

TOOLS FOR LOW CARBON DEVELOPMENT PLANNING



Why Low Carbon Development Planning?

Strong demand from countries

- Accessing energy
- Accessing finance
- Reducing energy costs
- Improving energy security
- Participating/creating carbon markets
- Developing industrial advantage



ESMAP's LCD Planning Tools

META | EFFECT | MACTool | TRACE

- **ESMAP is building upon its LCD work:**
 - ESMAP Mandate – help developing countries *“achieve environmentally sustainable energy solutions for poverty reduction and economic growth”*
 - Completed or ongoing low carbon development work in 18 countries
- **Countries need LCD analytical tools:**
 - LCD work is often complex involving many variables over time
 - Focus on low carbon in development is not a well-trodden path
 - Many countries lack capacity to perform the detailed analysis
- **ESMAP developed tools that currently do the following:**
 - META** | Help countries choose electricity supply options
 - EFFECT** | Build development scenarios and forecast their impact on GHG emissions
 - MACTool** | Identify the marginal abatement costs associated with each scenario
 - TRACE** | Assess energy efficiency opportunities at the city-level

Tools are Informing Policy and WB Lending

IMPLEMENTED (OR ONGOING) IN 18 COUNTRIES SO FAR

Country	Tool Used
Bosnia and Herzegovina	TRACE
Brazil	TRACE, MACTool, EFFECT
China	EFFECT
Ethiopia	TRACE
Georgia	TRACE, EFFECT
Ghana	TRACE
India	EFFECT
Indonesia	TRACE
Kenya	TRACE
Kosovo	TRACE
Macedonia	TRACE, EFFECT, MACTool
Nigeria	EFFECT
Philippines	TRACE
Poland	EFFECT
Serbia	TRACE
Thailand	EFFECT
Turkey	TRACE
Vietnam	TRACE, EFFECT, MACTool

EXAMPLES OF IMPACT

EFFECT, India | Brought together disparate government departments. Highlighted the importance of two things: (1) regional transmission - Bank has loaned US\$2B towards those projects (2) hydropower - Bank is currently preparing studies for mobilizing US\$20B for hydropower projects

MACTool, Brazil | Government designing a domestic cap and trade program using MACTool for supply and demand analysis at different CO₂ price levels (with Partnership for Market Readiness)

TRACE, Turkey | Informed the creation of the Sustainable Cities pillar in the US\$4.45billion, 2012-2015 Country Partnership Strategy

This Afternoon's Logistics

STATION MATCHING YOUR NUMBER AND ROTATE CLOCKWISE AFTER 20 MINUTES

