



The Second National Dialogue on Climate Ambition (NDCA)

“The Energy Sector: A catalyst towards carbon neutrality”



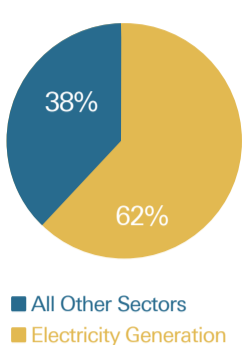
The Energy Sector

53 representatives from power and energy sectors

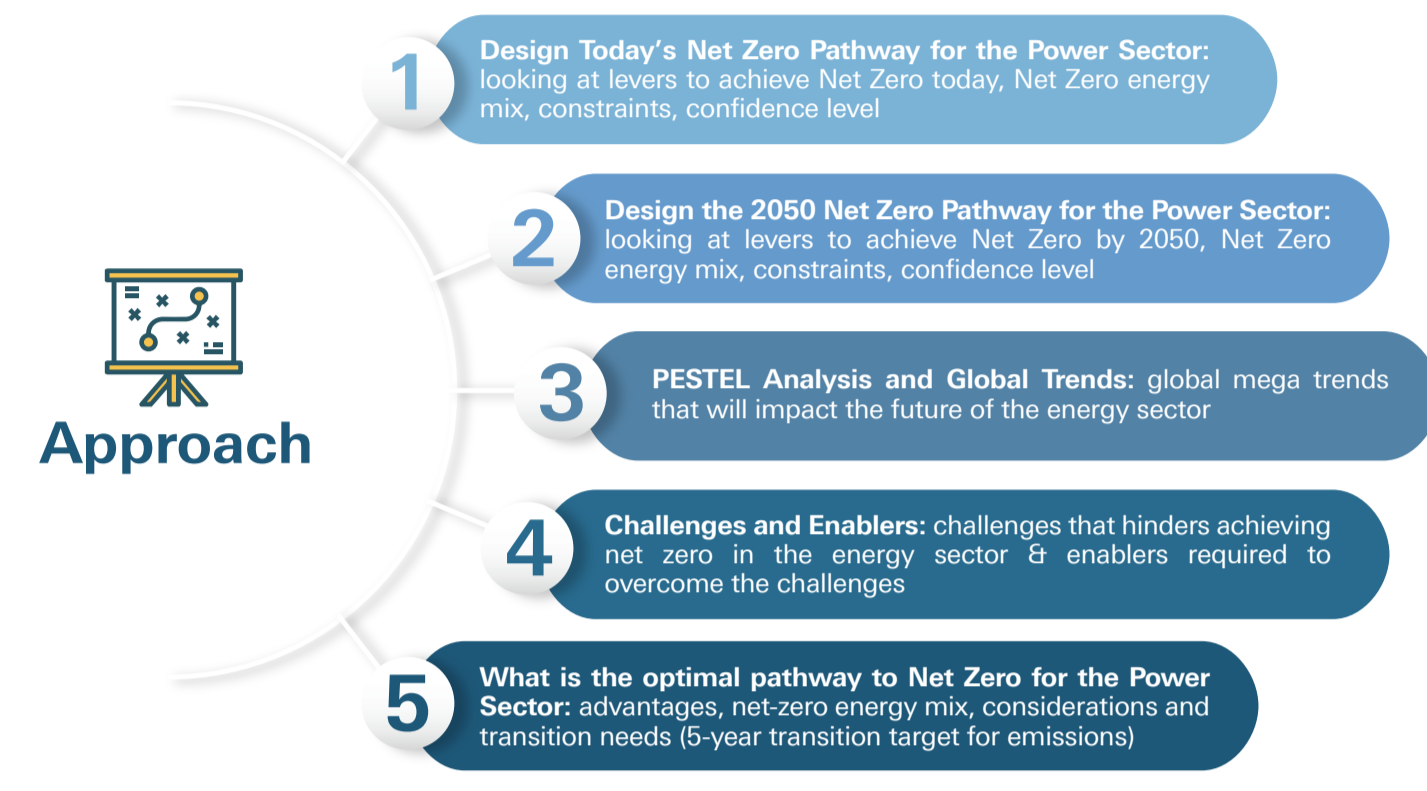
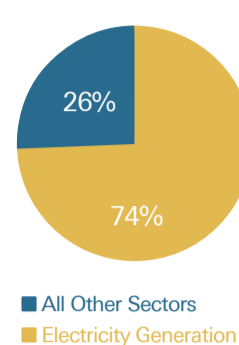
The energy sector is a major player when it comes to reducing more than

60% of our greenhouse gas emissions

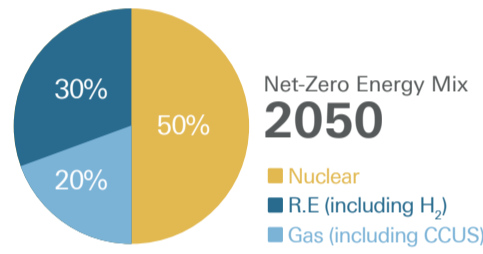
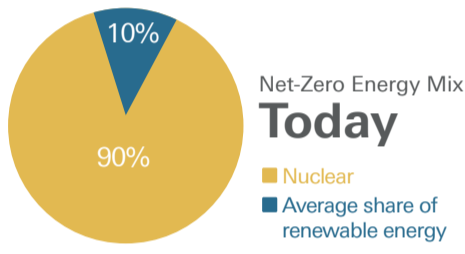
Baseline Emissions Contribution 2016
In 2016, electricity generation was responsible for 62% of UAE emissions



NDC Emissions Contribution 2030
By 2030, the current strategies and plans will lead to a significant reduction of emission contribution from the power sector



Design Net-Zero Pathway for the Power Sector



PESTEL Analysis & Global Trends

Global mega trends that will impact the energy sector



How are those trends reflected in the PESTEL analysis



Challenges & Enablers

in achieving net zero in the energy sector

- #### Challenges
- Energy efficiency – EE is expensive
 - Carbon not priced
 - Infrastructure/grid readiness
 - Absence of policy and regulatory framework to incentivize net zero
 - Lack of local R&D and innovation
 - Private sector acceptance

- #### Enablers
- Interconnection of GCC utility networks and grids
 - Electrification
 - Carbon pricing laws
 - More robust energy regulations
 - R&D for technology adapted to the UAE
 - Federal and local integration

Proposed Initiatives & enablers

- Increasing energy efficiency (EE) consistently to manage growing demand
- Investing in energy storage technologies to promote the use of renewable energy (RE)
- Maintaining the percentage of power generated by gas with CCUS
- Expanding the use of hydrogen as a sustainable source of energy
- Accelerating the deployment of RE (solar)
- Maximizing the share of nuclear energy in the energy mix
- Establishing regional interconnection to share access to clean energy
- Leveraging electrification to tackle hard-to-abate sectors
- Carbon pricing and trading

Way forward

