Rethinking Growth: Energy Optimization and GHG Reduction at PIC

Asaad Ahmad Al-Saad Chief Executive Officer



شركة صناعة الكيماويات البترولية (ش م ك)
PETROCHEMICAL
INDUSTRIES COMPANY K.S.C.

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Middle East: New Era, New Challenges



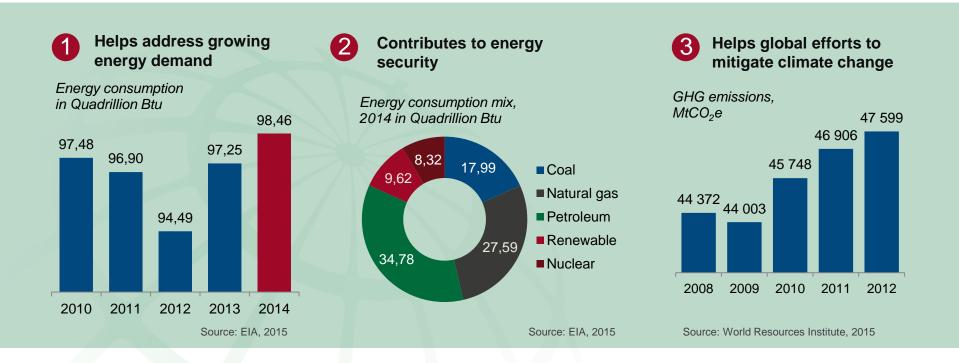


Energy as Engine for Growth





Energy Efficiency: The Hidden Resource

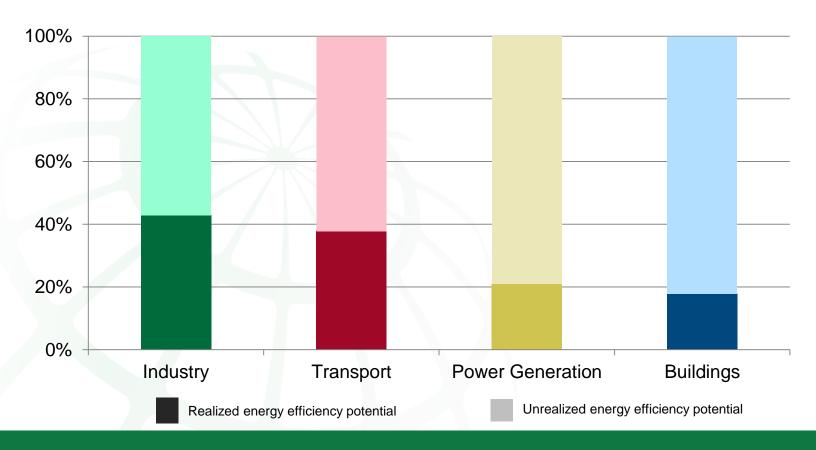








Energy Efficiency: The Opportunity Is Huge Potential for \$18 Trillion in Economic Growth Worldwide

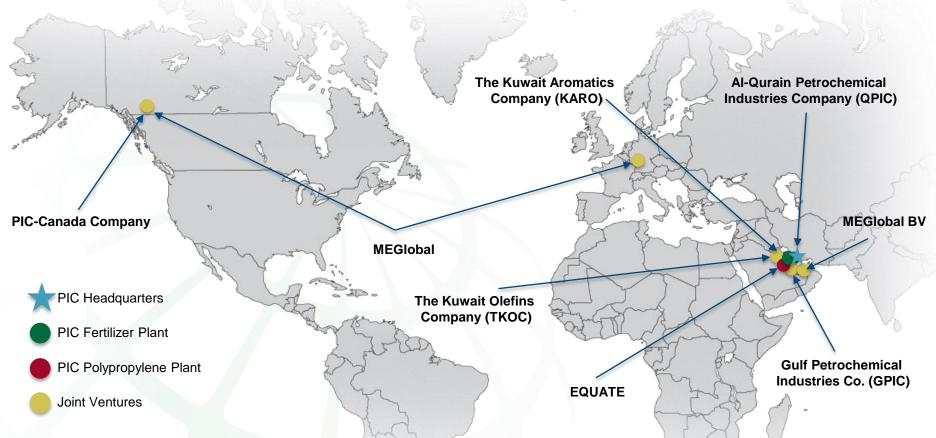


Yet projections to 2035 show up to 3/3 of energy efficiency potential will be untapped

