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Barbara Buchner, Ph.D. in Economics, University of Graz, Masters Degree in Economics within the Economics/Environmental Sciences Joint Program, University of Graz and University of Technology of Graz, is Energy and Environment Analyst at the International Energy Agency (IEA). She joined the IEA in January 2007 to work on climate and energy policy issues in the *Energy Efficiency and Environment Division* of the *Long-term Co-operation and Policy Analysis Office*. Before, she was working as a Senior Researcher at the Fondazione Eni Enrico Mattei (FEEM), where she was involved in a number of activities related to FEEM's Climate Change Policy and Modelling Unit in the field of environmental economics. In fall 2006, she was a Visiting Scholar at the Massachusetts Institute of Technology (MIT) within its *Joint Program on the Science and Policy of Global Change & Centre for Energy and Environmental Policy Research (CEEPR)*.

She is working on the qualitative and quantitative analysis of Kyoto Protocol mechanisms and of other policy approaches to greenhouse gas mitigation, trying to identify the incentives that are caused by different strategies in climate and energy policy. In this context, one of her main areas of work concerns the European Union Emissions Trading Scheme, where she is currently involved in an ex-post evaluation of the first trading phase. Special attention is given to the ancillary benefits of abatement measures and to effects concerning technical change induced by various policies. An additional research topic is the integration of climate change and energy efficiency policy issues. In this context, she also analyses the role of carbon finance in triggering investments in carbon-friendly technologies, giving particular attention to strategies to improve energy efficiency.

Her main activities and responsibilities have so far included: research in the economics and policy of climate change, project management and development, organization and coordination of international workshops, participation in and presentations at international conferences and workshops.

Dr. Buchner has published a number of articles in peer-reviewed journals as well as in books, a selection of which is shown in the sequel:

Over-Allocation Or Abatement? A Preliminary Analysis of the EU ETS Based on the 2005-06 Emissions Data, forthcoming *Environmental and Resource Economics*. (with A. D. Ellerman)

Data Envelopment Analysis of Different Climate Policy Scenarios, forthcoming *Ecological Economics* (with V. Bosetti).

Methodological Aspects of Recent Climate Change Damage Cost Studies, Integrated Assessment Journal., Vol. 8, N° 1, 19-40. (with O. Kuik, M. Catenacci, A. Gorla, E. Karakaya, and R.S.J. Tol).

Allocation in the European Emissions Trading Scheme: Rights, Rents and Fairness, 2007, Cambridge University Press (eds. with A.D. Ellerman and C. Carraro.)

The European Union Emissions Trading Scheme: Origins, Allocation, and Early Results, *Review of Environmental Economics and Policy*, Vol. 1 (2007), N° 1, 66-87. (with A. D. Ellerman).

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US, China and the Economics of Climate Negotiations, *International Environmental Agreements: Politics, Law and Economics* vol. 6, N° 1 (2006), 63-89. (with C. Carraro).

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Emission Trading Regimes and Incentives to Participate in International Climate Agreements. *European Environment*, 14 (2004), Issue 5, p 276-289. (with C. Carraro).

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Back to Kyoto? US Participation and the Linkage between R&D and Climate Cooperation. In A. Haurie and L. Viguier, eds., Coupling Climate and Economic Dynamics, Kluwer Academic Publishers, 2005, p.173-204. (with C. Carraro, I. Cersosimo and C. Marchiori).

The Dynamics of the Climate Negotiations: a Focus on the Developments and Outcomes from The Hague to Delhi. In M. Bothe and E. Rehbinder, eds., Climate Change Policy, Eleven International Publishing: The Netherlands, 2005, p. 19-43.

Equity Principles to Enhance the Effectiveness of Climate Policy - An Economic and Legal Perspective. In M. Bothe and E. Rehbinder, eds., Climate Change Policy, Eleven International Publishing: The Netherlands, 2005, p. 45-72. (with J. Lehmann)

The Clean Development Mechanism and Ancillary Benefits. In M. Bothe and E. Rehbinder, eds., Climate Change Policy, Eleven International Publishing: The Netherlands, 2005, p.131-148. (with A. Caparrós Gass and T. Tazdait)

Can Equity Enhance Efficiency? Some Lessons from Climate Negotiations. In C. Carraro and V. Fragnelli, eds., Game Practice and the Environment, E.Elgar: Cheltenham, 2004, p. 37-64. (with F. Bosello, C. Carraro and D. Raggi).