

## **IOR Challenges and Opportunities: Perspectives from an International Oil Company**

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### **1. Introduction**

Today's energy world is increasingly described with respect to the scarcity of hydrocarbon resources and the idea that peak oil will occur in a relatively short term future. In this context, oil producers have the duty to the host countries, their consumers and shareholders of extracting as much oil as possible from the underground. This implies the use of innovative and efficient technologies to maximize oil recovery. International Oil Companies have a long and successful track record in Improved Oil Recovery and Enhanced Oil Recovery and bring their know how and experience for the benefit of all stakeholders

### **2. Key Features**

The presentation will first recall the global figures of oil resources and reserves and emphasize that extracting a larger portion of oil in place can result in a very significant extension of worldwide oil production.

The talk will start with Improved Oil Recovery and notably point out the IOC's approach of integrating geosciences and surface facilities into project teams that brings significant value and efficiency into the design and conduct of large projects. The presentation will then focus on Enhanced Oil Recovery solutions and their possible use according to oil characteristics, including chemical and thermal methods.

Exemples will be provided to illustrate some of the technologies with real cases from Total portfolio.

### **3. Conclusions**

IOR and EOR are key technologies in ensuring a greater access to oil resources than currently envisioned. Total and other IOC's expertise and experience guarantee their partners that the most efficient technologies will be applied where they are involved in operations.

### **Speaker's Biography**

Patrick Pouyanné, 43, is a graduate of France's Ecole Polytechnique and Ecole des Mines of Paris. From 1989 to 1996, he held several positions in the French Industry Ministry, then at the Cabinet of the Prime Minister as Advisor for Environment and Industry (1993-1995) and Head of Cabinet of the Minister for Telecommunications and Information Technologies (1995-1996).

He joined the Group in 1997 as General Secretary in Angola. In 1999 he was appointed Group Representative and General Manager of the E&P subsidiary in Qatar. In August of 2002, he became Senior Vice President Finance Economics Information Systems for Exploration and Production and Member of the E&P Management Committee.

He is Senior Vice President Strategy Business Development Engineering R&D for Exploration and Production since January 2006 and a member of the Group Management Committee since May 2006.