

# Environmental Improvement Resources for Business in New York State

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- ▶ Energy Conservation
- ▶ Pollution Prevention
- ▶ Waste Reduction
- ▶ Recycling
- ▶ Compliance Assistance



STATE OF NEW YORK

THIS DIRECTORY WAS DEVELOPED BY **Empire State** Development

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## about this directory

Environmental Improvement Resources for Business is a directory of services and resources to help businesses incorporate pollution prevention (P2) and waste reduction technologies and processes into their operations and understand and comply with environmental regulations.

This directory was developed by the Environmental Services Unit of Empire State Development, to assist the work of the member agencies of the Pollution Prevention and Compliance Assistance Council (P2/CA). P2CA member agencies are *Empire State Development*, *NYS Department of Environmental Conservation*, *NYS Environmental Facilities Corporation*, *NYS Energy Research and Development Authority*, and *NYS Foundation for Science, Technology and Innovation*.

[Click here](#) for more information about P2/CA.

Updated September 2009.  
This document is updated annually.  
Check with ESD at [environment@empire.state.ny.us](mailto:environment@empire.state.ny.us) to make sure you have the most recent version.

## Home

Welcome to Environmental Improvement Resources for Business in New York State. Through the [Pollution Prevention and Compliance Assistance Council](#) small and medium sized businesses have access to resources for recycling, pollution prevention and energy use reduction process improvements; development of green products; and environmental compliance assistance. [Use the index](#) or follow the navigation bar at the top of the page to find the many resources.

### How To Use This Directory

This directory is a PDF file with active hyperlinks. If you are reading this on a computer with open access to the internet, clicking on the website URLs and email addresses will take you directly to the selected webpage or address an email message. Navigation tips are listed below. The directory can also be printed and read as a self-contained guide.

Throughout the guide, any phone numbers starting with 800, 866 or 877 are toll free.

For information about Small Business Programs in New York State, download our companion directory, [New York State Directory of Small Business Programs](#) which is available on our website. If you do not have open access to the internet, e-mail [environment@empire.state.ny.us](mailto:environment@empire.state.ny.us); or call 518/292-5340 to request a copy.

## Navigation Tips

- ▶ To return to your regular interface from full-screen, press the "Esc" key
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## Technical Assistance

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Through the P2/CA network, a wide variety of technical assistance (TA) is available to manufacturers and to small and medium-sized businesses. This assistance may be provided by one of the P2/CA partners or by a consultant pre-qualified by a P2/CA partner. Financial assistance is also available to help underwrite the cost of TA provided by an independent consultant chosen by the business. Depending upon the resource used to assist the company, there may or may not be a charge for these services. For more information on a specific TA service, contact the organization that is listed.

### 1. Energy Use Reduction

**Flexible Technical Assistance (FlexTech\*):** Incentives for the implementation of cost-effective energy efficiency measures by providing a variety of technical assistance services to businesses and institutions. Potential service providers include, but are not limited to, ESCOs, energy consultants and utility companies. Visit [www.nyserda.org/programs/flextech.asp](http://www.nyserda.org/programs/flextech.asp); or call 866/NYSERDA, (697-3732) or 518/862-1090

\* NYSERDA's funding programs are updated on a continual basis. Consult the NYSERDA website at [www.nyserda.org/funding](http://www.nyserda.org/funding) for up to date funding opportunities.

### 2. Pollution Prevention and Waste Reduction

**A. Industrial Effectiveness Program (IEP):** Funding to manufacturers to help pay the cost of consultant studies to identify industrial efficiency projects that may include pollution prevention. [www.empire.state.ny.us/Manufacturing\\_&\\_Environment/industrial\\_effectiveness.asp](http://www.empire.state.ny.us/Manufacturing_&_Environment/industrial_effectiveness.asp); 800/STATE-NY (782-8369). [Click here for IEP quicksheet](#)



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**B. Regional Technology Development Centers (RTDCs):** Provide on-site technical assistance. There are ten RTDCs statewide:

### Long Island Region

Long Island Forum for Technology (LIFT) provides technical evaluations of pollution prevention and waste reduction methodologies; and energy assessments that identify ways to lower electrical consumption, promote beneficial use of waste heat, and modify facility operating conditions to reduce overall energy use.

[www.lift.org](http://www.lift.org); 631/969-3700

### New York City

NYC Industrial and Technology Assistance Corporation (ITAC) is helping companies to understand that environmental improvements and business growth do go hand-in-hand. These services include:

Designing and marketing green products; reducing and recycling their solid waste; reducing their use of water; lowering their energy use and cost; Pollution Prevention Assessments; applying Lean Manufacturing principles to reduce the waste of material, time and personnel.

[www.itac.org](http://www.itac.org); 212/442-2990

### Hudson Valley

Hudson Valley Technology Development Center (HVTDC) is a business resource center created to help Hudson Valley businesses streamline their processes and procedures through the application of fresh perspectives and common sense solutions. Combining business expertise and experience with theories developed from the well-known Lean Manufacturing Process (which can include assistance with waste and pollution reduction processes and technologies) has proven to be a sound strategy for business growth.

[www.hvtdc.org](http://www.hvtdc.org); 845/896-6934 x3004



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### Capital Region

Center for Economic Growth (CEG) provides direct, strategic assistance to companies, including technology commercialization, product development, and technology transfer services. Assistance with waste and pollution reduction processes and technologies is available through its Lean Manufacturing technical assistance.

[www.ceg.org](http://www.ceg.org); 518/465-8975

### North Country

Council for International Trade Technology Education and Communication, Inc. (CITEC) can work with businesses to identify ways to eliminate waste or pollution through changes to their current operations, as well as provide an in-depth analysis of the costs and benefits of recommended actions. Ultimately, if the business decides to implement the prevention opportunity, CITEC can offer up to \$20,000 in matching funds toward the required capital expenditure.

[www.citec.org](http://www.citec.org); 315/268-3778

### Mohawk Valley

Mohawk Valley Applied Technology Corporation (MVATC) can work with businesses to identify ways to eliminate waste or pollution through changes to their current operations, as well as provide an in-depth analysis of the costs and benefits of recommended actions. Ultimately, if the business decides to implement the prevention opportunity, MVATC can offer up to \$20,000 in matching funds toward the required capital expenditure.

