

PROGETTO DI IMPIANTO FOTOVOLTAICO A TERRA DENOMINATO "SUNI/PISANU"

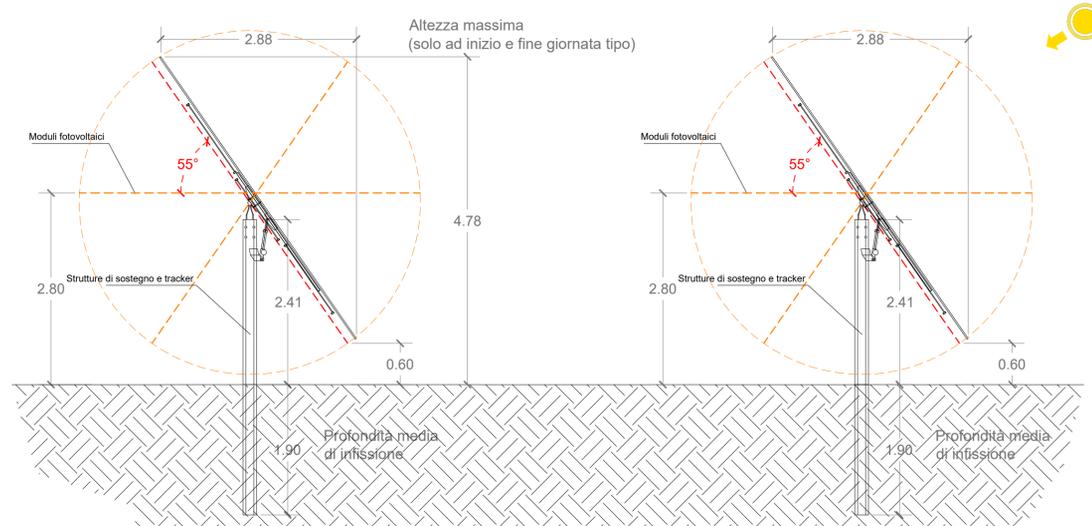
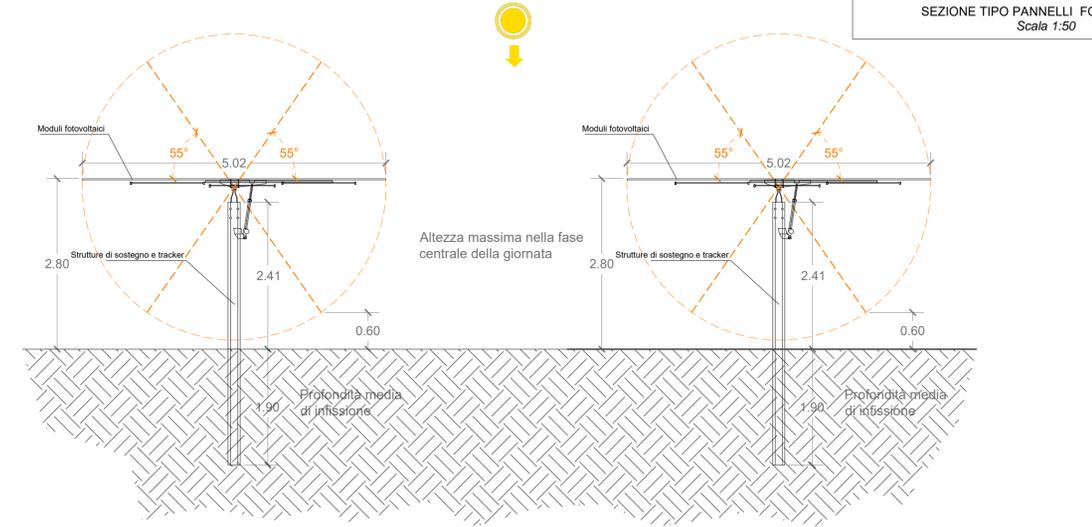
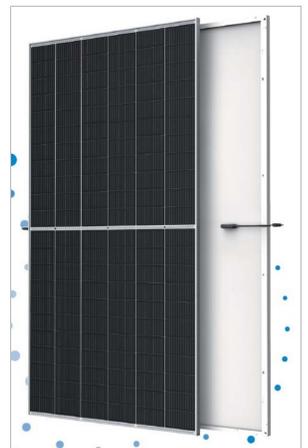
