



# OPPORTUNITIES IN THE ALGERIAN MARKET

Global Solar Finance & Investment  
Emerging PV Markets Summit

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# About us

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# Who we are



Passion for  
renewable  
energies

Hands-on  
approach

Experience  
and Insight

Building long  
lasting  
relationships

Project development company and advisory boutique firm specialised in renewable energy projects in Africa and the Middle East

Dedicated to carrying out project development on our own or with local/international partners in emerging markets

Been present in Algeria since 2013

Been developing utility scale solar PV projects as well as rooftop and hybrid solutions for C+I market

# Energy overview

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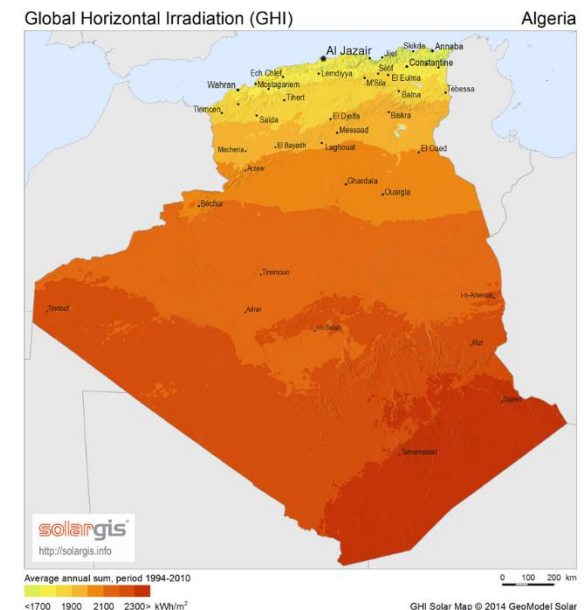
# Algeria context

- Growing domestic demand for electricity has been constantly rising in the last five years, driven mainly by household consumption, with the country record annual rise of 13.6% in 2015. Electricity consumption is anticipated to reach 75 to 80 TWh in 2017 and attain 130 to 150 TWh in 2030.
- Electricity production in Algeria is principally achieved by the conversion of natural gas (well over 90%). At the current rate, the level of natural gas volumes, produced for the domestic energy market would need to be 45 billion m3 in 2020 and 55 billion m3 in 2030.



Average solar energy of  
**5.70 kWh/sqm/day**  
 Solar potential of about  
**170 000 TWh / year**

REGIONS	COASTAL	HIGHLANDS	SAHARA
Area (%)	4	10	86
Average duration of sunshine (hours / year)	2650	3000	3500
Average energy received (kWh/sqm/year)	1700	1900	2650



# Renewable energy market

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# Algeria's renewable energy program

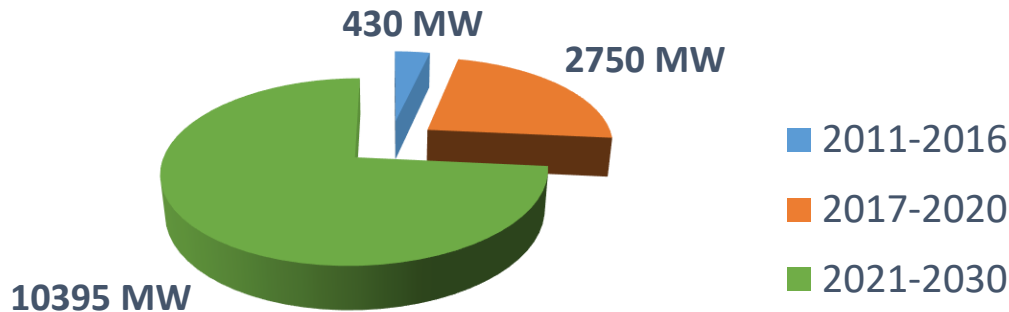
- The Algerian government has adopted a REN program in 2011 which was updated in 2015
- The aim is to diversify the energy mix in order to reduce the domestic consumption of natural gas and maximize the export capacity
- Approximately 300 bn m<sup>3</sup> of expected total natural gas savings over the period of 2011 and 2030
- The ambition is to connect 22 GW of REN by 2030 representing then around 25% of the national electricity production
- Of those 22 GW over 60% (13,575 MW) shall correspond to PV

