

# Collaborazioni euro-mediterranee

Opportunità con imprese algerine

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# Algeria: Opportunities in Green Energy

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- **National target of 15 GW of RE by 2035**
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# National target of 15 GW of RE by 2035



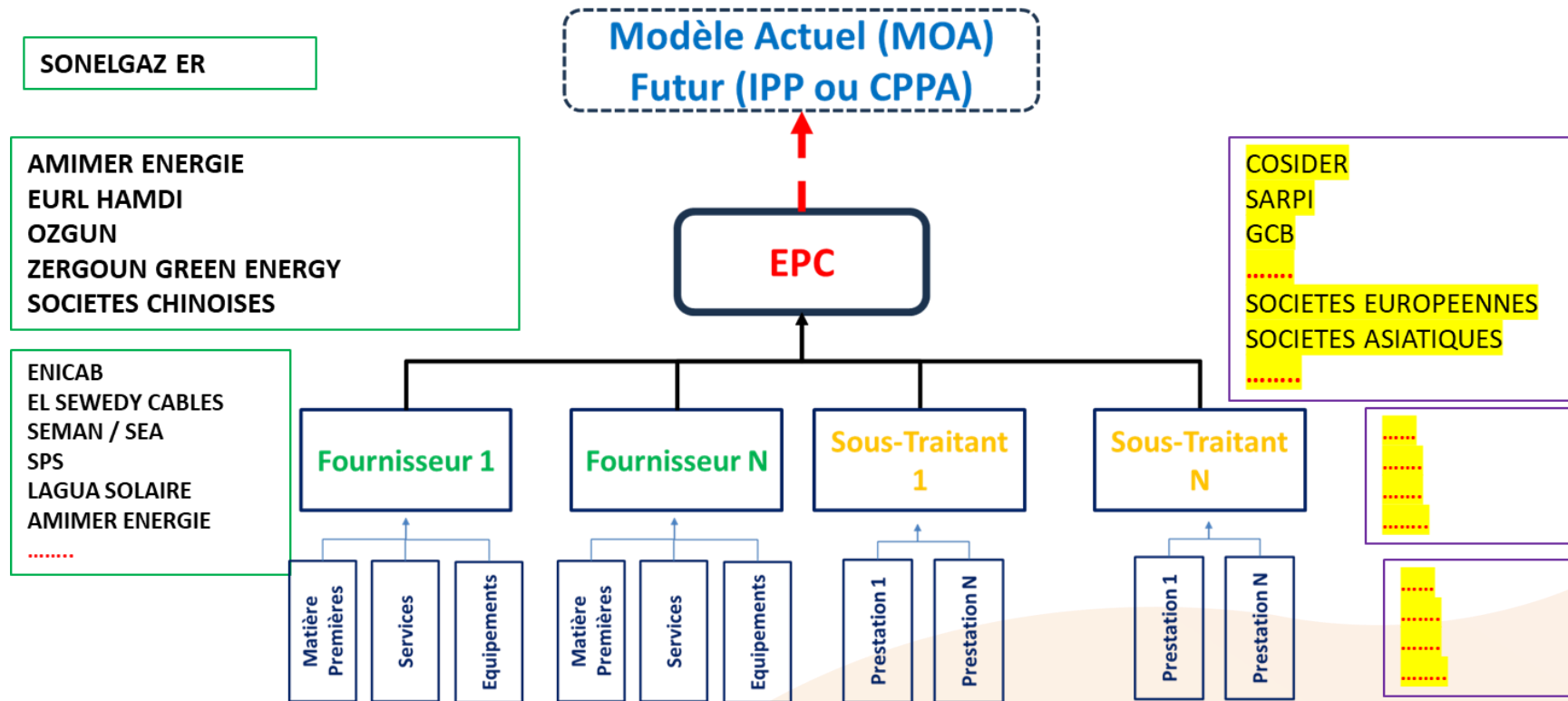
- Algeria RE program: 15,000 MWp by 2035
- First batch: 3,200 MWp
- Local content Requirement: min. 35% (products and services)



