#### 230F96004

**United States** Environmental Protection Agency EPA 230-F-96-004

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Innovative Technology Council



#### **Environmental Technology Initiative**

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**Technology** Environmental Initiative, (ETI), is an interagency effort led by the U.S. Environmental Protection Agency, (EPA). Launched by President Clinton in 1993, ETI is supporting more than 250 partnerships and projects throughout the United States to improve public health and environmental protection by removing barriers to technology innovation. Environmental technologies prevent pollution, control and treat air and water pollution, remediate contaminated soil and groundwater, reduce greenhouse gas emissions, assess and monitor pollution levels, and manage environmental information.







#### To Protect Public Health

ETI encourages the creation and use of innovative environmental technologies that provide cleaner air, safer drinking water, and cleaner sites for economic development. Companies and communities throughout the United States want to take advantage of innovative technologies to prevent pollution, reduce their use of toxics, energy, and non-renewable resources, and develop new tools to reduce health risks. In many cases, technologies exist which can address public health concerns, but smaller businesses and communities may not be aware of them or may need assistance putting them in place. State permitting authorities may also lack the resources to assess the value of these innovations. ETI investments create publicprivate partnerships among stakeholders who do not have the support to pursue technology innovation opportunities on their own.

#### To Protect the **Environment**

By supporting state, local, and private efforts to find innovative technological solutions to their environmental problems, ETI plays an integral role in EPA's efforts to reinvent regulation by moving from "command and control" approaches to new, more flexible, performance-based systems. ETI is providing incentives and removing barriers to

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#### PERFORMANCE VERIFICATIONS MAKE TECHNOLOGIES APPROVABLE

 ETI partnership with EPA, California EPA, NSF International (Michigan), Sandia National Laboratory (New Mexico), University of Illinois and other

 Partners verify the cost and performance of new pollution prevention, drinking water treatment, characterization and monitoring, and indoor air technologies

• Enhances our capability to more cost effectively protect public health and the environment by providing regulators with credible performance data that supports the use of new or improved technologies

Pilot projects will assess whether public-private verification partnerships are effective in moving technologies to market



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#### PUBLIC AND PRIVATE PARTNERS EASE INTRODUCTION OF SAFER SUBSTITUTES

 ETI partnership with EPA, Midwest Research Institute, American Furniture Manufacturers Association, and numerous furniture and coatings manufacturers

 Eases introduction of safer substitutes for hazardous solvents, furniture coatings, and industrial chemicals used by many different companies

 Protects public health and the environment by reducing emissions of chemicals that create smog and respiratory problems

#### COMMON SENSE APPROACHES TO METAL FINISHING

 ETI partnership involving the Metal Finishing Association of Southern California, metal finishing companies, the California Manufacturing Technology Center state and local regulatory agencies,

community members, and EPA Region 9.

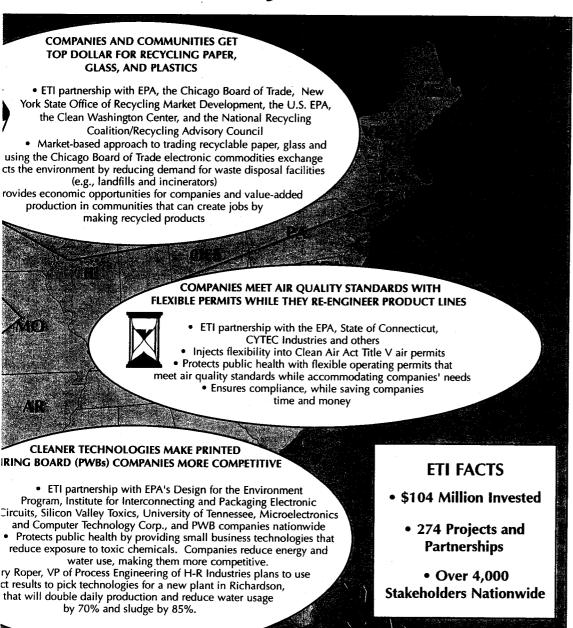
• Protects public health and the environment by reducing toxic emissions and workplace chemical exposures. Results can be transferred to over 3,000 facilities employing 75,000 people

e.g., Marlene McCloud of Ontario, California's Danco Metals is using reverse osmosis
technology to recycle black dye and nickel acetate from the rinse water
back to the process baths and clean water back to the rinse tanks
to reduce wastewater flows.



• e.g., Ga proj∈ TX

### elected ETI Projects



using new technologies by piloting technology verification programs to give decision-makers more credible information and injecting more flexibility in regulations and approval procedures. These actions can move the regulated community "beyond compliance", cutting the cost of meeting federal and state standards, while gaining superior environmental results.

# To Provide Economic Opportunity

ETI helps the U.S. capitalize on its head-start in the environmental technology market. By encouraging the creation and use of innovative technologies, ETI is creating jobs, cutting compliance costs, making companies more efficient and competitive, and improving environmental services.

Environmental technology is a high-wage, high-More than one million growth industry. Americans are employed by more than 50,000 environmental technology companies nationwide, many of whom are small businesses. The United States is by far the largest single market for environmental technology, estimated Environmental Business International at \$165 billion in 1994. Global markets are expected to grow to as much as \$500 billion by the year 2000. Our trade competitors, Japan and Germany, recognize environmental technology as a leading 21st century industry and are positioning themselves to compete aggressively in the global market. ETI assists the U.S. to win this competition for global markets.

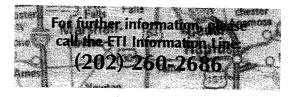


# How are partnerships and projects chosen for ETI funding?

ETI projects are selected through an open competition process. ETI funding is strategically invested in partnerships and projects that have been evaluated by federal interagency committees and scientifically peer-reviewed by non-government experts.

## How have ETI resources been invested?

In Fiscal Years 1994 and 1995, ETI invested \$104 million in 274 partnerships and projects throughout the United States. Awards range from several thousand dollars to more than a million. Many projects' partners are investing 3 to 4 dollars for every ETI dollar invested.



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United States Environmental Protection Agency 401 M Street, S.W. (2127) Washington, D.C. 20460 ETI Infoline: (202) 260-2686 http://www.epa.gov