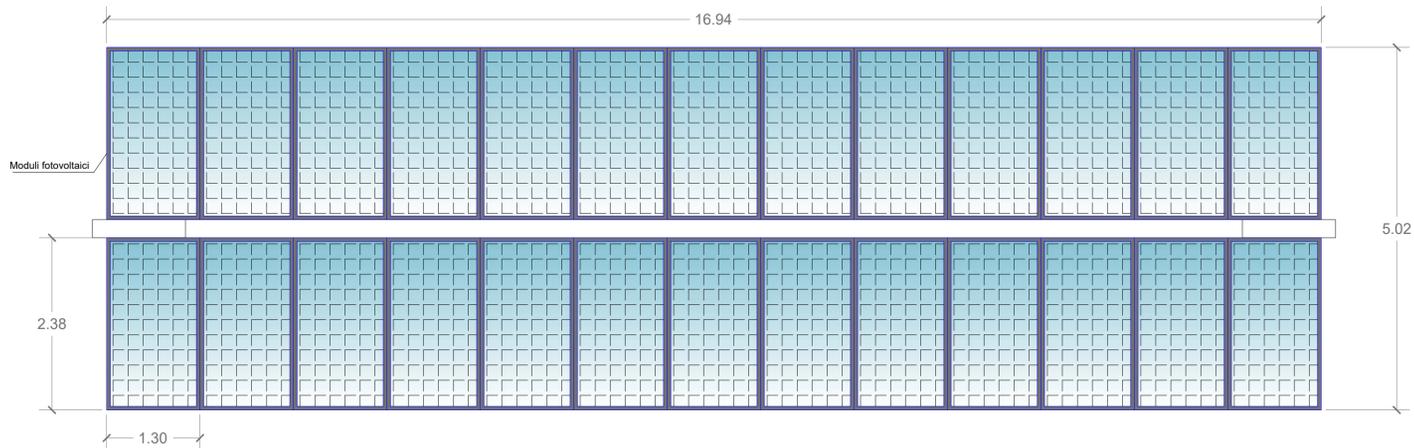
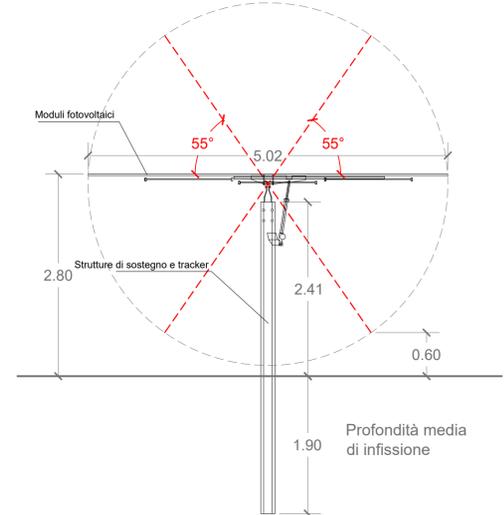
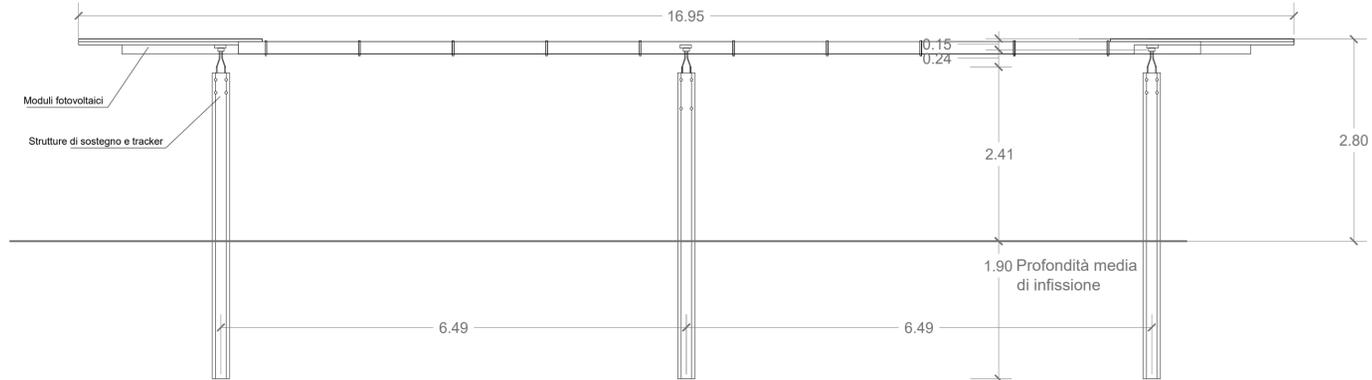
Potenza installata 14,615 MWp.