[www.mvatc.com](http://www.mvatc.com); 315/793-8050

### Southern Tier

Alliance for Manufacturing & Technology (AM&T) provides direct strategic assistance to companies including training & implementation of Lean Manufacturing, ISO quality systems and sales & marketing, assistance to start-ups, business assessments and technology commercialization. Assistance with waste and pollution reduction processes and technologies is available through Lean Manufacturing services.

[www.amt-mep.org](http://www.amt-mep.org); 607/774-0022



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### Central New York

Central New York Technology Development Organization (CNYTDO) provides direct, strategic assistance to companies, including technology commercialization, product development, and technology transfer services. Assistance with waste and pollution reduction processes and technologies is available through its Lean Manufacturing technical assistance.

[www.cnytdo.org](http://www.cnytdo.org) or [www.tdosolutions.com](http://www.tdosolutions.com); 315/425-5144

### Finger Lakes

High Technology of Rochester, Inc. (HTR) is very committed to helping small to medium-sized manufacturing companies pursue opportunities for environmental improvement and waste reduction. HTR partners with ESD, NIST (National Institute of Standards and Technology), and EPA in providing an assessment through the subsidized Green Supplier Network (GSN) program and in implementing improvement recommendations with technical and financial assistance as available.

[www.htr.org](http://www.htr.org); 585/327-7930 or 585/327-7928

### Western New York

Insyte Consulting (Insyte) helps companies identify, reduce or eliminate waste in their manufacturing and new product development processes. Under Insyte's guidance, manufacturing companies learn how to implement modern Lean Manufacturing techniques or redesign their new product development processes to reduce waste, improve recyclability, and increase profitability.

[www.insyte-consulting.com](http://www.insyte-consulting.com); 716/636-3626



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### 3. Environmental Permitting and Compliance Assistance

**A. Small Business Environmental Ombudsman (SBEO):** Provides guidance on which environmental permits are needed, when to obtain them, and the rights and responsibilities of businesses once a permit or registration is issued; as well as referrals for technical and financing services at the local, state and federal levels. SBEO offers assistance investigating and resolving complaints between small businesses and state or local authorities. All SBEO services are free and confidential.

[www.empire.state.ny.us/environment](http://www.empire.state.ny.us/environment) and click on “permitting and compliance assistance;” 877/247-2329; [environment@empire.state.ny.us](mailto:environment@empire.state.ny.us) [Click here for SBEO quicksheet](#)

**B. Small Business Environmental Assistance Program (SBEAP):** Helps small businesses comply with federal and state environmental regulations. Free confidential services include: air permitting, evaluation of emission control technologies, pollution prevention opportunities, and compliance with waste storage, handling and disposal requirements. On-site environmental audits are also available.

[www.nysefc.org/home/index.asp?page=20](http://www.nysefc.org/home/index.asp?page=20); 800/780-7227 within NYS or 518/402-7462; [sbeap@nysefc.org](mailto:sbeap@nysefc.org) [Click here for SBEAP quicksheet](#)

**C. Regional Environmental Permit Administrators:** Provides procedural assistance and serves as the single point of contact for preparing and filing applications, managing the process, and receipt of NYS environmental permits. Small businesses can contact their technical assistance provider first (such as Small Business Environmental Ombudsman or Small Business Environmental Assistance Program) and then a regional permit administrator will inform applicants of the necessary NYS Department of Environmental Conservation (DEC) permits. Visit [www.dec.ny.gov/permits/363.html](http://www.dec.ny.gov/permits/363.html) for a list of DEC regional offices.



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Some financial assistance is available to help manufacturers and other small and medium-sized businesses achieve energy, pollution and waste reduction outcomes. Most assistance is performance-based. Each financial assistance program has specific eligibility and funding decision criteria. For more information on a specific financial assistance program, contact the NYS organization that is listed.

## 1. Energy Use Reduction

**A. New Construction Program\*:** Incentives are available for the purchase and installation of energy-efficient equipment that reduces electric energy consumption in new and substantially renovated buildings.

[www.nyserda.org/programs/New\\_Construction](http://www.nyserda.org/programs/New_Construction); 866/NYSERDA (697-3732) or 518/862-1090

**B. Existing Facilities Program\*:** Offers incentives for a variety of energy projects including Pre-Qualified Measures and Performance-Based Incentives.

[www.nyserda.org/programs/Existing\\_facilities/default.html](http://www.nyserda.org/programs/Existing_facilities/default.html); 866/NYSERDA (697-3732) or 518/862-1090

*\* NYSERDA's funding programs are updated on a continual basis. Consult the NYSERDA website at [www.nyserda.org/funding](http://www.nyserda.org/funding) for up to date funding opportunities.*



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### 2. Pollution Prevention and Waste Reduction

**A. Environmental Investment Program (EIP):** Capital funding to assist manufacturers and other businesses to reduce the volume or toxicity of waste and/or by-products; and/or expand capacity to recycle commercial/industrial waste in value-added applications (other criteria apply).

[www.empire.state.ny.us/environment](http://www.empire.state.ny.us/environment); 518/292-5340;

[environment@empire.state.ny.us](mailto:environment@empire.state.ny.us) [Click here for EIP-Capital quicksheet](#)

**B. Clean Vessel Assistance Program (CVAP):** Established to improve water quality in New York's navigable waterways. Grants to manage facilities for pump-out and dump stations for sewage from recreational marine vessels. Visit [www.nysefc.org/home/index.asp?page=21](http://www.nysefc.org/home/index.asp?page=21); email [cvap@nysefc.org](mailto:cvap@nysefc.org); or call 800/882-9721 (instate) or 518/402-7461

**C. Industrial Finance Program (IFP):** Low interest loan program for eligible environmental improvement and management projects (including compliance) that are generally over \$2 million. Loans are capitalized through tax-exempt bonds. Funds can be used for solid waste management, resource recovery, sewage treatment, drinking water supply and industrial hazardous waste facilities, as well as brownfield site remediation capital costs. Visit [www.nysefc.org/home/index.asp?page=18](http://www.nysefc.org/home/index.asp?page=18); or call 800/882-9721 (instate) or 518/402-7461

*EFC has other funding opportunities to assist businesses with pollution prevention and compliance assistance. For up to date listings of current funding opportunities, visit [www.nysefc.org/home/index.asp?page=6](http://www.nysefc.org/home/index.asp?page=6); 800/882-9721 (within NYS); 518/402-7461*



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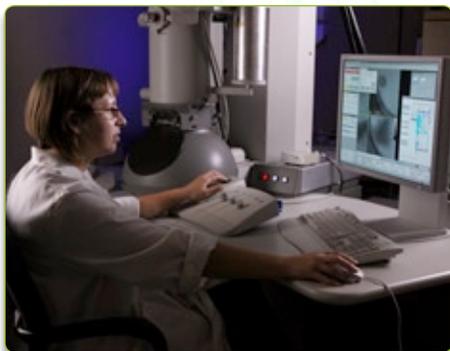
[3. Green Building](#)

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## 3. Green Buildings

**New York Green Building Tax Credit Program (GBTC):** Offers building owners and developers deductions from their state taxes (under Chapter 19 of Article 1 of the Tax Law) for the eligible expenses associated with designing and constructing green buildings or rehabilitating existing buildings to include additional “green” features. The tax credit is in its second period, and buildings built after January 1, 2005 that are greater than 20,000 square feet are eligible. \$25 million in credits are available. Credit component certificates can be issued through 2010 and tax credits can be received through 2014.

