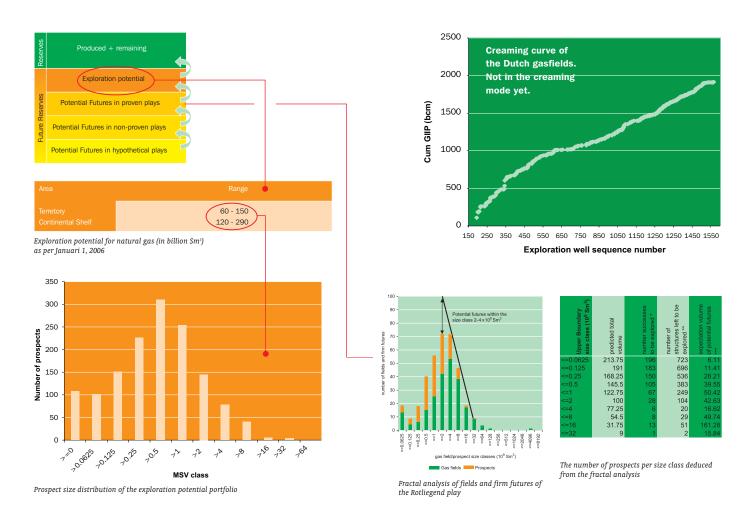
Ministery of Economic Affairs Directorate Energy Market PO Box 20101 2500 EC The Hague The Netherlands

## Prospectivity in the Netherlands Undiscovered resources: exploration potential

The exploration potential is the producible volume that may be assumed to be present in as yet undiscovered accumulations in the subsurface of the Netherlands on the basis of geological information. Economic factors are not taken into account in this estimate. In estimating the exploration potential for natural gas, TNO focuses on evaluating those geological units (so-called plays), in which geological conditions are favourable for gas accumulations and which have been sufficiently proven by drilling. Within these geological plays, only those prospective structures ('prospects') are considered that have been identified and assessed on the basis of existing data. Prospects of which the volume is very small – in case of success smaller than 0.5 billion Sm³ onshore or smaller than 2 billion Sm³ offshore – are not included in the potential estimate. The exploration potential that may be present in hypothetical plays, or in not actually identified geological structures, is not taken into account because of its speculative nature. The estimate of the exploration potential includes prospects located in environmentally sensitive areas. The estimate of the exploration potential is expressed as a numerical range, to stress the inherent highly uncertain nature.



## Exploration potential under economic constraints

Evaluating the prospect portfolio with for example the TNO exploration simulation program EXPLOSIM (Lutgert et al. 2005) will result in a risked, economic volume gas to be found.

	Prospect Portfolio		Output Exploration simulation runs with different economic scenario's		
	Prospect portfolio @ zero cut-off	Exploration potential = Prospect portfolio @ MSV cut-off (offshore 2bcm; onshore 0.5bcm)	Prospect portfolio @ EMV>0 cut-off, oilprice 35\$	Prospect portfolio @ EMV>0 cut-off, oilprice 50\$	
Expectation (Risked Volume in bcm)	500	335	220	332	
Number of prospects	1420	450	140	215	