PROGETTO DEFINITIVO

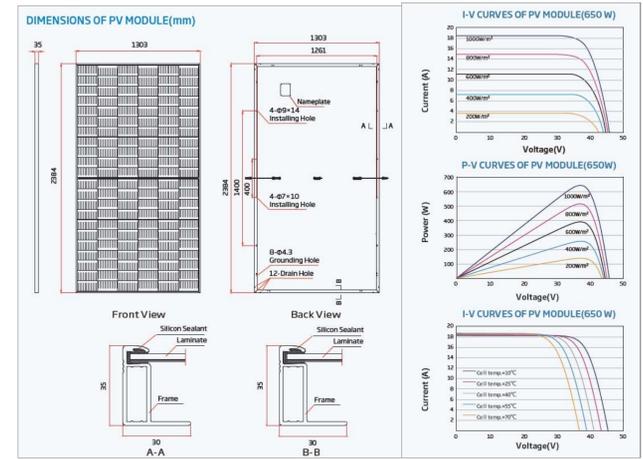
Elaborato n.
18

Dettagli dei moduli fotovoltaici scala 1:50

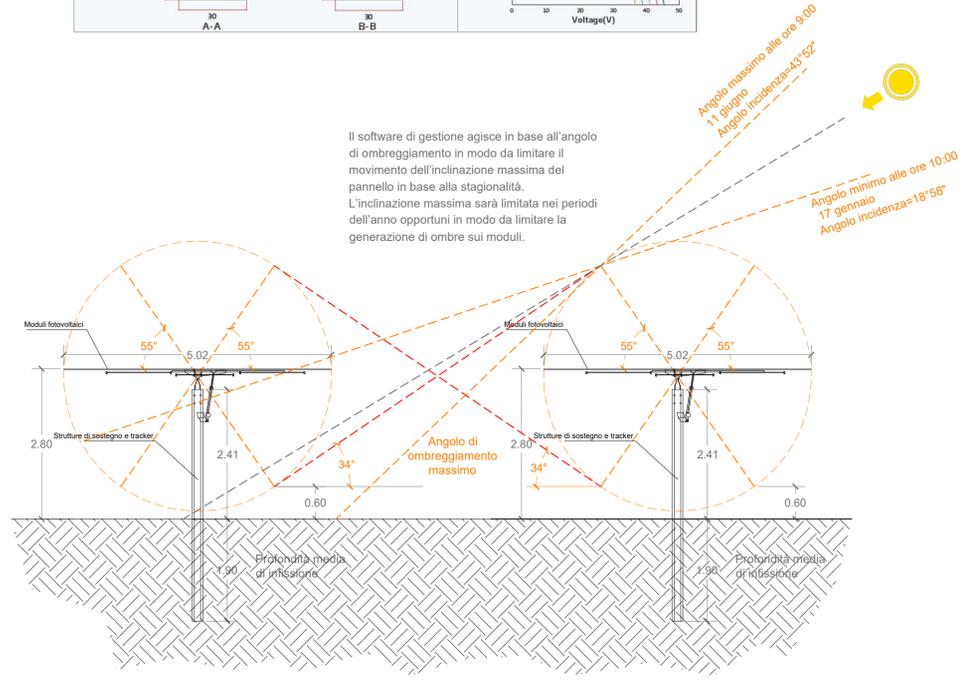
COMMITTENTE:	Progetto di fattibilità	Dicembre 2020
ECOSARDINIA 3 s.r.l. Via Alessandro Manzoni 30 20121 Milano P.IVA 11117520962 pec: ecosardinia3srf@legalmail.it	Progetto definitivo opere di rete	Ottobre 2021
	Revis. Progetto definitivo opere di rete	Febbraio 2022
	VIA e Progetto definitivo	Aprile 2022
IDEAZIONE E COORDINAMENTO GENERALE		
NORD OVEST WIND s.r.l. Corso Italia 11/B 12084 MONDOVI (CN) pec: nordovestwind@legalmail.it		
TECNICI INCARICATI:		
STUDIO DI PROGETTAZIONE Studio Ing. Antonio Capellino Corso Armando Diaz 23/1 - 12084 MONDOVI (CN) tel: +39 0174 551247 e-mail: info@studiocapellino.it pec: antonio.capellino@ingpec.eu		
ORDINE DEGLI INGEGNERI DELLA PROVINCIA DI CUNEO A647 Dott. Ing. Antonio Capellino		
STUDIO DI PROGETTAZIONE Dott. For. Giorgio COLOMBO Via S. Agostino, 13 - 12084 MONDOVI (CN) tel: +39 0174 46906 e-mail: studiogiorgiocolombo@gmail.com pec: g.colombo@sepap.conafpec.it		



