

ENERGY DAYS DUBAI

● 28.11.2017 ●

BURJ AL ARAB

"Those who don't think about energy,
aren't thinking about the future."

H.H Sheikh Mohammed bin Rashid Al Maktoum



INTRODUCTION



Welcome to EnergyDays Dubai 2017,

This event will be in alliance with the centenary celebration of Finland's independence "Finland 100 Years", that will be arranged through an extensive program in Dubai on November 28th, 2017 at Burj Al Arab Hotel.

The focus is on the vast opportunities related to energy production and distribution, renewable energy, Nuclear power safety, Value from Waste and Internet of things.

EnergyDays event, is a concept developed 5 years ago by MERINOVA to intensively promote the Finnish Energy Sector in Middle East and Africa.

This event will be the first of its kind and the biggest event arranged by Finnish organization in UAE, welcome to join us.

The event is mainly made to create a unique matchmaking platform in DUBAI, where the focus is to strengthen cooperation between organization from Finland and UAE for the following objectives:



PROGRAM 28.11.2017

Burj Al Arab

- 08:00-08:30** **REGISTRATION**
- 08:30-09:00** **WELCOMING SPEECH**
- 09:00-09:30** **ENERGY POTENTIAL IN UAE**
- 09:30-10:00** **SMART POWER GENERATION**
The future of electricity production
- 10:00-10:30** **SMART GRID**
The next level
Infrastructure & Network
- 10:30-11:00** **Networking Coffee break**
- 11:00-13:00** **RENEWABLE ENERGY**
Solar Energy
Value From waste Biogas, Biomass,
Biodiesel, RDF
- 13:00-14:00** **Networking Lunch**
- 14:00-14:30** **MONITORING SYSTEMS & IOT**
- 14:30-15:00** **ENERGY EFFICIENCY**
- 15:00-15:30** **NUCLEAR POWER SAFETY**
Nuclear Safety
Requirement and regulations in Finland
- 15:30-16:00** **THE FUTURE OF ENGINEERING**
- 16:00-17:00** **Networking Cocktail**



PROGRAM

29.11.2017 | DUBAI

8:00	Pick-up from hotel
9:30-12:30	EXPO 2020 VISIT PROGRAM
9:30-10:30	VISIT TO EXPO 2020 SITE
11:30-12:30	Meeting & Company pitching at Expo 2020
13:00-14:00	Lunch
14:00-16:00	VISIT PROGRAM
14:00-15:00	Meeting with Dubai Carbon
15:00-15:30	Meeting with DEWA
15:30-16:00	Meeting with private actors (customized)

PROGRAM

30.11.2017 | DUBAI

7:00	Departure to Abu Dhabi
9:30 -10:30	Visit to ADWEA
10:30-13:30	B2B Meeting program
13:00-14:00	Lunch
14:00-16:00	B2B Meeting program
17:00-22:00	Social Evening with Locals in private farm

! Please note: this program is not for all the participants, some companies may have different visit program based on their technology, solution / product.

TARGET MARKET OVERVIEW

Socio-economic context -Key facts and political and administrative organization

Official Name UNITED ARAB EMIRATES (UAE)

Area 83,600 sq km

Population aqa
Non-national residents currently make up the majority (85-90%) of the total population.

Religion Islam

Natural Resources petroleum, natural gas

Currency AED

Administrative Division 7 Emirates



United Arab Emirates
National Capital



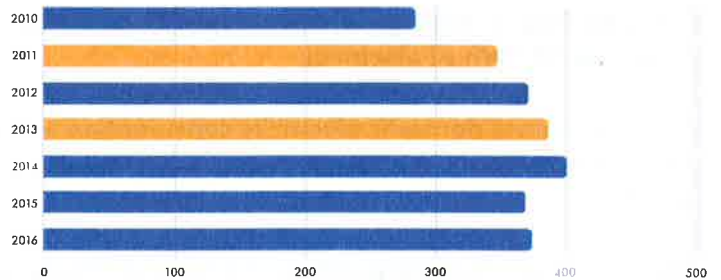
ECONOMIC GROWTH

UAE economy has maintained positive growth levels despite a decline in oil prices.

