

**A Proposed Paper for the DOE/NETL Unburned Carbon Conference  
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## **Multi-Pollutant Interactions at Coal-Fired Power Plants**

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### **Abstract**

In contrast to past regulations for power plant air pollutants, there is growing interest in a multi-pollutant perspective that would simultaneously address criteria pollutants and air toxics (especially mercury), and possibly greenhouse gases as well. This paper addresses some of the key technical and economic questions needed to assess policy proposals, namely: What technical options are available to control each of these pollutants? What plant-level interactions must be considered in evaluating the feasibility and cost of alternative control measures? What advantages are there to multi-pollutant control strategies? The Integrated Environmental Control Model (IECM) developed for the U.S. Department of Energy's National Energy Technology Laboratory (DOE/NETL) is described, and used to obtain illustrative estimates of the cost and emissions impacts of interactions among technologies for multi-pollutant controls. The effects of unburned carbon are included in this discussion.