

البرنامج الوطني للطاقة المتجددة
National Renewable
Energy Program
المملكة العربية السعودية

Saudi Arabia Renewable Energy Targets and Long Term Visibility



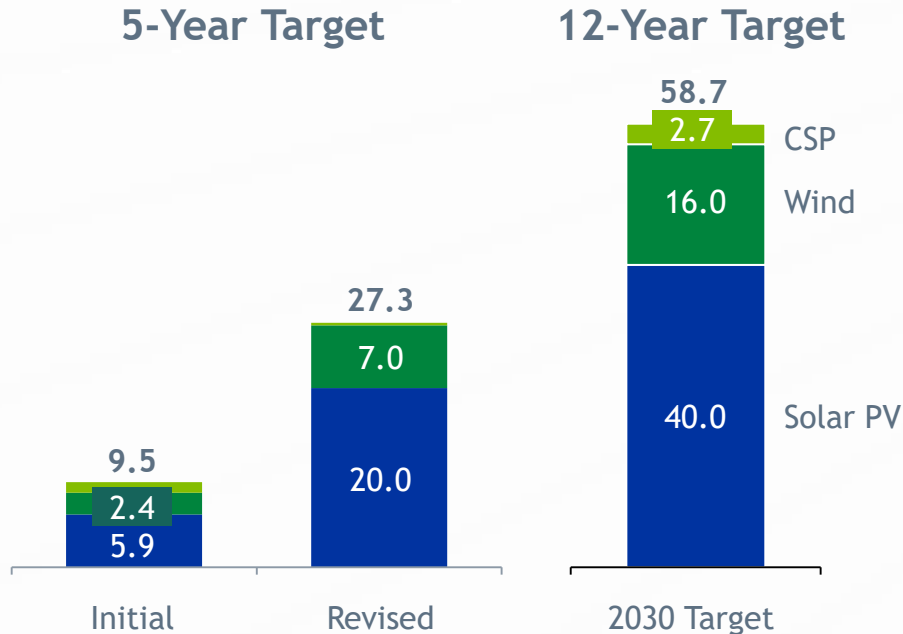
وزارة الطاقة والصناعة والثروة المعدنية
المملكة العربية السعودية

مكتب تطوير مشاريع الطاقة المتجددة
Renewable Energy
Project Development Office

رؤية
VISION
2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA

Saudi Arabia significantly increased its renewable energy targets and long term visibility

Planned Capacity (GW)



Increased
5-Year Target



Extended visibility
to 2030



Optimized
the energy mix

MEIM and PIF are working on complementary tracks to promote localization of manufacturing

Track	Development Approach	Allocated Pipeline (% of RE Capacity)	Objectives
Tendered by REPDO	<ul style="list-style-type: none">• Competitive tender• Increasing local content requirements	30%	<ul style="list-style-type: none">• Enable price discovery• Attract private investments• Promote market innovation
Awarded to PIF	<ul style="list-style-type: none">• Negotiated deal with international partner for project development• Captive offtake from large scale manufacturing (200 GW)	70%	<ul style="list-style-type: none">• Fast-track localization• Target exports of RE equipment• Develop Giga-scale projects

Parks are being pre-developed to boost projects' bankability and expedite execution

