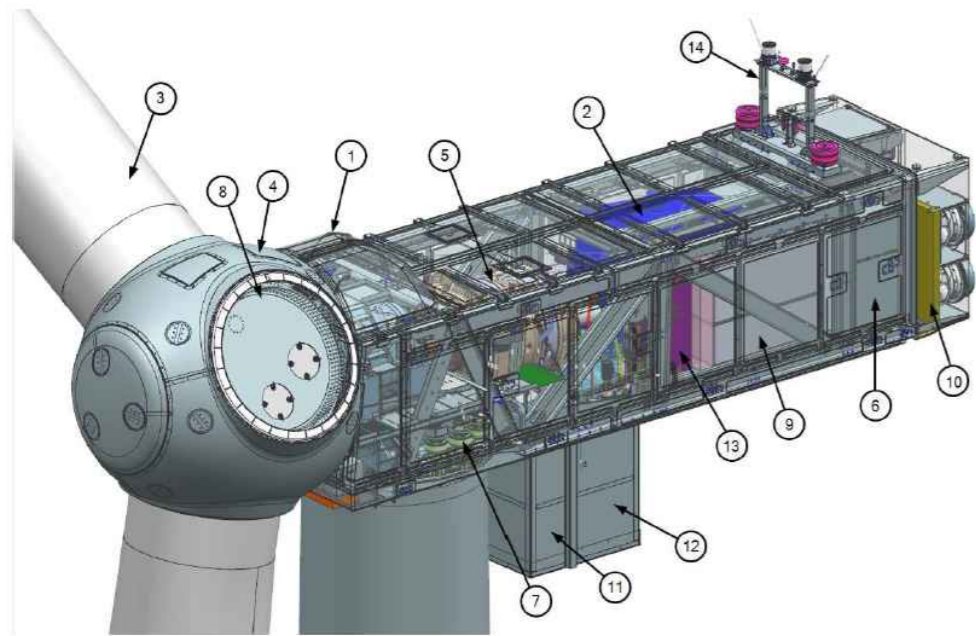


Item	Description	Item	Description
1	Canopy	7	Yaw gear
2	Generator	8	Blade bearing
3	Blades	9	Converter
4	Spinner/hub	10	Cooling
5	Gearbox	11	Transformer
6	Control panel	12	Stator cabinet.
		13	Front Control Cabinet
		14	Aviation structure

