1. Record Nr. UNINA9910299433003321

Titolo	Costs of Ammonia Abatement and the Climate Co-Benefits / / edited by Stefan Reis, Clare Howard, Mark A. Sutton
Pubbl/distr/stampa	Dordrecht : , : Springer Netherlands : , : Imprint : Springer, , 2015
ISBN	94-017-9722-6
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (292 p.)
Disciplina	363.7387
Soggetti	Air - Pollution Atmospheric science Pollution Atmospheric Protection/Air Quality Control/Air Pollution Atmospheric Sciences Pollution, general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index at the end of each chapters.
Nota di contenuto	1. Overview, aims and scope -- 2. Economic costs of nitrogen management in agriculture -- 3. Economics of low nitrogen feeding strategies -- 4. Ammonia abatement by animal housing techniques -- 5. Ammonia abatement with manure storage and processing techniques -- 6. Cost of ammonia emission abatement from manure spreading and fertilizer application -- 7. Co-benefits and trade-offs of between greenhouse gas and air pollutant emissions for measures reducing ammonia emissions and implications for costing -- 8. Country case studies -- 9. Estimating costs and potential for reduction of ammonia emissions from agriculture in the GAINS model -- 10. Costs of ammonia abatement: summary, conclusions and policy context.
Sommario/riassunto	This book examines the costs involved in reducing ammonia emissions from agricultural practices as well as the potential benefits for climate change mitigation. It features contributions by experts in agricultural production processes, producers of agricultural equipment and service providers as well as scientists who assess the issue from an European

perspective. Coverage examines all agricultural production stages starting from animal feed and housing, including the storage and application of liquid and solid manure and of mineral fertiliser. In addition, the book looks at the relationship between ammonia control and greenhouse gas emissions and details the GAINS (Greenhouse Gas and Air Pollution Interactions and Synergies) model for estimating costs and reducing ammonia emissions from agriculture. Examples and case studies from select European countries, including Italy, Switzerland, Russia, Ireland, and Spain, provide readers with detailed studies of ammonia abatement costs and the effectiveness of implementing control measures under different conditions. This book is the result of an Expert Workshop held under the auspices of the UNECE Convention on Long-range Transboundary Air Pollution (CLRTAP) and organised by the Task Force on Reactive Nitrogen (TFRN). The findings of this workshop have informed the development of documents supporting the revision of the Gothenburg Protocol and provided researchers and practitioners with vital new data. Bringing together a wealth of key information on the costs of ammonia abatement and the climate co-benefits, this monograph provides readers with deep insight into this complex issue.