UAE's GDP expected to reach \$407 billion by 2017.

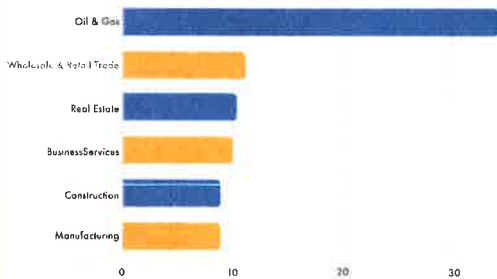
The government of UAE
prioritizes economic diversification in order to promote non-oil growth

UAE GDP by year



Source: IMF World Economic Outlook

UAE GDP composition by sectors (2015).



Source: UAE Ministry of Economy

Major Sectors

UAE's economic growth will pick up significantly in the second half of 2017 and in 2018, driven mainly by the construction sector (including energy, waste treatment construction materials, equipment) as preparations, gain speed for the World Expo 2020 in Dubai.

UAE is the most diversified economy in the Gulf.

The country significantly reduced its reliance on oil from 90% in 1970 to 34% at present.

Energy Consumption

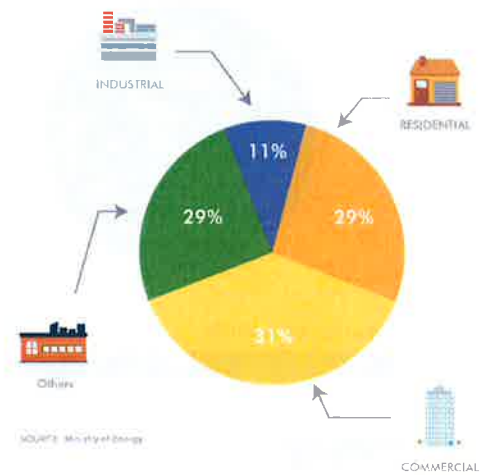
The UAE had a total generation capacity of 23 GW and produced 98 TWh of electricity.

The UAE's gross domestic electricity consumption will reach 141 terawatt-hours in 2020, up from 103 terawatt-hours in 2014.

UAE's Energy demand growing at a tune of 9 % annually

The domestic demand for power will more than double by 2020

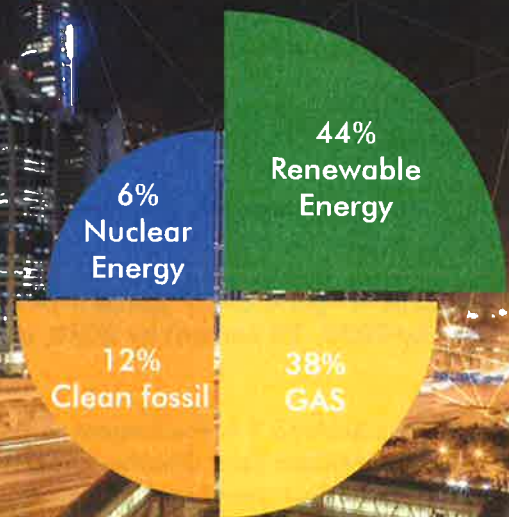
The UAE plan to invest \$163 billion to boost its use of alternative energy over the next three decades.



| TARGETS BY 2050

The UAE Energy Plan 2050 aims at the Following:

- Cut carbon dioxide emissions by 70%
- Increase clean energy use by 50%
- Improve energy efficiency by 40%



The integration of renewable, nuclear and clean fossil energy will be funded with investment of 163 billion USD over the next 33 years, equating to an annual spend of more than 4 billion USD.

FACTS

- The Abu-Dhabi based company Masdar has invested \$2.7 billion into clean-energy projects over the past decade.
- The UAE's savings from the renewable energy sources were between \$1 billion and \$3.7 billion in 2015.
- Dubai aims to become the city with the lowest carbon footprint in the world.
- Dubai aims to generate 7 percent of its power from clean energy sources by 2020, 25 percent by 2030, and a whopping 75 percent by 2050.
- Abu Dhabi's SHAMS 1 is the largest renewable energy project in operation in the Middle East. Shams-1 is a 100 MW development that is one of the world's largest concentrated solar power (CSP) projects.
- Med Bin Rashid AlMaktoum SOLAR PPARK, is being built in Dubai. \$14 billion solar park will eventually produce 5,000 megawatts, which is enough to power 800,000 homes, by 2030.

