

PDO New Energy Frontiers and Green Hydrogen Opportunity at A Glance

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شركة تنمية نفط عُمان
Petroleum Development Oman



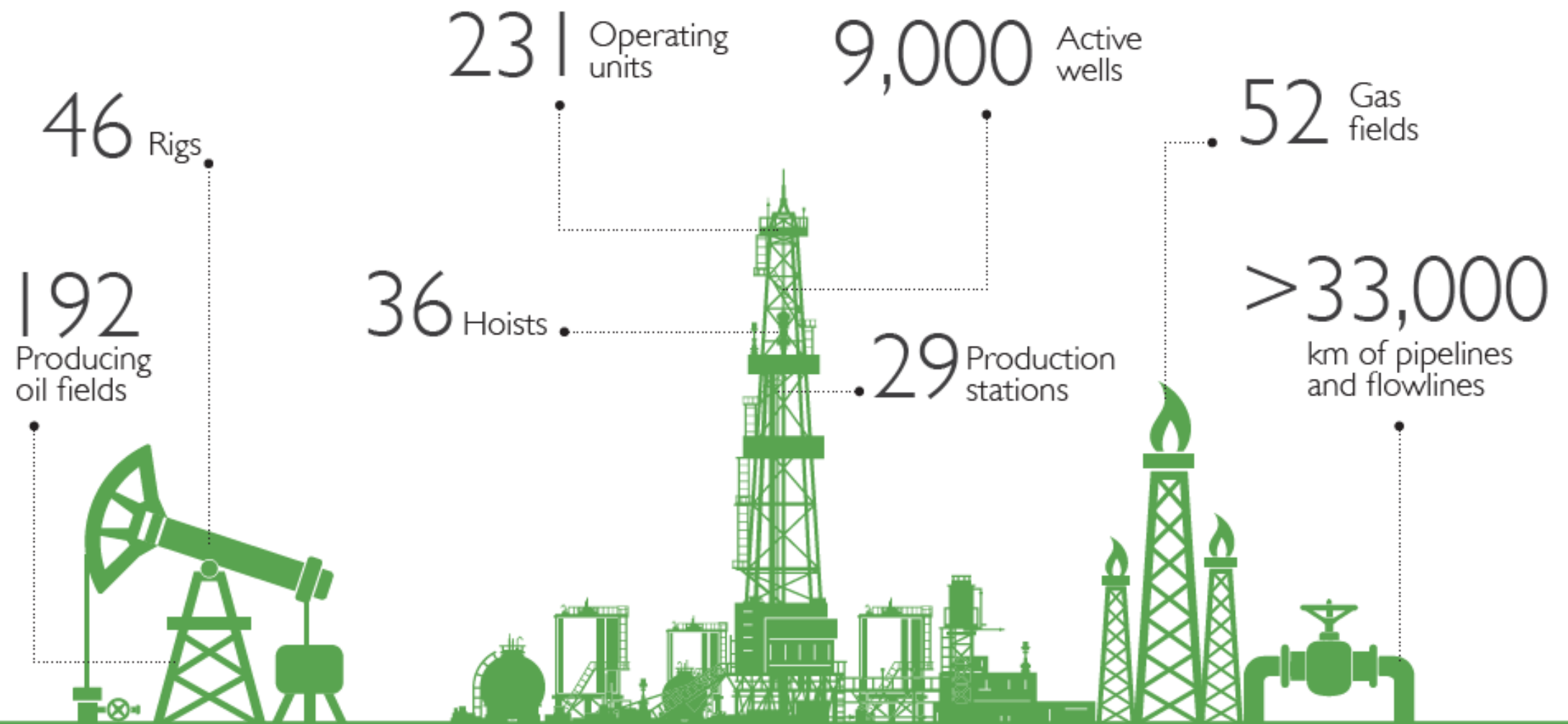
PDO Vision



To be Renowned and Respected for the **Excellence** of Our **People** and the **Value** We Create for Oman and all Our Stakeholders.

