

### AEP's Perspective on Forestry Offsets

**EPRI GHG Offsets Workshop** 

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# Background

- As a large GHG emitter forestry offsets may provide AEP an opportunity to achieve quantifiable emission reduction at lower costs than internal options – although not as low cost as once perceived
- AEP views forestry offsets as tangible measures to address climate change
  - We have been one of the largest U.S. investors in forestry to date
- Forestry offsets are being used towards AEP's voluntary reduction goals

## **AEP's Experiences**

- Large scale needed in order to be costeffective relative to other offsets
  - TNC rule of thumb is that it must be scalable up to 10,000 acres
  - In U.S. land increasingly not available due to ethanol and other crop production
- AEP has scaled back new forestry investments in anticipation of design of mandatory rules and inability to find costeffective domestic projects

## **AEP's Experiences**

- Project developers need to view them as investments not philanthropy
  - Develop management plans
  - Identify and manage risk on an ongoing basis
  - Have resources necessary to monitor, produce reports on a timely basis, etc.
- More service providers will be needed to develop turnkey projects
  - Forestry generally not a core competency of investors
  - Lots of work and hidden costs in measuring, validation, paperwork, registration, etc.

# **Addressing Permanence**

#### U.S. projects

- Become part of National Wildlife Refuges or State Forests
- Private property owners binding lease agreements and seek traditional land "stewards"
- Company lands 15 year commitment to CCX
- CCX 20% forest carbon reserve pool for catastrophic loss

#### International projects

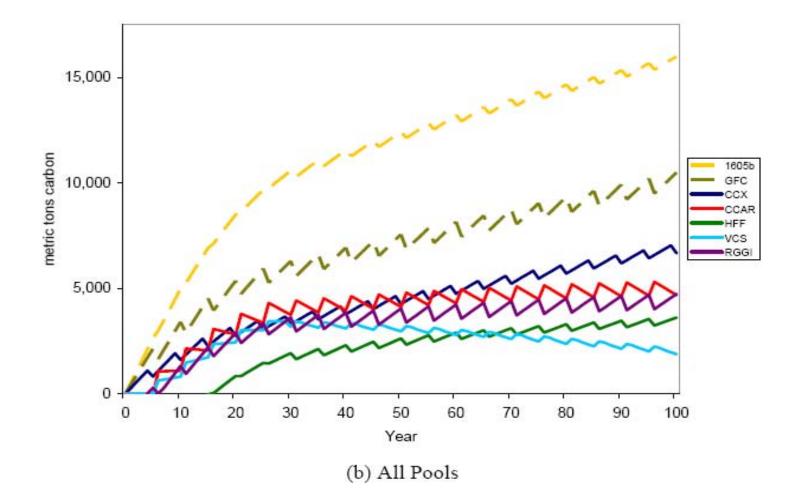
- Bolivia expansion of national park and enforcement of boundaries
- Brazil registered as nature preserve / environmental protection area, enforcement of boundaries

# **Addressing Leakage**

### U.S. projects

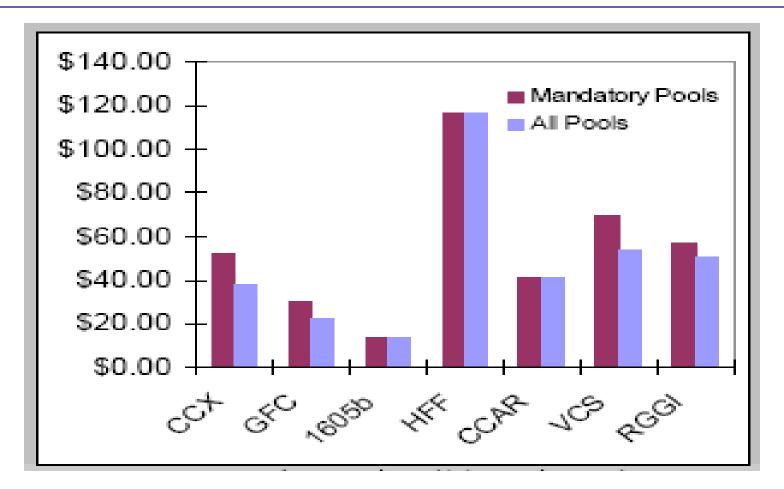
- Leakage not calculated
- International projects
  - Bolivia leakage was calculated for logging (country-wide) and other land uses (within 15 km. buffer zone)
  - Brazil will likely subtract 25% per the CCX protocol where no leakage calculation performed

### **Sequestration Rates by Protocol**



Source: "A Critical Comparison and Virtual Field Test of Forest Management Carbon 7 Offset Protocols, Duke Univ. Sept. 2008

## Carbon Price Necessary to Match NPV of BAU



Source: "A Critical Comparison and Virtual Field Test of Forest Management Carbon Offset Protocols, Duke Univ. Sept. 2008

### **Price of Carbon to Break Even**

Lower Mississippi Valley Project Costs

No Standard	\$28.50 / (tCO2e)
CCAR	\$42.99
VCS	\$45.26
RGGI	\$48.15
□ CCX	\$52.23
□ TNC	\$71.66

Source: TNC

# **Closing Thoughts**

- Need public policy that recognizes forestry in order to minimize impacts on energy costs
- Cost-effectiveness relative to other offsets will drive AEP's future decision-making on forestry investments
- Eliminating quantitative and geographic limitations will provide greater cost savings to our customers and to the U.S.
- Standards need to be credible but we need to find the balance between credibility and practicality – "The perfect is the enemy of the good."