

ETV Pilots Seeking Partners

Advanced Monitoring Systems

- ◆ Technology types to include on-site and remote monitors with initial focus on air emissions; water, soil and process monitors to follow.
- ◆ Stakeholders group formed by Spring 1997; first meeting in Summer 1997.

Air Pollution Control Technologies

- ◆ Initial focus on NO_x, fine particulate, volatile and semi-volatile organics; protocol development to begin immediately.
- ◆ Initial stakeholders group formed in 1997.

Wet Weather Flow Control Systems

- ◆ Technology types include:
 - Stormwater inlet treatment devices
 - Advanced, high-rate, WWF treatment processes
- ◆ Stakeholders group will be formed by Summer 1997 with planned meetings twice a year.
- ◆ Testing protocols for each technology type will begin after EPA selects partner; testing to begin in 1998.

Source Water Protection Technologies

- ◆ Technology focus includes onsite disposal systems-septic tanks and water distribution systems

Climate Change Technologies

- ◆ Technology focus on prevention and control of greenhouse gas emissions
- ◆ Stakeholder group formed in 1997; first meeting by Spring, 1998

Metal Finishing Technologies

- ◆ Technologies will reduce hazardous air pollutants and prevent discharge of heavy metals

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To learn more about ETV, see the ETV Web Site at:
<http://www.epa.gov/etv>



Environmental Technology Verification Program



**Building partnerships to expand
the environmental technology
choices of public and private
decisionmakers in the
United States and abroad**

ETV Pilot Partnerships

DRINKING WATER SYSTEMS

- ▼ EPA partners with NSF International (Michigan), a non-profit testing and certification organization, to verify performance of commercial-ready drinking water systems.
- ▼ EPA and NSF have formed a 25-member stakeholders group composed of manufacturers/vendors, state regulators, water utilities, consulting engineers, and industry associations. Subcommittees are designing standardized protocols and test plans to evaluate systems for microbials, particulates, and disinfection by-products. Testing to begin in 1997.
- ▼ Potential environmental and economic benefits from innovative drinking water systems are very large.

POLLUTION PREVENTION THROUGH IMPROVED COATINGS

- ▼ Started in October 1996, EPA partners with Concurrent Technologies Corporation (CTC) (Pennsylvania), a private sector testing organization. EPA and CTC will verify commercial-ready, lower polluting innovative coatings and coating application techniques for metals and plastics.
- ▼ First stakeholders group meeting reviewed a draft coatings protocol in March 1997. First tests to be conducted in 1997.
- ▼ This pilot supports the environmental goals of the Clean Air Act Amendments of 1990.

POLLUTION PREVENTION AND WASTE TREATMENT SYSTEMS

- ▼ EPA partners with the State of California to verify commercial-ready technologies for pollution prevention and waste treatment technologies.
- ▼ Solicitation for the first technologies issued in February 1996. Received 45 proposals and selected 10 technologies in September 1996. Examples of these technologies are: thermal desorption for treatment and recycling of hazardous wastes; dry cleaning machine waste water treatment and recycling unit; and closed loop plating waste water recovery system.

SITE CHARACTERIZATION AND MONITORING TECHNOLOGIES

- ▼ EPA partners with DOE's Sandia National Laboratories (New Mexico) and DOE's Oak Ridge National Laboratories (Tennessee) to verify commercial-ready technologies in the site characterization and environmental monitoring area.
- ▼ This pilot began in the Spring of 1995 and has verified 11 innovative technologies which include 2 cone penetrometers, 2 field portable GC/MSs, and 7 field portable x-ray fluorescence analyzers. Verification statements and performance reports issued in Spring 1997.
- ▼ Target technologies for 1997 include: in situ monitoring, sampling devices (groundwater, soil, air, soil gas), and continuous emissions groundwater monitors.

INDOOR AIR PRODUCTS

- ▼ Various indoor air products will be tested to verify pollution prevention claims of low impact on indoor air quality. EPA partners with Research Triangle Institute (North Carolina) as the private sector verification organization.
- ▼ Stakeholders groups formed and protocol development has begun for office furniture.

INDEPENDENT ENTITY

- ▼ EPA is testing the option of a totally independent, private sector approach to verification. The scope, procedures, and technology focus areas of this pilot will be left solely to the Civil Engineering Research Foundation (Washington, DC). After an open solicitation process, EPA announced the selection of this private sector association on September 30, 1996.

ETV Goal

To verify the environmental performance characteristics of commercial-ready technologies through the evaluation of objective and quality assured data so that potential purchasers and permittees are provided with an independent and credible assessment of what they are buying and permitting.