Net-Negative CO₂ Baseload Power Initiative:

Coal Can Address Climate Change Concerns, Protect the Nation’s Baseload Power Infrastructure, and Secure the Economic Future of Coal Communities

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Net-Negative CO₂ Coal-Fired Power Plant Technology

Coal → Fuel Transport → Power Generation → CO₂ Storage → CO₂

Baseload Power

CO₂ Footprint → CO₂

Net-Negative CO₂ Footprint
Net-Negative CO₂ Baseload Power Program

Qualifying projects:

• Must retrofit/replace, at the same site, an existing coal-fired power plant to preserve state and community economic benefits.

• Retrofit or replacement must have net-negative emissions using coal/biomass co-firing with CCS

• Proposes a $30B DOE-managed trust

• Power plant owners may competitively apply
  • Grants for Concept Studies
  • Cost-share for pre-FID Project Development Activities
  • A package of incentives to attract commercial co-investment and limit ratepayer impacts
Why Do We Need Net-Negative CO$_2$ Baselload Generation?

• Aggressive Administration Targets
  2030 - 50% economy-wide reduction of U.S. GHG
  2035 - Net-zero emissions across the electricity sector
  2050 - Economy-wide net-zero GHG emissions

**Impossible to achieve the goals without “net-negative” technologies**

• Impact of these targets is premature coal retirements and possibly natural gas too
  • Strands valuable infrastructure
  • Severely damages coal and power plant communities
    • Tax base is significantly reduced
    • Loss of jobs
  • Damages electricity reliability
  • Raises electricity cost, further impacting manufacturing jobs and households

• Better to upgrade these coal plants with 21$^{st}$ Century, Net-Negative CO$_2$ Baselload Generation

• Provides technology export opportunity to countries that will continue to use coal for decades