



INNOVATION IN THE GAS INDUSTRY: SHELL'S APPROACH

Marjan van Loon, Vice President LNG, Shell Global Solutions

Marjan van Loon has been Shell's Vice President of LNG, including gas processing, projects and technology since 2009. Her role includes technical and commercial support to LNG and gas projects, including new business opportunities, and process integration, innovation, design and operational support. Working for Shell since 1989, she has worked in oil and gas sectors, in technology, operations and management roles. Prior to working for Shell, she was in Pernis Refinery (1993-1997), before moving to Australia in 1997 to work as technical manager at the North West Shelf LNG Plant in Karratha. In 2005 she moved to Kuala Lumpur to lead the gas sector in Shell's Asia Pacific Service Centre. After moving back to The Hague in 2007, van Loon took up the role of Global Manager in SGSI. She's a member of the Oil and Gas Board of the Royal Dutch Institute of Engineers.

ABSTRACT

Growing population levels and surging economic growth are driving rising energy demand across the world. But with greenhouse gas emissions continuing to rise, all countries must find more energy at a much-reduced cost to the environment in the coming decades.

In energy scenarios Shell believes that by 2050 around 30% of the world's energy could come from wind, solar, biomass and other renewable sources. This would represent spectacular and unprecedented growth.

It also means that fossil fuels are expected to still play an important role in supplying a large part of the world's energy demand. Natural gas is the cleanest burning fossil fuel, it has a clear environmental advantage and it is abundantly available. However, abundantly available does not mean easily available.

To match the pace with which energy demand is growing, the industry needs new and innovative approaches. As technology advances, so does our ability to unlock the world's gas resources.

This presentation will sketch the current natural gas landscape, especially in Australia. It will show how Shell is using technological expertise and innovation to meet the challenge of supplying more natural gas to more markets and help build a secure and sustainable energy system.