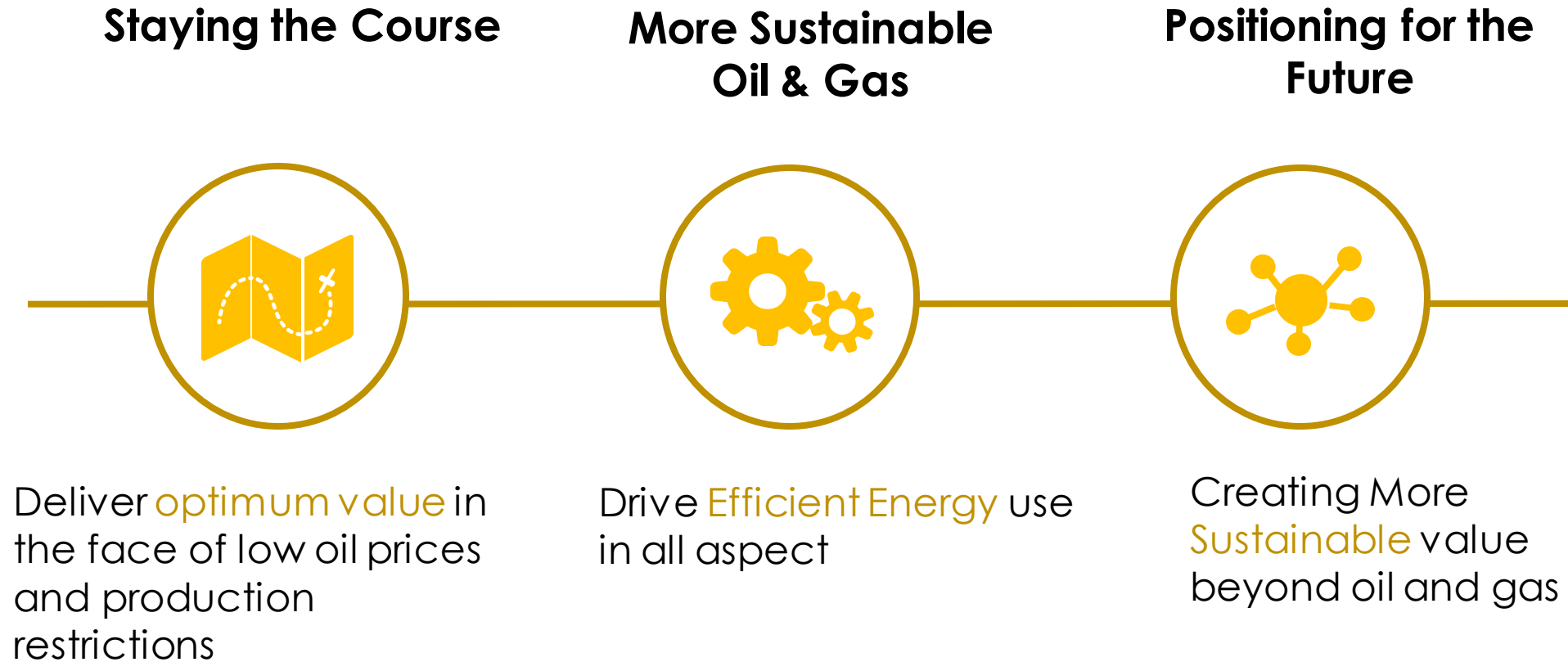
أن يشار إلينا بالبنان بما لدينا من مواهب بشرية متميزة وما نحققه
من فوائد لعمان وأهلها وذوي الشأن

Who We Are?

