

The MEA Renewable Energy Projects Market

Key trends, challenges and opportunities Ed

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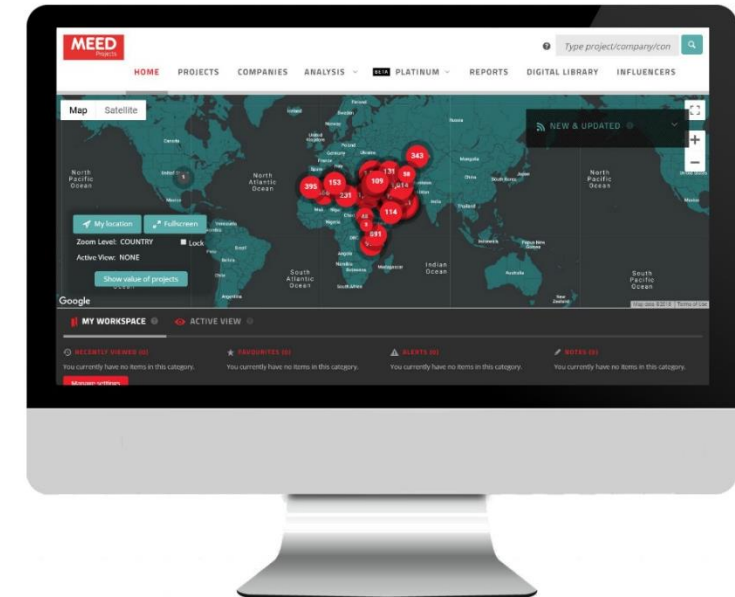
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The MEA Renewable Energy Projects Market



MEA Renewable Energy Projects Report 2023

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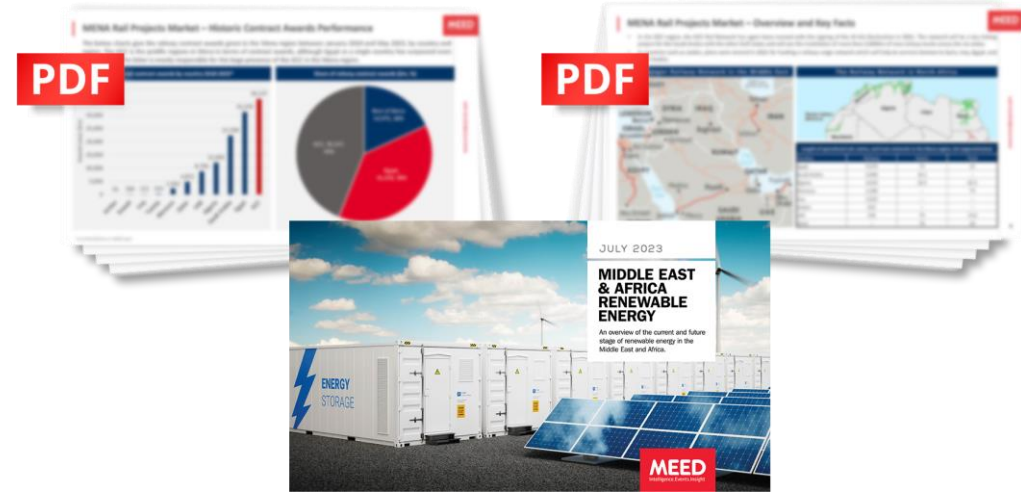
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MENA Renewable Energy Projects Market – Historical Context

The Middle East was actually home to the world's first large-scale renewable energy project

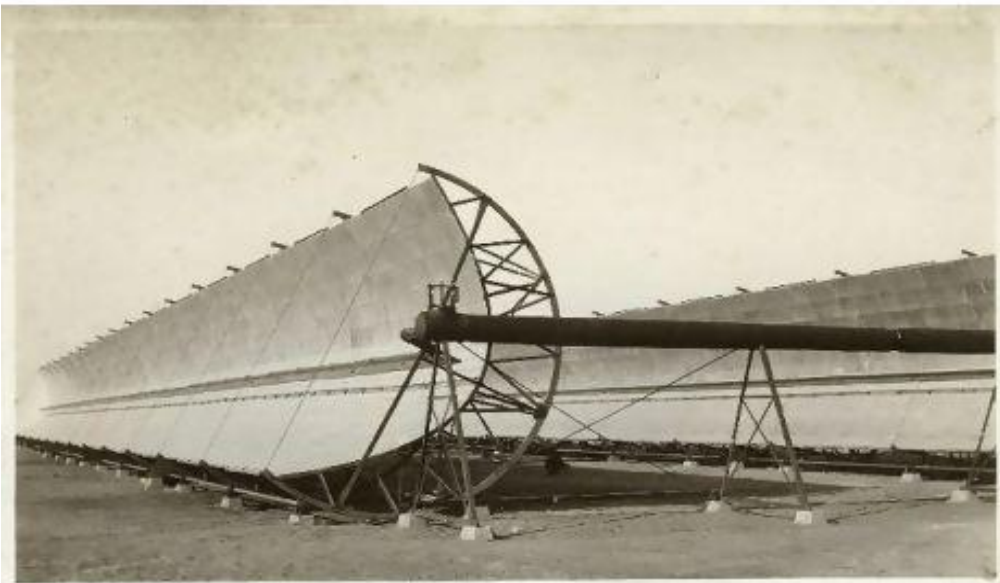


US inventor Frank Shuman commissioned the world's first parabolic trough solar plant in Maadi, Cairo, in 1913. The 55kW station was set up to drive irrigation pumps.

It provided the first tangible evidence of the suitability of renewable energy in the region.

It was such a success that Shuman was granted 30,000 acres in the Sudan to build a larger version. Shuman himself drew up plans for a 20,000 square mile plant in the Sahara to generate 270 million horsepower, equal to all the energy generated in the world in 1909.

Unfortunately, WWI intervened and the plans never materialised...



MENA Renewable Energy Projects Market – Key Data

The region has been relatively slow in the uptake of renewable energy. Ignoring historical hydropower production, there is less than 15GW of renewable production compared with more than 400GW of total installed capacity, representing just 3.4% of the total mix. It's worth noting however that some oil-importing countries like Morocco and Jordan vastly outdo some of their neighbours

Middle East and North Africa renewable energy installed capacity (MW, 2021-2022)

Country	Renewable energy capacity (MW)	Hydropower (renewable) (MW)	Solar/CSP/Wind (MW)	Total installed capacity (MW)	Total renewable as % of overall installed capacity	Non-hydropower renewable as % of overall installed capacity
Algeria	686	228	458	25,161	2.7%	1.8%
Bahrain	12	-	12	8,774	0.1%	0.1%
Iran	11,929	11,152	777	86,178	13.8%	0.9%
Iraq	1,594	1,557	37	30,138	5.3%	0.1%
Kuwait	105	-	105	20,258	0.5%	0.5%
Jordan	2,371	16	2,355	6,606	35.9%	35.6%
Lebanon	372	282	90	3,412	10.9%	2.6%
Libya	6		6	11,069	0.1%	0.1%
Morocco	3,522	1,769	1,753	10,661	33.0%	16.4%
Oman	687	-	687	12,556	5.5%	5.5%
Qatar	43	-	43	10,622	0.4%	0.4%
Saudi Arabia	842	-	842	80,505	1.0%	1.0%
Tunisia	472	62		5,034	9.4%	8.1%
UAE	3,472	-	3,472	37,759	9.2%	9.2%
Egypt	6,226	2,832	3,394	60,119	10.4%	5.6%
Total	32,339	17,898	14,031	408,852	7.9%	3.4%

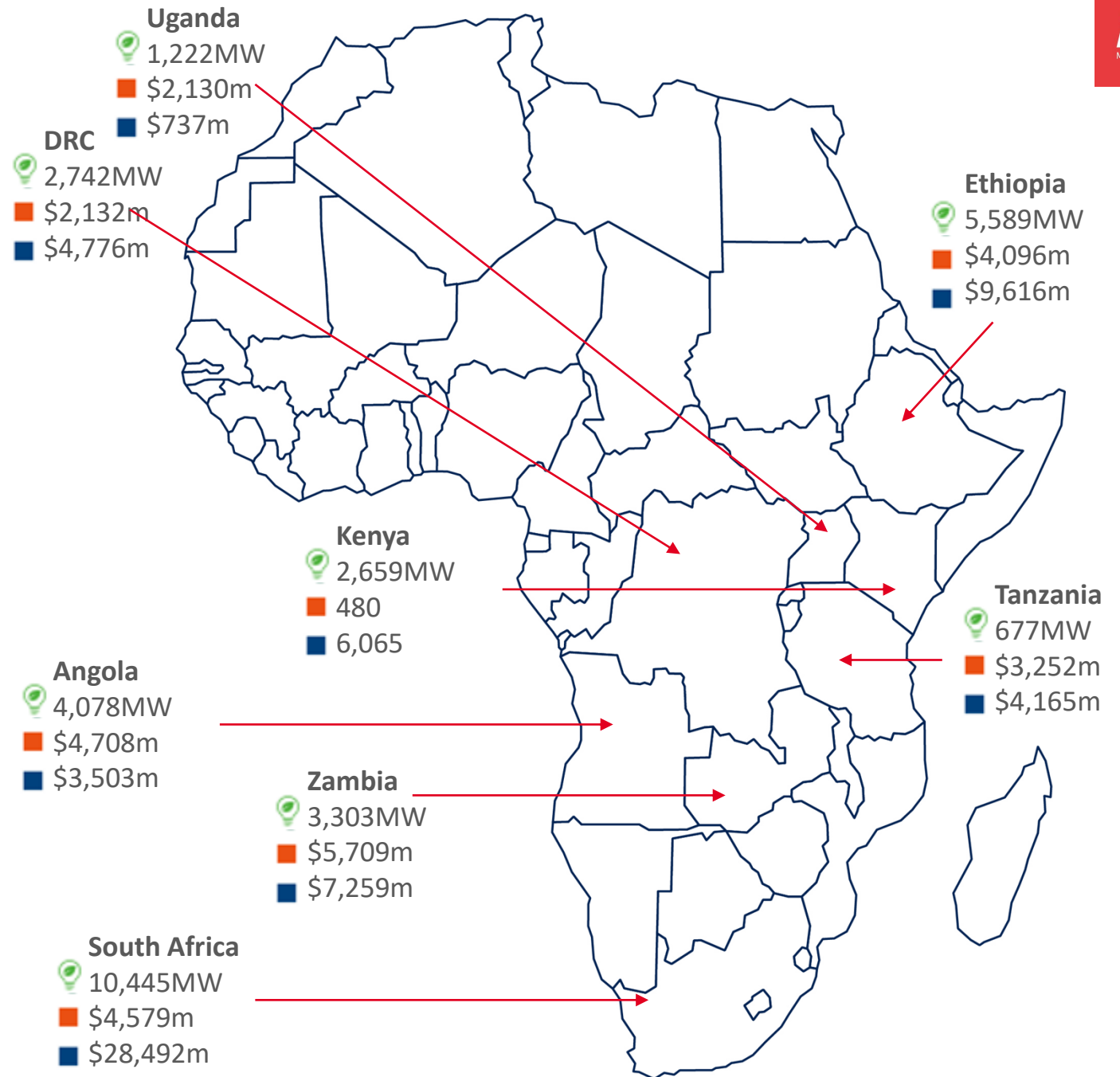
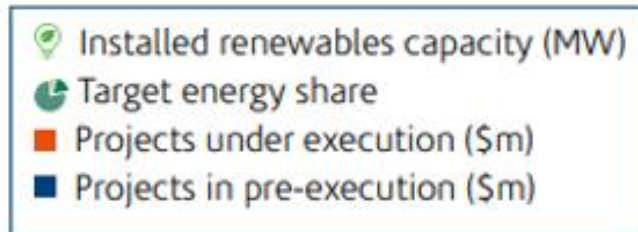
Sources: Irena, MEED

MENA Renewable Energy Projects Market – Targets

Based on ambitious renewable energy production targets as a percentage of total power generation, there must be a rapid acceleration in investment in renewable energy projects if the objectives are to be met

Renewable energy targets by country			
Country	Target RE as % of electricity production energy mix	Current 2022 installed capacity (MW)	Implied 2030 RE installed capacity based on 2022 installed capacity (MW)
Algeria	27% by 2030	25,161	6,793
Bahrain	10% by 2035	8,774	877
Egypt	42% by 2035	60,119	25,250
Iran	12% by 2030	86,178	10,341
Iraq	25% by 2030	30,138	7,535
Jordan	30% by 2030	6,606	1,982
Kuwait	15% by 2030	20,258	3,039
Lebanon	30% by 2030	3,402	1,021
Morocco	52% by 2030	10,661	5,544
Oman	30% by 2030	12,556	3,767
Qatar	20% by 2030	10,622	2,124
Saudi Arabia	50% by 2030	80,505	40,253
Tunisia	30% by 2030	5,034	1,510
UAE	50% by 2050	37,759	18,880
TOTAL	-	397,773	128,916