Pre-Development Studies



Geotechnical



Hydrology



Energy yield



Grid impact



Environmental



Permitting

Pre-Development Advantages



Solar and wind resources well understood



Land and grid information accessible to developers



Level playing field between all developers



Expedited project tendering and delivery

Existing grid can absorb up to 13.5 GW of renewable energy capacity



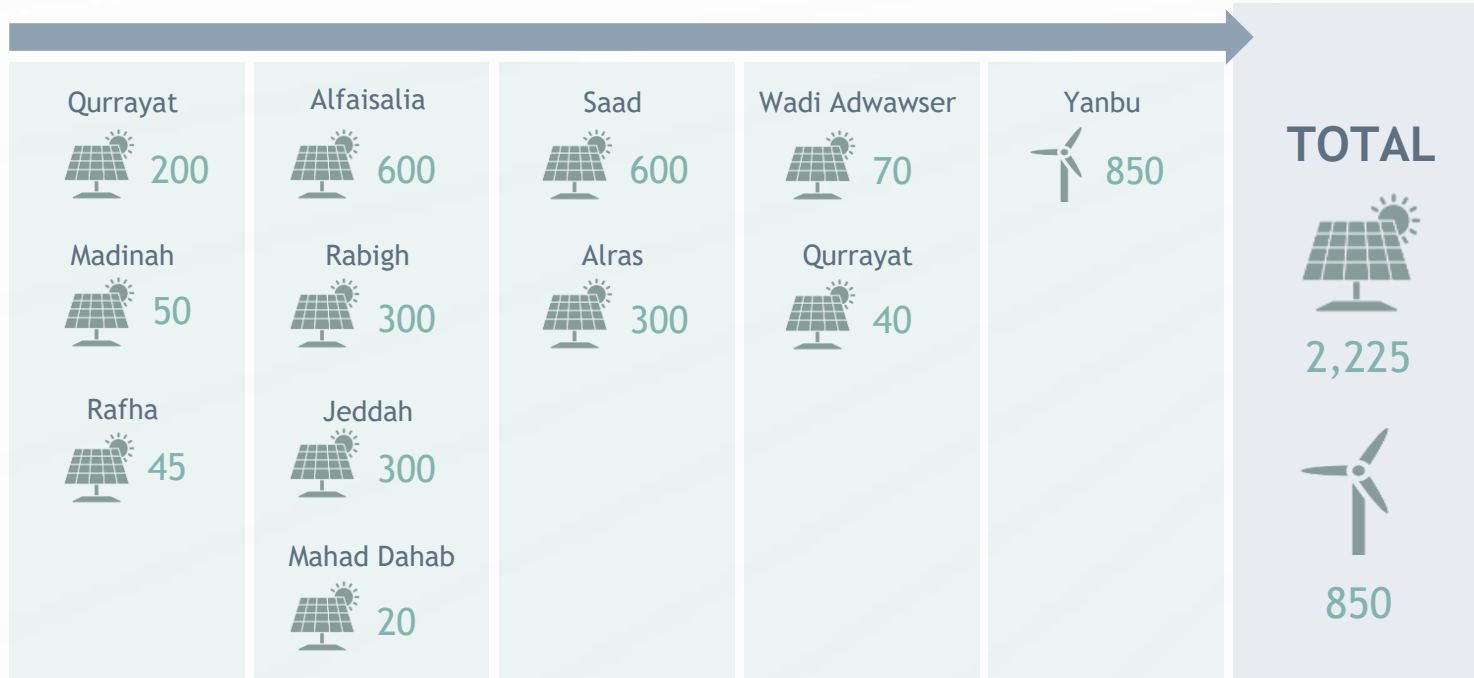
- ربط الشمال الغربي والشمال الشرقي إلى الشبكة
- تعزيز الترابط بين المناطق
- الربط الخليجي
- الربط مع جمهورية مصر العربية

REPDO is on track to complete all pre-development studies for sites by end of 2019 with a total capacity of

