

Natural Gas Processing

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Abstract

Natural gas is a naturally occurring mixture of light hydrocarbons (mainly methane) usually extracted as an “associated” product from oil fields or as a “non-associated” product from gas or gas/condensate fields. Natural gas faces an increased interest today due to its lower environmental footprint (lower CO₂, SO₂ and NO_x emissions) and to its lower price compared to oil.

Except from light hydrocarbons, natural gas also contains other components such as H₂O and CO₂, trace components such as H₂S and Hg and some heavier hydrocarbons that have to be removed before the final product reaches the market.

The lecture will cover the technologies used in Natural Gas Processing. The example of the Gas Value Chain from the offshore fields in Norway to the main gas markets in Continental Europe will be used. Gas quality issues from the reservoir to the market will be covered and typical examples of offshore and onshore processing plants will be shown.

Short CV

Dr. Stathis Skouras works as a researcher in the area of Gas Processing and LNG in Statoil ASA in Norway. He is currently activity leader in the area of Gas Quality.

Dr. Skouras graduated in 1997 from the Department of Chemical Engineering in NTUA (Greece). He holds a MSc in Economics (2008) from AUEB (Greece) and a PhD in Chemical Engineering (2004) from NTNU (Norway).

Since 2005 he has been working in Statoil ASA in the area of Gas Processing, first as a process engineer in the Kaarstoe gas plant and then as a researcher in the research center in Trondheim/Norway.