Visit [www.dec.ny.gov/energy/218.html](http://www.dec.ny.gov/energy/218.html)



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Assistance includes funding to help assess the technical viability of a pollution or waste prevention process or technology for use in a particular business, or for the creation of a new product. Some university based research centers are seeking R&D partnerships to develop pollution prevention technologies. Each R&D program has specific eligibility and funding decision criteria.

## 1. Financial Assistance

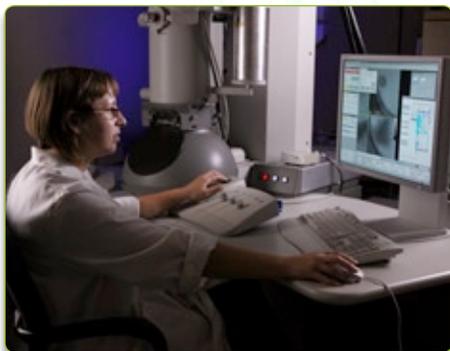
**A. Environmental Investment Program (EIP):** Funding to help underwrite the cost of applied R&D to assess the technical viability of a pollution or waste prevention process or technology that a company is considering for implementation (other criteria apply).

[www.empire.state.ny.us/environment](http://www.empire.state.ny.us/environment); 518/292-5340

[Click here for EIP-R+D quicksheet](#)

**B. Small Business Innovation Research (SBIR):** Technical Assistance (TA) is available to help businesses secure federal funding through SBIR and Small Business Technology Transfer (STTR). Assistance includes proposal review, targeting federal programs, and assisting the progression of the R&D project through several phases of funding to eventual commercialization. SBIR awards are used by new companies as initial start-up funding, or by existing companies to create new products and move into new markets. SBIR pays for the research and the findings are reported to the government; but the firm owns the idea, intellectual property and commercialization rights. There is an emphasis on funding the development of manufacturing technologies, including P2 technologies. Contact your Regional Technology Development Center (RTDC) for a referral.

[Click here to return to a listing of RTDCs](#)



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- C. New York State Energy Research and Development Authority (NYSERDA) Research, Development and Demonstration (RD&D) Funding Programs:** NYSERDA's RD&D programs support the development and commercialization of energy and environmental products and processes that improve the economy, the environment, and the health of New Yorkers. RD&D funds provide essential funding for applied research of emerging renewable energy and energy efficiency technologies to encourage innovative commercial application in the following areas: building systems, industry, energy resources, transportation, power systems, environment and the Renewable Portfolio Standard. [www.nyserda.org/funding](http://www.nyserda.org/funding); 866/NYSERDA (697-3732) or 518/862-1090
- D. Small Business Technology Investment Fund (SBTIF):** Provides early stage high-technology companies throughout NYS with a source of venture capital financing. SBTIF targets investment in companies that have developed new and innovative technology products and services, address a large aggregate market size, provide significant competitive advantages, and possess a strong intellectual property position. [www.nystar.state.ny.us/sbtif.htm](http://www.nystar.state.ny.us/sbtif.htm); 518/292-5700



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**2. University-based Research Centers** University-based technology research centers throughout NYS are conducting P2 and waste reduction research, often in conjunction with industry. Regional Technology Development Centers (RTDCs) can direct businesses to those academic and research facilities that undertake pollution prevention projects. For a list of RTDCs, visit [www.nystar.state.ny.us/rtdcs.htm](http://www.nystar.state.ny.us/rtdcs.htm)

### A. Alfred University's Center for Advanced Ceramic Technology

[cact.alfred.edu](http://cact.alfred.edu)

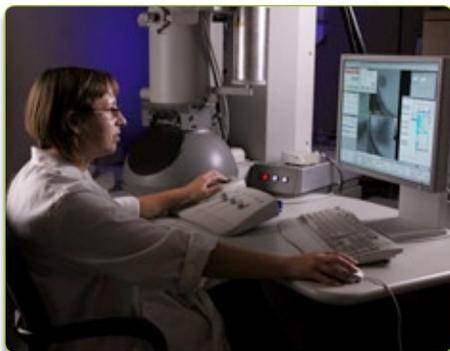
Examples of research:

- ▶ Reduce carbon and sulfur pollutants in hydrocarbon fuels
- ▶ Recycle silicon wafer waste
- ▶ Develop improved technique for aluminum alloy processing
- ▶ Develop lead-free low-temperature sealing glasses
- ▶ Create oxygen sensors to optimize combustion processes to reduce pollution
- ▶ Develop new formulation for porous alumina filtration products to lessen greenhouse gases
- ▶ Develop production microwave furnaces to reduce energy consumption (grant with NYSERDA)

### B. City University of New York's Center for Advanced Technology in Photonic Materials and Applications

[www.cunyphotonics.com](http://www.cunyphotonics.com)

Research with industry has included optical water quality monitoring.