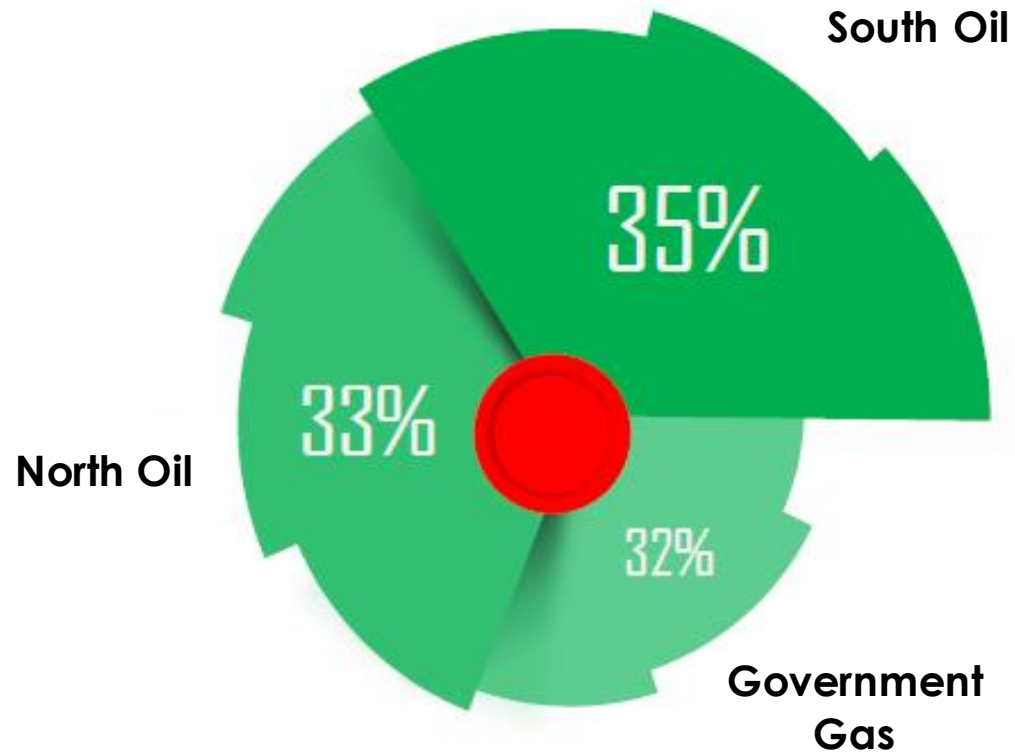


GRI 102-45

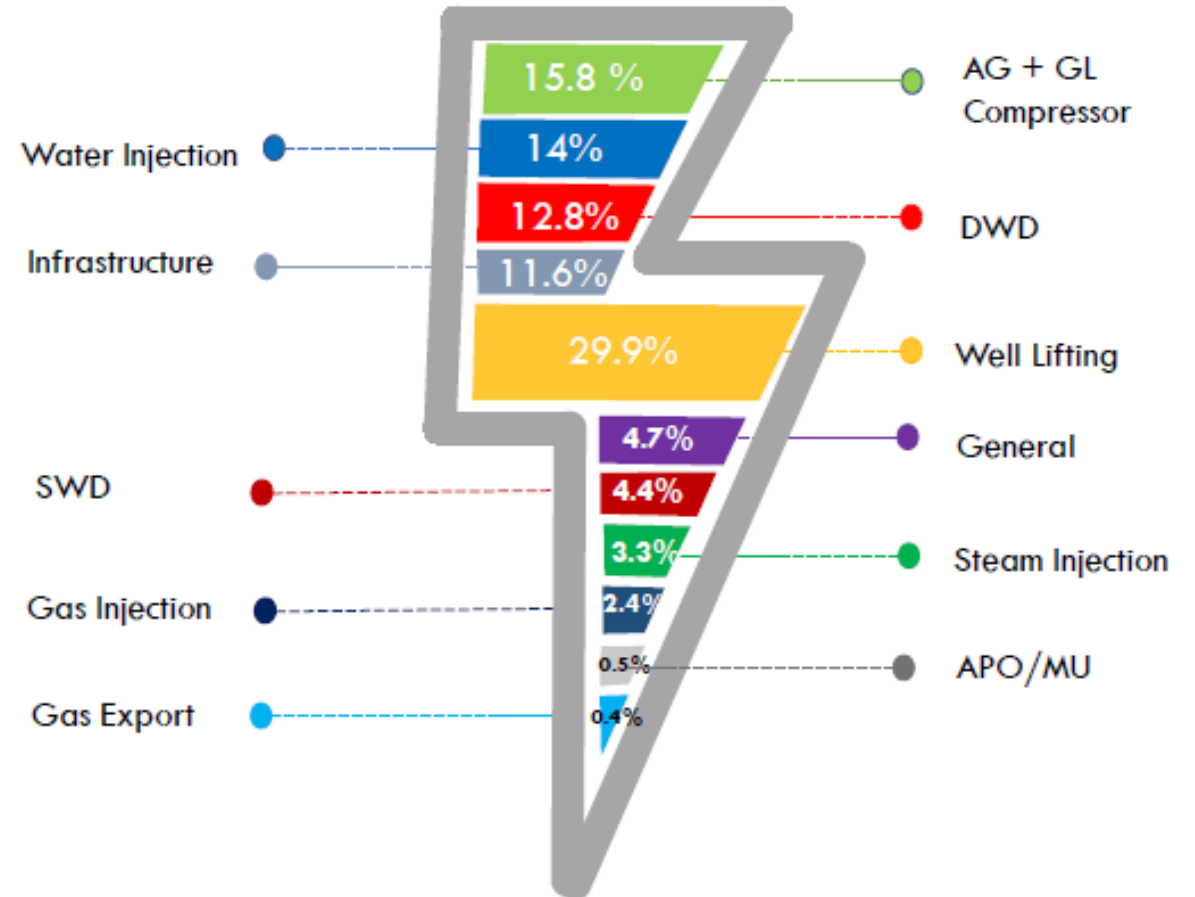
Sustainable Development in & beyond PDO Concession area



