

With contributions by Robert McDougall, Dileep Birur, and Terry
Walmsley

Extension to GTAP-E Emission Accounting

- GTAP-E accounts for emissions
 - Main model equation... $gco2pd(i,r) = qpd(i,r)$;
- Extend the emissions accounts to also capture Emission Intensity (EI)
 - EI represents emissions reduction technology
 - Levels equation... $GCO2PD = QPD * EI$
 - Updated main model equation becomes...
 $gco2pd(i,r) = qpd(i,r) + ei(i,r)$;

El Assumptions

- Assume El is cost free
- Therefore we get free “sugar” (coal)
- Utilized by all regions