## CLEAN ENERGY INVESTMENT ACCELERATOR

Sector Wide Advancement Toolkit 2 Attachment: Global Solar Atlas Tool User Walkthrough





WORLD Resources Institute





## Overview of Steps

- 1. Go to Global Solar Atlas Website
- 2. Enter geographic coordinates of site
- 3. Choose the medium size commercial option
- 4. Toggle PV system configuration based on site characteristics and record annual PV output
- 5. Download report
- 6. Record monthly PV output from report

### 1. Go to Global Solar Atlas Website



#### Go to https://globalsolaratlas.info/map



### 2. Enter geographic coordinates of website



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### 3. Choose the medium size commercial option

- On the dashboard to the right, choose medium size commercial (bottom arrow).
- Note that the dashboard already provides an estimate of the locations PV output per kWp (top arrow)

Ma	ap data			Per year 🝷	
0	Specific photovoltaic power output	PVOUT specific	1432.5	kWh/kWp 🎽	
	Direct normal irradiation	DNI	1195.8	kWh/m² ▼	
	Global horizontal irradiation	GHI	1787.7	kWh/m <sup>2</sup> *	
	Diffuse horizontal irradiation	DIF	920.1 kWh/m <sup>2</sup> *		
	Global tilted irradiation at optimum angle	GTI opta	1820.1	kWh/m² ▼	
	Optimum tilt of PV modules	ΟΡΤΑ	12/180	•	
	Air temperature	TEMP	27.8	°C 🔻	
	Terrain elevation	ELE	11	m *	
сн	OOSE PV SYSTEM TO CALCULA	TE ENERGY	YIELD	^	
(					



# 4. Toggle PV system configuration based on site characteristics and record annual PV output



- Users can change the azimuth, tily, and capacity of the projected PV system by clicking "Change PV system" (top arrow)
- Users should record the total annual projected PV output (middle arrow)
- Users should then click "Open detail" to get more detailed results (bottom arrow)



### 5. Download report



## On the next page that comes up, users should click on "reports to download the PV output report

÷	- Project detail								
	Ho Chi Minh City 10.782685°,106.689507° ~ Le Quy Don Street, Ho Chi Minh Ci Time zone: UTC+07, Asia/Ho_Chi	ty, Vietnam "Minh [IDT]							
		Reports							
	SITE INFO								^
	Map data				Per year 👻	Мар			Swich to map
	Direct normal irradiation	DNI	1195.8	kWh/m² ▼					
	Global horizontal irradiation	GHI	1787.7	kWh/m² ▼		- Aller	TO X		
	Diffuse horizontal irradiation	DIF	920.1	kWh/m <sup>2</sup> *		- North	L'SX		
	Global tilted irradiation at optimum angle	GTI opta	1820.1	kWh/m² ▼				XXX	10 311 -
	Optimum tilt of PV modules	OPTA	12/180	*					
	Air temperature	TEMP	27.8	°C *		The start	The second		
	Terrain elevation	ELE	11	m *		500 m			

Leaflet | Satellite tiles © Esri

Horizon and sunpath

Solar azimuth [°]



### 6. Record monthly PV output from report

User should now go to the "monthly\_averages" tab in the downloaded report and record the monthly PV output under the "PVOUT\_total" column

Monthly av	erages									
		PVOUT_total	DNI							
	/_	kWh	kWh/m²							
Jan	122.3	12228.7	110.3							
Feb	129.6	12958	130.1							
Mar	142.7	14271.6	134.6							
Apr	128.2	12820.4	115.2							
May	113.2	11323.6	100.1							
Jun	100.5	10054.6	81.9							
Jul	104.3	10426.4	82.4							
Aug	109.7	10970.4	84.2							
Sep	101.9	10194.8	72.3							
Oct	111.9	11187.2	88.1							
Nov	113.5	11354.3	102.8							
Dec	114.5	11445.1	98.8							
Yearly	1392.3	139234.9	1200.7							
l ▶ 0	Overview Monthly_averages Hourly_profiles Glossary +									
Ready										





## Users now have both the annual and monthly PV outputs from Global Solar Atlas!