Renewables in Africa



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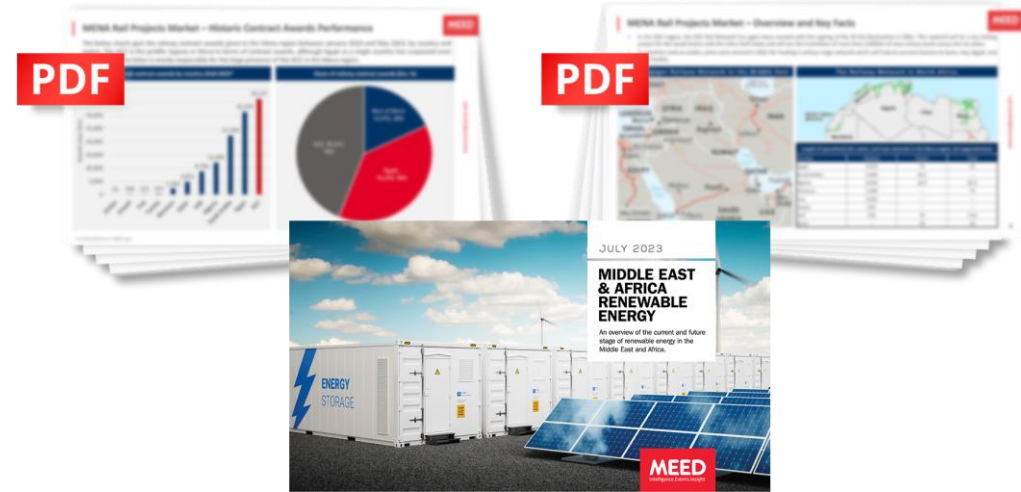
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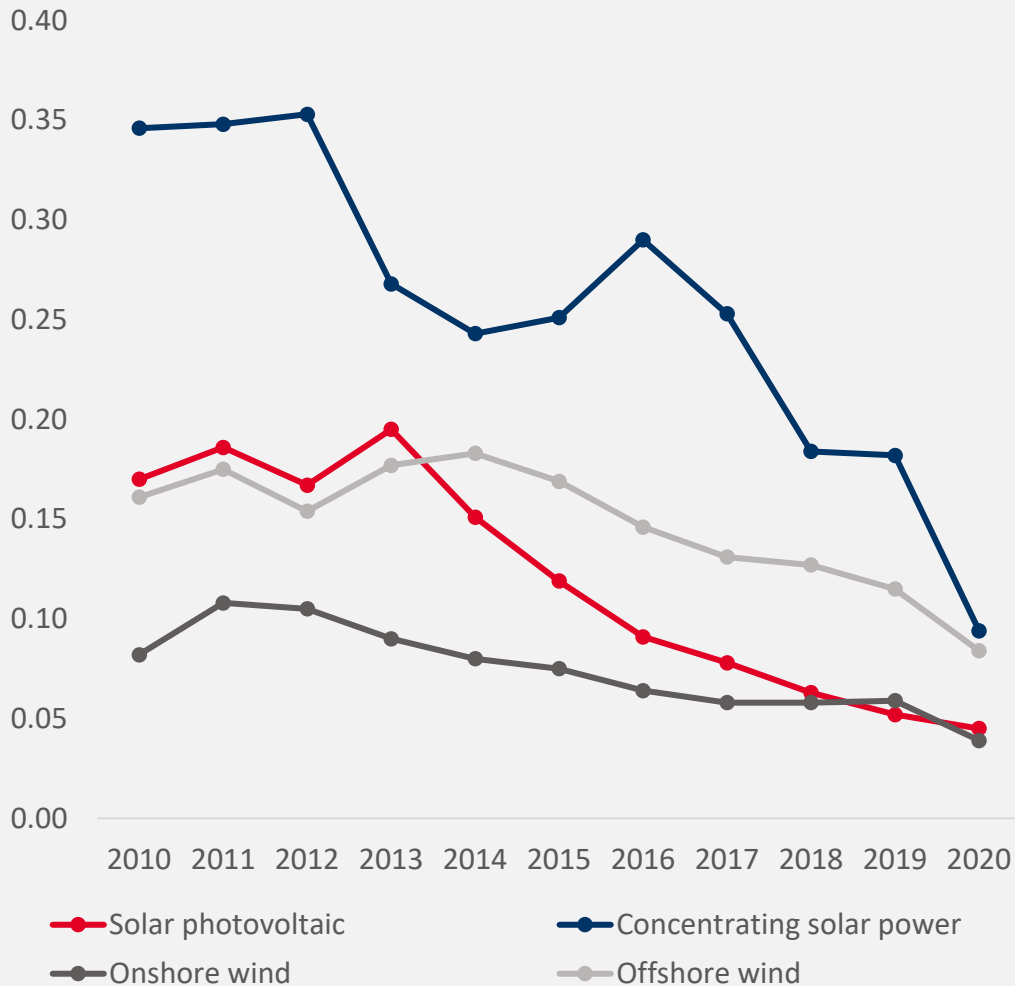
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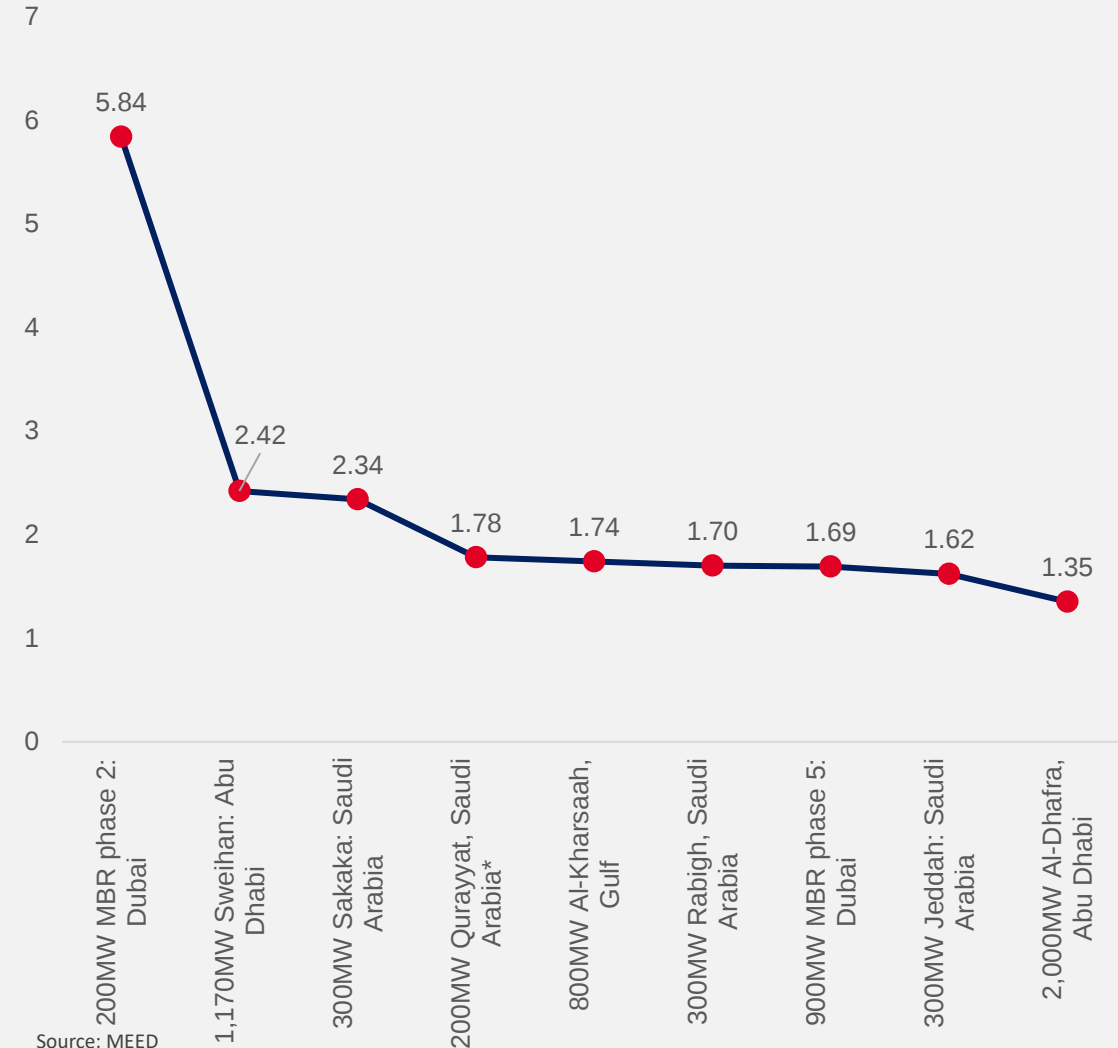
Why Now? Falling Costs

A major factor behind the acceleration of renewables adoption reduction in renewable energy costs. Solar PV costs are now as low as \$0.045 a kilowatt hour, and on an IPP basis developers in the region have been offering a LCOE to offtakers as little as 0.0135 cents a kilowatt hour (3 times cheaper than the global average)

Global renewable energy costs (\$/kWh)

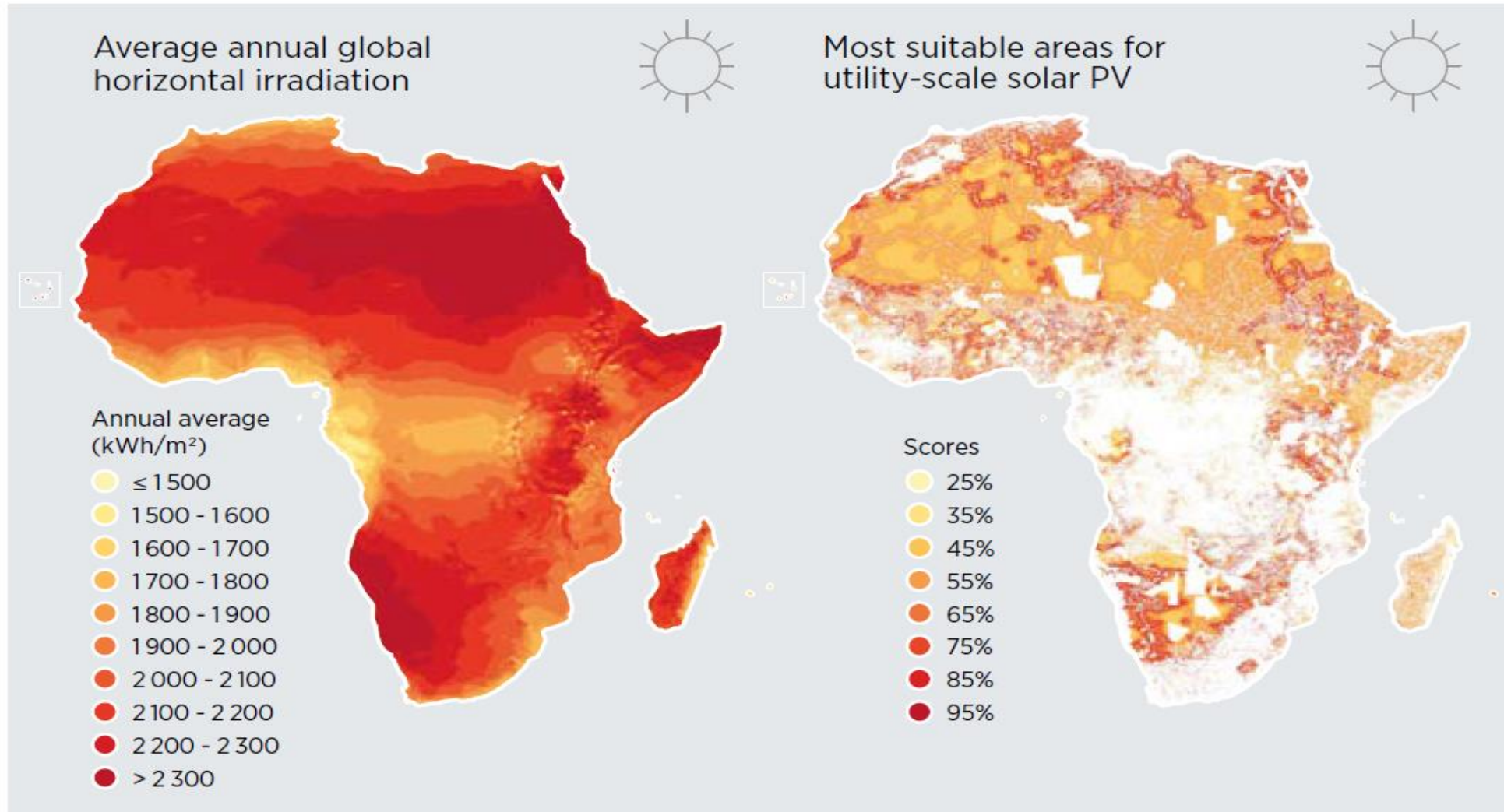


GCC solar photovoltaic IPP tariffs, Low bid – LCOE (\$cents/kWh)



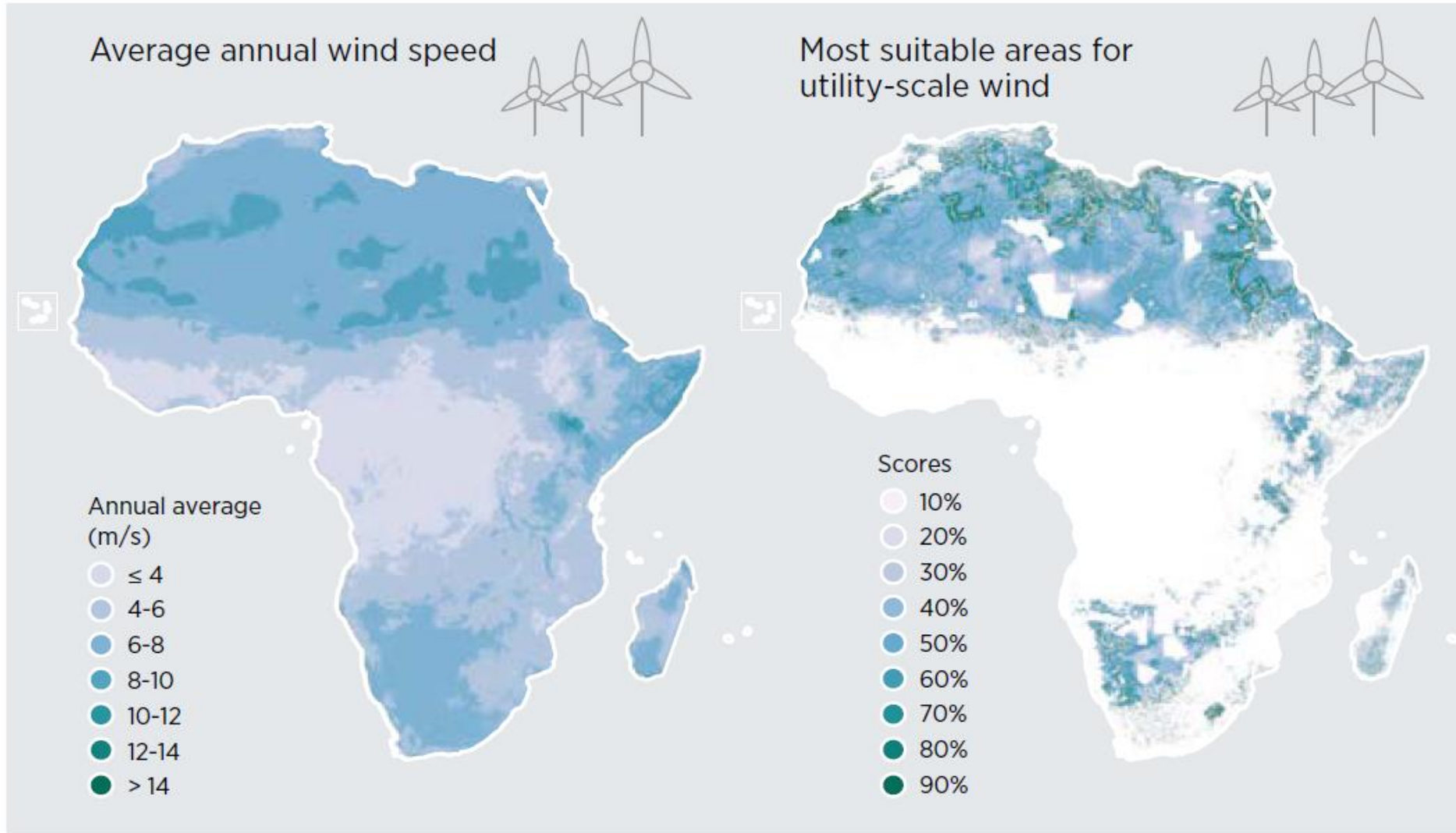
Why? Solar PV Potential

Africa has some of the world's highest solar energy production potential. The average annual solar radiation received by the continent is 2,119-kilowatt hours per square metre (kWh/m²), with most nations in North, West, and Southern Africa receiving an average of more than 2,100 kWh/m² yearly.