PDO Power Consumption



PDO Oil

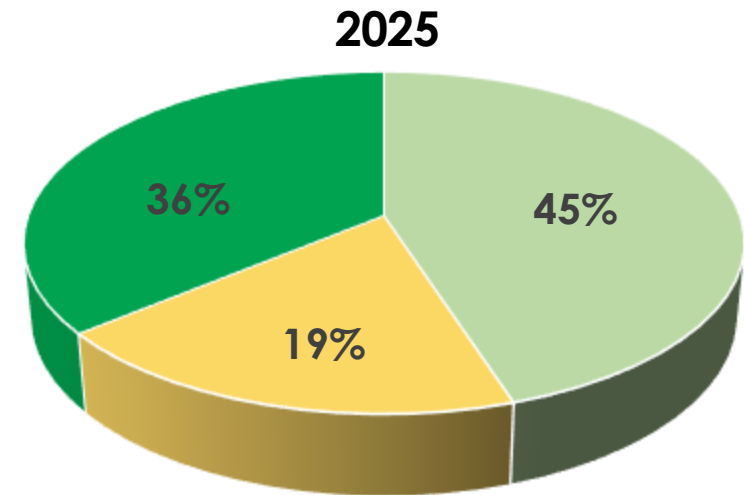
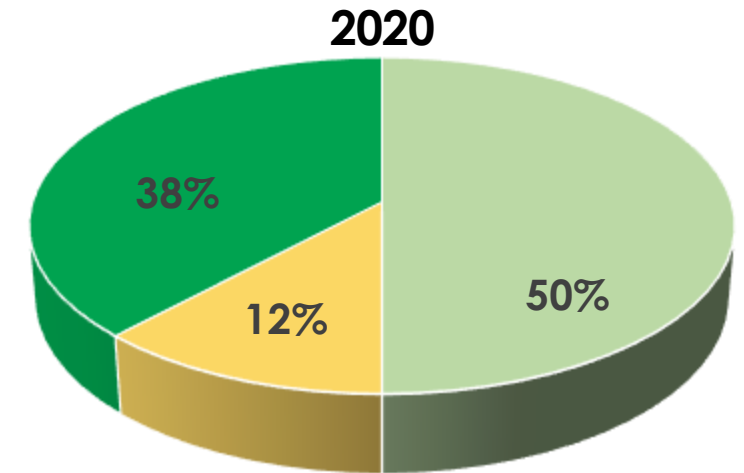


