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SALA BARBARA  
5° Palazzo Uffici - Eni divisione E&P  
Via Emilia 1  
SAN DONATO MILANESE

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**ENVIRONMENTAL PERFORMANCE IN THE OIL AND  
GAS EXPLORATION & PRODUCTION INDUSTRY:  
ASSESSMENT AND CHALLENGES**

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**ABSTRACT**

Companies need to collect and report on their environmental performances for various reasons: to comply with local regulations, to drive their activities, to meet external stakeholders' requirements or expectations. Collection of data significantly increased during past decade; as well as expectations from stakeholders on the quality of these data. In some countries external auditing of data has already been implemented.

The data gathered by the industry during the last ten years provides a robust hindsight: e.g. the quality of the produced water discharged offshore has improved in almost all regions of the world; accidental spills of hydrocarbons have decreased; methane and VOCs emissions have decreased, probably indicating a significant effort in venting and flaring. On the other hand, data show no significant reduction of CO<sub>2</sub> emissions during the years 2002-2007.

The other main outcome of the efforts made is a better understanding of what these data really mean and cover. Efforts made at either national level (e.g. API), regional (OSPAR) or international level (GRI, OGP, IPIECA, etc.) have undoubtedly been efficient but the quality of the data still needs to be improved and additional data are to be collected to meet stakeholders expectations and the need of the industry - e.g. when it comes to address disposal of waste or the quality of the environment. In addition, the industry needs to agree on leading indicators to better monitor its improvement programs, and to efficiently drive the environmental policies of the companies. All these parameters are to be taken into account by companies wishing to develop a robust data collection and reporting system.

**BIOGRAPHY**

*Emmanuel GARLAND is a Special Advisor to the HSE Vice President, at Total Exploration-Production. In his current position, he provides support and advice to operational entities worldwide on standards to be used and regulations which apply in various parts of the world.*

*In addition, his activities include participation to:*

- *OGP, the International Association of Oil & Gas Producers, where he has been chairing the Environmental Performance Indicators Task Force for almost 10 years. He now chairs the Environment Committee (EC) of OGP;*
- *OSPAR, the Convention for the Protection of the North-East Atlantic, where he chaired the Expert Assessment Panel of its Offshore Industry Committee;*
- *SPE, where he has been Technical Director for Health, Safety, Security, Environment, and Social Responsibility, Member of the Board of Directors (2005-2008).*

*He is a Qualified Engineer, graduated from the École Centrale de Paris (1977), and from the École Nationale des Pétroles et des Moteurs (Paris, 1980).*