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### C. Clarkson University's Center for Advanced Materials Processing

[www.clarkson.edu/camp](http://www.clarkson.edu/camp)

Partnerships with industries include:

- ▶ Investigation of waste using glass powder as a means to strengthen concrete (reduces the amount of waste to be disposed)
- ▶ Development of catalysts for eliminating pollutants from auto exhaust
- ▶ Explore and apply process intensification and miniaturization in the following industries: biofuels, dairy, paper, digital printing, and chemicals

### D. Cornell University's Center for Life Sciences Enterprise

[www.biotech.cornell.edu/index.cfm/page/cat.htm](http://www.biotech.cornell.edu/index.cfm/page/cat.htm)

Partnerships with industries include:

- ▶ Creation of renewable products to remove oil and heavy metal pollution
- ▶ Evaluation of bio-filtration systems
- ▶ Development of phytobial remediation of pollution at the Cornell Agriculture and Food Technology Park
- ▶ Synthesize biodegradable polymers

### E. Rensselaer Polytechnic Institute (RPI)

#### **Center for Automation Technologies and Systems**

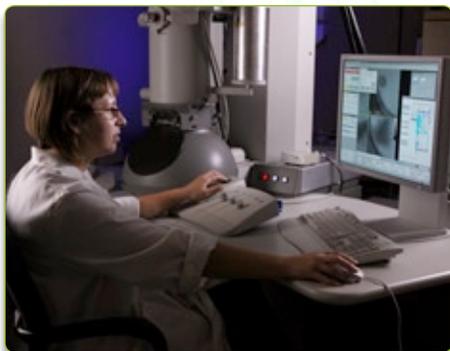
Research includes working with industry to develop distributed sensor networks and environmental robotics.

[www.cats.rpi.edu](http://www.cats.rpi.edu)

#### **Center for Future Energy Systems**

The Center works to develop new energy technologies and improvements in existing renewable energies. This includes power conversion and power conditioning to increase efficiency of photovoltaic (PV) systems and integration with the electric utility grid.

[www.rpi.edu/cfes](http://www.rpi.edu/cfes)



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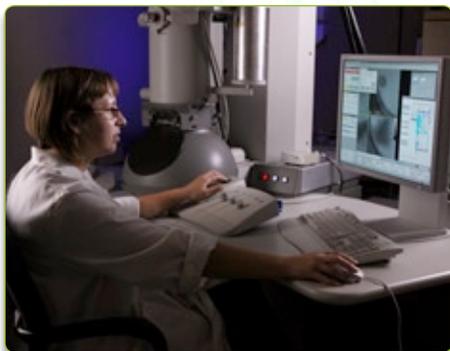
## F. Rochester Institute of Technology (RIT)

National Center for Re-Manufacturing and Resource Recovery, and New York State Pollution Prevention Institute.

***The New York State Pollution Prevention Institute (NYSP2I)*** and its partners— Clarkson University, University of Buffalo, Rensselaer Polytechnic Institute and the 10 RTDCs statewide— assist business with technology transfer and scale-up, including the identification of pollution prevention opportunities and process and product designs. Programs are customized. Professional training and workshops on such topics as lean manufacturing, surface cleaning, and emerging international regulations are also available. Visit [www.nysp2i.rit.edu](http://www.nysp2i.rit.edu)

To access the resources of the NYS P2I, businesses should contact their local RTDC.

[Click here to return to a listing of RTDCs](#)



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## G. State University of New York (SUNY) Albany's Energy and Environmental Technology Application Center

[www.e2tac.org](http://www.e2tac.org)

E2TAC supports energy and environmental technology deployment through accelerated commercialization by leveraging partnerships between industry, government and university. The E2TAC Center utilizes resources available at the College of Nanoscale Science and Engineering at SUNY Albany towards energy and environmental technologies. E2TAC technology priorities include advanced photovoltaics, advanced fuel cells, next generation superconductors, advanced power electronics, advanced hydrogen storage technology, and advanced environmental sensors.

## H. State University of New York College of Environmental Science and Forestry (SUNY-ESF)

[www.esf.edu](http://www.esf.edu)

Research at the SUNY-ESF includes aquatic ecosystems, bioenergy, biotechnology, biodiversity, ecology, genetic engineering, nanotechnology, remote sensing, wildlife disease prevention, and many others. More than thirty institutes or research centers are dedicated to environmental conservation and energy generation. For example, the SUNY Center for Sustainable and Renewable Energy conducts research and investigation in the following areas:

- ▶ Renewable carbonate fuel cell operations
- ▶ Photovoltaic power generation
- ▶ Solar-fueled hydrogen generation
- ▶ Biomass energy feedstock agroforestry production
- ▶ Biomass feedstock production from New York's forest-products industry
- ▶ Biomass combined heat and power sole-firing and co-firing with fossil fuels energy production
- ▶ Biomass gasification for synthetic gas hydrogen extraction and biotechnical hydrogen production from biomass



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## I. Syracuse University's Building Energy and Environmental Systems Laboratory (BEESL)

[www.beesl.syr.edu](http://www.beesl.syr.edu)

BEESL provides the knowledge and service to the related industries such as:

- ▶ Air conditioning and refrigeration equipment manufacturing
- ▶ Building energy and environmental system analysis and design
- ▶ Energy and indoor environmental quality consulting



## Ombudsman and Advocacy

**Small Business Environmental Ombudsman (SBEO):** Provides guidance on which environmental permits are needed, when to obtain them, and the rights and responsibilities of businesses once a permit or registration is issued; as well as referrals for technical and financing services at the local, state and federal levels. SBEO offers assistance investigating and resolving complaints between small businesses and the NYS Department of Environmental Conservation (NYSDEC) and/or local environmental authorities. All SBEO services are free and confidential.

[www.empire.state.ny.us/environment](http://www.empire.state.ny.us/environment) and click on “permitting and compliance assistance;” 877/247-2329; [environment@empire.state.ny.us](mailto:environment@empire.state.ny.us). [Click here for SBEO quicksheet](#)



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These Web links will lead users to downloadable publications to assist with pollution prevention and compliance projects.

## Publications

### 1. General Information - Environmental Compliance and Pollution Prevention

- A. Recycling Markets Database: An online database of recyclers and reuse organizations in the Northeast to help users locate outlets for materials that can be reused, recycled or composted. [www.empire.state.ny.us/recycle](http://www.empire.state.ny.us/recycle)
- B. NYS Permits: An online database to assist new and expanding businesses with permits needed to operate. [www.nys-permits.org](http://www.nys-permits.org)
- C. Environmental Compliance & Pollution Prevention Guide for Small Quantity Generators [www.dec.ny.gov/docs/permits\\_ej\\_operations\\_pdf/ecppsqq.pdf](http://www.dec.ny.gov/docs/permits_ej_operations_pdf/ecppsqq.pdf)
- D. Environmental Self-Audit for Small Business [www.dec.ny.gov/docs/permits\\_ej\\_operations\\_pdf/esasb.pdf](http://www.dec.ny.gov/docs/permits_ej_operations_pdf/esasb.pdf)
- E. Environmental Compliance and Pollution Prevention for Businesses & Local Government [www.dec.ny.gov/docs/permits\\_ej\\_operations\\_pdf/eppgsblg.pdf](http://www.dec.ny.gov/docs/permits_ej_operations_pdf/eppgsblg.pdf)

