Post-COP28:
Translating pledges into action in the GCC

15 February 2024
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00-14.05 (GST)</td>
<td>Welcome remarks</td>
<td>Ute Collier, Acting Director, KPFC, IRENA</td>
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<tr>
<td>14:05-14.20 (GST)</td>
<td>Scene-setting presentation:</td>
<td>IRENA</td>
</tr>
<tr>
<td>14.20-14.50 (GST)</td>
<td>Panel session:</td>
<td>Moderator: <strong>Steven Griffiths</strong>, Senior Vice President for Research and Development and Professor of Practice at the Khalifa University of Science and Technology</td>
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<td>Panelists:</td>
<td>- <strong>Nawal Alhanaee</strong>, Director, Future Energy Department, Ministry of Energy and Infrastructure, UAE</td>
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<td>- <strong>Osamah Alsayegh</strong>, Research scientist at the Energy and Building Research Center at the Kuwait Institute for Scientific Research (KISR)</td>
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<td>- <strong>Noura Mansour</strong>, Fellow in the Climate &amp; Sustainability Team, KAPSARC</td>
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<td>- <strong>Robin Mills</strong>, CEO, Qamar Energy</td>
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<tr>
<td>14.50-15.00 (GST)</td>
<td>Closing remarks</td>
<td>Ute Collier, Acting Director, KPFC, IRENA</td>
</tr>
</tbody>
</table>
Key insights:
Renewable Energy Markets in the GCC

15 February 2024
Outline

- Imperatives of renewable energy deployment in the GCC
- National climate and energy plans and targets
- Progress in RE deployment & cost-competitiveness of Solar PV
- Renewable energy investments in the GCC and beyond
- Opportunities for an accelerated energy transition in the GCC
- Conclusions
The urgency to decarbonize the global energy sector
Imperatives of an energy transition in the GCC

Historical total final energy consumption in the GCC (PJ), 1990-2020

Electricity production by source (%), 2020

Source: IEA (2023b).
Note: PJ = petajoules; TFEC = total final energy consumption.
Growing climate and renewable energy ambition across the GCC
Accelerating deployment of renewable energy in the GCC


Installed RE generation capacity in GCC, 2022

- 7 MW Biogas
- 15 MW Renewable municipal waste
- 67 MW Wind
- 402 MW Solar CSP

Total Installed RE generation capacity in GCC, 2022: 5,673 MW

- 5,128 MW Solar PV
Renewables, especially solar, has emerged as the least cost option in the region.
Renewables investments within the GCC are expected to increase in the next few years

Renewable energy investments in the GCC by country and technology (2013-2022)
Renewable energy investments by GCC countries around the world

Total investments by GCC countries: 3,625 million USD
Opportunities for the GCC’s energy transition

Resource potential

Green hydrogen

Robust existing energy infrastructure
**Concluding insights**

**Enabling conditions:** large public funds, abundant RE potential, solid energy infrastructure

**Strategic avenues:** increased RE deployment, renewables-based desalination, energy efficiency, green hydrogen production

**Objectives:** economic diversification, job creation, reduction of fossil fuel dependence, climate mitigation
Key Insights
Renewable Energy Markets: The GCC 2023

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Panel discussion

- Nawal Alhanaee, Director, Future Energy Department, Ministry of Energy and Infrastructure, UAE
- Osamah Alsayegh, Research scientist at the Energy and Building Research Center at the Kuwait Institute for Scientific Research (KISR)
- Noura Mansouri, Fellow in the Climate & Sustainability Team, KAPSARC
- Robin Mills, CEO, Qamar Energy
- Moderator: Steven Griffiths, Senior Vice President for Research and Development and Professor of Practice at the Khalifa University of Science and Technology
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