The Challenges

More Energy Requirement

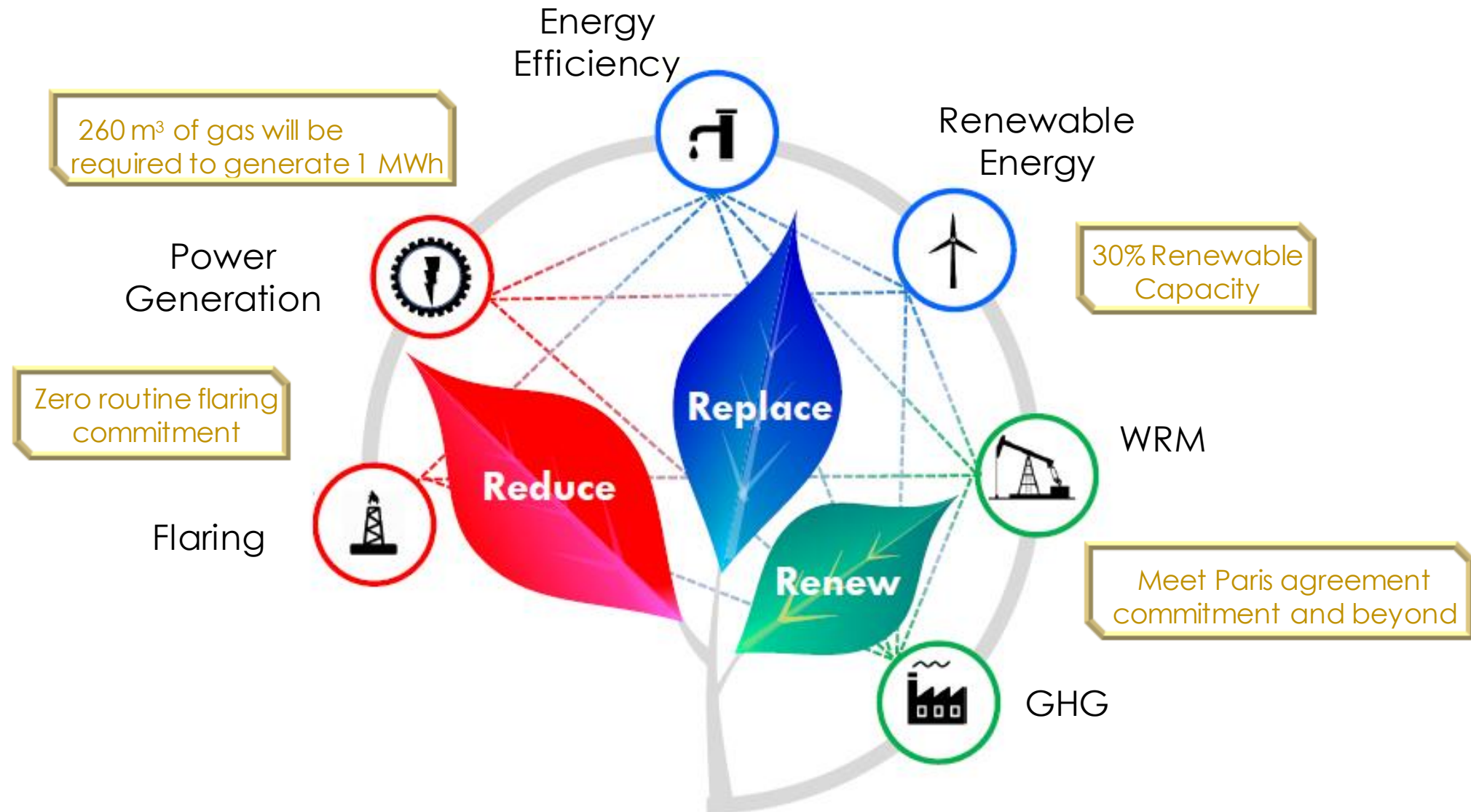
- New mega facilities (e.g. RHIP)
- Increased complexity (e.g. increased water cut)
- Rising Opex. due to ageing fields
- More EOR projects