Why? Wind Energy Potential

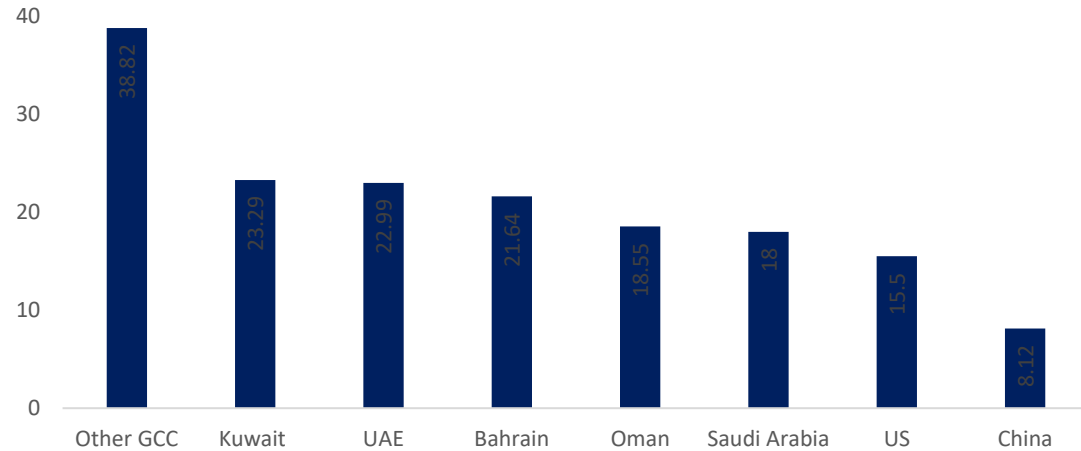
North Africa and Southern Africa experience strong annual average wind speeds, which can exceed 7 metres per second (m/s).



Why? The Economic Impact

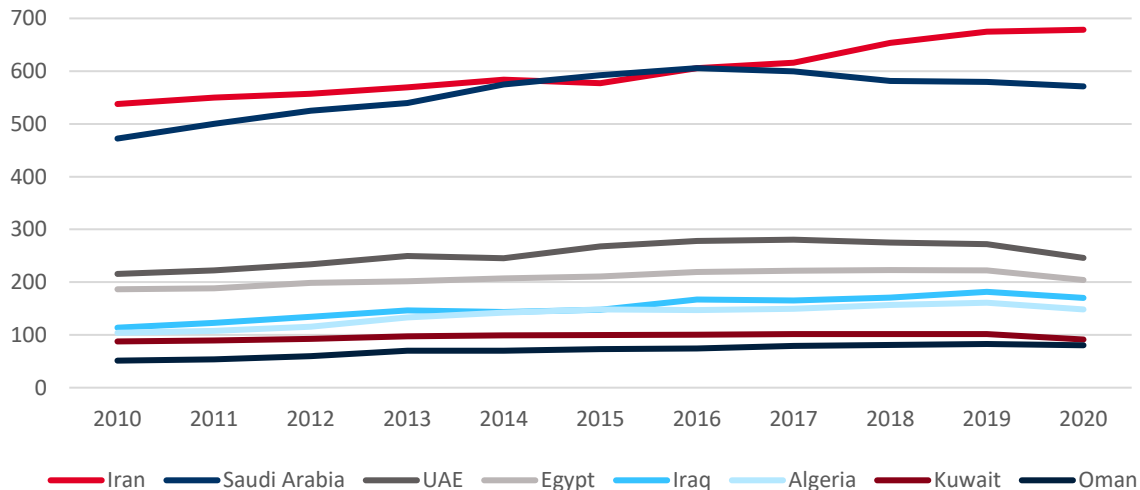
The MENA region has some of the world's highest per capita CO2 emissions rates. Gas and oil-fired production is also a lost revenue opportunity

Carbon dioxide emissions per capita (tonnes), 2019



Source: EDGAR (EU Emissions Monitor), MEED

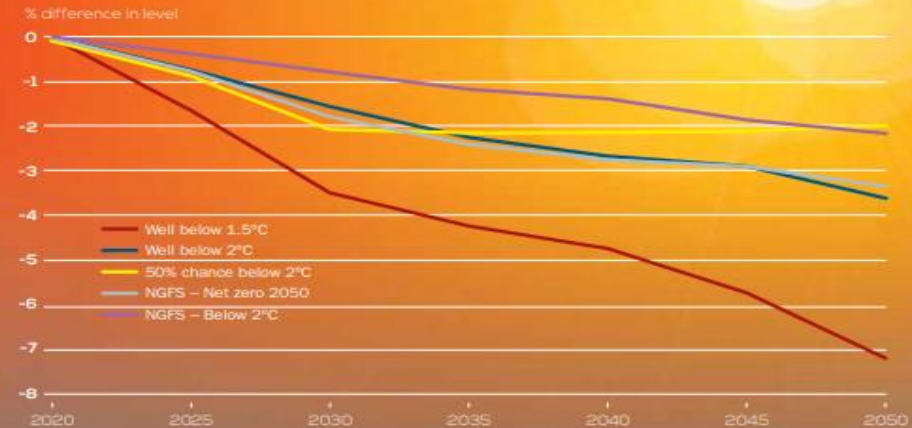
Carbon dioxide emissions per capita (tonnes), 2019



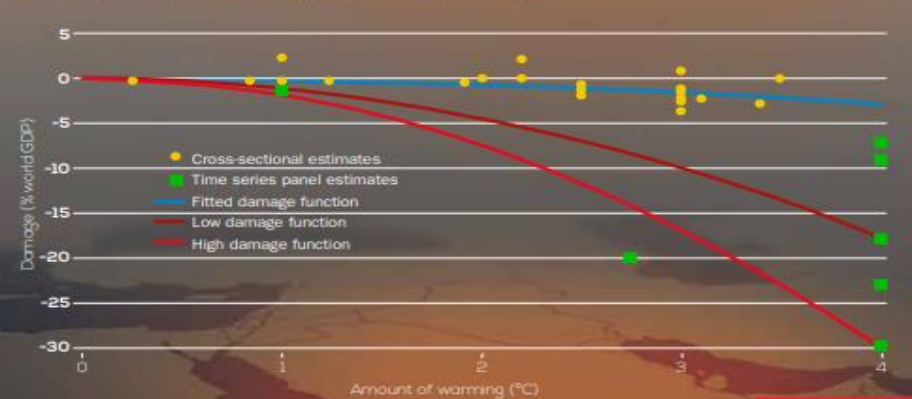
A COSTLY ENDEAVOUR

The global consensus has resolved on the need for an urgent green energy transition, which will require costly spending to avert greater ruin

LOSS IN WORLD GDP IN MITIGATION SCENARIOS



IMPACT OF GLOBAL WARMING ON WORLD GDP



NGFS=Network for Greening the Financial System. Sources: Oxford Economics, International Institute for Applied Systems Analysis advance and NGFS databases

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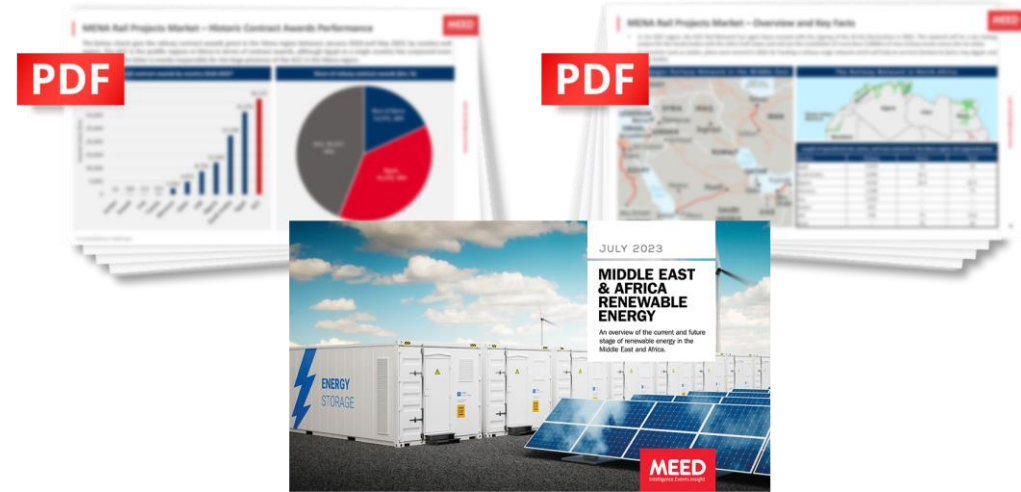
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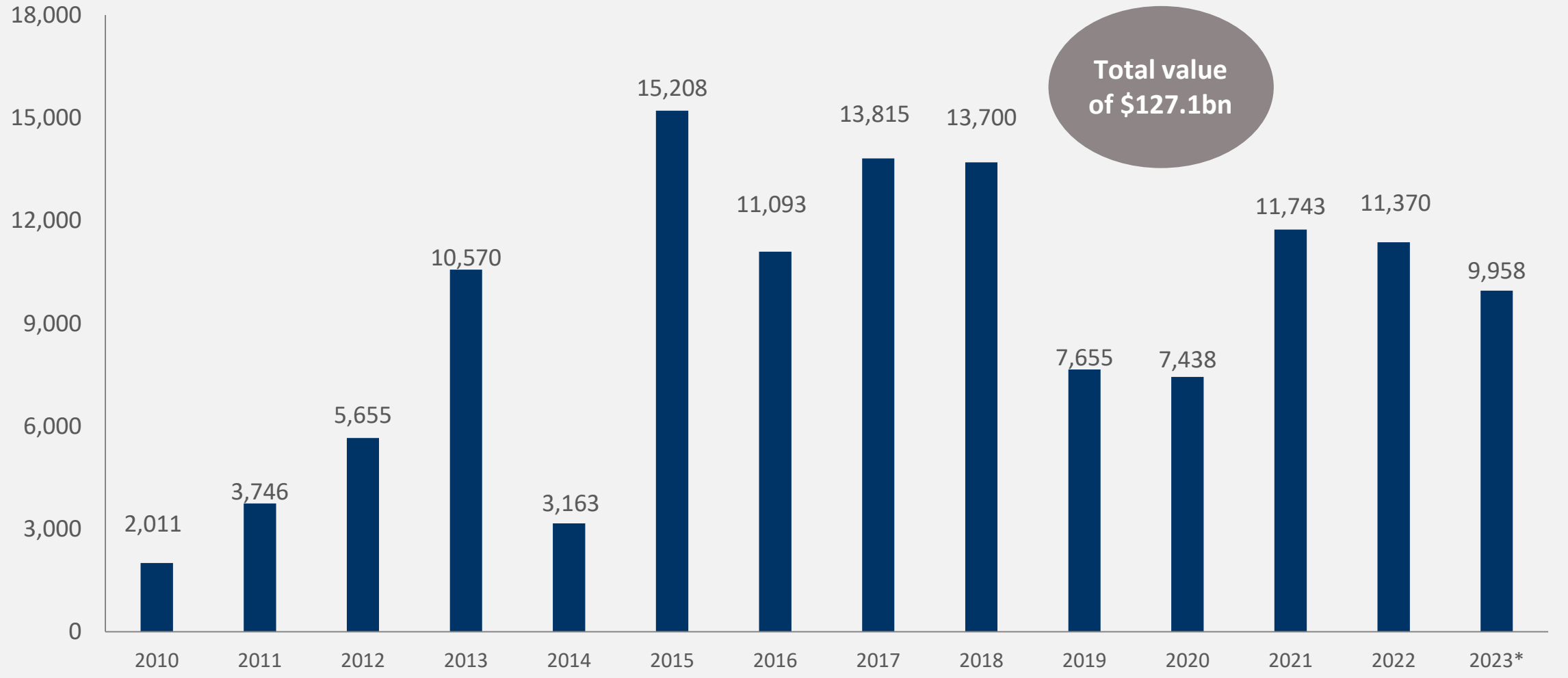
MEA Renewable Energy Projects market



MEA Renewable Energy Projects Market – Historical performance

Between January 2010 and June 2023, MEA's renewable energy sector saw projects worth just over \$127bn being awarded, most of which were in the solar sector. The impact of the Covid-19 pandemic interrupted the momentum of renewable energy projects across the MEA region, with contract awards dipping to \$7.4bn in 2020. However, the sector posted a strong recovery in 2021 and 2022, while this year could set a new record.