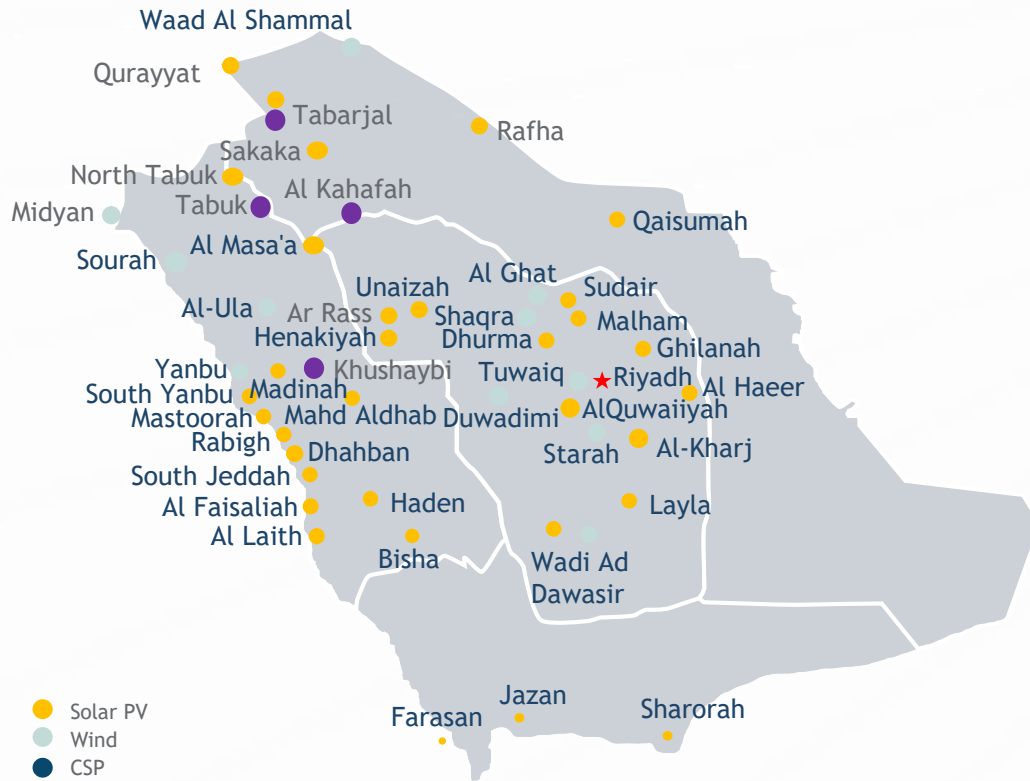
~13.5 GW

A “Operational System Impact” study on the existing grid revealed that ~13.5 GW of renewable energy capacity can be integrated without any upgrades

12 pre-developed projects will be tendered in 2019 with a total capacity of ~3.1 GW



