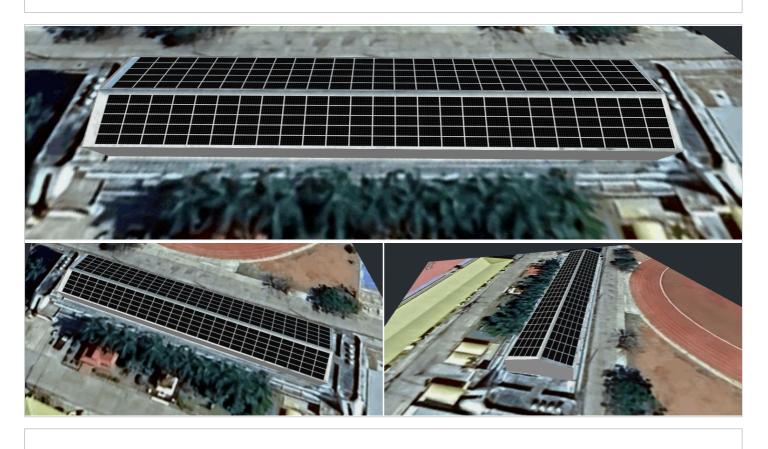
ตำบล เมืองคง, 30260, Thailand | Sep 17, 2024





NOTIFICATIONS

Warning: This design contains power optimizers with PV modules in different azimuth/tilt, this may result in significant energy losses that are not reflected in this report. It is highly recommended to change the site design for optimal production.

SYSTEM OVERVIEW



250 PV modules



2 Inverters



125 Optimizers

SIMULATION RESULTS



Installed DC Power

156.25 kWp



Max Achieved AC Power

132.00 kw



Annual Energy Production

207.81 MWh



CO2 Emission Saved (Annually) 81.46 t



Equivalent Trees Planted (Annually) 3,742



Max Achieved DC Power

156.25 kW



DC/AC Oversizing

87%



Max Active AC Power

180.00 kw



Performance Ratio

75%

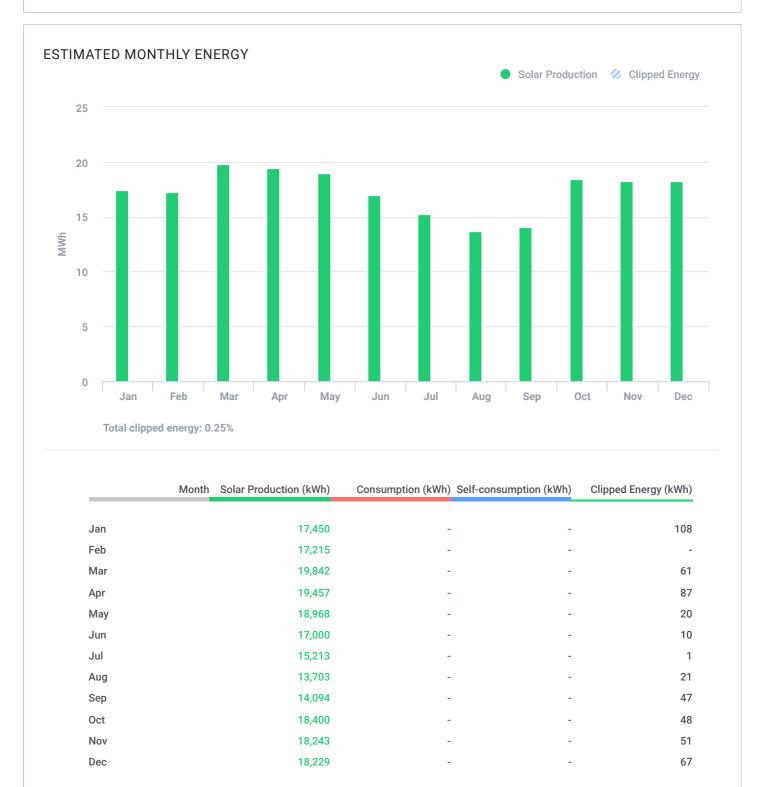


Performance Index

1,330 kWh/kWp

โรงเรียนเมืองคง ตำบล เมืองคง, 30260, Thailand | Sep 17, 2024





PV MODUL	LES					
# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
125	JinkoSolar Holding Co. Ltd., JKM625N-78HL4-BDV (user-defined)	78.1 kWp			208°	12°