### 2. Industry Information - Environmental Compliance and Pollution Prevention

- A. Architectural Coatings [www.nysefc.org/home/index.asp?page=136](http://www.nysefc.org/home/index.asp?page=136)
- B. Automobile Recyclers [www.dec.ny.gov/chemical/8505.html](http://www.dec.ny.gov/chemical/8505.html)
- C. Autobody Shops [www.nysefc.org/home/index.asp?page=140](http://www.nysefc.org/home/index.asp?page=140) and [www.dec.ny.gov/docs/materials\\_minerals\\_pdf/autobodygd.pdf](http://www.dec.ny.gov/docs/materials_minerals_pdf/autobodygd.pdf)
- D. Campus-based Organizations [www.dec.ny.gov/docs/permits\\_ej\\_operations\\_pdf/ecppcamp.pdf](http://www.dec.ny.gov/docs/permits_ej_operations_pdf/ecppcamp.pdf)



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## Publications (continued)

### 2. Industry Information – Environmental Compliance and Pollution Prevention (continued)

- E. Drycleaning – Other Methods [www.nysefc.org/home/index.asp?page=143](http://www.nysefc.org/home/index.asp?page=143)
- F. Drycleaning – PERC [www.nysefc.org/home/index.asp?page=144](http://www.nysefc.org/home/index.asp?page=144)
- G. Drycleaning – Petroleum [www.nysefc.org/home/index.asp?page=145](http://www.nysefc.org/home/index.asp?page=145)
- H. Electronics and Computer Industry  
[www.dec.ny.gov/docs/permits\\_ej\\_operations\\_pdf/ecppeci.pdf](http://www.dec.ny.gov/docs/permits_ej_operations_pdf/ecppeci.pdf) and  
[www.dec.ny.gov/docs/permits\\_ej\\_operations\\_pdf/esaeci.pdf](http://www.dec.ny.gov/docs/permits_ej_operations_pdf/esaeci.pdf)
- I. Electroplating [www.nysefc.org/home/index.asp?page=146](http://www.nysefc.org/home/index.asp?page=146)
- J. Food Processing Industry  
[www.dec.ny.gov/docs/permits\\_ej\\_operations\\_pdf/ecppfood.pdf](http://www.dec.ny.gov/docs/permits_ej_operations_pdf/ecppfood.pdf);  
[www.dec.ny.gov/docs/permits\\_ej\\_operations\\_pdf/esafood.pdf](http://www.dec.ny.gov/docs/permits_ej_operations_pdf/esafood.pdf)
- K. Gasoline Stations – Stage I [www.nysefc.org/home/index.asp?page=147](http://www.nysefc.org/home/index.asp?page=147)
- L. Gasoline Stations – Stage II [www.nysefc.org/home/index.asp?page=148](http://www.nysefc.org/home/index.asp?page=148)
- M. Graphic Arts – Flexographic [www.nysefc.org/home/index.asp?page=149](http://www.nysefc.org/home/index.asp?page=149)
- N. Graphic Arts – Lithographic [www.nysefc.org/home/index.asp?page=150](http://www.nysefc.org/home/index.asp?page=150), other publications are available at  
[www.dec.ny.gov/docs/permits\\_ej\\_operations\\_pdf/ecplith.pdf](http://www.dec.ny.gov/docs/permits_ej_operations_pdf/ecplith.pdf) and  
[www.dec.ny.gov/docs/permits\\_ej\\_operations\\_pdf/esalith.pdf](http://www.dec.ny.gov/docs/permits_ej_operations_pdf/esalith.pdf)
- O. Health Care Industry  
[www.dec.ny.gov/docs/permits\\_ej\\_operations\\_pdf/esahcf.pdf](http://www.dec.ny.gov/docs/permits_ej_operations_pdf/esahcf.pdf)
- P. Marina Industry  
[www.dec.ny.gov/docs/permits\\_ej\\_operations\\_pdf/marinaman.pdf](http://www.dec.ny.gov/docs/permits_ej_operations_pdf/marinaman.pdf)
- Q. Metal Degreasing [www.nysefc.org/home/index.asp?page=151](http://www.nysefc.org/home/index.asp?page=151)



## Publications & Outreach

Jump to:

[1. General Information](#)

[2. Industry Information](#)

[3. Workshops](#)

# Publications and Outreach page 3 of 3

## Publications (continued)

### 2. Industry Information – Environmental Compliance and Pollution Prevention (continued)

- R. Metal Finishing Industry  
[www.dec.ny.gov/docs/permits\\_ej\\_operations\\_pdf/ecppmetl.pdf](http://www.dec.ny.gov/docs/permits_ej_operations_pdf/ecppmetl.pdf) and  
[www.dec.ny.gov/docs/permits\\_ej\\_operations\\_pdf/esametl.pdf](http://www.dec.ny.gov/docs/permits_ej_operations_pdf/esametl.pdf)
- S. Plastic Composites Manufacturing  
[www.nysefc.org/home/index.asp?page=158](http://www.nysefc.org/home/index.asp?page=158)
- T. Pulp and Paper Industry  
[www.dec.ny.gov/docs/permits\\_ej\\_operations\\_pdf/sapp.pdf](http://www.dec.ny.gov/docs/permits_ej_operations_pdf/sapp.pdf)
- U. Sand and Gravel Operations [www.nysefc.org/home/index.asp?page=152](http://www.nysefc.org/home/index.asp?page=152)
- V. Surface Coating – Metal [www.nysefc.org/home/index.asp?page=153](http://www.nysefc.org/home/index.asp?page=153)
- W. Surface Coating - Wood [www.nysefc.org/home/index.asp?page=154](http://www.nysefc.org/home/index.asp?page=154)
- X. Vehicle Maintenance Shops  
[www.dec.ny.gov/docs/permits\\_ej\\_operations\\_pdf/vehiclemaint.pdf](http://www.dec.ny.gov/docs/permits_ej_operations_pdf/vehiclemaint.pdf)
- Y. Wood Furniture and Fixture Industry  
[www.dec.ny.gov/docs/permits\\_ej\\_operations\\_pdf/ecppwood.pdf](http://www.dec.ny.gov/docs/permits_ej_operations_pdf/ecppwood.pdf) and  
[www.dec.ny.gov/docs/permits\\_ej\\_operations\\_pdf/esawood.pdf](http://www.dec.ny.gov/docs/permits_ej_operations_pdf/esawood.pdf)

