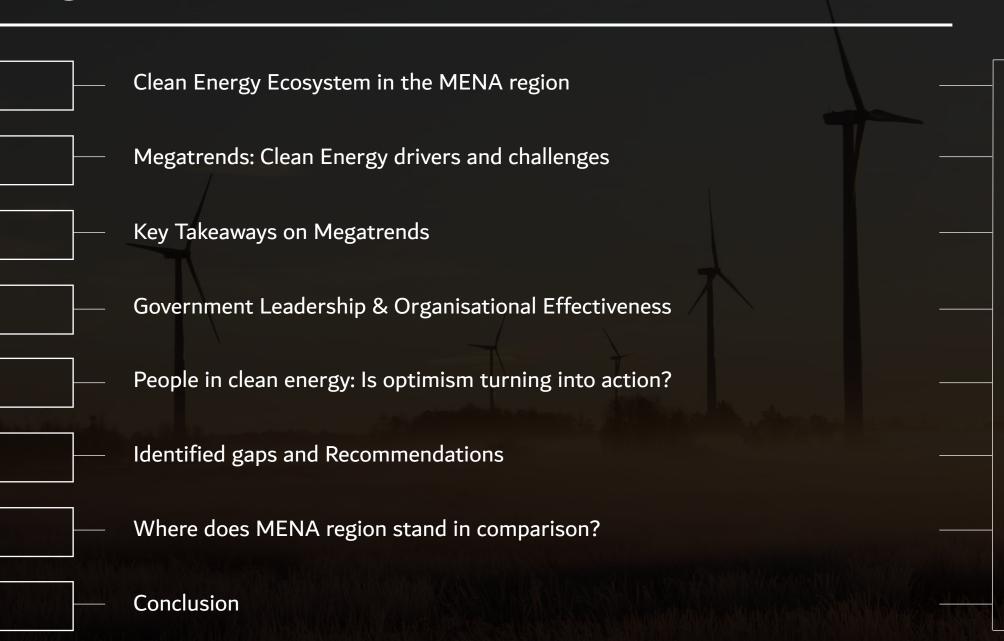


Agenda





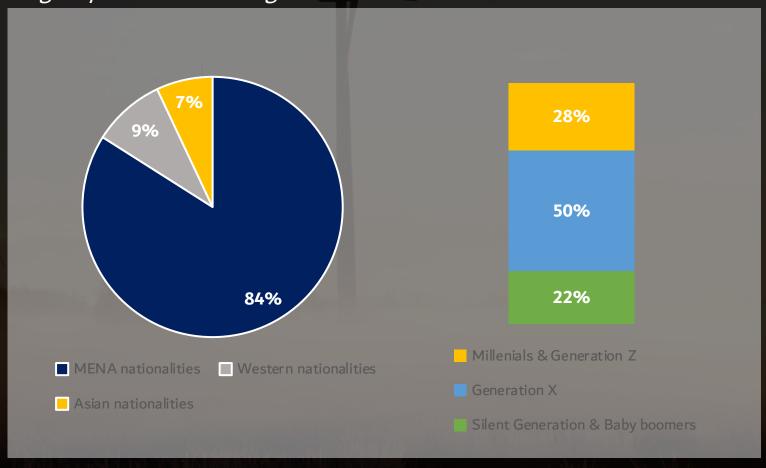
Clean Energy Ecosystem in MENA region



Building blocks of the Clean Energy Ecosystem



High representiveness of generations in MENA countries



Megatrends: Clean Energy drivers and challenges



The report examines 6 megatrends and how they are perceived by individuals



Climate change: The region is highly vulnerable to warmer temperatures and water scarcity.



Urbanisation and demographic changes: The region is moving towards denser cities and urbanised settlements.



Post-oil economies and demand for energy: Clean energy sources are abundant in the region and good progress is being made in their deployment.



Cybersecurity, IoT, connectivity and analytics:
A more connected region means a larger impact of cyber-threats.



Health, happiness and well-being: With improving living conditions, health and happiness are becoming a priority for the population.



Artificial intelligence, robotics and automation:
As more of our everyday processes are
developed by external thinking, what does the
transition look like?

Key Takeaways on Megatrends





The perceived importance of megatrends is not translating into readiness measures. This gap is wider regarding Climate change and well-being.



Governments are proactive regarding clean energy, which can be complemented with additional support for R&D



Better education increases the awareness of megatrends and their challenges



Well-being should become more of a priority for organisations alongside financial incentives and business disruptions (e.g. post-oil economy).

Government Leadership & Organisational Effectiveness



How are countries leveraging their people?



Government policy sends important signals to the ecosystem



Improving working conditions for expats and nationals to attract and retain MENA workforce



Incoporating all talent to improve a country's readiness

How is the workforce being leveraged?