EOR contribution to PDO Oil Production by 2025



■ Secondary ■ EOR ■ Primary

PDO Energy Management 2030 Strategy



**100 MW Amin Solar
PV IPP Project**



Miraah

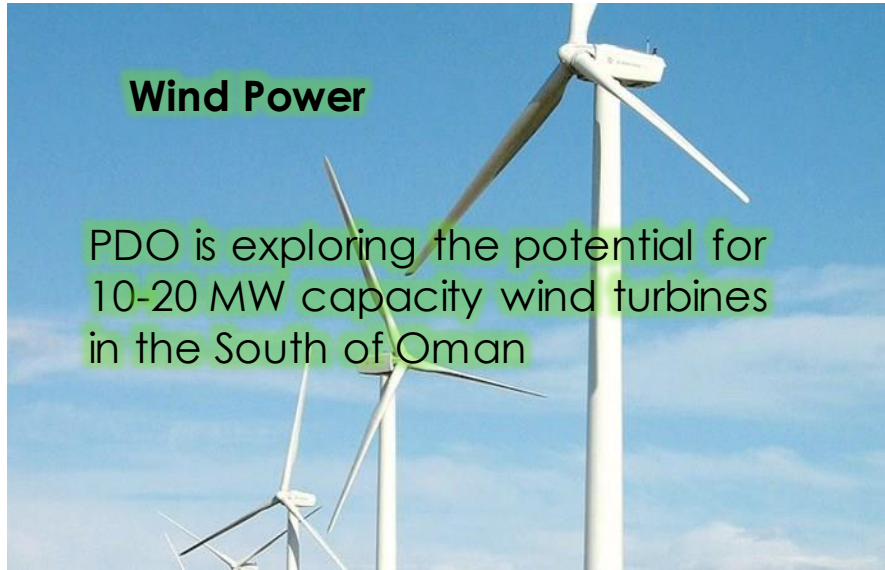


MAF Solar Car Park



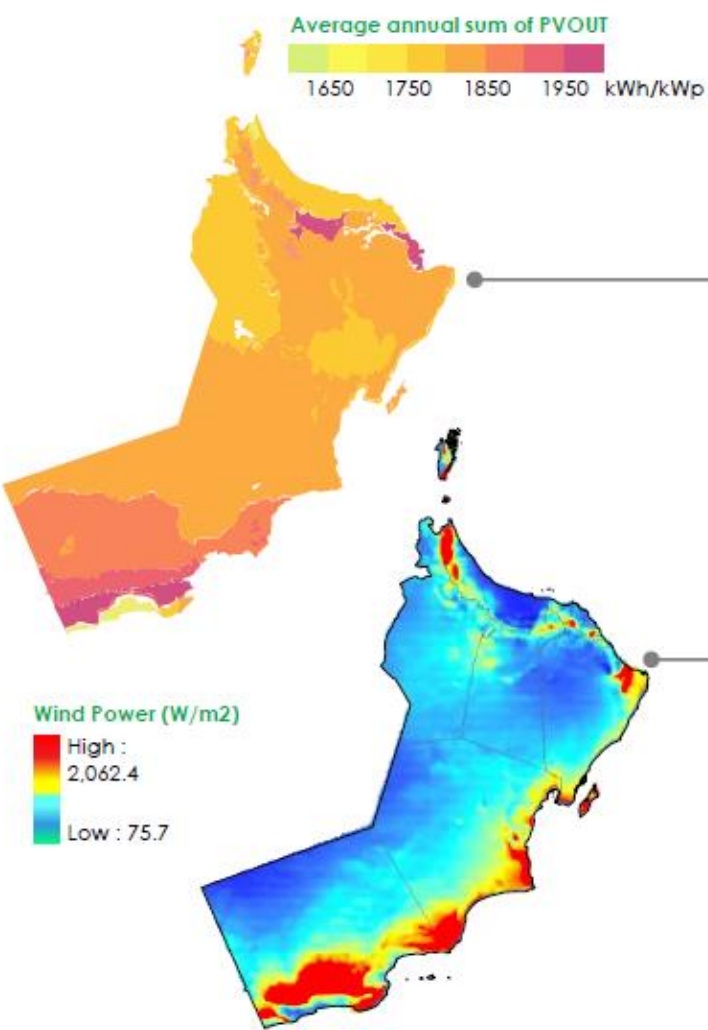
Wind Power

PDO is exploring the potential for
10-20 MW capacity wind turbines
in the South of Oman

