

Leda Goes Commercial

22.06.2011 LedaFlow, a brand new and technologically advanced tool for designing pipelines through a better understanding of oil, water and gas streams, is now ready to be marketed. The system provides great opportunities for more cost-efficient scaling and operations. ConocoPhillips has played a vital part in the development of the tool.



'This is a quantum leap in terms of technology,' says Ole Lindefjeld (photo), research and development manager, ConocoPhillips Norge. Together with Kris Bansal and Tom Danielson at ConocoPhillips' research centre in Houston, he has followed the development for almost a decade. They now see the results of the meticulous work.

The three developers, SINTEF, Total and ConocoPhillips, each own one-third of Leda. Kongsberg Oil & Gas Technologies will handle global marketing and sales.

Simulation Tool

Leda has been developed to meet the industry needs for improved simulation tools in oil and gas production and processing operations. The development program included extensive test campaigns conducted in the large-diameter flow loop at SINTEF's multiphase flow laboratory in Trondheim. The main objectives of the test work were to acquire data with detailed measurements of the flow structures over the pipe cross-section.

Work Continues

The testing included comparison with experimental data, with over 10,000 experimental test points. Field data from ConocoPhillips' and Total's production operations have also been analyzed. This involved over a dozen pipelines and wells operating within a range of fluids from wet gas to oil. Leda is compared to other commercially-available software. Developmental work will continue after launch to enhance the software with additional functionalities.

Read more:

[SINTEF](#) website

[Kongsberg](#) website

Illustration pipeline

Illustrasjon rørledning

