

## **Science Project: Horizon scanning – air pollution abatement**

### Summary SC-314/S

Consultants from AEA Technology Environment examined current research and development activities to compile a database of air pollution abatement technologies that have the potential to become the Best Available Technology (BAT) in 3 to 10+ years. The project was an information gathering exercise aimed at testing potential methods for Horizon Scanning within Environment Agency Science.

It was found that relatively few novel technologies have entered the air pollution control (APC) industry recently. The majority of truly novel technology developments tend to originate in national or international government funded projects.

Both pollution control and pollution prevention technologies were considered as well as techniques to reduce global warming. The majority of research and development in the air pollution field is aimed at particulate, vapour and gaseous emissions that affect air quality and human health. Carbon dioxide capture is the main technology being developed to address global emissions.

Summaries were provided for 12 innovative technologies. Details of all the identified projects were collated in a simple database to be used by Horizon Scanning Scientists within the Agency to track the progress and potential of the technologies.

This Summary relates to information from Science Project SC-314 reported in detail:

**Science Report SC-314/SR**  
**Horizon scanning – air pollution abatement**  
**ISBN 1844323064** **August 2004**

Internal Status: Released to Regions  
External Status: Released to Public

Project Manager  
Jennifer De Lurio, Technology Group

Research Contractor  
AEA Technology Environment  
Building E1  
Culham Science Park  
Abingdon  
Oxon  
OX14 3ED  
Telephone: 0870 190 6438  
<http://www.aeat-env.com/>

This project was funded by our Science Group, which provides scientific knowledge, tools and techniques to enable us to protect and manage the environment as effectively as possible.

Further copies of this and the above report(s) are available from our National Customer Contact Centre by emailing [enquiries@environment-agency.gov.uk](mailto:enquiries@environment-agency.gov.uk) or by telephoning 0870 850 6506.