MEA Renewable Energy contract awards, January 2010–June 2023* (\$m)

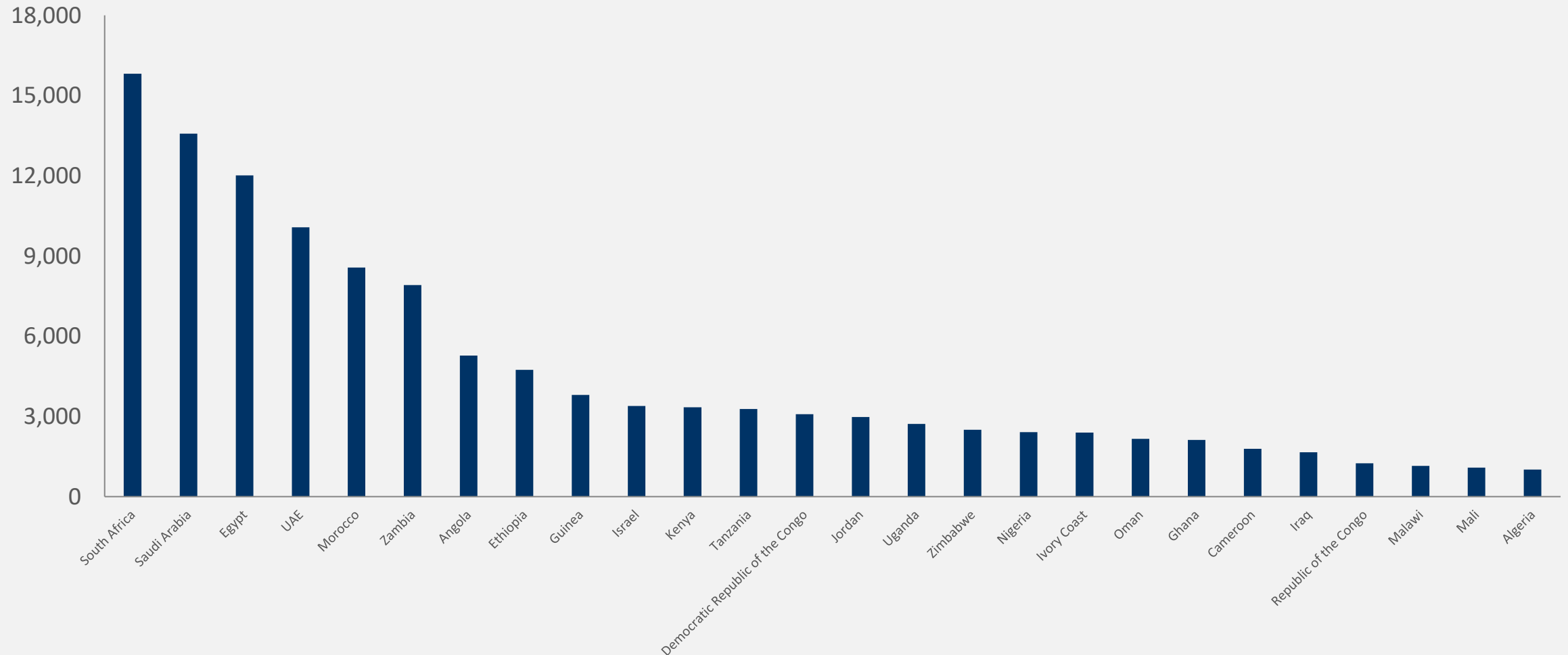


*=Mid-June 2023; Source: MEED Insight

MEA Renewable Energy Projects Market – Historical performance

Of the \$127.1bn-worth of renewable energy projects awarded between January 2010 and June 2023 in the MEA region, South Africa with contracts worth more than \$15bn occupies first place, followed by Saudi Arabia, Egypt and the UAE.

MEA Renewable Energy Projects Market contract awards by country, 2010–2023* (\$m)

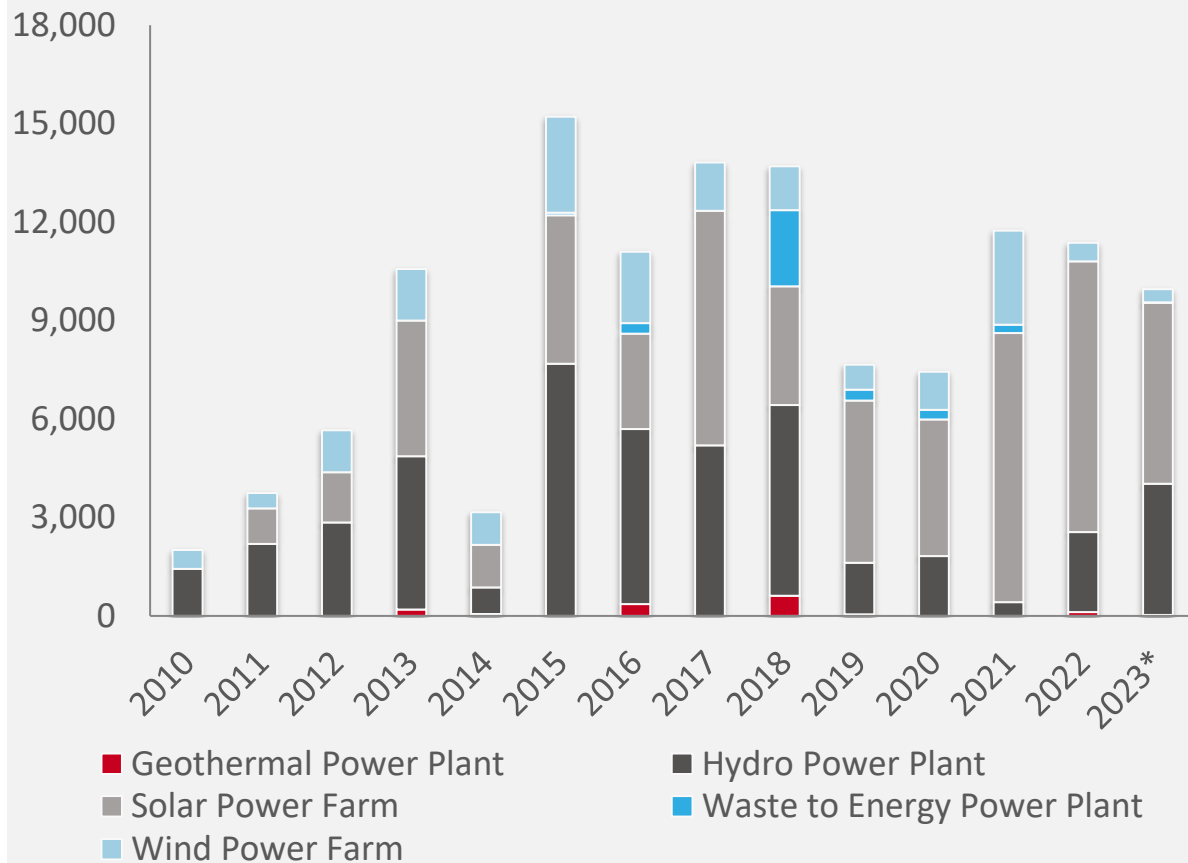


*=Mid-June 2023; Source: MEED Insight

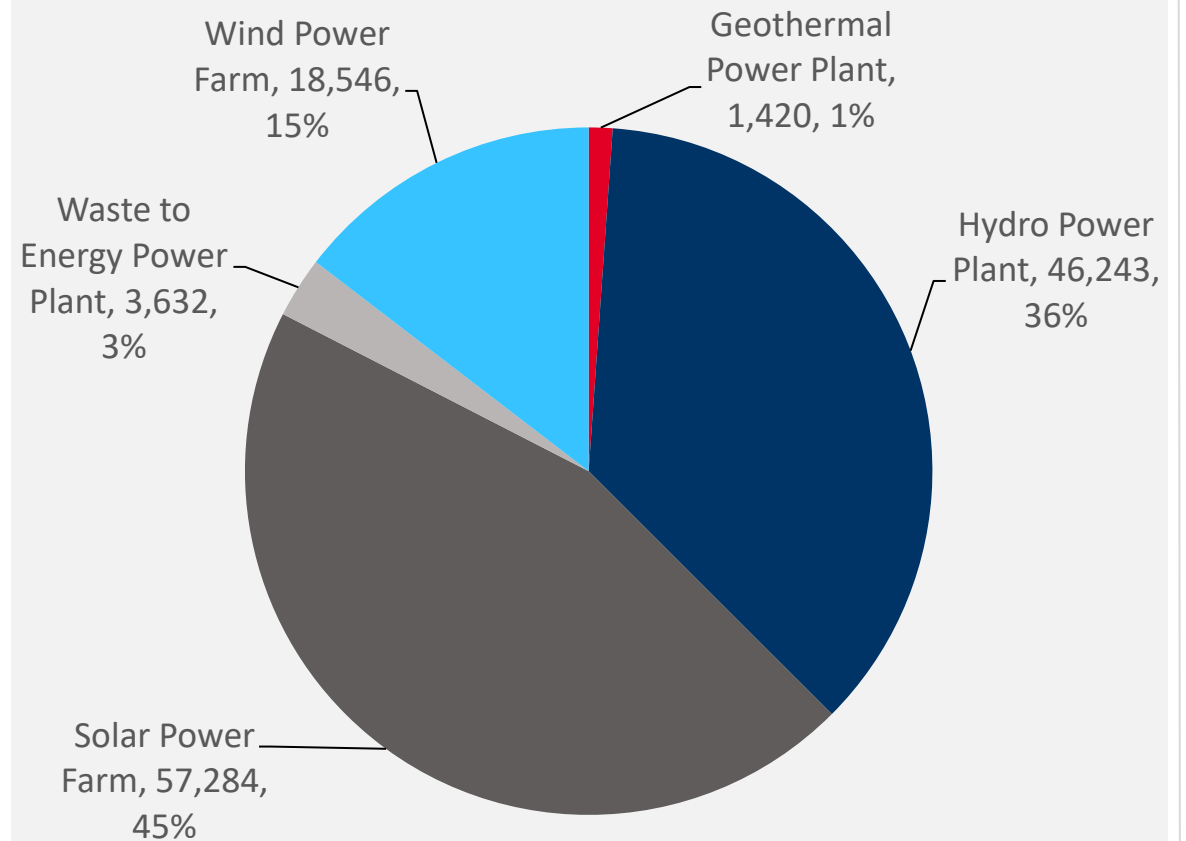
MEA Renewable Energy Projects Market – Historical performance

Investments in solar power generation comprised almost half of all electricity production contract awards over the past 13 years, most of which were in the MENA region. Conversely, in sub-Saharan Africa hydroelectricity is the dominant form of renewable energy production. Wind power takes a more niche position in the region due to less suitable wind profiles but also the strong potential for solar

MEA Renewable Energy Projects Market contract awards by year and sector (\$m), 2010–2023*



MEA Renewable Energy Projects Market contract awards by sector (\$m, %), 2010–2023*