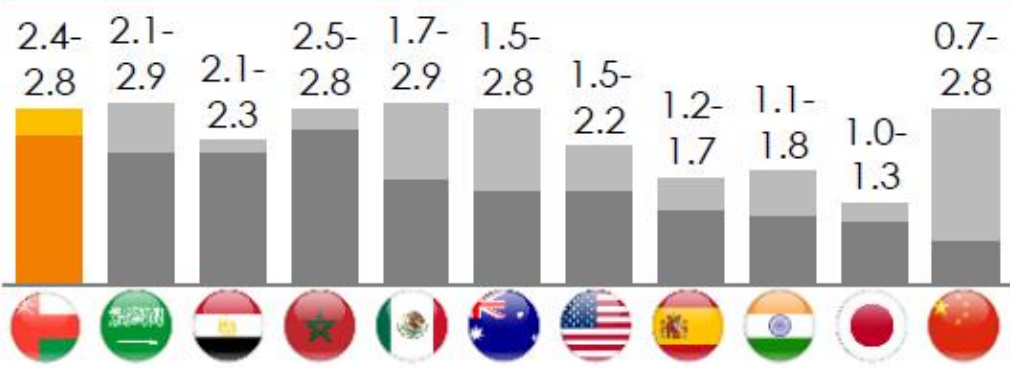


Oman is Endowed with Strong Solar and Wind Resources

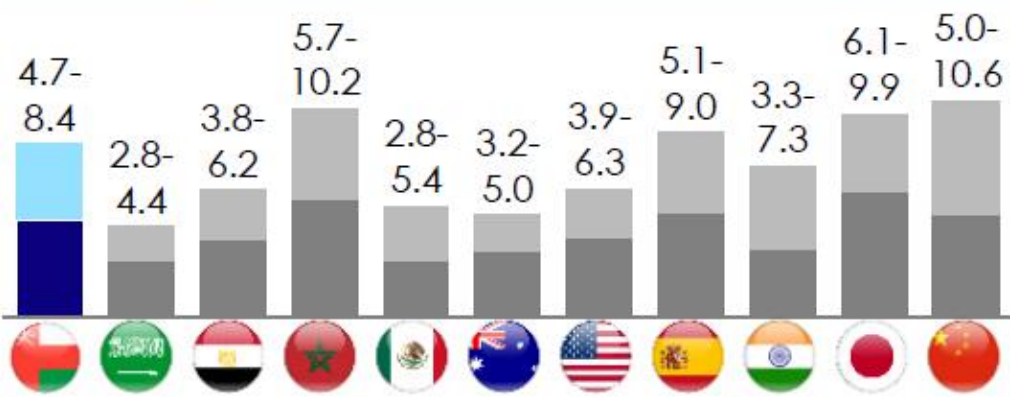
Renewables potential in Oman



Estimated range of solar irradiation per country (DNI¹) MWh/m2 p.a.



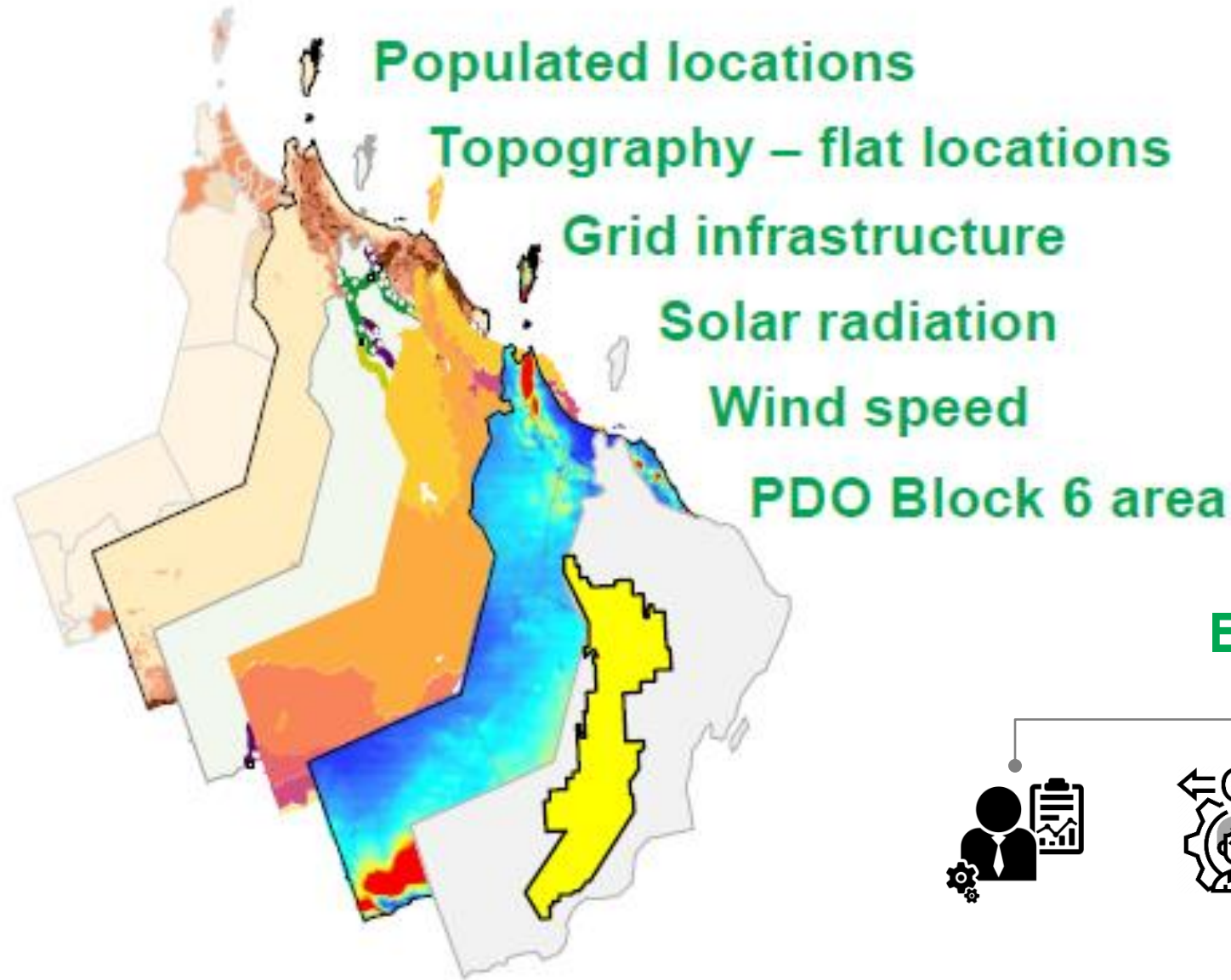
Estimated power density of wind @50m height² MWh/m2 p.a.³



