



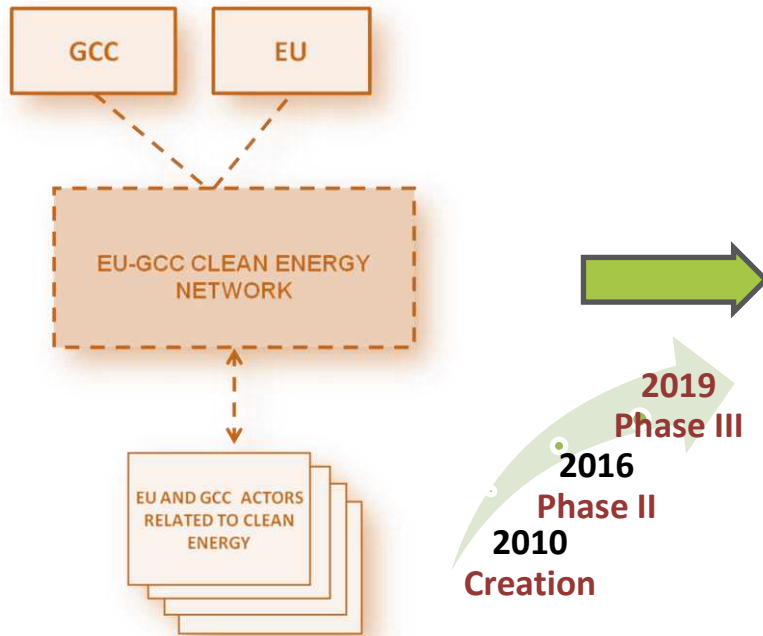
Webinar
Open Call for Proposals for Renewable
Energy Technology Development in
Saudi Arabia



Ambitious Plans for Renewable Energy Growth in the Kingdom of Saudi Arabia

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Energy Technology Key Expert,
EU GCC Clean Energy Technology Network

The Network at a glance



- ✓ **The catalyst and facilitator** for cooperation on clean energy
 - ✓ **The practical instrument** for cooperation activities in the area of clean energy technologies:
 1. Renewable Energy Technologies
 2. Energy Efficiency and DSM
 3. Clean Fossil Fuels
 4. Carbon Capture, Storage and Usage
 5. Regional Electricity Market Integration, and
- Climate Change as a Cross-Cutting topic**

What we do

- Technical Site Visits, Study Tours
- Facilitation of Exchange/twinning
- Facilitation of R&D collaborations
- Capacity building, Training Seminars
- Policy Studies, Technical Papers
- Workshops, Conferences



Experts Network
Institutions Network

Open/free membership (inclusive membership policy)

**EU GCC CLEAN ENERGY
TECHNOLOGY NETWORK**

Join us: www.eugcc-cleanergy.net

Contact us: contact@eugcc-cleanergy.net



Milestones **European Green Deal**

Mobilising industry
for a clean and circular economy

- **EU Industrial Strategy** (published 10 March 2020)
- A new **circular economy action plan** (published 11 March 2020), including a **sustainable products policy**
- **European Hydrogen Strategy** (roadmap public consultation closed 8 June)
- **European strategy for energy system integration*** (roadmap public consultation closed 8 June).

| The EU as a
global leader

| A European
Climate Pact

Energy systems integration*

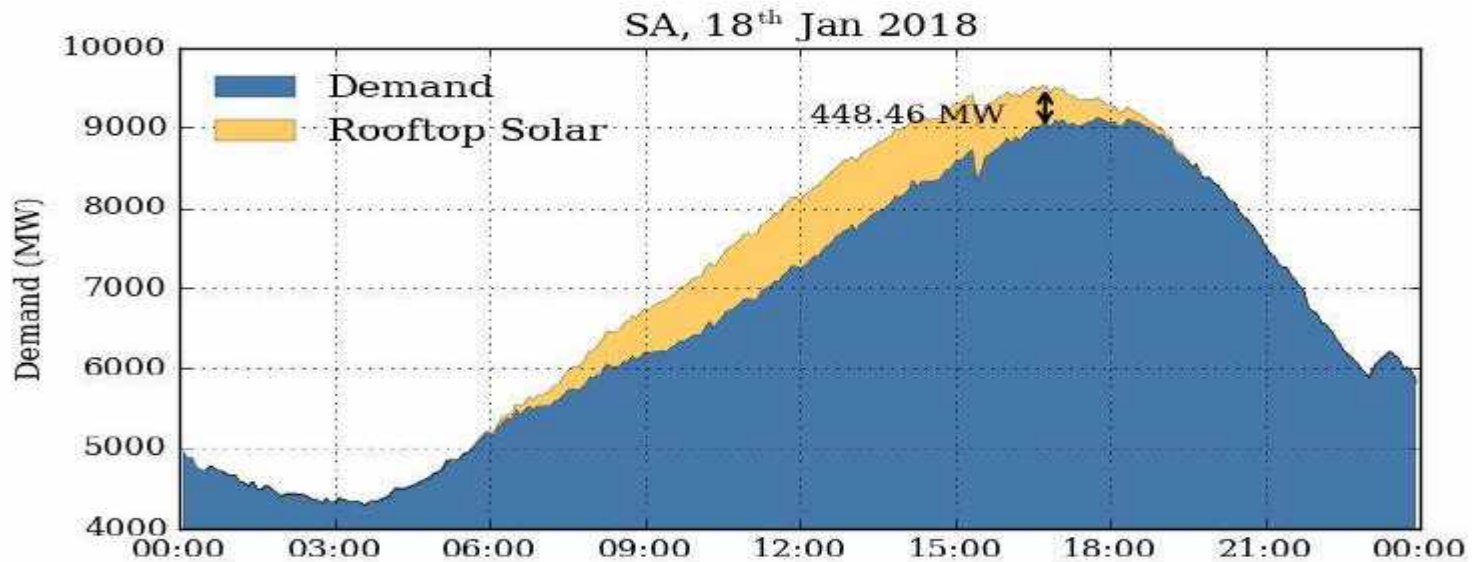
- Creating **stronger links** between the electricity, gas, buildings, transport, agriculture and industry.
- About **optimizing our energy system** as a whole.
- Make our energy system work as efficiently and as smartly as possible to reach climate neutrality -> **limit cost** of the energy transition for citizens and businesses.