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PV MODULES (CONTINUED) # Module Model Peak power Racking type Orientation Azimuth JinkoSolar Holding Co. Ltd., JKM625N-78HL4-BDV 13° 125 78.1 kWp 28° (user-defined) Total: 250 156.3 kWp

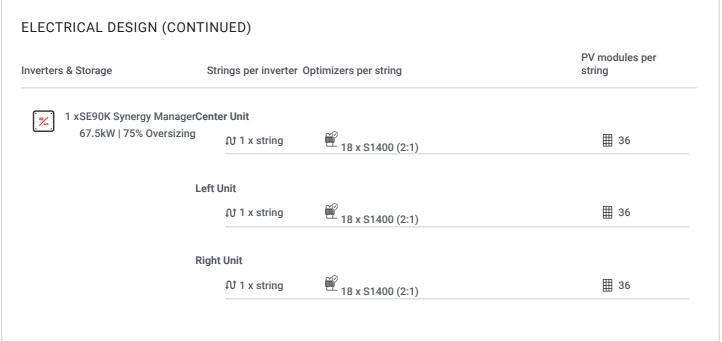
BILL OF MATERIALS (BO	DM)			
Items	Part Number	Quantity	Price (B)	Total (₿)
SE90K Synergy Manage	r	2		
\$1400		125		
JKM625N-78HL4-BDV		250		

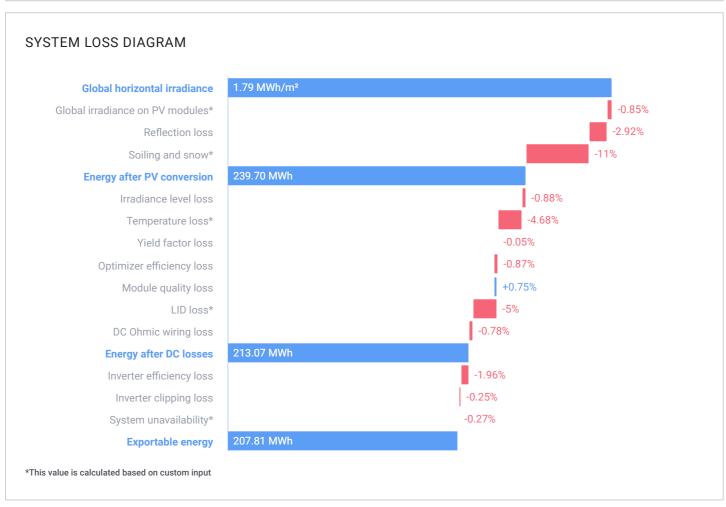
erters & Storage	Strings per inverter	Optimizers per string	PV modules per string
1 xSE90K Synergy Manag	gerCenter Unit		
88.75kW 99% Oversi	zing	15 x S1400 (2:1)	■ 30
	₩ 1 x string	20 x S1400 (2:1)	Ⅲ 40
	Left Unit		
	₩ 1 x string	18 x S1400 (2:1)	■ 36
	Right Unit		
	↑ 1 x string	18 x S1400 (2:1)	⊞ 36



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Site ID: 4067680260491125

SIMULATION PARAMETERS



Time zone	GMT+7 (Bangkok)
Weather station	Chaiyaphum (51.28 km away)
Station altitude	183 m
Station data source	Meteonorm 7.1
Grid	400V L-L, 230V L-N



Near shading	Enabled
Albedo	0.60
Bi-Facial Albedo	0.30
Soiling/Snow	11%
Incidence angle modifier (IAM), ASHRAE b0 pa	ram. 0.05
Thermal loss factor Uc (const) Flush mount	35
Thermal loss factor Uc (const) Tilted	29
LID loss factor	5%
System unavailability	0.2% (in 3 periods)