

البرنامج الوطني للطاقة المتجددة

National Renewable
Energy Program

المملكة العربية السعودية | Kingdom of Saudi Arabia

Saudi Arabia National Renewable Energy Program



مكتب تطوير مشاريع الطاقة المتجددة

Renewable Energy
Project Development Office

رؤية VISION
2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA

National Renewable Energy Program

The National Renewable Energy Program

- Implemented by the Renewable Energy Project Development Office (REPDO) at the Ministry of Energy, under the auspices of the Custodian of the Two Holy Mosques Initiative for Renewable Energy
- Supports all RE related initiatives in the Kingdom
- Reviews legal & regulatory frameworks

Target & objectives



Investing for the long term

Localization is key

Localize R&D, manufacturing and other sections of the value chain



Create renewable energy industry

Encourage Public-Private partnerships

Allow the private sector to buy & invest in renewable energy (RE)

Sites selected on multi-criteria basis



Stakeholder
engagement



Renewables
GIS analysis



Land
availability



Development
status



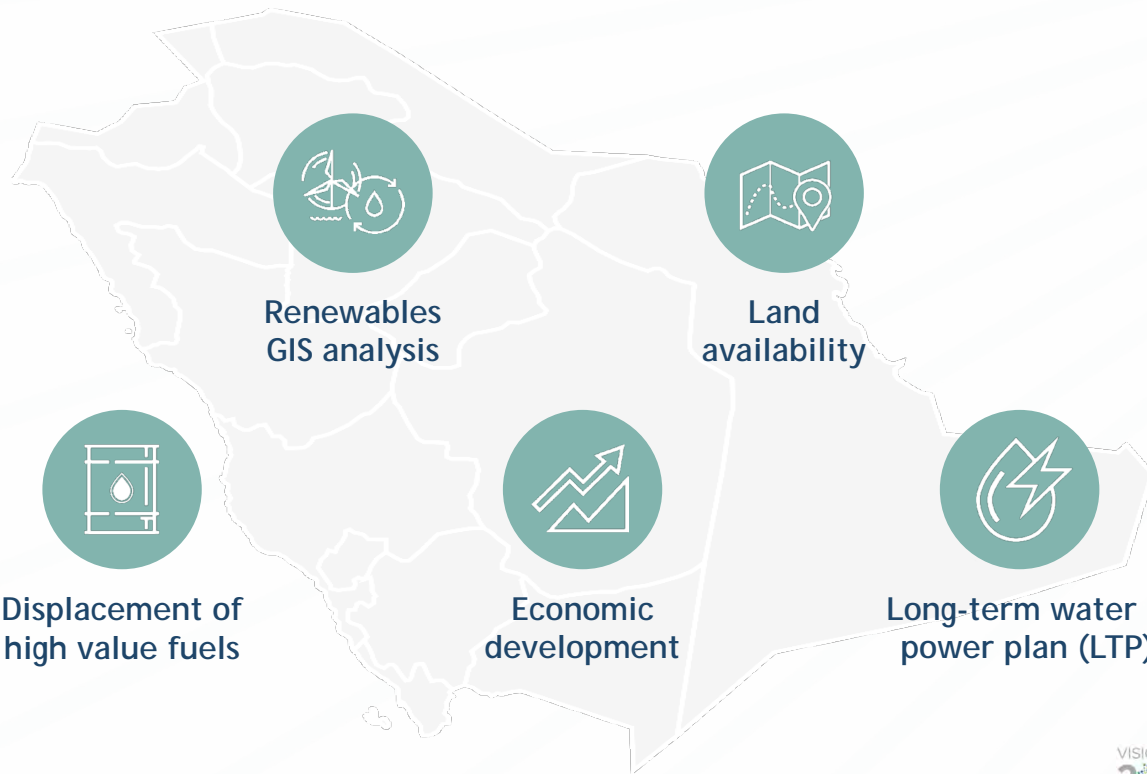
Displacement of
high value fuels



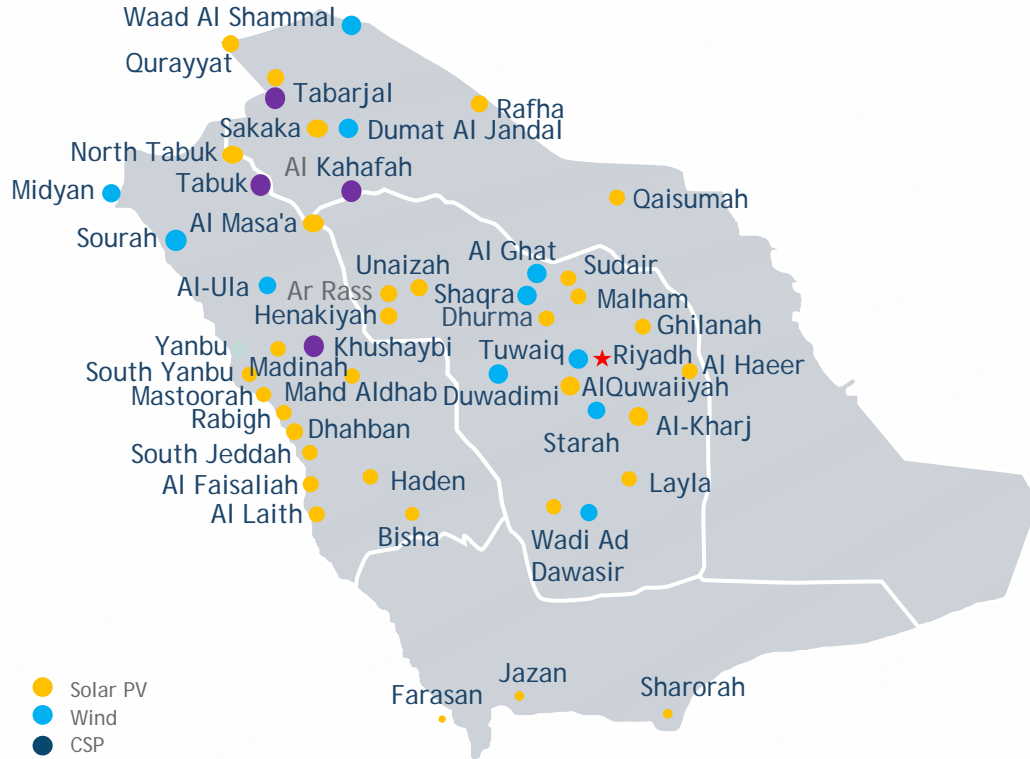
Economic
development



Long-term water &
power plan (LTP)



Projects will be deployed in 35+ parks spread across the Kingdom



35+ parks
to be developed by 2030



Spread across
the Kingdom to promote
regional development



Gradual deployment
to mitigate technology risk

Framework for Developing Tendering Policies



Qualification

- Technical and financial criteria



RFP

- Local Content requirements