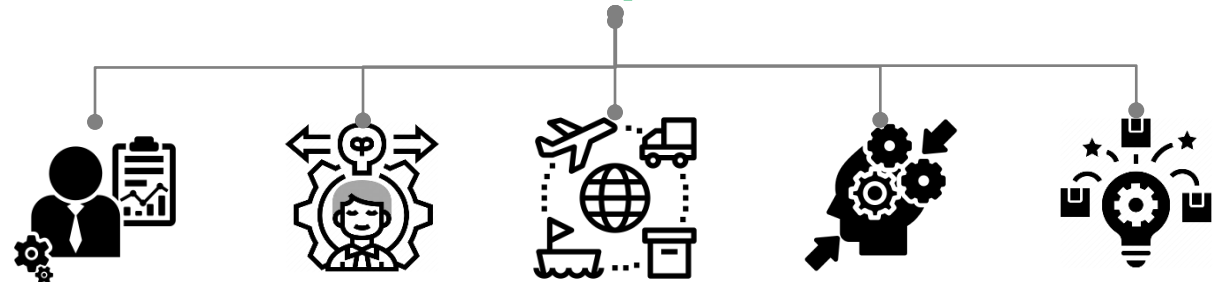
PDO: Positioned for Success in the Energy Transition



Why Renewable Energy in PDO?



Excellent practices



PDO Hydrogen Project Business Drivers

- Introduce hydrogen as green fuel
- Explore new business opportunities for PDO (PDO-s/ New Co.)
- Reduce the consumption of fossil fuel (i.e. natural gas and diesel)- Accordingly reduce GHGE footprint
- Increase the internal Capability (know-how)
- Increase In Country Value (ICV)

Green Hydrogen Pilot Project in PDO

Feasibility Study Awarded to:



MAF Solar Car Park Project



MOBILITY

(bus, trucks, passenger car)



REPOWERING

(grid)



Amin 100 MW Solar



POWER-TO-GAS

(H2 injection into the gas grid)



REPOWERING

(micro-grid, gensets)

Visit PDO Technology
Provider Hub:

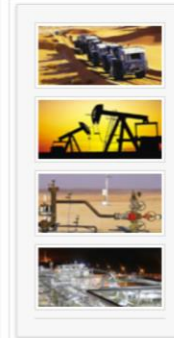
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PagesVendor/Index.aspx](https://web.pdo.co.om/TpH/PagesVendor/Index.aspx)

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شركة تنمية نفط عُمان
Petroleum Development Oman



About Petroleum Development Oman (PDO)

Petroleum Development Oman is the foremost exploration and production company in the Sultanate. It accounts for more than 90% of the country's crude-oil production and nearly all of its natural-gas supply. The Company is owned by the Government of Oman (which has a 60% interest), Royal Dutch Shell (which has a 34% interest), Total (which has a 4% interest) and Partex (which has a 2% interest). The first economic find of oil was made in 1962, and the first consignment of oil was exported in 1967.

About Technology Providers Hub (TpH)

PDO has one of the most diverse and challenging operating conditions in the Oil & Gas industry across the globe. Technology is a key element in helping resolve some of these challenges and it is of paramount importance to reach as many potential solutions providers as possible, from commercial entities and academia or research organisations. The TpH is PDO's platform for externalising its challenges and sharing them with the world. Together, PDO and solution providers will be able to tap into the currently trapped hydrocarbons as well as maximise the value from existing assets through the use of advanced technologies, new ideas, improved tools and optimised processes. The ultimate goal is to increase production/reserves and lower the cost of operations without compromising Health Safety and Environment (HSE).

Vendors must note the following:

1. TPH is a communication tool only.
2. PDO shall, at its discretion only, provide an explanation for disqualifying any of the proposed solutions submitted.
3. The pre-qualified or accepted proposals or solutions shall NOT be considered final and will be subjected to further commercial and technical screening.

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