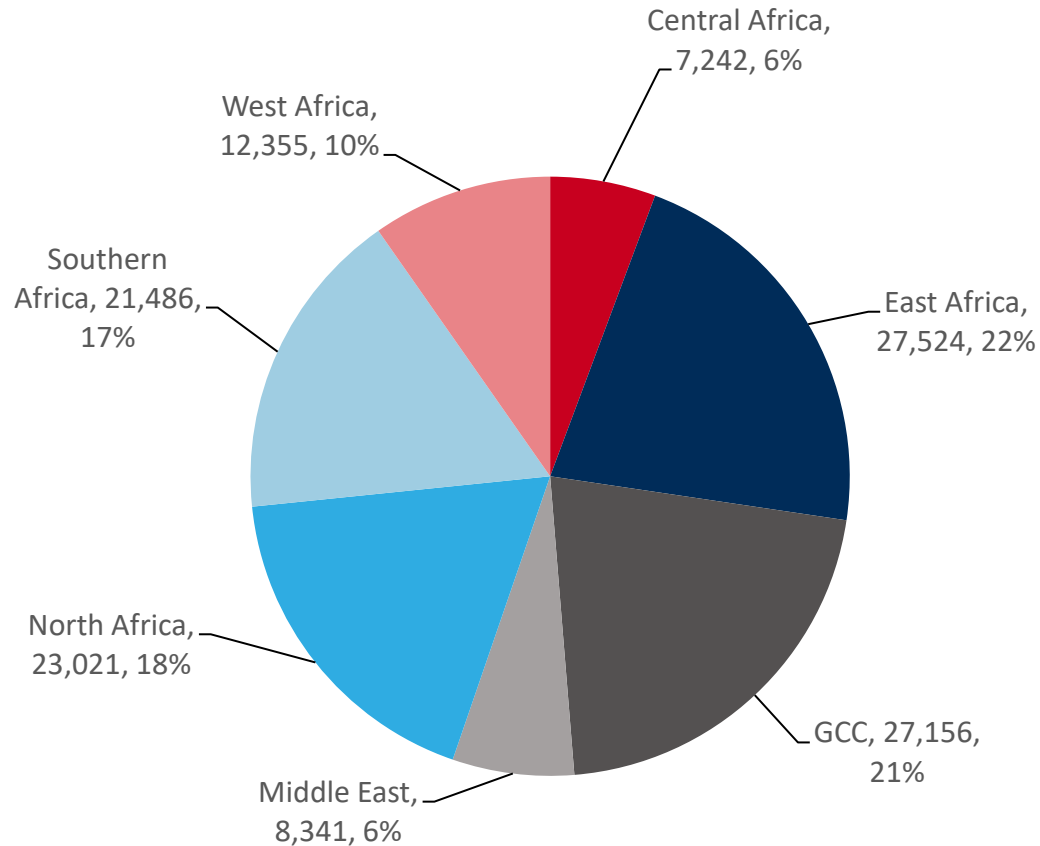


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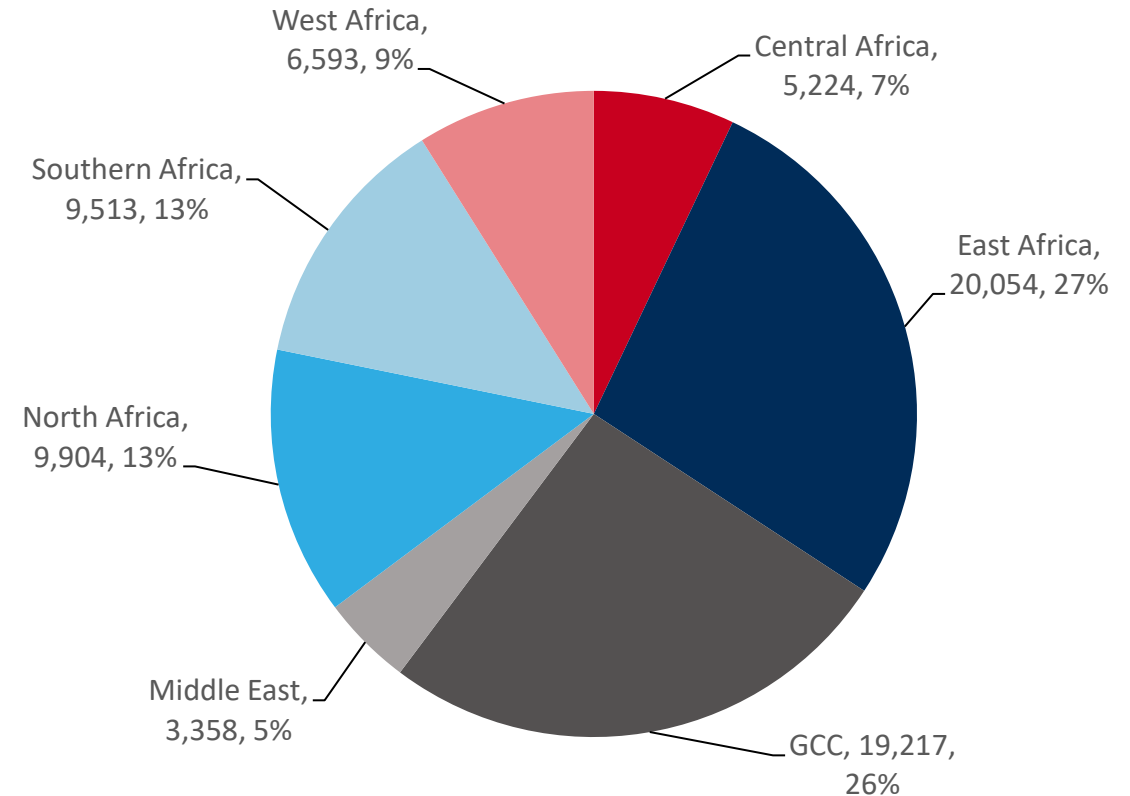
MEA Renewable Energy Projects Market – Historical performance

Of the total renewable energy projects awarded between January 2010 and June 2023 in the MEA region, the East Africa region has had the largest share with about 22 per cent of contracts being awarded. It is closely followed by the GCC nations with just over a 21 per cent share.

**MEA Renewable Energy Projects Market contract awards by region
(\$m, %), 2010–2023***



**MEA Renewable Energy Project market, Projects under execution by
region (\$m, %)**



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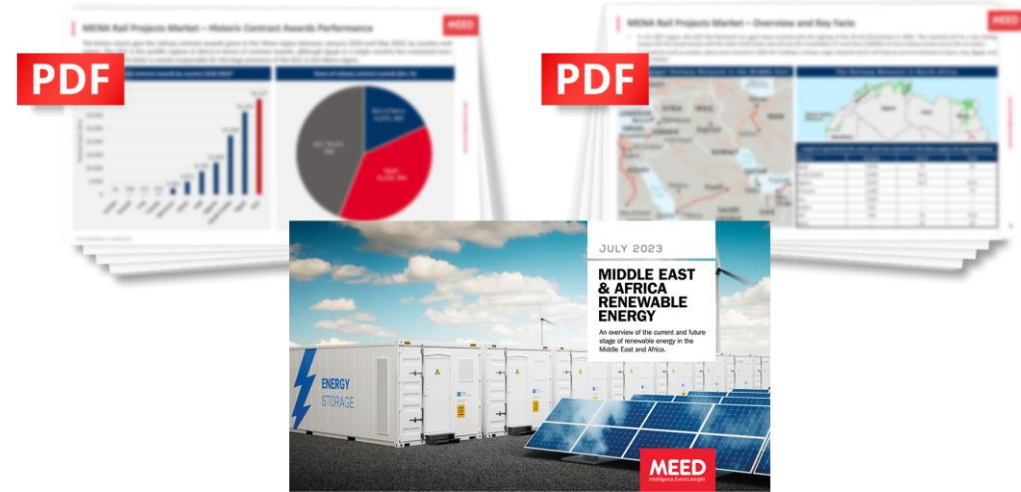
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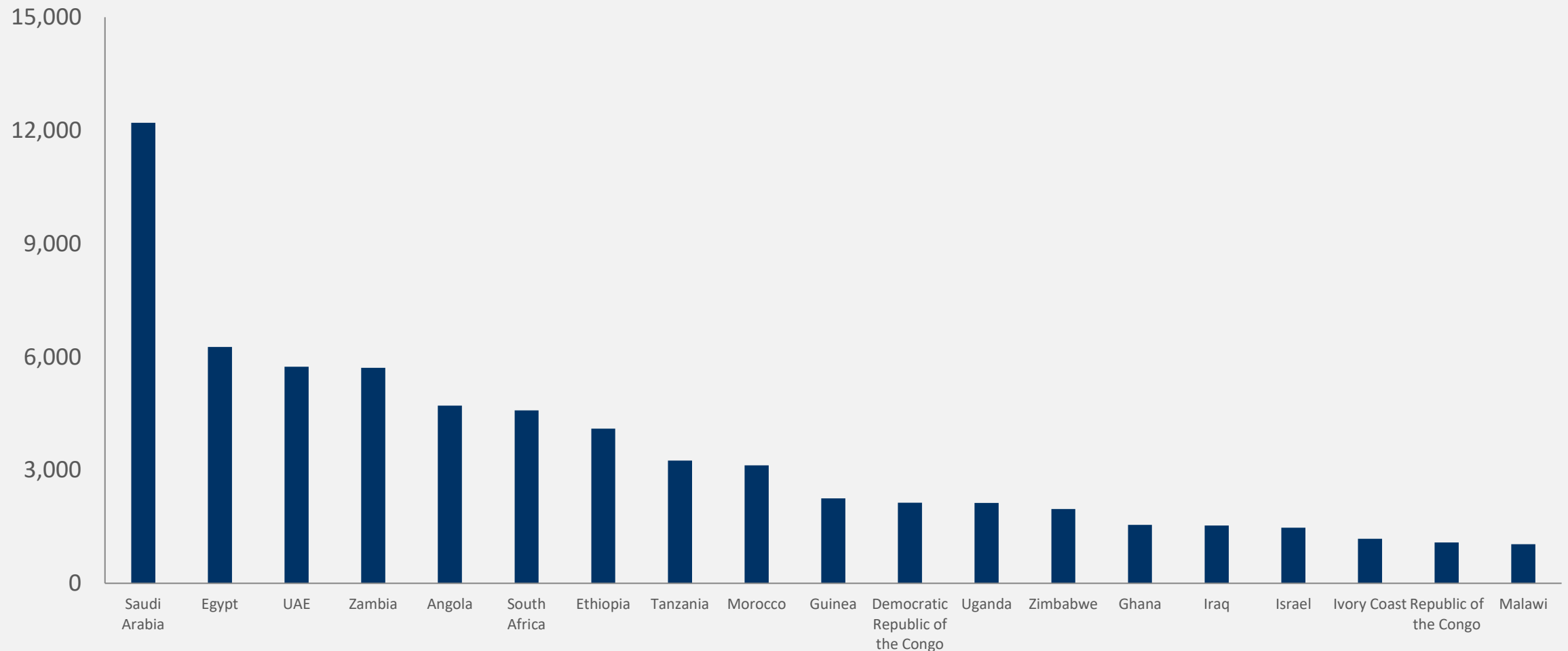
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MEA Renewable Energy Projects Market – Current Spending

Of the nearly \$74bn-worth of renewable energy projects that are currently underway in the MEA region, Saudi Arabia with contracts worth more than \$12bn occupies the first place. It is followed by Egypt in the second place with about \$6.2bn and the UAE being third with \$5.7bn. These top three countries have projects nearly one-third per cent of share of total projects that are currently underway.

MEA Renewable Energy Project market, Projects under execution by country (\$m, with more than \$1bn value)



MEA Renewable Energy Projects Market – Key projects under execution

Below are the top 20 renewable energy contracts underway in the MEA region

Project	Country	Sector	Owner	Value (\$m)	Award Year	Capacity (MW)	Completion Year
Caculo Cabaca Hydroelectric Power Plant 2,172MW	Angola	Hydro Power Plant	Minister of Energy and Water, Angola	4,530	2015	2,172	2026
Batoka Hydroelectric Power Plant 2,400MW	Zambia	Hydro Power Plant	Zambezi River Authority	4,000	2023	2,400	2026
NEOM City: Green Fuels: Renewable Energy Project	Saudi Arabia	Solar Power Farm	NEOM Green Hydrogen Company	4,000	2021	4,300	2026
950MW MBR Al Maktoum Solar Power Plant CSP (Phase 4)	UAE	Solar Power Farm	Noor Energy 1 PSC	3,866	2017	950	2023
Rufiji Hydroelectric Power Plant 2,115MW	Tanzania	Hydro Power Plant	Rufiji Basin Development Authority/Tanzania Electric Supply Company (TANESCO)	2,900	2018	2,115	2024
Renewable Energy Program: Phase 2: Shuaibah 2 Solar PV Power Plant	Saudi Arabia	Solar Power Farm	Acwa Power/Public Investment Fund (PIF)	2,560	2022	2,060	2025
Koysha Dam Hydroelectric Power Plant 2,160MW	Ethiopia	Hydro Power Plant	Ethiopian Electric Power Corp	2,160	2016	2,160	2025
2,400MW Hydropower Power Plant in Attaqa	Egypt	Hydro Power Plant	Ministry of Electricity and Energy, Egypt	2,080	2018	2,400	2026
Karuma Hydroelectric Power Plant 600MW	Uganda	Hydro Power Plant	Ministry of Energy and Mineral Development, Uganda	1,650	2013	600	2023
Gilgel Gibe IV Hydroelectric Power Plant 1,472MW	Ethiopia	Hydro Power Plant	Ethiopian Electric Power Corp	1,500	2016	1,472	2024
2,000MW Al-Rass 2 Solar PV Power Plant	Saudi Arabia	Solar Power Farm	Saudi Power Procurement Co.	1,142	2023	2,000	2025
Amaria Hydroelectric Power Plant 300MW	Guinea	Hydro Power Plant	Ministry of Energy and Water Resources, Guinea	1,040	2017	300	2024
1,584MW Al-Dhafra solar IPP	UAE	Solar Power Farm	Emirates Water and Electricity Company	1,000	2020	1,584	2023
Moroccan Solar Plan: Noor Midelt IPP (Noor M1)	Morocco	Solar Power Farm	Moroccan Agency for Solar Energy (Masen)	960	2019	380	2025
Moroccan Solar Plan: Noor Midelt IPP (Noor M2)	Morocco	Solar Power Farm	Moroccan Agency for Solar Energy (Masen)	960	2019	420	2024
Mpatamanga Hydropower Project	Malawi	Hydro Power Plant	Ministry of Natural Resources and Energy, Malawi	856	2022	350	2025
1,425MW Al Kahfah Solar PV Power Plant	Saudi Arabia	Solar Power Farm	Saudi Power Procurement Co.	814	2023	1,425	2025
1GW PV Plant and Energy Storage System	Ghana	Solar Power Farm	Meinergy Technology/Huawei Technologies	800	2022	1,000	2025

MEA Renewable Energy Projects Market – Top projects awarded between January-June 2023*

Below listed are the top renewable energy contracts awarded in the MEA region between January and mid-June 2023. Projects related to solar power plants accounted for more than 50 per cent of the first six months of 2023 awards value in the MEA region.

