

# USAID - NETL Cooperation in India



**The Role of U.S. Government  
and Multi-Donor  
Organizations in Building  
AFV Markets Abroad**

**10<sup>th</sup> National Clean Cities  
Conference  
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# National Energy Technology Laboratory



- **One of DOE's 17 national labs**
- **Government owned / operated**
- **Sites in:**
  - Alaska
  - Oklahoma
  - Pennsylvania
  - West Virginia
- **More than 1,100 federal and support contractor employees**
- **What We Do:**
  - Shape, fund, and manage extramural RD&D programs
  - Conduct onsite science and technology research
  - Support policy development and best business practices



# NETL's Cooperation with the U.S. Agency for International Development (USAID)

Since 1982, the U.S. Department of Energy's National Energy Technology Laboratory (NETL) and its predecessor organizations have provided technical assistance to the U.S. Agency for International Development (USAID) in India for several cooperative projects in the coal and power generation sectors. Recently, this has been expanded to include a clean air / clean fuel vehicle initiative as well as other tasks. NETL's provides support for these projects through Participating Agency Service Agreements with the USAID Mission in India, which has an agreement with the Government of India for each project



## What is a USAID PASA?

- A Participating Agency Service Agreement (PASA) is an arrangement between two U.S. government agencies where the participating agency, such as DOE, performs inherently governmental functions to conduct technical services for USAID.
- A PASA normally includes a public - private partnership agreement to conduct the tasks required by USAID.
- Tasks under a PASA include performance of technical services and procurement activities as well as the monitoring and evaluation of contracted services.



# What a PASA Must Accomplish

- **Respond or contribute to efforts that people in the host country are already trying to do**
- **Local stakeholders must be consulted to ensure consistency with their values and priorities**
- **Results of activity provides greater voice and influence to the poor and disadvantaged**
- **Activity must be transparent to the local stakeholders**
- **Strengthen the capacity of institutions throughout the society to carry out programs that are responsive to people's priorities**
- **Strengthen and broaden communications among players in the development process**
- **Approach must unleash innovation and local initiative**



# NETL's Experience with USAID

- **Greenhouse Gas Pollution Prevention (GEP) Project (1995 - 2003)**
- **Global Climate Change Supplement:**
  - Phase I (2000 - 2005)
  - Phase II (2003 - 2008)
- **U.S. Asian Environmental Partnership's (USAEP) Indo-U.S. Coal Preparation and Beneficiation Program (1994-1996)**





# NETL's Experience with USAID

- **Program for Acceleration of Commercial Energy Research (PACER) (1993-1997)**
- **Energy Management Consultancy and Training (EMCAT) Project (1993-1995)**
- **Alternative Energy Research & Development Project (1982 - 1992)**



## USAID-USDOE/NETL PROJECT FUNDING PROFILE, MILLIONS \$

Project Title and Type			Term	USAID Funds to NETL	Other USAID Funds	Partner Funds	Total
<b>COMPLETED PROJECTS</b>							
Pilot-scale R&D	Alternative Energy R&D (AERD)	Phase I	1982-1987	3.0	2.5	0.5	6.0
		Phase II	1987-1992	2.0	2.5	1.0	5.5
Plant Study	Energy Management and Consultancy (EMCAT)		1993-1995	2.5	2.0	0.5	5.0
Demo Plant	Program for Acceleration of Commercial Energy Research (PACER)		1993-1997	0.6	6.2	21.5	28.3
Demo Plant Support	Indo-U.S. Coal Preparation & Benefication		1994-1996	0.4	0.5	0.0	0.9
Subtotal			1982-1997	8.5	13.7	23.5	45.7
<b>ONGOING PROJECTS</b>							
Training and Demos	GHG Pollution Prevention (GEP)		1995-2002	6.6	13.8	11.0	31.4
	GEP - Climate Change Supplement 1		2000-2005	5.9	40.1	TBD	46.0
	GEP - Climate Change Supplement 2		2003-2008	5.6	TBD	1.2	5.8
<b>GRAND TOTAL</b>				<b>26.6</b>	<b>67.6+</b>	<b>35.7+</b>	<b>128.9+</b>





# **NETL's Experience with USAID/India**

- **NETL has provided technical assistance for implementation of the GEP Project and Phase I of the GCC Supplement since 1995 through a PASA totaling US\$12.5 million. Many U.S. companies have participated in this project by demonstrating their products and services; thereby, creating business opportunities in India.**
- **More recently, the PASA was amended to include technical assistance, training, and coordination for five activities related to clean alternative fuels, a hydrogen economy, decentralized energy systems, a regulatory framework, and communication and outreach**



# Sample USAID - NETL PASA Private Partners

- In coal-related work:
  - Kothari Sugars and Chemicals
  - Thiru Arooran Sugars Ltd
  - National Thermal Power Corporation (state-owned utility)
  - CLI Corp. (Pittsburgh, PA)
  - ST-BSES Coal Washeries, Ltd. - Spectrum Technologies (Schenectady, NY), CLI (Pgh, PA) and Indian private utility (BSES/Mumbai, India)
- In clean air / clean fuel vehicle initiative:
  - Impco Technologies (and Minda Impco)
  - Clean Fuel Technologies
  - Angi International



# USAID - NETL PASA Public Partner: DOE Clean Cities International

- Clean Cities had existing experience in India
  - SIAM-DTC-NAFTC Training Partnership Signed (01/02)
  - LPG Scoping Mission (12/02)
  - CNG Training Conducted (01/03)
- Clean Cities is built on public-private partnerships
  - Voluntary approach
  - Multi-stakeholder coalitions
- Made for an attractive partner for USAID project



# Public-Private Partnerships

- Based in a coalition of public and private stakeholders
  - Credible: a diverse group of stakeholders striving for the same goal
  - Viable: not being subject to changes in government leadership
- Establishes individual stakeholder commitments
  - Reliable: provides manufacturers and equipment suppliers a commitment that a market will be built
- Develops a Program Plan
  - Assesses current AFV market
- Guides development of local AFV markets, giving private partners (U.S. AFV industry) access to enter the market



# USAID/India – NETL Cooperation