## Workshops

1. **Small Business Environmental Ombudsman (SBEO):** will work with industry organizations to review the impact of proposed regulations on small businesses and arrange workshops on special topics. [www.empire.state.ny.us/environment](http://www.empire.state.ny.us/environment) and click on “permitting and compliance assistance;” 877/247-2329; [environment@empire.state.ny.us](mailto:environment@empire.state.ny.us) [Click here for SBEO quicksheet](#)
2. **Small Business Environmental Assistance Program (SBEAP):** will work with industry organizations to speak at workshops on technical aspects of environmental compliance. [www.nysefc.org/home/index.asp?page=20](http://www.nysefc.org/home/index.asp?page=20); 800/780-7227 (within NYS); 518/402-7461 [Click here for SBEAP quicksheet](#)

# program quicksheets

For a quick overview of some of the programs listed in this guide, click on the program name. All quicksheets are formatted for printing. To print, press "Ctrl + P," then select print range.

## Technical Assistance

### Pollution Prevention and Waste Reduction TA Funding from ESD

[INDUSTRIAL EFFECTIVENESS PROGRAM Quicksheet](#)

### Environmental Compliance TA and Ombudsman/Advocacy

[SMALL BUSINESS ENVIRONMENTAL OMBUDSMAN Quicksheet](#)

[SMALL BUSINESS ENVIRONMENTAL ASSISTANCE PROGRAM Quicksheet](#)

## Funding for Capital Investment

### Pollution Prevention and Waste Reduction Capital Funding from ESD

[ENVIRONMENTAL INVESTMENT PROGRAM \(CAPITAL\) Quicksheet](#)

### Pollution Prevention Capital Funding from EFC

[CLEAN VESSEL ASSISTANCE PROGRAM Quicksheet](#)

[INDUSTRIAL FINANCE PROGRAM Quicksheet](#)

## Research, Development & Demonstration Funding

### Pollution Prevention and Waste Reduction R&D Funding from ESD

[ENVIRONMENTAL INVESTMENT PROGRAM \(R&D\) Quicksheet](#)

# program quicksheets

Empire State Development Industrial Effectiveness Program	
Program Purpose	To provide technical and financial assistance to help NYS manufacturing firms address competitiveness issues that increase productivity, efficiency and market share.
Eligible Applicants	NYS manufacturers that employ fewer than 500 workers
Eligible Projects	Manufacturers work with private consultants to develop and implement projects that result in enhanced productivity and competitiveness in NYS, such as: <ul style="list-style-type: none"> <li>Organizational and technical needs assessment</li> <li>Manufacturing process and quality improvement</li> <li>Information systems upgrade</li> <li>New product design and development</li> <li>Market expansion and product commercialization</li> </ul>
Ineligible Projects	<ul style="list-style-type: none"> <li>Preliminary needs assessments</li> <li>Projects using only in-house staff without outside consultants</li> <li>Equipment and machinery purchases</li> <li>Consultant services for advertising and marketing materials</li> <li>Worker training except when the training is integral to the implementation of new systems and procedures</li> <li>Retaining consultants to continue a project the company had already started</li> <li>Start-ups and new ventures</li> <li>Projects that grow operations outside of NYS</li> </ul>
Minimum Requirements	Classification as a manufacturer and completion of a preliminary assessment, and the ability to implement productivity and operational improvements recommended in the preliminary assessment to remain competitive.
Maximum Award	Up to \$50,000 grant.
Use of Funds	Private consulting fees.
Expected Results	Enhanced management and production process to expand market share and promote job growth or retention within NYS.
Funding Evaluation	Demonstrated need, company size, willingness to share costs of technical expertise and contribute resources, involvement of employees, and commitment to self-improvement.
How to Apply	Applications are provided through the ESD Regional Offices. Applications are accepted and reviewed on a continual basis.
Contact Information	Regional ESD office contacts are at <a href="http://www.empire.state.ny.us/Contacts_and_About_us/locations.asp">www.empire.state.ny.us/Contacts_and_About_us/locations.asp</a> ; 800/STATE NY (782-8369)

# program quicksheets

Empire State Development Small Business Environmental Ombudsman (SBEO)	
Program Purpose	To provide businesses with free, confidential assistance to help them understand and comply with environmental regulations. SBEO assists with investigation and resolution of complaints and disputes between small businesses and the NYS Department of Environmental Conservation and/or local environmental authorities.
Eligible Applicants	Any business with 500 or fewer employees.
Eligible Projects	The SBEO program offers technical assistance services to help businesses: <ul style="list-style-type: none"> <li>• Understand state and federal environmental regulations</li> <li>• Develop a plan of action, to address environmental quality issues</li> <li>• Get referrals to other assistance programs</li> </ul> The SBEO program provides: <ul style="list-style-type: none"> <li>• A toll-free hotline for confidential compliance inquiries: 877/247-2329</li> <li>• Assistance to industry organizations to assess the impact of proposed regulations on small businesses</li> <li>• Workshops on special topics to help industry sectors improve compliance</li> </ul>
Availability of Service	SBEO offers free, confidential assistance on request. There is no limit on availability.
How to Apply	Contact the SBEO directly. All requests are addressed confidentially.
Contact Information	877/247-2329 (toll free and confidential); <a href="http://www.empire.state.ny.us/environment">www.empire.state.ny.us/environment</a> , click on “permitting and compliance assistance”; <a href="mailto:environment@empire.state.ny.us">environment@empire.state.ny.us</a>

# program quicksheets

NYS Environmental Facilities Corporation Small Business Environmental Assistance Program (SBEAP)	
Program Purpose	To provide free, confidential technical assistance to small businesses in New York State to help them comply with federal or State environmental requirements.
Eligible Applicants	Any business with 500 or fewer employees.
Eligible Projects	Technical and compliance assistance environmental services include: <ul style="list-style-type: none"> <li>• Air permitting</li> <li>• Evaluation of emission control technologies</li> <li>• Pollution prevention opportunities</li> <li>• Compliance with waste storage, handling and disposal requirements</li> <li>• Environmental Assessments</li> <li>• Recordkeeping and reporting requirements</li> <li>• Water quality protection</li> </ul>
Availability of Service	SBEAP offers assistance on request via telephone hotline (below) and/or site visits if necessary. All services are confidential and free of charge. Specific Business Sector information is also available on an extensive website below. Program offers Workshops and Seminar participation for important environmental initiatives, changes in sector specific regulations and at the request of business organizations and groups. Environmental regulations are summarized using plain-English Fact sheets and Newsletters available on the website. There is no limit on availability.
How to Apply	Contact the SBEAP directly. All requests are addressed confidentially.
Contact Information	800/780-7227 (within NYS) or 518/402-7462; <a href="http://www.nysefc.org/home/index.asp?page=20">www.nysefc.org/home/index.asp?page=20</a> ; <a href="mailto:sbeap@nysefc.org">sbeap@nysefc.org</a>