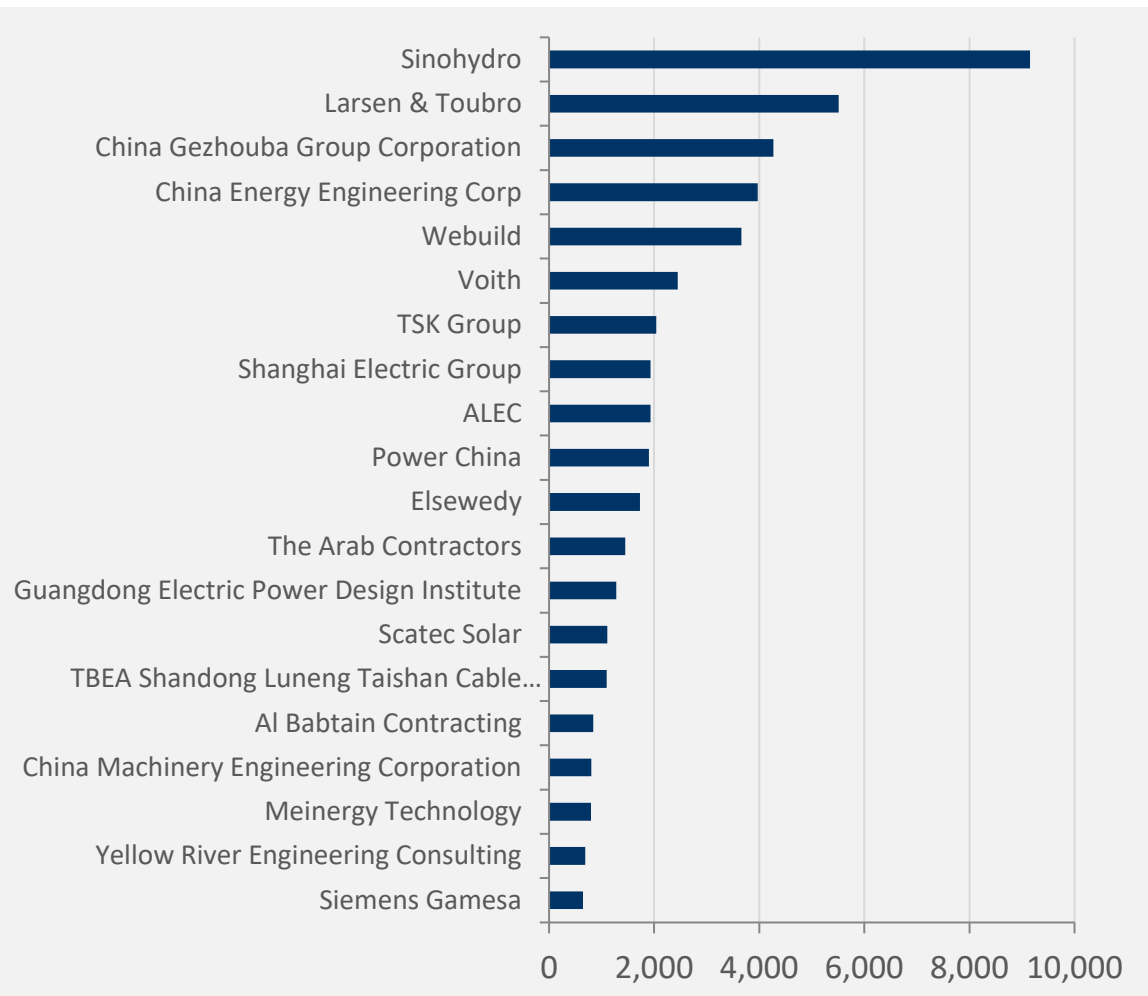
Project	Country	Sector	Owner	Value (\$m)	Capacity (MW)	Completion Year
Batoka Hydroelectric Power Plant 2,400MW	Zambia	Hydro Power Plant	Zambezi River Authority	4,000	2,400	2026
2,000MW Al-Rass 2 Solar PV Power Plant	Saudi Arabia	Solar Power Farm	Saudi Power Procurement Co.	1,142	2,000	2025
1,425MW Al Kahfah Solar PV Power Plant	Saudi Arabia	Solar Power Farm	Saudi Power Procurement Co.	814	1,425	2025
1,125MW Saad 2 Solar PV Power Plant	Saudi Arabia	Solar Power Farm	Saudi Power Procurement Co.	643	1,125	2025
750MW Solar Power Plant	Iraq	Solar Power Farm	Ministry of Electricity, Iraq	520	750	2025
Manah Solar 2 IPP	Oman	Solar Power Farm	Oman Power & Water Procurement	400	500	2025
Manah Solar 1 IPP	Oman	Solar Power Farm	Oman Power & Water Procurement	400	500	2025
Mpumalanga Wind Farm 155MW	South Africa	Wind Power Farm	Seriti Green	180	155	2025
Renewable Energy Program: Round 3: 120MW Wadi Al Dawaser Power Plant	Saudi Arabia	Solar Power Farm	Saudi Power Procurement Co.	144	120	2024
75MW Wind Farm At Chenenni	Tunisia	Wind Power Farm	Tunisian Company of Electricity & Gas	130	75	2027
100MW PV Power Plant	Zimbabwe	Solar Power Farm	Ministry of Energy & Power Development/Shaanxi Northwest Power Generation Co. Ltd/China International Energy Sources Group	120	100	2025
180MW Zanzibar Solar Power Plant	Tanzania	Solar Power Farm	Zanzibar Electricity Corporation	112	180	2025
50MWp Solar PV Plant and Associated 33/220kV Substation in Shinyanga	Tanzania	Solar Power Farm	Tanzania Electric Supply Company (TANESCO)	80	50	2026
100MW Photovoltaic Power Plant in Mabandare	Sierra Leone	Solar Power Farm	Ministry Of Energy and Water Resources, Sierra Leone	80	100	2025

*=Mid-June 2023; Source: MEED Insight

MEA Renewable Energy Projects Market - Leading Contractors and Developers

Below is the list of top 20 main contractors working on the renewable energy projects in the MEA region. These top contractors have about \$47.2bn-worth of projects under execution.

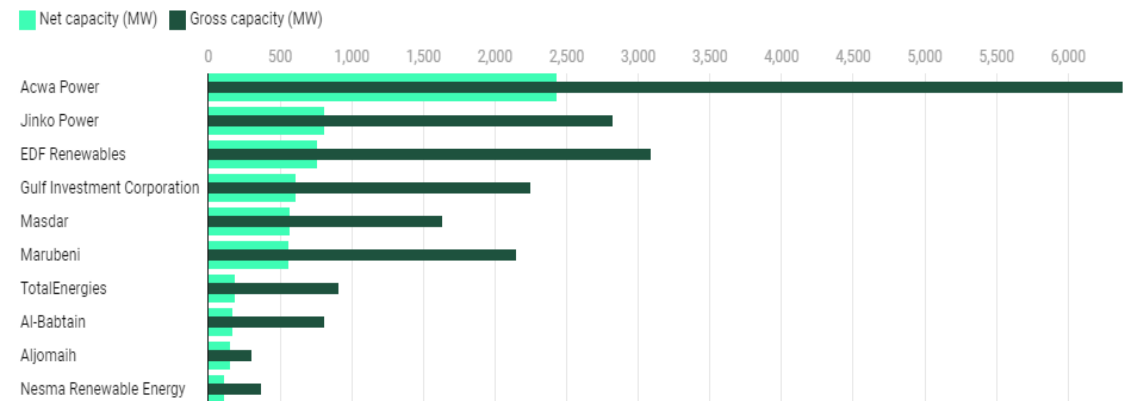
Top current contractors in the MEA region by the value of work under execution (\$m)



Source: MEED

In terms of GCC renewable energy developers, ACWA Power, part owned by the Saudi government, is by far the largest player with more than 6GW of total gross capacity and a net equity capacity of nearly 2.5GW as of end 2022

MEED GCC renewable power developer ranking



*Includes utility-scale and captive solar PV projects but excludes distributed rooftop solar

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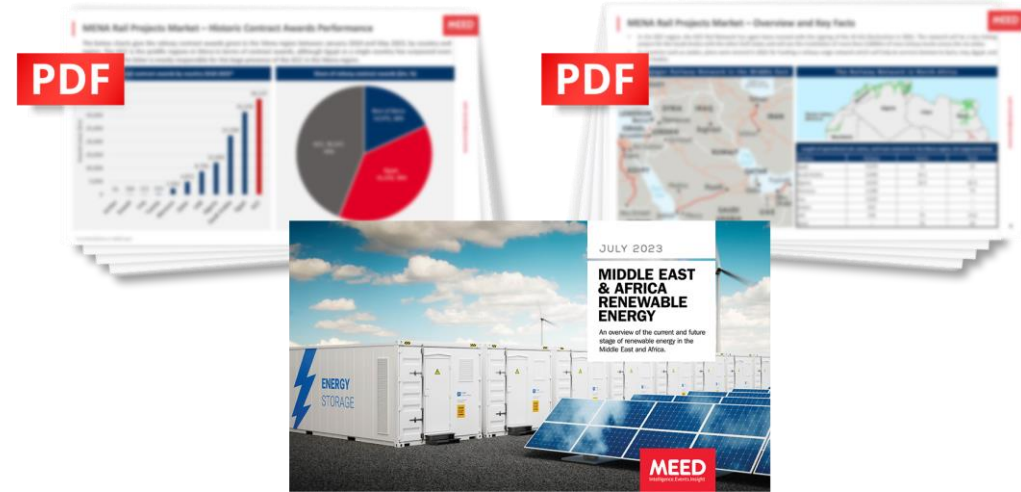
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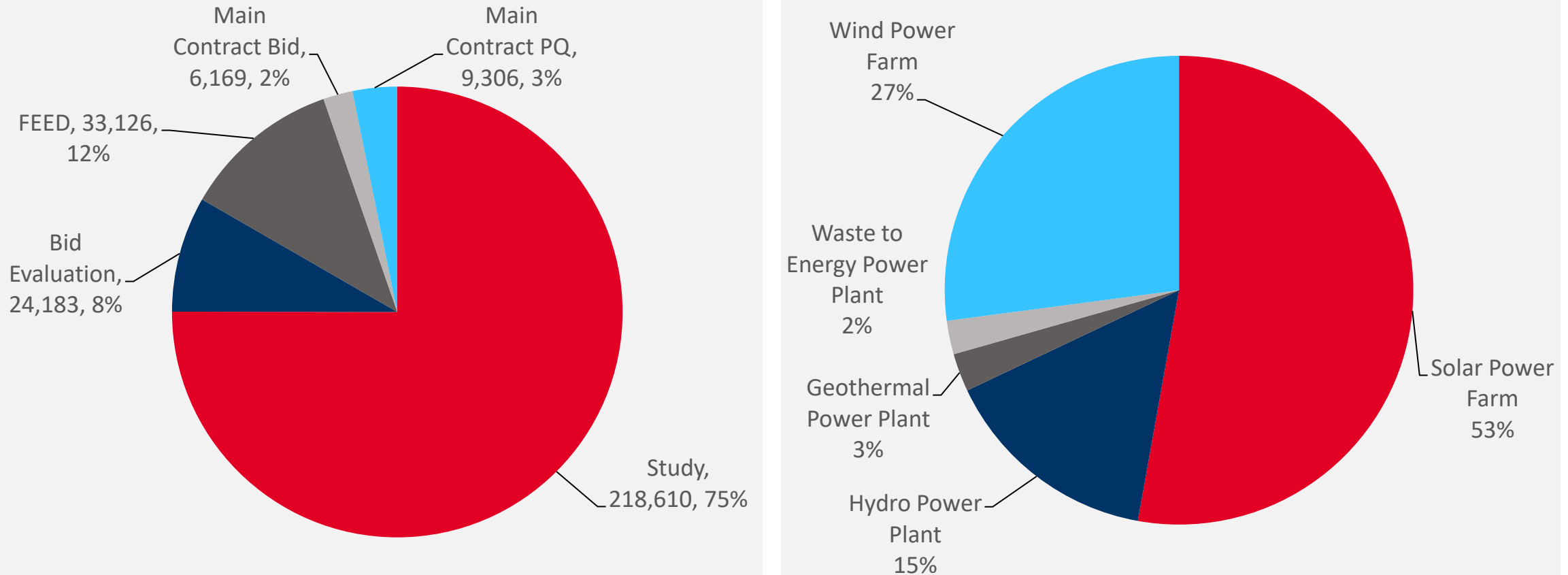
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MEA Renewable Energy Projects Market – Pre-execution

MEA region have projects worth just over \$291bn lined up for award in the coming years, of which nearly \$40bn are in different stages of bidding and could be awarded in the next two years. This sparks hope for contractors looking for contract awards in the short term.

MEA Renewable Energy Project market, pre-execution contracts by status and sector (\$m, %)