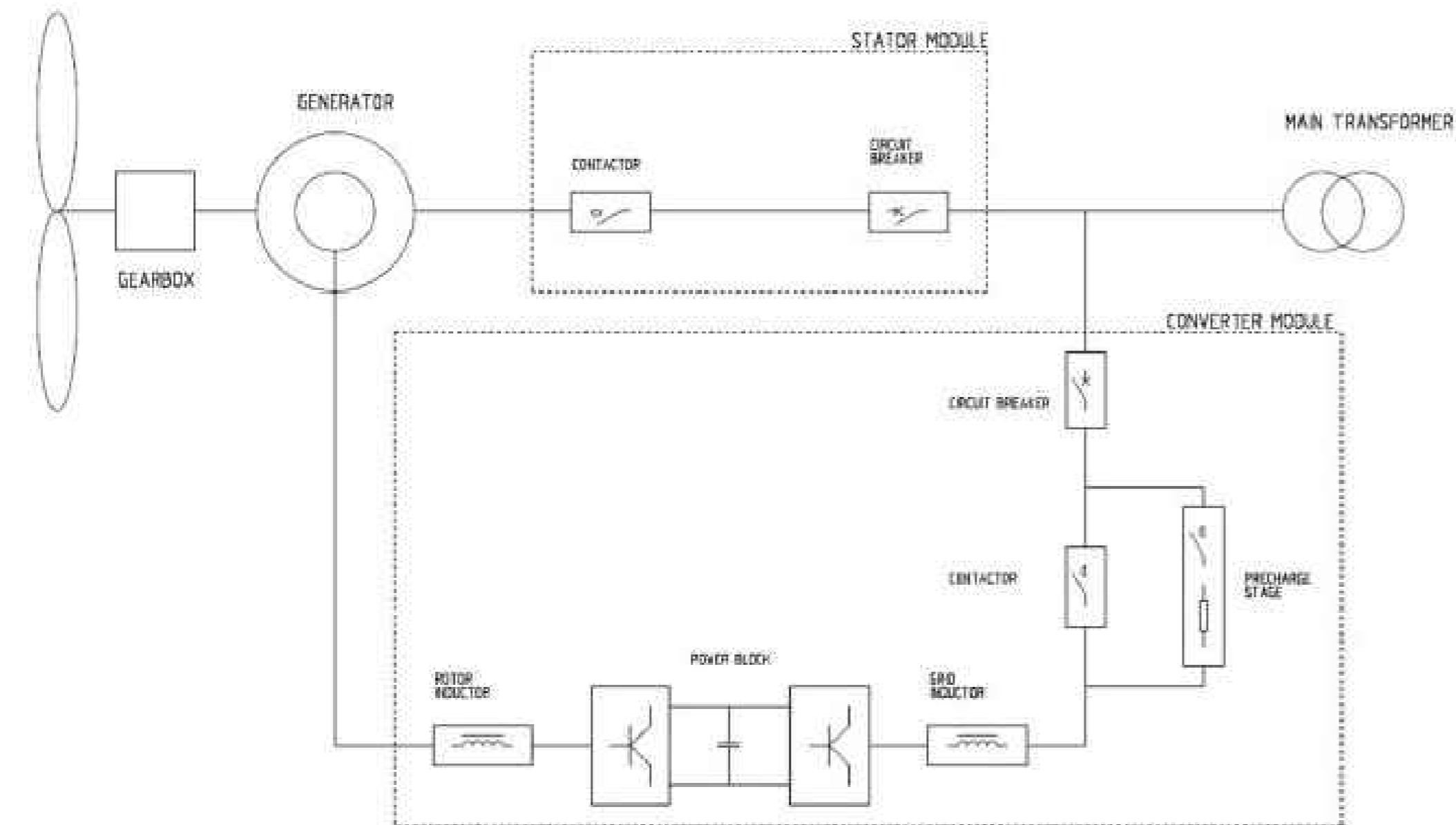


14. Electrical Specifications

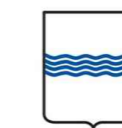
Nominal output and grid conditions		Grid Capabilities Specification	
Nominal power	6200 kW	Nominal grid frequency	50 or 60 Hz
Nominal voltage	690 V	Minimum voltage	85 % of nominal
Power factor correction	Frequency converter control	Maximum voltage	113 % of nominal
Power factor range	0.9 capacitive to 0.9 inductive at nominal balanced voltage	Minimum frequency	92 % of nominal
		Maximum frequency	108 % of nominal
		Maximum voltage imbalance (negative sequence of component voltage)	≤5 %
		Max short circuit level at controller's grid	
		Terminals (690 V)	82 kA
Generator		Power Consumption from Grid (approximately)	
Type	DFIG Asynchronous	At stand-by, No yawing	10 kW
Maximum power	6350 kW @30°C ext. ambient	At stand-by, yawing	50 kW
Nominal speed		Controller back-up	
	1120 rpm-6p (50Hz) 1344 rpm-6p (60Hz)	UPS Controller system	Online UPS, Li battery
Generator Protection		Back-up time	1 min
Insulation class	Stator H/H	Back-up time Scada	Depend on configuration
Winding temperatures	6 Pt 100 sensors	Transformer Specification	
Bearing temperatures	3 Pt 100	requirement	8.5 % - 10.5%
Slip Rings	1 Pt 100	Secondary voltage	690 V
Grounding brush	On side no coupling	Vector group	Dyn 11 or Dyn 1 (star point earthed)
Generator Cooling		Earthing Specification	
Cooling system	Air cooling	Earthing system	Acc. to IEC62305-3 ED 1.0:2010
Internal ventilation	Air	Foundation reinforcement	Must be connected to earth electrodes
Control parameter	Winding, Air, Bearings temperatures	Foundation terminals	Acc. to SGRE Standard
Frequency Converter		HV connection	
Operation	4Q B2B Partial Load PWM		HV cable shield shall be connected to earthing system
Switching	2.5 kHz		
Switching freq., grid side	Liquid/Air		
Cooling			
Main Circuit Protection			
Short circuit protection	Circuit breaker		
Surge arrester	varistors		
Peak Power Levels			
10 min average	Limited to nominal		



15. Simplified Single Line Diagram



REGIONE
BASILICATA



COMUNE DI
VENOSA



COMUNE DI
LAVELLO



COMUNE DI
MONTEMILONE



Provincia POTENZA



PROVINCIA DI POTENZA

PROGETTO DEFINITIVO PER LA REALIZZAZIONE DI UN IMPIANTO EOLICO DENOMINATO "CE MONTEMILONE" COSTITUITO DA 8 AEROGENERATORI CON POTENZA COMPLESSIVA DI 48 MW E RELATIVE OPERE DI CONNESSIONE ALLA R.T.N.

SCHEMI FUNZIONALI DEI SINGOLI
AEROGENERATORI

ELABORATO

A.16.b.3

PROPONENTE:

**ABEI ENERGY
GREEN ITALY II SRL**
16335491003

**ABEI ENERGY
GREEN ITALY II S.R.L.**
Via Vincenzo Bellini, 22
00198 Roma (RM)
pec: abeienergygreenitaly2@legalmail.it

PROGETTO:

ATECH
SOCIETÀ DI INGEGNERIA &
SERVIZI PER L'INGEGNERIA

ATECH srl
Via della Resistenza 48
70125-Bari (BA)
pec: atechsrl@legalmail.it

Il DIRETTORE TECNICO
dott. Ing. Orazio Tricarico

**Studio di Impatto Ambientale,
Geologia, Paesaggio:**

**Environment
Engineering
Energy**
STUDIO DI CONSULENZA

Via Sergio Amidei, 43 - 00128 Roma - Italy
tel (+39) 06.50.79.64.16 - fax (+39) 06.94.80.36.43
www.studiodiconsulenza3e.it
info@studiodiconsulenza3e.it

**Il Responsabile del Gruppo di
Progettazione Ambientale**
Dott. Geol. Andrea RONDINARA
Il Geologo
Dott. Geol. Andrea RONDINARA
Dott. Geol. Davide PISTILLO
Paesaggio
Dott. Arch. Vincenzo BONASORTA



dott. Ing. Alessandro Antezza



0	APRILE 2022	B.C.C.	A.A. - O.T.	A.A. - O.T.	Progetto Definitivo
EM./REV.	DATA	REDATTO	VERIFICATO	APPROVATO	DESCRIZIONE