- Prescriptive technical parameters of the plants (location, size, technology)
- Bank Guarantees, EPC term sheets, O&M term sheets, financial model



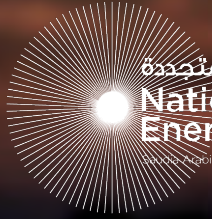
Evaluation

- Public bid announcements
- RFP compliance and than lowest LCOEE



Award

- Short listing and than award. No alternative bids or negotiations



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Round Two & Round Three Projects













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10 pre-developed projects tendered in 2019 and 2020 with a total capacity of 2,670 MW

Target capacity (MW)

2019	Round Two		2020	Round Three		Total
	Category A	Category B		Category A	Category B	
	<div>Madinah</div> <div> 50</div> <div>Rafha</div> <div> 20</div>	<div>Al Faisliyah</div> <div> 600</div> <div>Rabigh</div> <div> 300</div> <div>Jeddah</div> <div> 300</div> <div>Qurayyat</div> <div> 200</div>		<div>Wadi Al Dawaser</div> <div> 120</div> <div>Layla</div> <div> 80</div>	<div>Ar Rass</div> <div> 700</div> <div>Saad</div> <div> 300</div>	

Round-Three Request for Qualifications

Target capacity (MW)

Round Three		Total
Category A	Category B	
Wadi Al Dawaser  120	Ar Rass  700	 1,200
Layla  80	Saad  300	

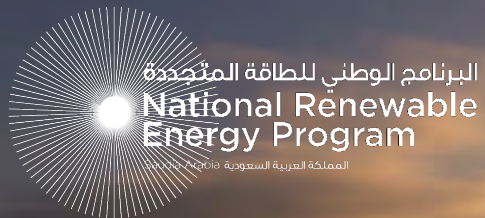
- Round Three Launches on January 9, 2020
- Round Three comprised of four projects, amounting to 1,200 MW of solar PV
- Request for Qualifications (RFQ) window closes on February 06, 2020. Request for Proposals (RFP) to be issued on March 19, 2020



Visit powersaudiarabia.com.sa for RFQ and RFP information



Visit wesupplyrenewables.com.sa to find out more about renewable energy supply chain platform in Saudi Arabia