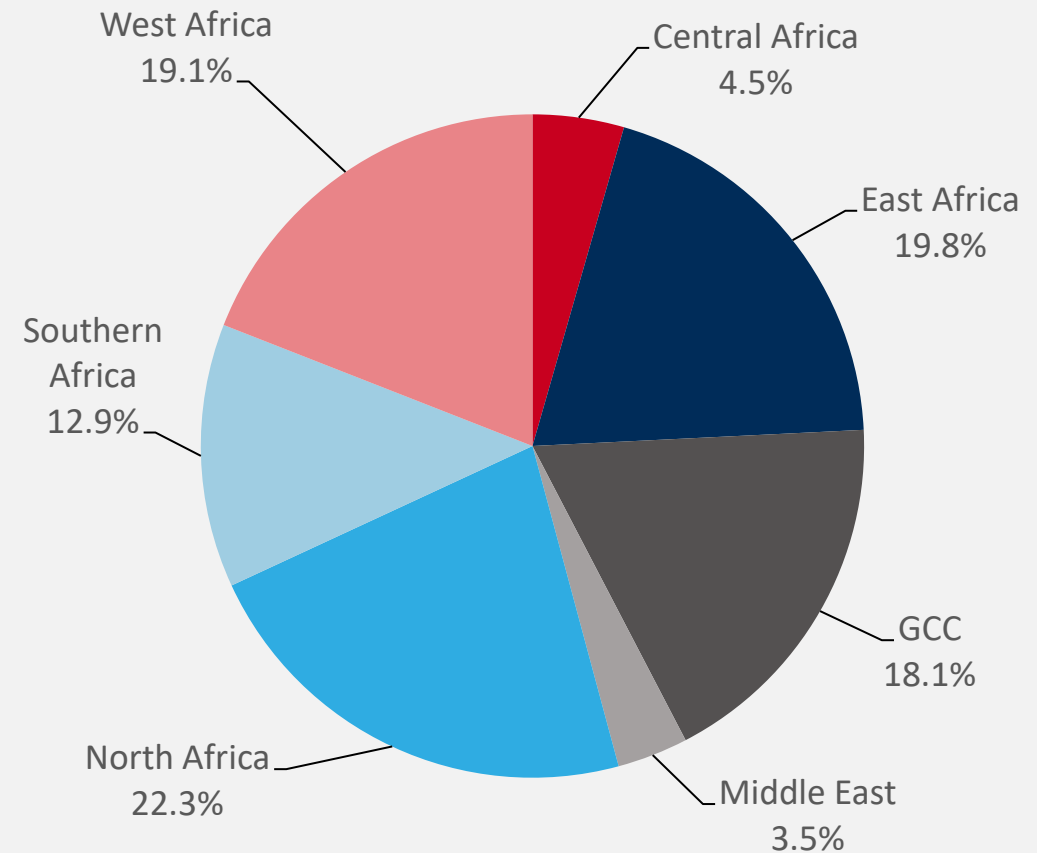
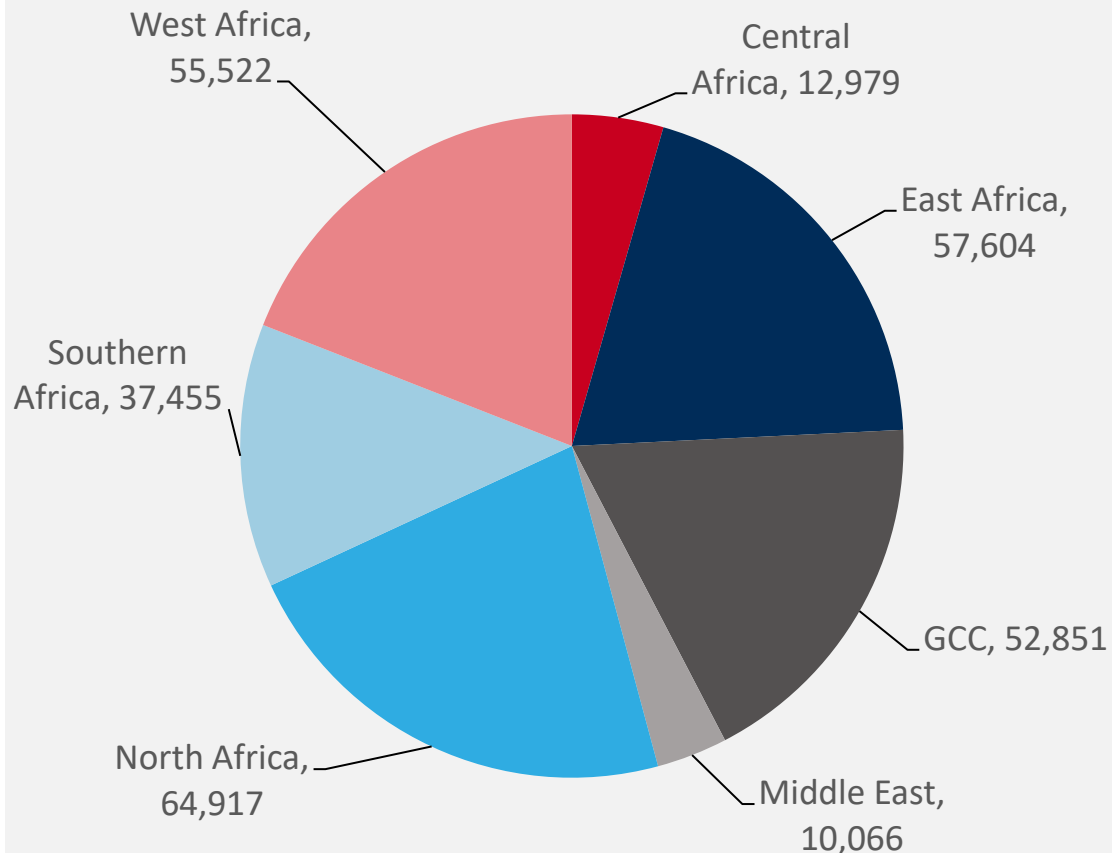


Of the total \$291.3bn of planned and unawarded contracts, about \$153.8bn is in solar power sector and \$78.9bn is in the wind power sector. Furthermore, \$44.1bn is in the hydro power plant, \$7.6bn is in geothermal, and \$6.7bn is in waste to energy power plant.

MEA Renewable Energy Projects Market – Pre-execution

Of the total planned and unawarded renewable energy project awards spread in the MEA region, the North Africa region comprising of countries such as Algeria, Egypt, Libya, Morocco and Tunisia have nearly \$65bn-worth of projects that are in different stages of pre-execution. It is followed by East Africa with more than \$57bn, West Africa with more than \$55bn and the GCC having nearly \$53bn-worth of projects.

MEA Renewable Energy Project market, pre-execution contracts by region (\$m, %)



MEA Renewable Energy Projects Market – Key Projects in Bidding

Below listed are the top contracts in different stages of bidding in the MEA Renewable Energy Projects market.

Project	Country	Sector	Status	Owner	Estimated value (\$m)	Capacity (MW)	Award quarter, year
1,500MW Mphanda Nkuwa Hydroelectric Power Plant IPP	Mozambique	Hydro Power Plant	Bid Evaluation	Mphanda Nkuwa Hydroelectric Project Implementation Office	4,500	1,500	Q3, 2023
Renewable Energy IPP Programme: Window VI: Wind 4,116MW	South Africa	Wind Power Farm	Bid Evaluation	Department of Mineral Resources and Energy	4,200	4,116	Q4, 2023
1,500MW PV4 Solar IPP	UAE	Solar Power Farm	Main Contract PQ	Emirates Water and Electricity Company	2,250	1,500	Q1, 2024
Renewable Energy Round IV: 1,100MW Al-Hinakiyah solar IPP	Saudi Arabia	Solar Power Farm	Bid Evaluation	Saudi Power Procurement Co.	1,500	1,100	Q3, 2023
Al Ajban Solar PV IPP	UAE	Solar Power Farm	Bid evaluation	Emirates Water and Electricity Company	1,125	1,500	Q3, 2023
25MW Askar Waste to Energy Plant	Bahrain	Waste to Energy Power Plant	Main Contract PQ	Bahrain Ministry of Municipalities Affairs & Urban Planning	1,000	25	Q1, 2024
Renewable Energy Program Round IV: 700MW Yanbu wind IPP	Saudi Arabia	Wind Power Farm	Main Contract Bid	Saudi Power Procurement Co.	1,000	700	Q4, 2023
961MW Solar PV and 455MW Energy Storage System	Nigeria	Solar Power Farm	Bid Evaluation	Niger Delta Power Holding	1,000	961	Q3, 2024
Solar PV Plant 900MW IPP	UAE	Solar Power Farm	Main Contract PQ	Dubai Electricity & Water Authority	1,000	900	Q1, 2024
Lebanon Wind Power Program Round 2	Lebanon	Wind Power Farm	Main Contract Bid	Lebanese Center for Energy Conservation	920	520	Q3, 2023
MBRM Solar Power Plant (IPP): Phase 6	UAE	Solar Power Farm	Bid Evaluation	Dubai Electricity & Water Authority	900	1,800	Q3, 2023
Renewable Energy Program Round IV: 600MW Al-Ghat wind IPP	Saudi Arabia	Wind Power Farm	Main Contract Bid	Saudi Power Procurement Co.	860	600	Q4, 2023
Solar PV Power Plants Program 500MW	Zimbabwe	Solar Power Farm	Bid Evaluation	Zimbabwe Electricity Transmission & Distribution Co.	800	500	Q4, 2023
Songwe River Basin Hydroelectric Power Plant 180MW	Malawi	Hydro Power Plant	Main Contract PQ	Ministry of Transport and Public Works, Malawi/Tanzania Ministry of Water	761	180	Q1, 2024
Bumbuna Hydroelectric Power Plant Phase II 143MW	Sierra Leone	Hydro Power Plant	Bid Evaluation	Seli Hydro Electric Power/Joule Investments/Ministry Of Energy and Water Resources, Sierra Leone	750	143	Q3, 2023
Ruzizi III Hydroelectric Power Plant 206MW	Democratic Republic of the Congo	Hydro Power Plant	Main Contract PQ	Ruzizi III Energy	750	206	Q1, 2024
Renewable Energy Program Round IV: 500MW Waad al-Shamal wind IPP	Saudi Arabia	Wind Power Farm	Main Contract Bid	Saudi Power Procurement Co.	716	500	Q4, 2023
Al Dhafra Waste-To-Energy Project	UAE	Waste to Energy Power Plant	Bid Evaluation	Abu Dhabi Waste Management Centre/Emirates Water and Electricity Company	600	NA	Q3, 2023

MEA Renewable Energy Projects Market – Key projects in Study and Design

Below listed are the top 20 contracts in the MEA Renewable Energy Projects market that are in study and design stage.

Project	Country	Sector	Status	Owner	Estimated value (\$m)	Capacity (MW)	Award year
Project AMAN: Wind Power Plant	Mauritania	Wind Power Farm	Study	CWP Global	20,000	18,000	2024
Morocco-UK Power Project: 7,000MW Solar Power Plant in Morocco	Morocco	Solar Power Farm	Study	Xlinks	16,345	7,000	2025
Project AMAN: Solar Power Plant	Mauritania	Solar Power Farm	Study	CWP Global	15,000	12,000	2024
10GW Wind Farm in Egypt	Egypt	Wind Power Farm	Study	Egyptian Electricity Transmission Company	10,000	10,000	2024
5,600MW Solar Power Project	Nigeria	Solar Power Farm	Study	Ministry of Power & Steel, Nigeria	6,000	5,600	2024
Boegoebaai Green Hydrogen Hub: Solar Power Plant	South Africa	Solar Power Farm	Study	Sasol Ltd	5,000	NA	2025
Boegoebaai Green Hydrogen Hub: Wind Power Plant	South Africa	Wind Power Farm	Study	Sasol Ltd	5,000	NA	2025
Djibouti Green Hydrogen Project: Solar Power Plant	Djibouti	Solar Power Farm	Study	CWP Global	5,000	NA	2025
Djibouti Green Hydrogen Project: Wind Power Plant	Djibouti	Wind Power Farm	Study	CWP Global	5,000	NA	2025
Morocco-UK Power Project: 3,500MW Wind Power Plant in Morocco	Morocco	Wind Power Farm	Study	Xlinks	4,000	3,500	2024
5GW Wind Farm	Egypt	Wind Power Farm	Study	Egyptian Electricity Transmission Company/New and Renewable Energy Authority	4,000	5,000	2025
Tams Hydropower Plant 1,700MW	Ethiopia	Hydro Power Plant	Study	Ethiopian Electric Power Corp	3,242	1,700	2024
Grand Eweng Dam Hydroelectric Power Plant 810MW	Cameroon	Hydro Power Plant	Study	Ministry of Energy and Water Resources, Cameroon/Hydromine	3,000	810	2024
3GW Wind Farm	Egypt	Wind Power Farm	Study	Egyptian Electricity Transmission Company/New and Renewable Energy Authority	3,000	3,000	2024
Kinsuka Rapids Hydroelectric Power Plant 900MW	Democratic Republic of the Congo	Hydro Power Plant	Study	Ministry of Energy and Water Resources, Democratic Republic of Congo	3,000	900	2024
Renewable Energy Program: Round 5	Saudi Arabia	Solar Power Farm	Study	Saudi Power Procurement Co.	3,000	NA	2024
Nigeria Zungeru Hydropower Plant 1,650MW	Nigeria	Hydro Power Plant	FEED	Ministry of Power & Steel, Nigeria	3,000	1,650	2023
Phase II: Renewable Energy Development	Namibia	Solar Power Farm	Study	Hyphen Hydrogen Energy	2,700	3,000	2025
Project AMUN: Solar Power Plant	Morocco	Solar Power Farm	Study	CWP Global	2,250	NA	2025

MEA Renewable Energy Projects Report 2023

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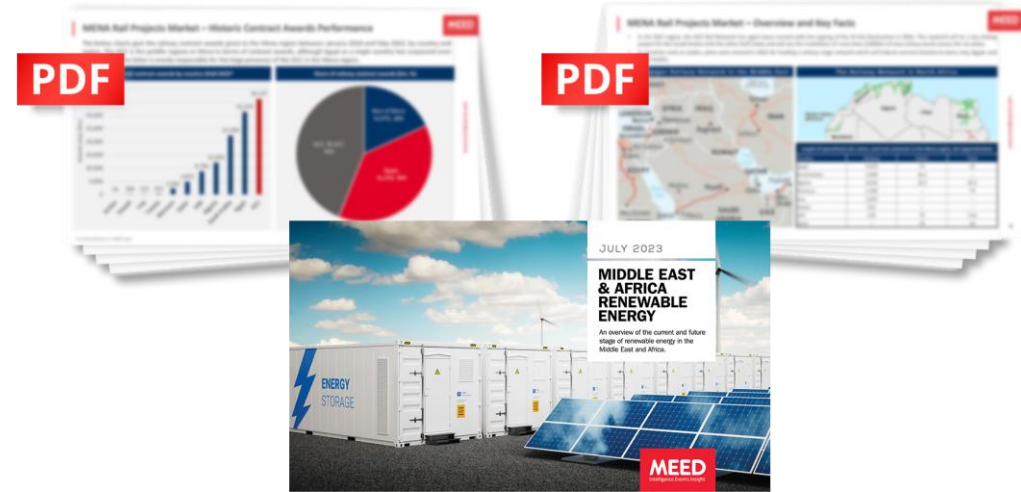
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- Key contacts at each of the client companies

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Sample Projects



UAE-DEWA - Hatta 250MW Pumped Storage Plant

A pumped-storage hydroelectric power station is being developed in Hatta, located 140km southeast of Dubai. The 250MW hydroelectric plant has a storage capacity of 1,500 million watts per hour and can generate electricity through the existing water resources for a span of 80 years.

Built on a budget of \$391m, the plant involves the construction of two reservoirs, an upper reservoir located 300m above the dam level, a 5.4km cable car route, and a 1.2km subterranean tunnel among other facilities.

The plant can store up to 1,716 million gallons of water flowing from the mountains near the Al Hattawi dam and utilize these water reservoirs for generating electricity. The upper reservoir of the plant that has been built, can preserve around 880 million gallons of water.

A consortium of Strabag, Andritz, and Ozkar has been appointed as the main contractor for this project. AESG will provide consultancy services for the project. Hitachi ABB has been appointed as the contractor to supply Andritz with state-of-the-art technology for grid connection and stabilization for the plant.