## The deployment stages of the program

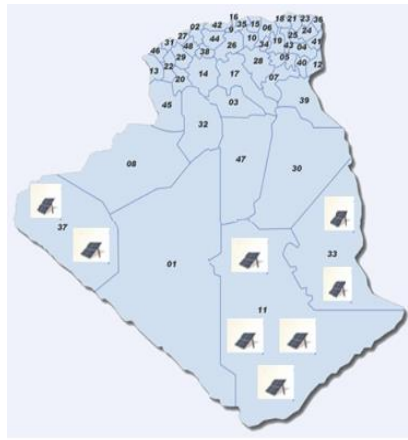
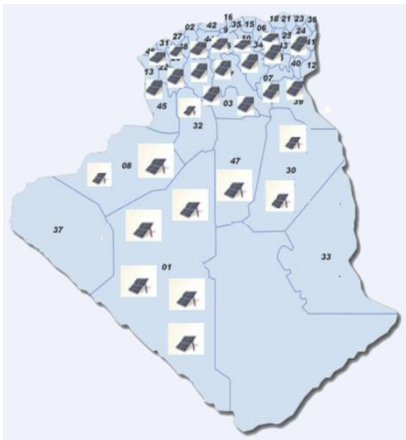
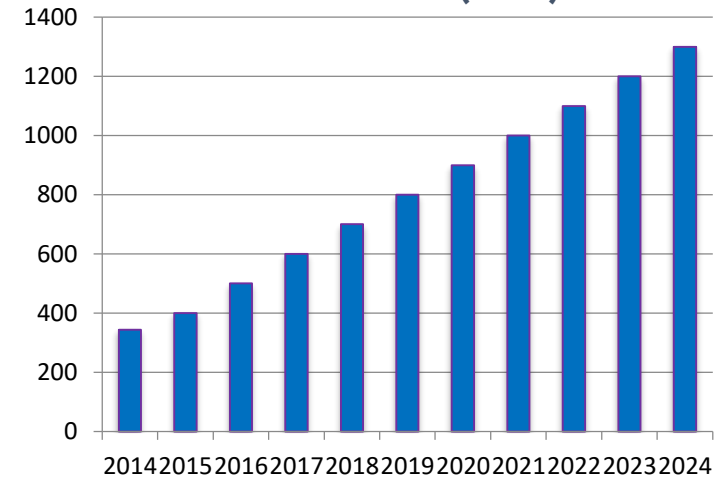


# Algeria's solar PV market

## PV power capacity to be installed



## Solar PV (MW)



## Completed Projects :

- 1.1 MW solar PV plant testing four different technologies (monocrystallin, polycrystallin, amorpheus and thin film)
- 243 MW solar PV plants awarded to YINGLI SOLAR
- 100 MW solar PV plants allocated to BELECTRIC



# Tender overview

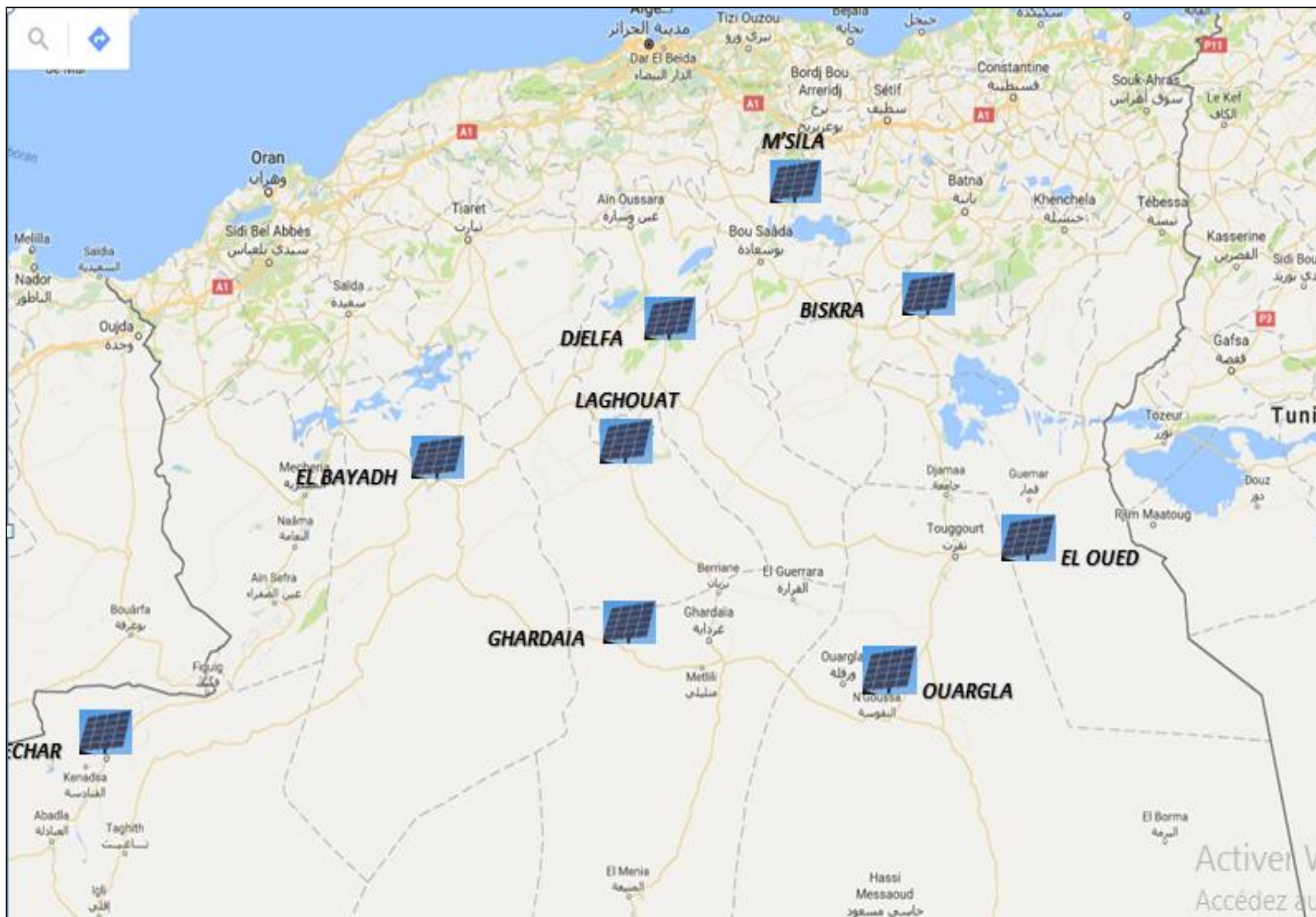
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Tender Structure	An Energy Part	1 SPV per winner for each lot of 1350MW each (3 in total = > 4GW)		
	An Industrial Part	1 SPV per each component: cells, modules and inverters (3 in total)		
Tender sites	Sites preselected by Government (see next slide)			
Investor requierments	the IPP bid needs to include an industrial project proposal with the creation of facilities for PV panels / cells production/ inverters			
Share capital  51/49 rule applies	Energy Part	Each SPV share capital will be composed of: - 49% for international ivestors - 40% for SONATRACH - 11% for SONELGAZ or other public / private company		
	Industrial Part	Modules - 51% ENIE/SONELGAZ - 49% International investor	Cells - 51% ENIE/SONELGAZ - 49% International investor	Inverters - 51% ENIE/SONELGAZ - 49% International investor