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



35+ parks
to be developed by 2030

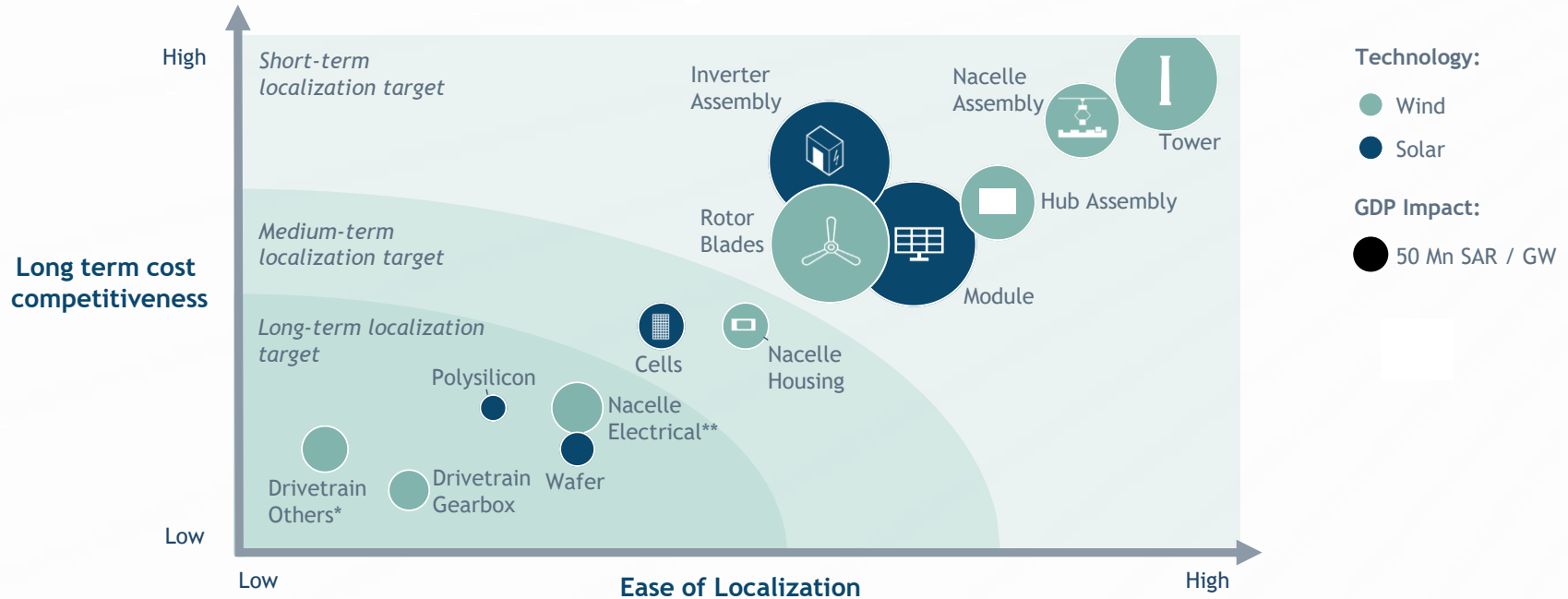


Spread across
the Kingdom to promote
regional development



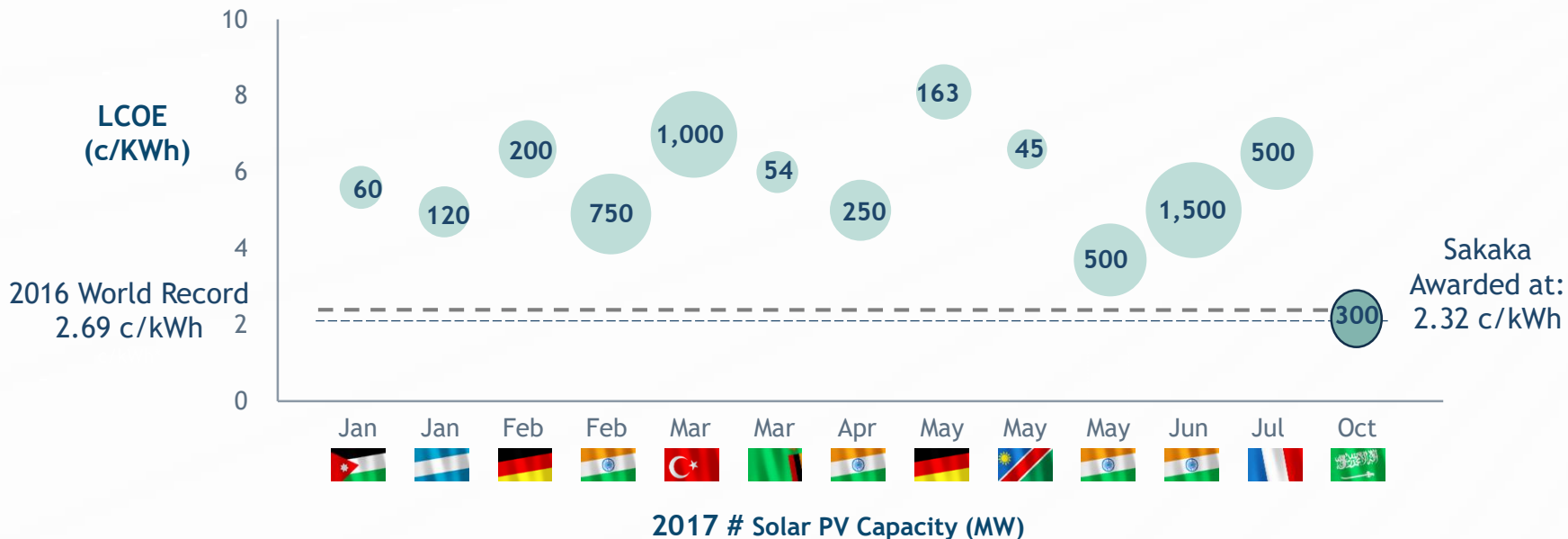
Gradual deployment
to mitigate technology risk

5 wind and 3 solar segments can potentially be localized in the short to medium term in KSA



Notes: *) Rotor Bearings, Break System, and Main Shaft; **) Power Converter, Transformers, and Fiber-optic Cables

These activities enabled the Sakaka tender to break the world record on October 2nd, 2017



* Mexico; Q2 2016; 1,800 MW solar PV capacity
Source: Bloomberg NEF

Dumat Al Jandal also broke the EMEA record for onshore wind tenders on July 23rd, 2018

