477

ABATEMENT OF NOX EMISSIONS AND NO2 HOTSPOTS - NATIONALE SCALE COST-EFFECTIVE TECHNICAL OPTIONS

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Six technical measures are evaluated for their cost-effectiveness in order to achieve the following two targets in the Netherlands: 1 the NO2 annual mean limit value for air quality. 2 the national emission ceiling for NOX. The cost-effectiveness per reduced NOX (in Euro per µg/m3) at hotspots is derived for the six measures with local and national scale dispersion models. Cost-effectiveness in Euro per kg is available for the six measures. It is concluded that in view of the six measures, stimulating an early introduction of Euro 4 + 5 emission standards in heavy traffic is most cost-effective for simultaneous abatement of NOX emissions and high NO2 concentrations at the remaining hotspots. Figure 1. Cost-effectiveness curves for six measures applied both to reduction of NOX concentrations at hotspots and to reduction of NOX emissions.