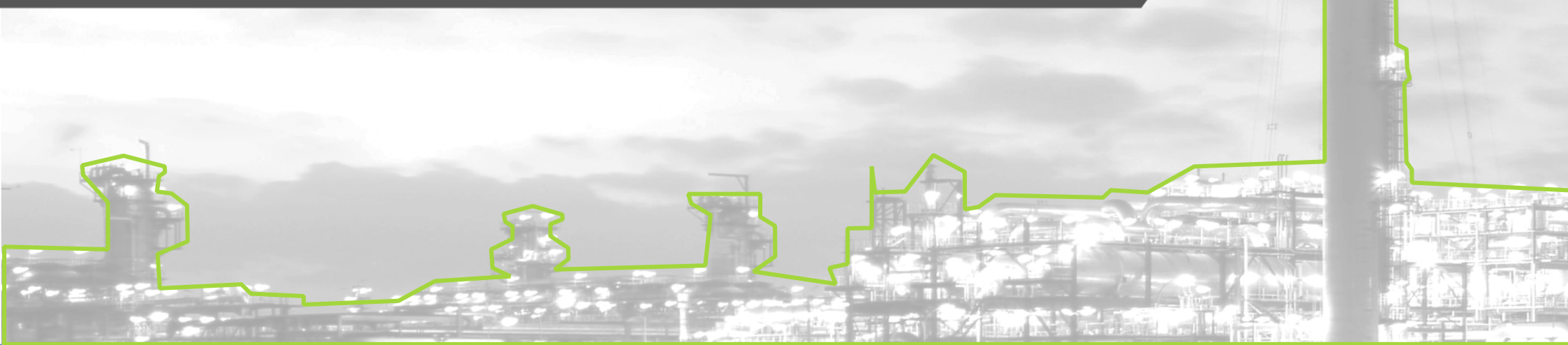


# Pollution Prevention Through Resource Conservation

JCCP, 32<sup>nd</sup> International Symposium - 2014

Abdulqader Alkamali



# Introduction

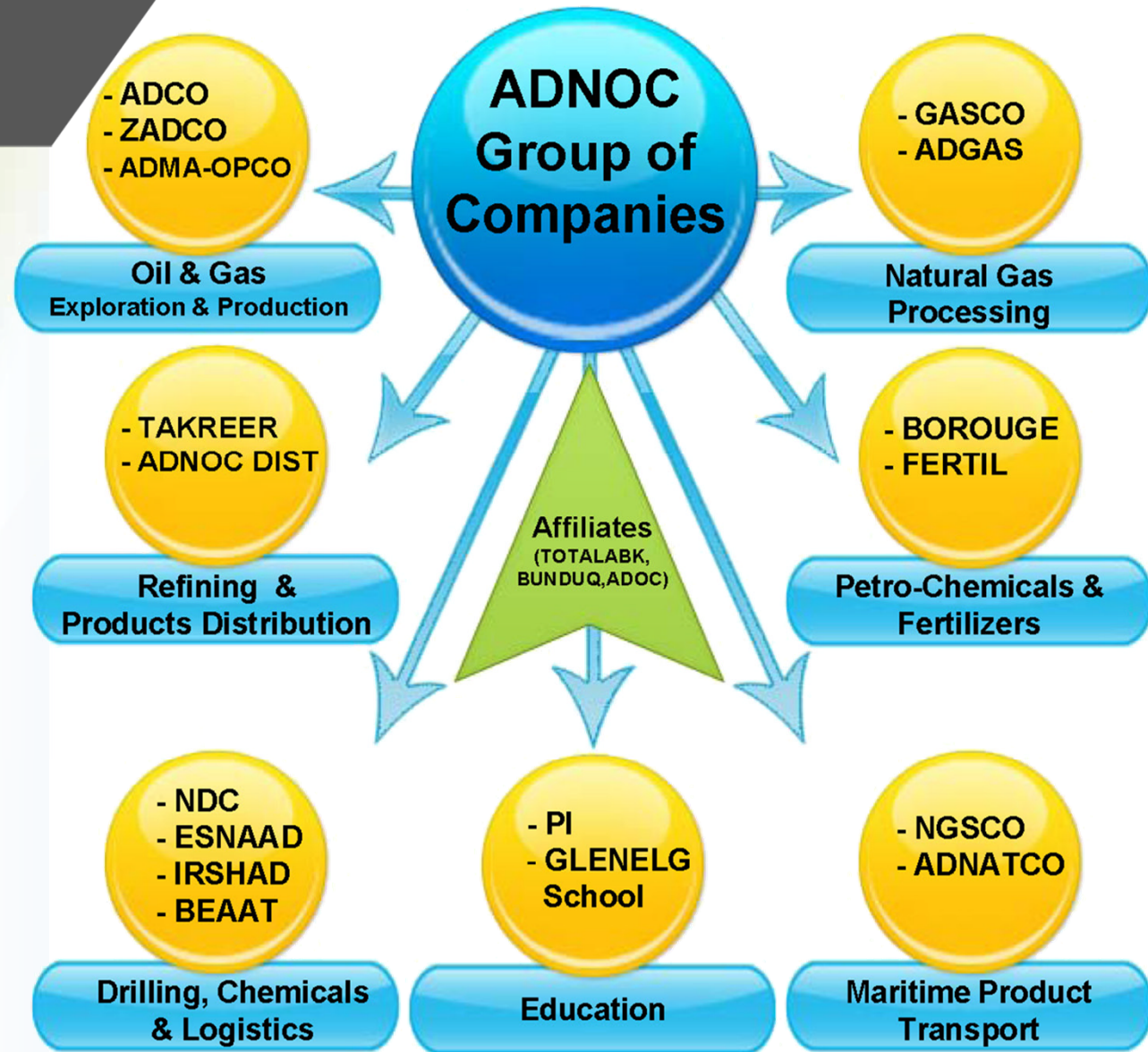


**At ADNOC, we are taking this challenge head-on**

Elimination at source is the best approach when it comes to Pollution Prevention and Resource Conservation