Source: CEEG/Sonelgaz, March 2017





Source: CEEG/Sonelgaz, March 2017

# Our recent activity

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## ➡ Multi-MWc scale grid-connected PV project with a large industrial group in Algeria

- Involved in all stages of the development of the project
- First project of its kind in the country

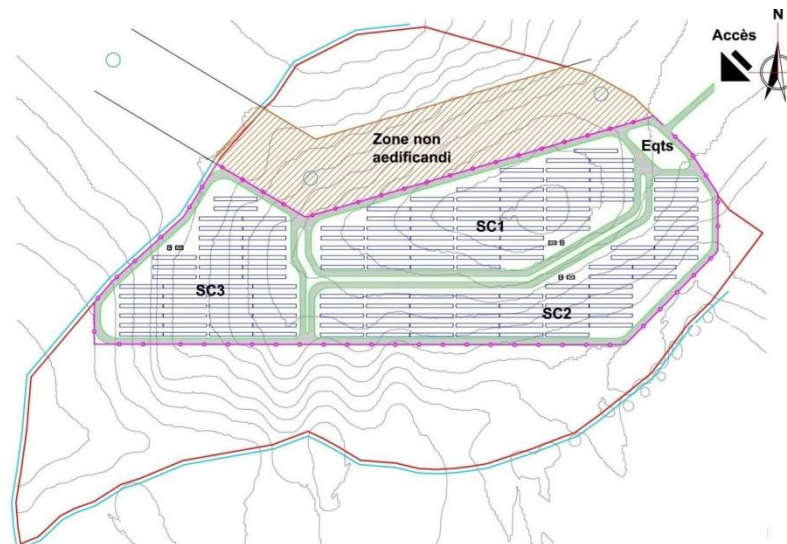


**Location of the Project**



**Photograph of the site**

**Design of the PV plant**



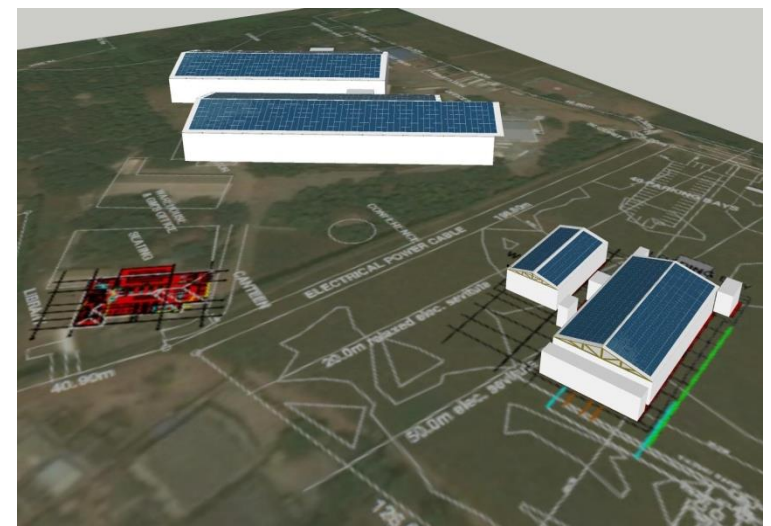


➡ Also developing, financing and installing large scale rooftop solar and hybrid solutions in North and West Africa. Recent examples include:

➤ 450 kW in Morocco



➤ 1MW in Ghana



# CONTACT

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***Your renewable energy partner in the Middle East and Africa***