# program quicksheets

## NYS Environmental Facilities Corporation Clean Vessel Assistance Program (CVAP)

Program Purpose	CVAP was established to protect and improve water quality in New York's navigable waterways.
Eligible Applicants	Marinas, municipalities and not-for-profit organizations
Eligible Projects	Construct, upgrade or replace pumpout and dump station facilities to receive sewage from recreational marine vessels. Annual operation and maintenance (O&M) funding available for completed projects. Local information and education projects related to pumpout benefits, use and availability.
Ineligible Projects	<ul style="list-style-type: none"> <li>• Construction or renovation of upland restroom facilities, including connections to pumpout stations or dump stations</li> <li>• Construction and renovation of on-site sewage treatment plants, such as package treatment plants and septic systems, and of municipal sewage treatment plants for primary and secondary treatment</li> <li>• Sewage treatment activities</li> <li>• On board sanitation devices</li> <li>• Land, easements and rights-of-way</li> <li>• Activities that do not provide public benefits</li> <li>• Enforcement activities</li> <li>• New construction of piers, bulkheads, etc.</li> </ul>
Minimum Requirements	<ul style="list-style-type: none"> <li>• Project must provide access to the general public</li> <li>• Participants must obtain all necessary permits, certificates, licenses and approvals</li> <li>• Rinse water must be provided within easy access of project</li> <li>• Signs must be provided crediting the grant and providing basic boater information</li> <li>• Pumpout usage fees cannot exceed \$5</li> </ul>
Maximum Award	The CVAP provides federally funded grants of up to 75% of eligible project costs with a current maximum of \$35,000 per project for construction/renovation. Funding is also available annually for up to 75% of eligible costs for operation and maintenance at CVAP funded projects up to \$5,000 for pumpout boats and \$2,000 for all other pumpout facilities. Municipalities and NFPs may apply for up to \$5,000 for information and education projects (I&E).

NYS Environmental Facilities Corporation Clean Vessel Assistance Program (CVAP)

CONTINUED

Use of Funds	<p>Facilities and activities eligible for the CVAP:</p> <ul style="list-style-type: none"> <li>• Construction, upgrade and renovation of pumpout stations and dump stations, and their associated appurtenances</li> <li>• Stationary and portable pumpout/dump station units, including associated attachments and remote unit</li> <li>• Mobile pumpout vessels, if their sole purpose is pumping out Type III marine sanitation devices</li> <li>• Floating restrooms in the water, not connected to land or structures connected to the land, used solely by boaters</li> <li>• Equipment associated with the eligible facility, such as equipment for rinsing boat holding tanks and attachments (e.g. wands) for pumping out portable toilets</li> <li>• Activities necessary to hold and transport marine vessel sewage to sewage treatment plants, such as holding tanks, piping, haulage costs</li> <li>• Activities necessary to get sewage treatment plants to accept marine vessel sewage, such as installing bleed-in facilities</li> <li>• Engineering costs associated with the eligible facility, including planning, design, construction supervision and inspection</li> <li>• Other costs directly associated with the eligible facility, including administrative, legal and use of municipal forces</li> <li>• Facilities designed to include purposes other than those eligible under the Act shall have the costs prorated equitably among the various purposes. Assistance funds shall be used only for the part of the activity related to the CVA</li> <li>• Eligible operation and maintenance costs such as emptying of holding tanks, winterization costs, hoses, plumbing and/or electrical parts, etc.</li> <li>• I&amp;E projects directly associated with the benefits, use and availability of pumpouts</li> </ul>
Expected Results	Prevention of water pollution in New York’s navigable waterways.
Funding Evaluation	Applications reviewed continually for construction, upgrade, and I&E grants. Annual deadlines for O&M funding.
How to Apply	Applicants must complete an Initial Application. Upon approval of an Initial Application (generally less than a week) a Final Application will be sent to the applicant. This application requires details of the project such as cost estimates, maps of the area, layout of the project, etc.
Contact Information	800/882-9721 (within NYS); 518/402-7461; <a href="http://www.nysefc.org/home/index.asp?page=21">www.nysefc.org/home/index.asp?page=21</a> ; <a href="mailto:cvap@nysefc.org">cvap@nysefc.org</a>

# program quicksheets

## NYS Environmental Facilities Corporation Industrial Finance Program (IFP)

Program Purpose	To provide lower cost, tax-exempt financing (loans) for eligible environmental infrastructure projects that generally cost over \$2 million.
Eligible Applicants	Private industry in NYS.
Eligible Projects	Financing environmental infrastructure associated with solid waste management, resource recovery, sewage treatment, drinking water supply, and industrial hazardous waste facility projects, brownfield site remediation.
Ineligible Projects	Air pollution control projects are not eligible (pursuant to federal tax code)
Minimum Requirements	<ul style="list-style-type: none"> <li>• Borrower must have adequate credit or other acceptable security for the loan</li> <li>• Project must be eligible under Section 142 of U.S. Internal Revenue Code</li> <li>• Funding is also dependent upon the availability of state private activity tax-exempt industrial development bond (IDB) volume cap allocation</li> <li>• A public hearing regarding the financing (TEFRA) must also be conducted</li> </ul>
Maximum Award	None. Term of loan cannot exceed 40 years.
Use of Funds	<ul style="list-style-type: none"> <li>• Purchase of land</li> <li>• Project planning, design and engineering</li> <li>• Renovation, construction or acquisition of buildings</li> <li>• Equipment purchase and installation</li> <li>• Appurtenant facilities</li> <li>• Other capital costs; legal fees and other related costs</li> </ul>
How to Apply	<p>IFP applications are accepted on an ongoing basis. A non-refundable application fee of \$2,500 is required with application submittal to cover administrative fees and credit reports. IFP financing involves issuance of bonds, so the closing schedule averages approximately 4 to 6 months once all project permitting and New York State Environmental Quality Review Act (SEQRA) requirements are completed.</p> <p>Complete the Preliminary IFP Eligibility Determination at <a href="http://www.nysefc.org/home/index.asp?page=55">www.nysefc.org/home/index.asp?page=55</a> or call NYSEFC at 800/882-9721 (within NYS), in order to determine if your project may be eligible for IFP financing.</p>
Contact Information	800/882-9721 (within NYS); 518/402-7461; <a href="http://www.nysefc.org/home/index.asp?page=18">www.nysefc.org/home/index.asp?page=18</a> ; <a href="mailto:ifp@nysefc.org">ifp@nysefc.org</a>