Promoting inclusiveness in the workplace to retain young talent in clean energy



Improving organisational policies to facilitate the growth of female talent in the workplace

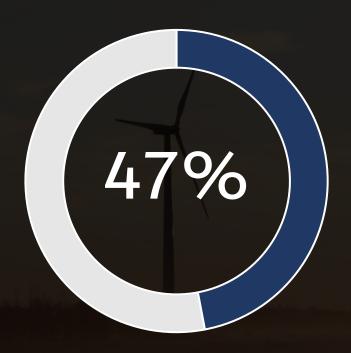


Nurturing workplace is better at retaining talent than a professionally competitive one

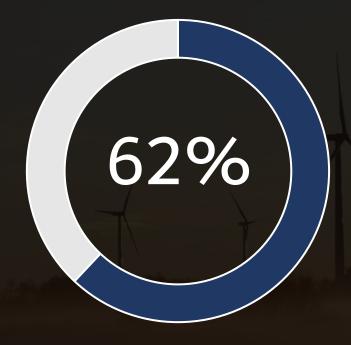
What about gender?



Is there a balanced mix of men and women in your workplace in the MENA region ?



said **overall**, there are more men than women in the workplace....



...but at the **executive level** it jumps to..

Are these policies effective to attract and retain female talent?



- Maternity leave programs
- Salary equity

- Networking opportunities
- Inclusive culture



- Women quota in senior roles
- Mentorship

- Capacity to transfer between roles
- Paternity leave

So what ? Organisations are in the process of incorporating female talent, but need to maintain and enhance these efforts to tap into the full potential región.

People in clean energy



What are the existing workforce skills gaps?



Executive skills are the most important to reach their career goals.



Technical skills, more closely related to formal education, were ranked as essential for some roles, while almost insignificant for others.



Social skills and administrative skills are ranked as less important to individuals in achieving their career goals.

Key takeaways

- Institutional support is needed to fill the gap between organisational needs for skills and policy, and the ecosystem's capacity to provide them
- Individuals need more options to improve readiness through their careers and jobs
- Capacity development needs to address both formal education and on-the-job training
- Measures to tackle the gaps in education and R&D need to be gender sensitive to capture female talent

Gaps and recommendations



Sector	Identified gaps	Recommendations				
Policy and industrial regulation	 Possible benefit for governments from integrated policies adressing all aspects of the ecosystem Strong, clear, time-consistent and coordinanted strategies 	Dedicated clean energy agenciesAgreements to facilitate				
Finance	 Stronger engagement by financial institutions Mechanisms to facilitate investment & promote entrepreneurship 	 Programs to foster entrepreneurship and investment Support small and médium projects Need support from publicly funded initiatives 				
Technology	Access to technology is limitedFocus on building know-how in the region	 Focus on the social and environmental performance of each technology for each case, instead of limiting to a set of technologies 				
Capacity	 Focus on education, skill development & on-the-job training, provide incentives for both employment & entrepreunership Policies to support, pormote & retain female talen 	 Governmental programs with the private sector Promote women leadership, salary equity, inclusiveness to support female talent 				
Infrastructure	 Public-private sector collaborations to identify needs of the population & economy Provide relevant, high quality services 	Improvement of infrastructureDevelopment of support infrastructure				
Research &	■ Low level of R&D in the MENA región	 Additional mechanisms to support businesses in becoming 				

Development ■ Lack of mech

- Lack of mechanisms & investments to develop & deploy region-specific solutions
- Additional mechanisms to support businesses in becoming producers
- Private & academic collaboration to build local capacity

Where does MENA stand in comparison to other regions?



According to the latest RECAI report15...

- ..the most attractive countries are China, USA, Germany,
 India and France
- ..the highest MENA country in the ranking is Morocco in 12th place
- ..only 4 MENA countries have consistently reached the top 40 (Morocco, Egypt, Pakistan, and Jordan) of the RECAI ranking.
- ..Saudi Arabia was recently included and is the only GCC country in the ranking, in place 39

Pillars of the RECAI



Economic stability and investment climate



Access to market, infrastructure and finance



Secure & affordable supply, renewable energy gap



Technology maturity and resource availability



Political stability and support for renewables

				Technology-specific scores							
Overall rank	Previous rank	Country	RECAI score	Onshore wind	Offshore wind	Solar PV	Solar CSP	Biomass	Geothermal	Hydro	Marine
1	(1)	China	65.7	51	55	53	33	45	21	52	19
2	(2)	United States	63.8	50	53	49	32	39	39	35	31
3	(4)	India	63.8	50	20	57	34	44	25	45	21
12	(15)	Morocco	56.6	42	17	51	31	16	15	20	14
15	(20)	Egypt	54.9	45	14	52	36	13	12	27	12
29	(28)	Jordan	51.7	39	14	46	28	18	13	23	13
39		Saudi Arabia	48.0	37	12	46	23	13	12	13	11

Conclusion



 The MENA region has excellent access to clean energy sources like solar and wind, as well as large financial resources.



The MENA region is undergoing a transition that could entail important demographic dividends as a larger proportion of the population reaches a productive age. Besides young talent, female talent can be attracted and retained more effectively in the clean energy sector.



• Institutional leadership remains key to harness this young labour force through the clean energy ecosystem. Policy needs to be comprehensive, coordinated and timeconsistent to send clear signals to all sectors, create safe and attractive environments for infrastructure development, and improve the skills of the labour force.



Education, on-the-job experience and better opportunities for entrepreneurship and investment need to be fostered in the region. Altogether, these measures could help prepare governments, organisations and people for the challenges of the future.