Source: IEA data and analysis



Who Is PIC? – Our Global Operations



Primary products: Fertilizers, olefins and aromatics



Why Does PIC Care About Energy Efficiency?

Key risks to which energy efficiency is a solution

	Financial Risks	 Price fluctuations in traditional energy sources impact the bottom line Energy spend becoming a growing share of operational costs
*	Energy Security	 Production in high-growth emerging markets faces energy quality Energy portfolio flexibility need to ensure operational consistency
	Brand Equity	 Increasing consumer focus on sustainability Industry leadership being defined outside of traditional metrics
	Regulatory Risks	 Long-term carbon penalties in major markets License-to-operate issues as governments focus on energy efficiency
3 1 2	Competition Risks	 New reality of resource-constrained, low-carbon economy changes the basis of competitive advantage Operational efficiency becomes a key differentiator Clean tech (energy efficiency and renewable)



Emerging Drivers Forcing Organizations to Rethink Energy Management



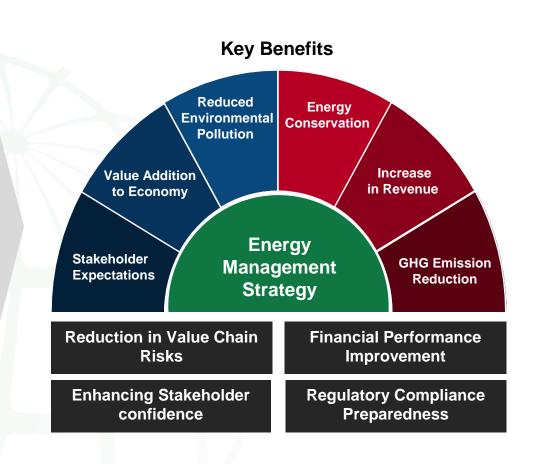
Stakeholders

Investors

Resource Scarcity

Climate Change

Regulations





An Integrated View of Energy and GHG Management

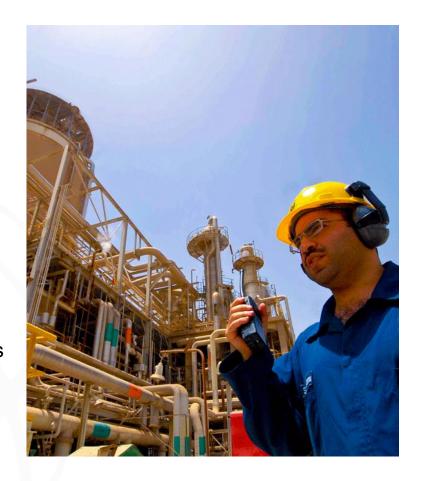




Current Energy and GHG Management

Yearly Objectives

- Aligned to energy intensity target
- Sources of objectives:
 - Energy audits (monthly)
 - External audit (3 years)
 - Brainstorming session (technicians, operators, engineers)
- Significant opportunities are selected
- Action plan is set
- Progress is monitored
- Part of employees' yearly incentive/bonus





Best Practices: Companywide Energy Initiatives





Macroeconomic Impacts of Energy Efficiency

Investment Effects

- Increased investment in energy efficiency
- Higher production in energy efficiency sectors
- Lower production in other sectors

Macroeconomic Impacts

Employment
Economic output
Energy prices
Trade balance

Energy Demand Reduction Effects

- Energy cost savings
- · Increased disposable income
- Higher business profits
- · Improved energy security

Source: IEA data and analysis





Thank you



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