SEZIONE TIPO PANNELLI FOTOVOLTAICI
Scala 1:50



Il software di gestione agisce in base all'angolo di ombreggiamento in modo da limitare il movimento dell'inclinazione massima del pannello in base alla stagionalità. L'inclinazione massima sarà limitata nei periodi dell'anno opportuni in modo da limitare la generazione di ombre sui moduli.



ELECTRICAL DATA (STC)						
Peak Power Watts-Pmax (Wp)*	645	650	655	660	665	670
Power Tolerance-Pmax (W)	0 ± 5%					
Maximum Power Voltage-Vmp (V)	37.2	37.4	37.6	37.8	38.0	38.2
Maximum Power Current-Imp (A)	17.35	17.39	17.43	17.47	17.51	17.55
Open Circuit Voltage-Voc (V)	45.1	45.3	45.5	45.7	45.9	46.1
Short Circuit Current-Isc (A)	18.39	18.44	18.48	18.53	18.57	18.62
Module Efficiency η (%)	20.8	20.9	21.1	21.2	21.4	21.6
*STC: irradiance 1000W/m², cell temperature 25°C, air mass 1.5, measuring tolerance ± 1%.						
ELECTRICAL DATA (NOCT)						
Maximum Power-Pmax (Wp)	488	492	496	500	504	508
Maximum Power Voltage-Vmp (V)	34.8	34.9	35.1	35.3	35.4	35.6
Maximum Power Current-Imp (A)	14.05	14.09	14.13	14.17	14.22	14.26
Open Circuit Voltage-Voc (V)	42.5	42.7	42.9	43.0	43.2	43.4
Short Circuit Current-Isc (A)	14.82	14.86	14.89	14.93	14.96	15.01
*NOCT: irradiance at 800W/m², ambient temperature 20°C, wind speed 1m/s.						
MECHANICAL DATA						
Solar Cells	Monocrystalline					
No. of cells	132 cells					
Module Dimensions	2384x1303x35 mm (93.86x51.30x1.38 inches)					
Weight	33.6 kg (74.1 lb)					
Glass	3.2 mm (0.13 inches), high transmission, AR coated heat strengthened glass					
Encapsulant material	EVA					
Backsheet	White					
Frame	35mm(1.38 inches) Anodized Aluminium Alloy					
J-Box	IP 68 rated					
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches), Portrait: 280/280 mm (11.02/11.02 inches), Length can be customized					
Connector	MC4 EVO2 / TS4*					
*Please refer to separate datasheet for specific connector.						
TEMPERATURE RATINGS			MAXIMUM RATINGS			
NOCT (Nominal Operating Cell Temperature)	43°C (±2°C)		Operational Temperature	-40 ~ +85°C		
Temperature Coefficient of Pmax	-0.34%/°C		Maximum System Voltage	1500V DC (IEC)		
Temperature Coefficient of Voc	-0.25%/°C		Temperature Coefficient of Isc	0.04%/°C		
Temperature Coefficient of Isc	0.04%/°C		Max Series Fuse Rating	30A		
WARRANTY			PACKAGING CONFIGURATION			
12 year Product Workmanship Warranty			Modules per box:	31 pieces		
25 year Power Warranty			Modules per 40' container:	558 pieces		
2% first year degradation						
0.55% Annual Power Attenuation						
(Please refer separate warranty for details)						