However, it is much easier said than done. Numerous studies on human behavior and motivation for change have established that resource conservation in a relatively affluent society is a difficult concept to implement.

# ADNOC Group Companies

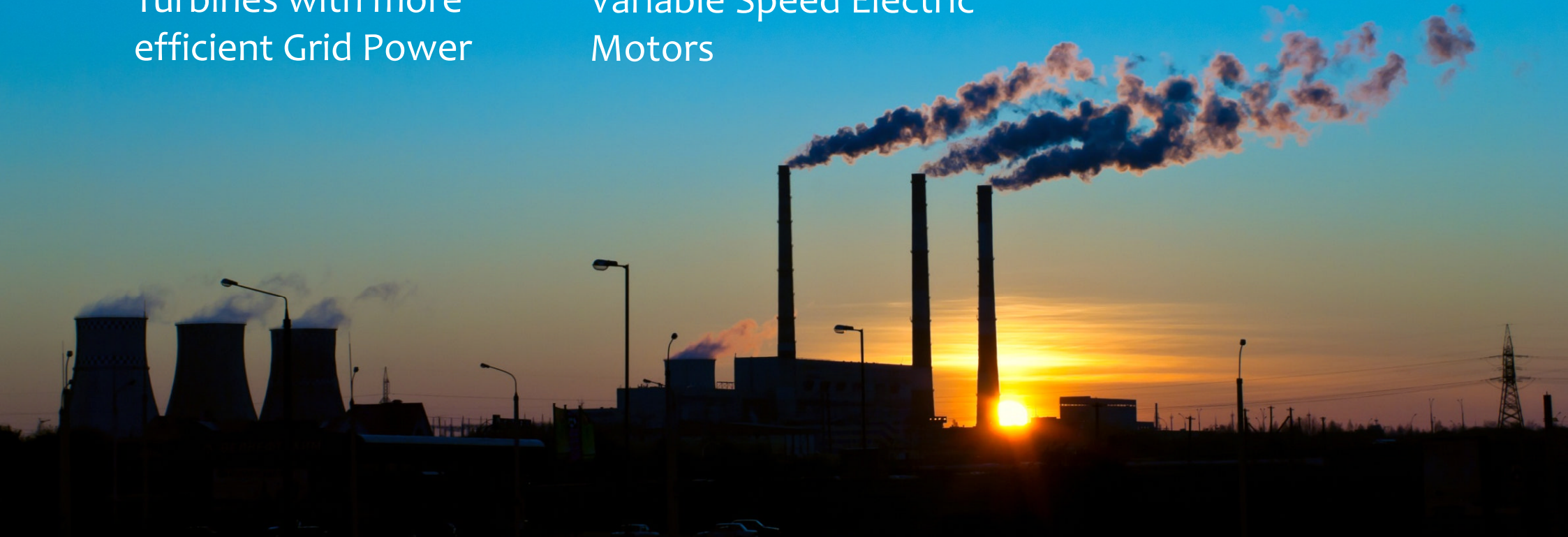


# Air Protection

**Reduction of Air Emission  
Through** reduction of  
consumption of Fuel Gas

Replacing captive  
low-efficiency Gas  
Turbines with more  
efficient Grid Power