Project	Nature	Capacity	RE to install	Timeline
PNDER	Green electricity (local market)	15 GW	15 GW Solar + Wind	2035
MEDLINK	Green electricity (submarine cable)	2 GW	10 GW Solar + Wind	2027-2030
SOUTH2 CORRIDOR	Green hydrogen (converted pipeline)	4 Mtpa of H <sub>2</sub>	40 GW solar + Wind	2030 - 2040
ALTEH2A	Green hydrogen (local market)	50,000 T H <sub>2</sub> /year	80MW PV + 50MW Wind	2027-2028

	Programme	2000MW	1000MW	Restant
Membre du GECA	Période	2023	2023	2025
	CAPACITE	1920 MWc	750MWc	520MWc
CSCEC ALGERIE	650 MWc	200	300	150
EURL HAMDI	410 MWc	160		250
GROUPEMENT OZGUN – BOUZIDA			300	
AMIMER ENERGIE	150 MWc		150	
GROUPEMENT OZGUN – ZERGOUN GREEN ENERGY	80 MWc			
<b>Total</b>	<b>1590 MWc</b>	<b>440 MWc</b>	<b>750 MWc</b>	<b>400 MWc</b>

# GEC'A strategy: developing a domestic RE industry



- Expanding the local capabilities in EPC and supply-chain.
- Build partnerships between local and international companies.
- Reduce costs (CAPEX, OPEX, LCOE) and improve the competitiveness of Algerian companies.

# Opportunities in RE sector: AI domain

## Five concrete applications for Algeria's 3,200 MWc programme and beyond:

- Predictive Maintenance (O&M cost reduction: -30 to -40%)
- Solar and Wind Output Forecasting (accuracy improvement: -30% error)
- Smart Grid Management and Demand Response
- Green Hydrogen Process Optimization
- Energy Management for Industrial Clients

Opportunity	The Context	What AI matters for Algeria
<b>AI-Powered Predictive Maintenance for Solar Farms (I)</b>	<ul style="list-style-type: none"><li>• ~4000 MWp (21 solar PV power plants in construction and 20 solar PV power plants in operation)</li><li>• Harsh conditions</li><li>• Millions of solar panels, Thousands of inverters, hundred of transformers</li></ul>	Operational Resilience LCOE Reduction
<b>Digital Twins for new Solar Plants Design &amp; Operation (II)</b>	<ul style="list-style-type: none"><li>• C&amp;I projects (~ 2,400 MWp) and Utility-scale project (~ 3,000 MWp)</li><li>• Reduce design errors and cutting commissioning time</li></ul>	Layout optimization Performance Simulation LCOE Reduction

# What we are looking for

Partnership type	What we need from you	What we bring
<b>AI Solutions (Products &amp; SaaS)</b>	<ul style="list-style-type: none"> <li>• Ready-to-deploy predictive maintenance, performance monitoring, or forecasting platforms — adapted or adaptable to Saharan operating conditions</li> <li>• Solution to be adapted to local context in EPC models</li> </ul>	<ul style="list-style-type: none"> <li>• Access to operational utility-scale plants and industrial clients,</li> <li>• Local companies interested to integrate Italian solutions in their business</li> </ul>
<b>Technical cooperation</b>	<ul style="list-style-type: none"> <li>• European SMEs willing to co-develop Algeria-specific AI modules</li> <li>• Co-development can be structured under European partnership</li> </ul>	<ul style="list-style-type: none"> <li>• Algerian engineers from high-schools, GEC'A members</li> <li>• Low-cost R&amp;D capacity.</li> </ul>
<b>Knowledge Transfer &amp; Training</b>	<ul style="list-style-type: none"> <li>• Structured training programme for Algerian solar O&amp;M engineers and EPC engineer .</li> <li>• To be delivered in Algeria (on-site or hybrid).</li> <li>• Duration: 5–10 days per cohort. Language: French or English.</li> </ul>	<ul style="list-style-type: none"> <li>• 15–20 trained engineers per cohort from GECA member companies.</li> <li>• Institutional endorsement from MEER and APRUE.</li> <li>• Replicable model for a national training programme.</li> </ul>