** formerly "Smart Sector Integration"*

Distributed RE in Europe

- In Europe of total **130.7** GW PV installation, over **66 %** in Distributed segment
- Currently, Germany has almost **2 million energy producers**, including roof-mounted solar panels, wind turbines, and biomass facilities. Households, buildings, and industrial facilities are increasingly turning into “**prosumers**” — consumers who also produce energy.

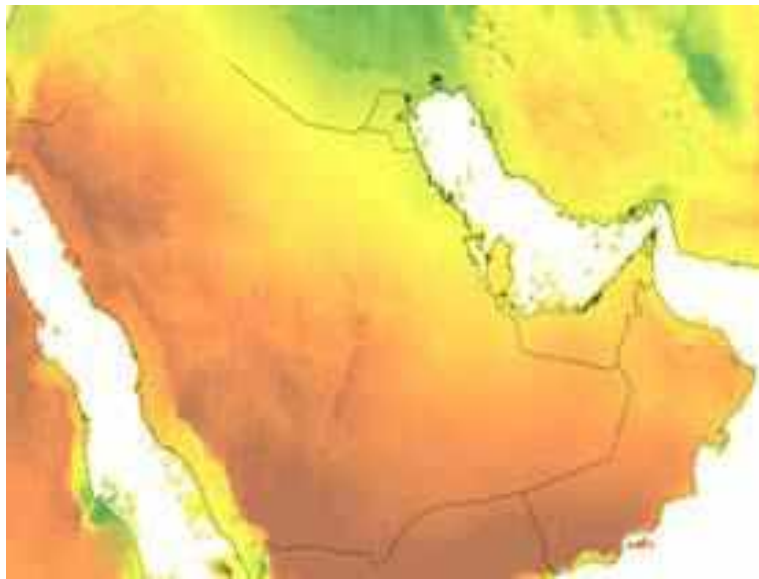
Grid connected SPV Roof Top Systems



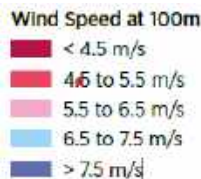
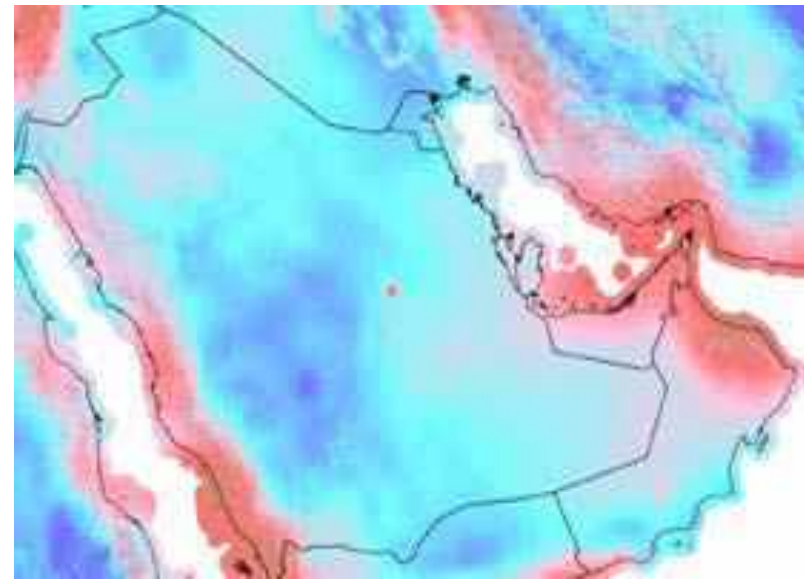
Replaced OCGT: @ 600 USD/kW
Savings = 269.076.000 USD

