.

10 Site Visit

During the site visit performed by the TA on July 13, 2023 no relevant issues have been noted. The main outcomes are reported in the Annex1_Site Visit Casalduni_13.07.23.

Key References

Doc. Ref.	Title	File Name	Version / Date
1	Time schedule	Renexia Services P.E.C.H. – Programme nov2020.pdf	February 2021
2	Project Schedule updated, February 2023	Revised Draft Timetable.xlsm Casalduni - Energization Programme.pdf	February 2023
3	Project Schedule updated, April 2023	Copia di Planning WF_Casalduni 10 x G132 T114 3465MW April Draft.pdf	April 2023
4	Construction Report June 2023	20230630_report costruzione Casalduni clean.pdf	June 30, 2023

Abbreviations

BOP	Balance of Plant
CAPEX	Capital Expenditures
COD	Commercial Operation Date
EPC	Engineering Procurement and Construction
EXW	EX Works (<i>Franco Fabbrica</i>)
HV	High Voltage
IEC	International Electrotechnical Commission
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
RTN	<i>"Rete elettrica di Trasmissione Nazionale"</i> , High Voltage National Transmission Network
SCADA	Supervision Control and Data Acquisition
SSE	<i>"Sotto-stazione Elettrica"</i> , electrical substation
TA	Technical Advisor
TOC	Take Over Certificate
VAT	Value Added Tax
WF	Wind Farm
WTG	Wind Turbine Generator