Replacing compressor  
Gas Turbines with  
Variable Speed Electric  
Motors



# Water Resources Conservation

## Reduction of Wastewater Generation through reduction in consumption of Freshwater

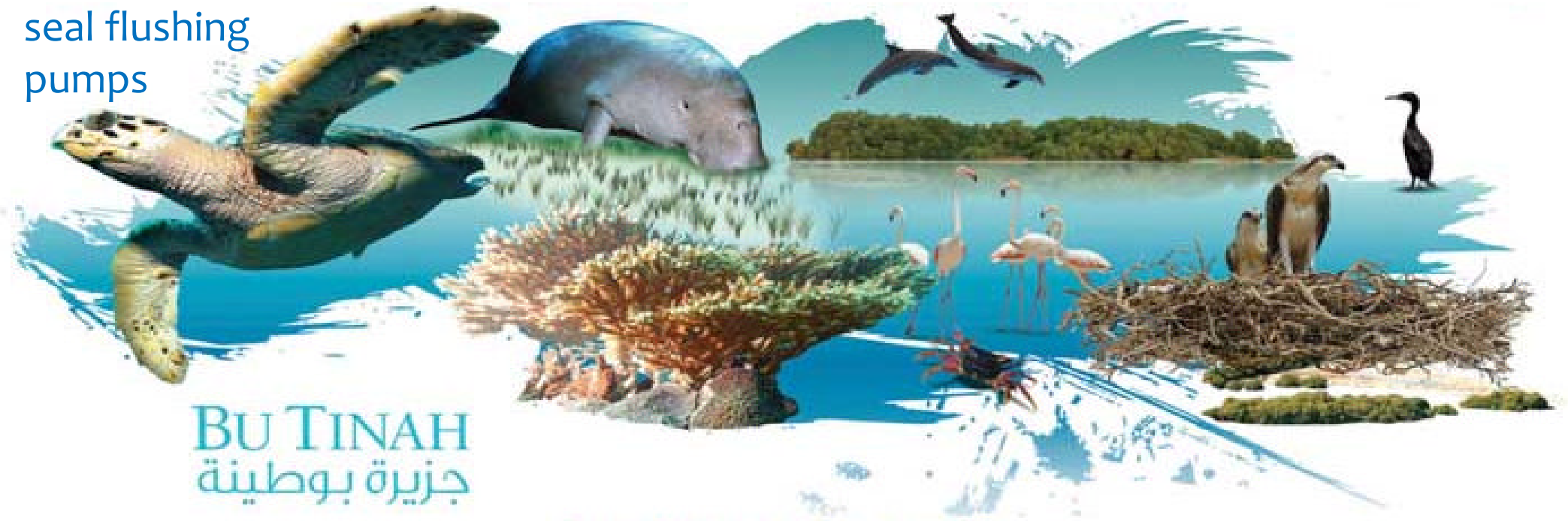
Modification of systems

Replacing old pumps with self seal flushing pumps

Minimizing Leaks/ spills

Identifying alternate applications of wastewaters (e.g. use of dust suppression)

Maximizing reuse of wastewater (irrigation)



# Land Protection

Reduction of Waste Generation  
through **resource conservation**

- .....  
**Minimizing Wastage**

'Love Food & Hate Waste' Campaign

- .....  
**Maximizing Reuse**

Paper, Wood Metal scrap

- .....  
**Maximizing Resource Recovery**

Waste oil, batteries and empty drums



# Energy Conservation



- Waste Steam Utilization
- Vapor Absorption and Refrigeration

- Fuel Consumption
- Automation of Control Systems



# Challenges

## Human Behavior / Motivation

Resistance to change.  
Appreciation of the impact on the  
Global Environment.

Cost / Benefit calculation with  
subsidized energy.

## Technological

Scarcity of recycling facilities  
within UAE.  
Technological Solution Availability



# THANK YOU

Thank you

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UAE, ADNOC: Pollution Prevention Through Resource Conservation