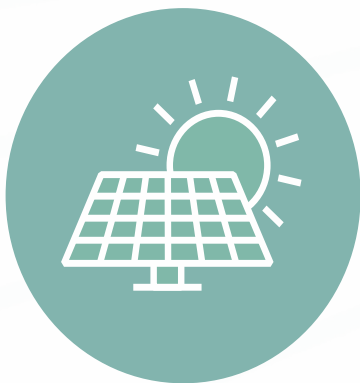
Local Content



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Renewable Technologies Targeted



Solar PV



Wind



Solar CSP

Local Manufacturing of Renewable Components Will be Enabled by Increasing Projects Local Content Target

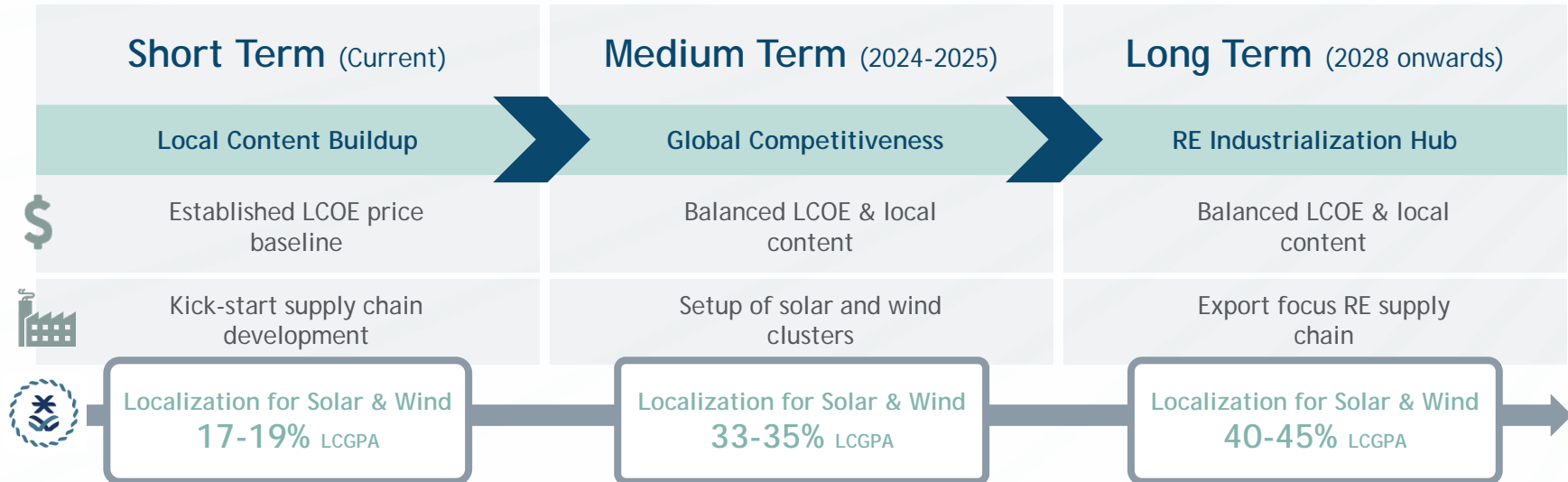
- Potential Local Content Targets Plan in coordination with the LCGPA



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هيئة المحتوى المحلي
والمشتريات الحكومية
Local Content & Government
Procurement Authority



Potential Private Sector Solar PV and Wind Manufacturing

- REPDO and SIDF signed Collaboration Agreement to support SIDF's Mutjadedda Program
- Mutjadedda will Finance up to 75% of project cost



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SIDF



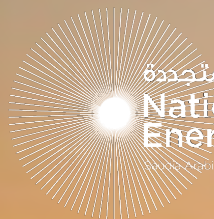
Solar PV Private Sector Manufacturing

- Local manufacturer of PV technology for utility and non-utility scale use
- Up to 6 manufacturers with ~0.5-1 GW p.a. capacity by 2030
 - Depends on the annual pipeline of projects and the PV value chain investment opportunities



Wind Private Sector Manufacturing

- Local manufacturer of Wind technology for utility scale use
- Up to 2+ manufacturers with ~0.5-1 GW p.a. capacity by 2030
 - Depends on the annual pipeline of projects and the wind value chain investment opportunities



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Achievements



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Two Projects Successfully Tendered in the First Round with a Capacity of 700 MW



Sakaka 300 MW



Cost

2.34

Cents / kWh

New record low for Solar PV project outside Latin America



Environmental impact

547K t/year
CO2 Offset

1,699K boe/year Fossil
Fuel Displacement



Dumat Al Jandal 400 MW



Cost

1.99

Cents / kWh

New MENA record low in the field of onshore wind power projects



Environmental impact

1,002K t/year
CO2 Offset

3,114K boe/year Fossil
Fuel Displacement



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