As of May 2023, around 70 per cent of the work has been completed. The project is scheduled to be commissioned by February 2024.

The aim of the project is to develop the entire Hatta region and make it both economically and environmentally sustainable.

Key project facts

Project name	Hatta 250MW Hydroelectric Power Plant
Country	UAE
Location	Hatta
Client/Project Company	Dubai Electricity & Water Authority (DEWA)
Project sponsors	NA
Renewable Capacity	250MW
Estimated cost (Budget)	\$391m
Contract type	Engineering Procurement Construction (EPC)
Model	
Project status	Execution
Award date	2019
Full completion	2024



UAE-DEWA - Hatta 250MW Pumped Storage Plant

Overview

The Hatta Hydroelectric Power Plant is part of DEWA's efforts to diversify energy resources for producing clean energy, as well as utilize the water resources of the region for generating electricity and saving on fuel costs.

This hydroelectric power plant uses state-of-the-art technologies for efficient functioning and longevity of the plant. Besides, the government is also developing other areas surrounding the project envisioning the overall development of the Hatta region.

The construction of a cable car for tourists, Dubai Mountain Peak, and the Hatta Sustainable Waterfalls project create opportunities for local employment and revenue generation as well.

Stakeholders

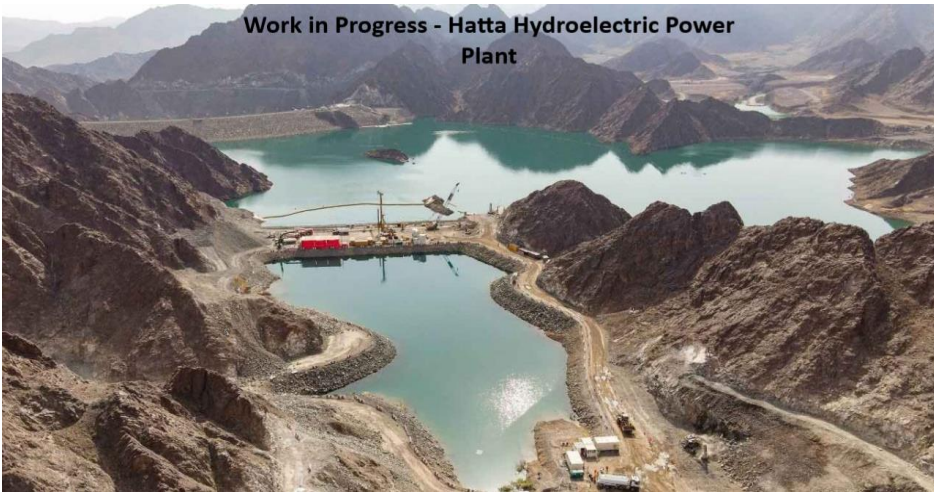
DEWA is the client of the project.

AESG is the consultant for the project.

Consortium of Strabag, Andritz, and Ozkar has been appointed as the main contractor for this project

Status

The project is in the execution stage and due to be completed next year



2016	2023	2019	2024
Project announcement	Execution	Main contract award	Project Completion

هيئة كهرباء ومياه دبي
Dubai Electricity & Water Authority



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graph LR; A[Supplier Portal  
[click here]] --> B[In the Main Services  
Section, click on  
Register New Vendor]; B --> C[Input details to  
register as user]; C --> D[Upload necessary  
attachments/documents]; D --> E[Application  
Submission];
```

Supplier Portal
[click here]

**In the Main Services
Section, click on
Register New Vendor**

**Input details to
register as user**

**Upload necessary
attachments/documents**

**Application
Submission**

The manual for updation of the already existing supplier is available at:

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Basic Details Product Agent & Attachments Registration Status

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In order to participate in DEWA Open and Selected Tenders and Selected Local Purchase Enquiries online, you need to be registered through Vendor Registration application as Supplier or Service Provider or Contractor.

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Company Name:

Vendor Account Group:

Reconciliation Account:

Company Details

Company Name:

Address:	
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Country:

Telephone: _____

Email Address 1:

Sponsor Name:

PO Box No:		
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Postal Code: Fax:

(#####-##### e.g. 00971-41234567

Email Address 2:

(example@domain.com):

Web URL:

Input details to register as user

Upload necessary attachments/documents

Application Submission

Activity:	example@domain.com		Category 2:	
Category 1:			Category 4:	
Category 3:			Category 6:	
Category 5:				

VAT Details

VAT Registration No: Region:

Turnover Amount(AED):

Trade Licence Details

Trade License No: Place of Issue:

License Issue Date: License Expiry Date:

Chamber of Comm Reg:

Contact Person Details

Contact 1 First Name: Contact 1 Last Name: Contact 1 Position: Address: Country: City: PO Box No: Postal Code: Region: Contact 1 Telephone: Contact 1 Mobile No: Contact 1 Email Address:	Contact 2 First Name: Contact 2 Last Name: Contact 2 Position: Address: Country: City: PO Box No: Postal Code: Region: Contact 2 Telephone: Contact 2 Mobile No: Contact 2 Email Address:
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Saudi Arabia – SPCC – Solar IPPs (Saad 2, Al-Kafhah, Al Rass 2)

In a move to drive the advancement of solar power in Saudi Arabia, the Water and Electricity Holding Company (Badeel) and ACWA Power entered into Power Purchase Agreements (PPAs) with the Saudi Power Procurement Company (SPPC) for the development and operation of three significant solar Independent Power Producer (IPP) projects, in May 2023.

Combined, the three projects will have a capacity of 4.55GW, delivering renewable energy to approximately 750,000 households. The projects, named Saad 2, Alkahfah, and Al Rass 2, are located in the central and northern regions of Saudi Arabia, with capacities of around 1,125MW, 1,425MW, and 2,000MW, respectively.

Three special purpose vehicles - Nawwar Renewable Energy Company, Saad Two Renewable Energy Company, and Ishaa Renewable Energy Company - signed PPAs with the SPCC for the development and operation of the three major solar PV IPP projects. The duration of the PPAs is set at 35 years.

The projects collectively of Saad 2, Al Kahfah and Al Rass 2, attracted a total investment of \$5.8bn, and financial closure is anticipated to occur in the third quarter of 2023. This marks a significant milestone for ACWA Power, as it represents the largest single transaction for solar projects in the company's history.

SEPCO III has been appointed as the EPC contractor for Saad 2, while formal notice of the contractor or contractors for the other 2 projects is awaited.

The financial impact will be realized after the projects become operational in the first half of 2026.

Key project facts

Project name	SPPC – 1,125MW Saad 2 Solar PV Power Plant	SPPC – 1,425MW Al Kahfah Solar PV Power Plant	SPPC – 2,000MW Al-Rass 2 Solar PV Power Plant
Country	Saudi Arabia	Saudi Arabia	Saudi Arabia
Location	Riyadh,Riyadh Province	Mecca Province	Al Qassim Province
Client	Saudi Power Procurement Co. (SPCC)	Saudi Power Procurement Co. (SPCC)	Saudi Power Procurement Co. (SPCC)
Project sponsors	Water and Electricity Holding Company (Badeel) and ACWA Power	Badeel and ACWA Power	Badeel and ACWA Power
Renewable Capacity	1,125MW	1,425MW	2,000MW
Estimated cost (Budget)	\$1.7bn	\$2bn	\$2.1bn
Contract type	Build, Operate (BO)	Build, Operate (BO)	Build, Operate (BO)
Model	Public-Private Partnership (PPP)	Public-Private Partnership (PPP)	Public-Private Partnership (PPP)
Project status	Execution	Execution	Execution
Start date	2023	2023	2023
Full completion	2026	2026	2026



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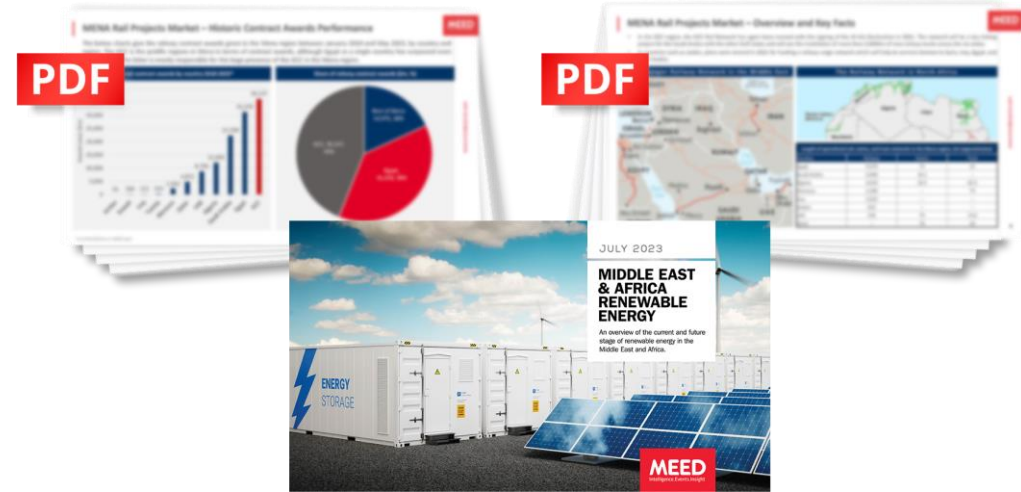
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Saudi Arabia – SPCC –Solar IPPs (Saad 2, Al-Kafhah, Al Rass 2)

Overview

Power and Badeel have signed three 35-year PPAs for the Saad 2, Alkahfah, and Al Rass 2 solar PV plants with the SPCC.

Combined, the three projects will have a capacity of 4.55GW, delivering renewable energy to approximately 750,000 households. The projects are located in the central and northern regions of Saudi Arabia, with capacities of around 1,125MW, 1,425MW, and 2,000MW, respectively.

Stakeholders

Saudi Power Procurement Co. (SPCC) is the client.

Badeel, subsidiary of Public Investment Fund (PIF), and Acwa Power have signed the power-purchase agreements with SPCC for the development and operation of the project.

SEPCO III is the EPC contractor for the Saad 2 IPP.

Status

All the three projects are in the execution stage and are expected to be completed in early 2026.



Ar Rass 2 Solar PV Project



NA	2023	2023	2026
Project announcement	Execution	Main contract award	Project Completion

NA=Not Available; Source: SPCC, MEED and other secondary resources

Supplier Registration Process

Contractors/bidders interested in registering with Saudi Power Procurement Co. (SPCC) must enroll themselves as mentioned in their vendor portal.



The supplier can fill-in a contractor pre-qualification summary by clicking the link below:

<https://www.spb.com.sa/doc/Contractor%20Registration%20form%20SPPC.pdf>

The suppliers/contractors within and outside the Saudi Kingdom can explore business opportunities in the energy sector by enrolling themselves with SPCC.

Those who intend to invest their capabilities for various activities/projects initiated by the Saudi government are required to submit the following documents through e-mail to Prequalification@spb.com.sa:

- Commercial Registration CR
- Work Classification as per Detailed in the CR
- Contractor Classification Certificate (if applicable)
- Zakat and VAT Certificate
- Local Content Certificate
- Contractor Profile
- Brief Summary of the Contractor capabilities.

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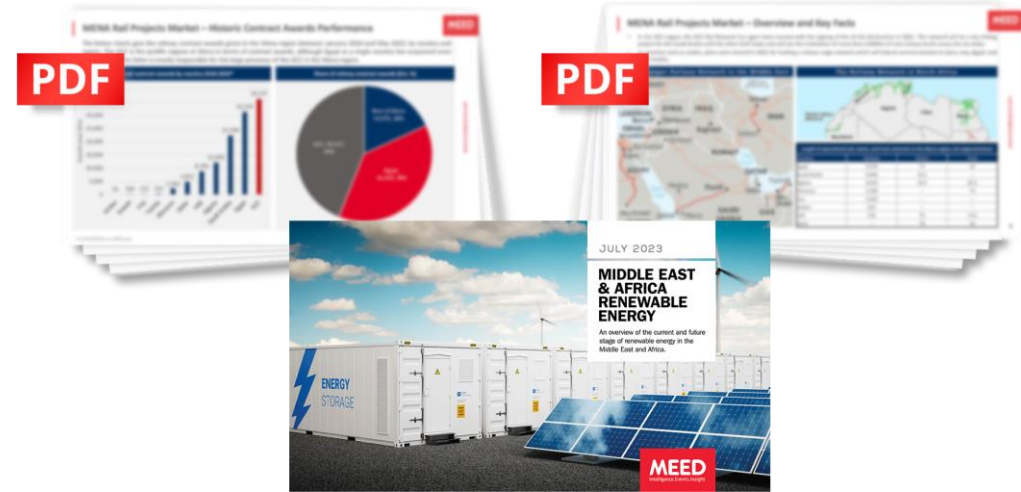
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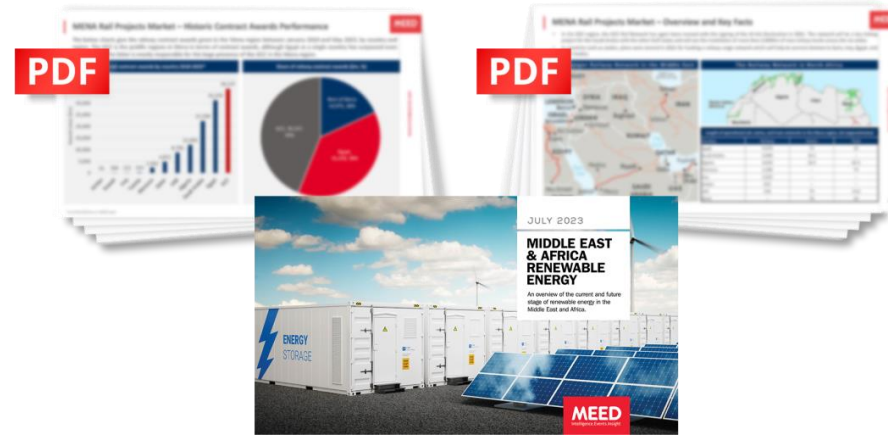
Q&A – Thank You



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