The GCC is blessed with huge RE Resources

Solar

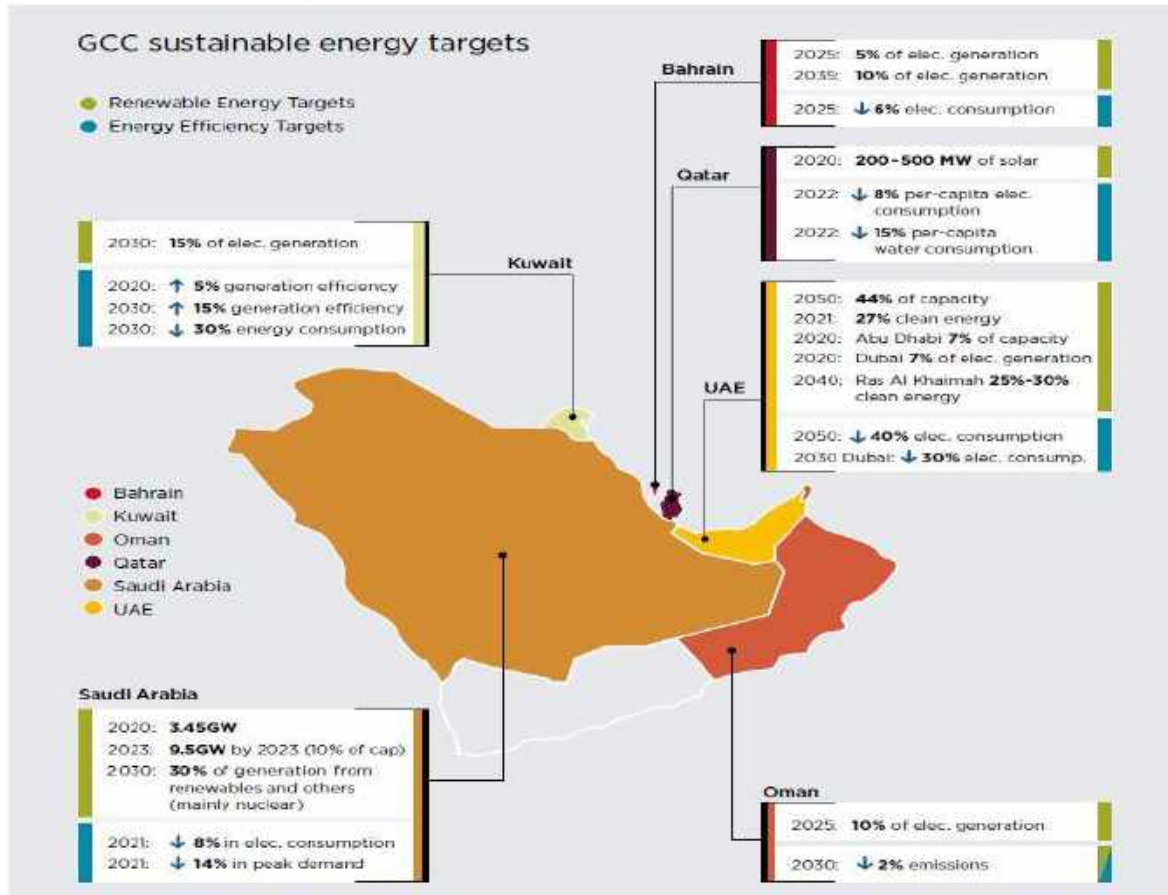


Wind



IRENA, 2019

In the GCC : RE Ambitious Targets for Utility Scale Projects....



IRENA, 2019

Kingdom of Saudi Arabia

- Based on **vision 2030**, the Kingdom of Saudi Arabia is aiming to reduce its dependency on oil revenues, diversifying its energy mix and developing its significant potential of renewable energy.
- In 2018, the ambitions of Saudi Arabia's National Renewable Energy Program were substantially increased with a 5-year target of **27.3 GW** and a 12 years target of **58.7 GW**, including 40 GW of PV and 2.7 GW of CSP.
- Huge potential on **Distributed Generation** to meeting growing electricity demand and simultaneously combating climate change.
- The government is aiming to invest in renewable energy up to **\$50 billion** until **2023** and thus add value to the local economy (jobs creation, local content,..)

Local Content

- ❑ Local Manufacturing of Renewable Components Will be Enabled by Increasing Projects Local Content Target
- ❑ Potential Private Sector Solar PV and Wind Manufacturing
- ❑ **K.A. CARE** initiative: Technology Localization and Commercialization (TLC)

The Green H2 Hub: NEOM



- New city, the size of Belgium (26,000km²)
- One of three strategic projects of Saudi Agenda 2030
- Saudi's Public Investment Fund and others have committed \$500 billion
- NEOM will be powered by 100% low-cost renewable energy (40 – 60 GW)
- Given the availability of competitive and low-cost renewable energy, NEOM will produce **green hydrogen** at scale for local and world markets



NEOM: the green catalyst for a circular carbon economy in KSA



Thank you!

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