

# New York PSD Settlements

AES and NRG Cases

January 27, 2005

# Plants Covered in Settlements

AES

Greenidge (159 MW)

Westover (128 MW)

Hickling (88 MW)

Jennison (71 MW)

NRG

Huntley (715 MW)

Dunkirk (580 MW)

# AES Settlement

- Hickling and Jennison
  - Plants in cold shutdown since 2000
  - BACT/Repower/Shut Down by May 1, 2007

# AES Settlement

- Greenidge #3 and Westover #7
  - BACT/Repower/Shut Down by December 31, 2009
  - 2007-2009: 1,400 hours/year operation
    - Interim SO<sub>2</sub>: 1.5 lb S/mmBtu and 3.0 lb SO<sub>2</sub>/mmBtu

# AES Greenidge Unit #4

- Clean Coal Project
  - AES/DOE funded – Start-up September 2006
  - If Clean Coal Project not done – then must meet BACT/Repower/Shut Down by December 31, 2009

# AES Greenidge Unit #4

- Emission Rates for the Clean Coal Project:
  - NO<sub>x</sub>: Three Operating Ranges
    - Start-up/Shutdown: 0.42 lb/mmBtu
    - Low-Operating Range: based on load curve (0.28 lb/mmBtu)
    - High-Operating Range: 0.10 – 0.15 lb/mmBtu
  - SO<sub>2</sub>: Two Operating Ranges
    - Start-up/Shutdown: [S] in coal (Subpart 225-1)
    - 0.19 – 0.38 lb/mmBtu

# AES Westover Unit #8

- 2 Compliance Options:
  - Must advise NYS of selected option by June 1, 2007
    - Clean Coal Project
      - Similar to Greenidge Unit #4
      - Start-up by December 31, 2009
    - Repower or Shut Down by December 31, 2009

## AES Settlement – Emission Reductions – by 2010

Plant	NOx Reductions (tons/year)	SO2 Reductions (tons/year)
Greenidge	2,160	19,000
Westover	1,840	14,000

# NRG Settlement

Dunkirk and Huntley

Reduce NO<sub>x</sub> Emissions by over 14,000 tpy (81%)

Reduce SO<sub>2</sub> Emissions by over 95,000 tpy (87 %)

Emissions reduced in steps – full reduction by 2013

# Total Emission Reductions

- **NO<sub>x</sub>: 18,000 tons/year**
  - Equivalent to removing 2.5 million cars from the roads of NYS.
- **SO<sub>2</sub>: 123,000 tons/year**
  - Equivalent to removing every diesel truck and bus from the roads of the United States.