

Charting the Path Forward:

Accounting for Renewables & the Environment

November 4, 2004

NAFTA Commission for Environmental Cooperation
US Environmental Protection Agency
World Resources Institute

Today's agenda: discussion question

"What is the emissions impact when a renewable energy project generates electricity?"

Aspirations for the day

- Examine calculation methodologies currently being used or proposed
- Talk with users and electricity sector experts
- Discuss trade-offs of different approaches
- "Ground-truth" approaches together
- Lay out next steps
 - for methodology development
 - for outreach/education

Interconnected and complex issues

- Protocol for calculating avoided emissions
- Links to environmental regulations/emissions market design
- Disaggregation of environmental attributes
- Additionality
- RECs treatment in mandatory & voluntary markets
- REC tracking systems

Methodologies differ along three dimensions

Dimension	Common options
Geographic scale	StatePower poolNation
Type of emissions rate	 System average Operating margin Build margin
Temporal scale	 Annual vs. hourly vs. seasonal Retrospective vs. forward- looking (future modeling)

Suggested assessment parameters

- "Accuracy"
- Practicality
- Transparency
- Replicability
- Conservativeness