EnergyDays

The UAE government has committed over \$340M for sustainable efforts in developing countries.

Abu Dhabi Fund for Development has announced \$46 million in loans for 4 renewable energy projects in Africa.

Gulf countries will save around \$87 billion, which is equal to 2.5 billion barrels of oil equivalent, from lower oil and natural gas consumption if they achieve goals for renewables use by 2030 "IRENA".



EXPO 2020 SITE



| OPPORTUNITIES IN THE UAE



The U.A.E. is pursuing plans to diversify its energy mix beyond fossil fuel-fired electricity generation through the use of nuclear and solar.

The country is taking part in a \$1 billion plan to build a regional power grid throughout the GCC region.

There are plans for 7 new power plants slated to come online by 2021 with a combined capacity of 9.5 GW, including a recent plan for a clean-coal facility with 1.2 gigawatts (GW) capacity in Dubai, which is expected to come on board by 2020.

There are a number of opportunities for companies that can help the U.A.E. to modernize its grid, maintain and provide training for the Barakah plant, and generally implement measures to ensure smarter consumption of electricity



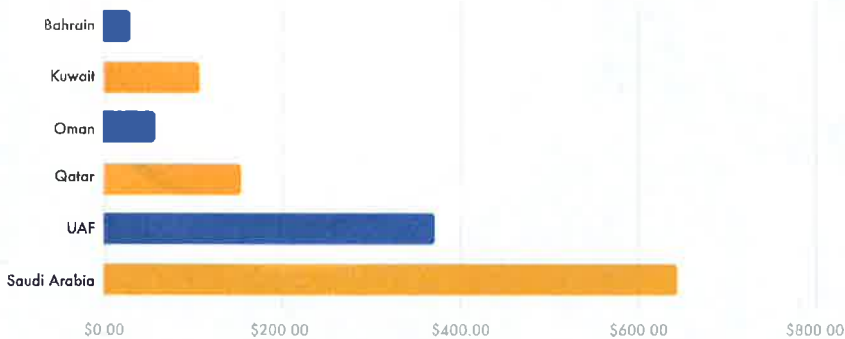
TARGETING THE GC
ENERGY
STAKEHOLDERS

ECONOMIC GROWTH

EnergyDays 



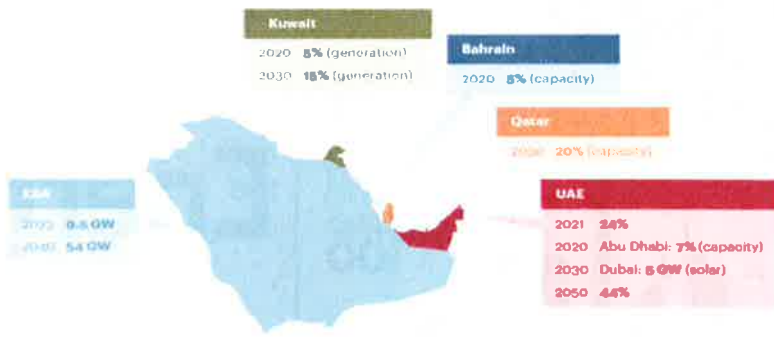
GCC contries by GDP(2016)



UAE will start implementing a value added tax (VAT) rate of 5% on goods and services as of January 2018. UAE will raise 2.1% of GDP from the tax, according to the IMF.

BMI Research predicts that UAE will see the most positive effect of all GCC states from the introduction of VAT.

TARGETING THE GCC ENERGY STAKEHOLDERS



Sources: MENA News & Kearney analysis



Fossil fuel savings from GCC renewable energy targets by year and by country



EnergyDays

DUBAI, NOVEMBER, 29th 30th

FOR REGISTRATION & MORE INFORMATION

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