# program quicksheets

Empire State Development Environmental Investment Program (EIP) Research, Development and Demonstration Projects	
Program Purpose	To help businesses test, evaluate and demonstrate the technical and/or economic feasibility of new products, technologies or practices that prevent pollution, reduce, reuse, or recycle waste, or enhance environmental sustainability.
Eligible Applicants	NYS businesses and non-profit organizations that employ fewer than 500 workers or earn less than \$10 million in gross annual sales.
Eligible Projects	Research, development or demonstration to answer final questions standing between product/process prototypes and their commercialization.
Ineligible Projects	<ul style="list-style-type: none"> <li>• End of pipe pollution control technology</li> <li>• Practices to achieve compliance with NYS environmental regulations</li> <li>• Technologies employed for energy recovery, incineration, or the processing of waste for use as refuse derived fuel</li> <li>• Clean-up or remediation of contaminated sites</li> <li>• Shifting waste from one medium to another without net environmental benefit</li> <li>• Basic research that fails to address questions needed to successfully commercialize the technology or process</li> </ul>
Minimum Requirements	A commitment and ability to directly implement the project results.
Maximum Award	ESD generally supports up to 60% of eligible costs, up to \$200,000.
Use of Funds	Incremental costs associated exclusively with the test, evaluation or demonstration, including laboratory analysis, professional consulting and equipment rental or lease. Equipment purchases, leasehold improvements and standard operating costs are not eligible.
Expected Results	Businesses must commercialize the study results within two years or provide the study results available to other businesses through sale, licensing or publication.
Investment Evaluation	Ability to commercialize project results; potential for significant pollution prevention, waste reduction, reuse, recycling or sustainability results from NYS business; amount of funding match, and amount of cash rather than in-kind match.
How to Apply	Contact an EIP project manager to determine project eligibility and competitiveness. An application includes project description and company financial information. Applications are accepted on an ongoing basis, and are generally reviewed monthly.
Contact Information	518/292-5340; <a href="http://www.empire.state.ny.us/environment">www.empire.state.ny.us/environment</a> ; <a href="mailto:environment@empire.state.ny.us">environment@empire.state.ny.us</a>

# program quicksheets

Empire State Development Environmental Investment Program (EIP) – Capital Projects	
Program Purpose	To assist NYS business projects that result in substantive environmental improvements and associated economic benefits. Environmental improvements may be achieved through pollution prevention, waste reduction, reuse, recycling or the development/deployment of sustainable products and technologies.
Eligible Applicants	Not-for-profits, IDAs, or municipalities on behalf of NYS businesses or non-profits that will achieve environmental results through pollution prevention, waste reduction, reuse, recycling or the development/deployment of sustainable products and process technologies.
Eligible Projects	Capital investments in machinery, equipment and associated tangible assets necessary to achieve environmental results through pollution prevention, waste reduction, reuse, recycling or the development/deployment of sustainable products or technologies.
Ineligible Projects	<ul style="list-style-type: none"> <li>• End of pipe pollution control technology</li> <li>• Practices to achieve compliance with NYS environmental regulations</li> <li>• Processes or technologies employed for energy recovery, incineration, or processing waste for use as refuse derived fuel</li> <li>• Clean-up or remediation of contaminated sites</li> <li>• Shifting waste from one medium to another with no net environmental benefit.</li> </ul>
Minimum Requirements	Projects must be competitive with EIP investment priorities and benchmarks, described in the EIP Program Guide.
Maximum Award	EIP generally supports 5% - 25% of eligible capital costs and caps awards at \$500,000.
Use of Funds	Machinery and equipment, buildings, and related expenses necessary to achieve the environmental results of the project.
Expected Results	Projects must produce quantifiable results through pollution prevention, waste reduction, reuse, recycling or development/deployment of sustainable products or process technologies. Results are measured as tons per year of solid or hazardous wastes prevented, reduced, recycled or reused; millions of gallons per year of water conserved or recycled; or tons per year of air emissions prevented. Projects must also return economic benefit to NYS business.
Investment Evaluation	Competitiveness with EIP investment benchmarks for recycling and/or pollution prevention outcomes; return on investment; ability to implement the project; amount of private investment and cash match.
How to Apply	Contact an EIP project manager to determine project eligibility and competitiveness. An application includes project description, project cash flow, and company financial information. Businesses must submit applications through a not-for-profit, IDA, or municipality that will hold title to the asset being financed. Applications are accepted on an ongoing basis, and are generally reviewed monthly.
Contact Information	518/292-5340; <a href="http://www.empire.state.ny.us/environment">www.empire.state.ny.us/environment</a> ; <a href="mailto:environment@empire.state.ny.us">environment@empire.state.ny.us</a>



## Comments?

Click [here](#) to provide suggestions or to join our mailing list for updates to this publication, or call 518/292-5340.

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The Pollution Prevention and Compliance Assistance Council (P2/CA) is a collaboration to enhance business access to environmental improvement resources. Members of the P2/CA and a general description of their role is listed below:

### Empire State Development (ESD)

#### Environmental Investment Program (EIP)

EIP offers financial assistance for significant pollution prevention and recycling outcomes at your business. 518/292-5340; [www.empire.state.ny.us/environment](http://www.empire.state.ny.us/environment) ; [environment@empire.state.ny.us](mailto:environment@empire.state.ny.us)

#### Small Business Environmental Ombudsman (SBEO)

SBEO provides compliance assistance and ombudsman services/confidential assistance to any small business in NYS. 877/247-2329; [www.empire.state.ny.us/environment](http://www.empire.state.ny.us/environment) ; [environment@empire.state.ny.us](mailto:environment@empire.state.ny.us)

### NYS Department of Environmental Conservation (DEC)

DEC's Pollution Prevention Unit specializes in providing pollution prevention (P2) information and advice to the regulated community and the public. This can take the form of responding to information requests, making presentations, producing P2 and compliance assistance (CA) publications (general and for specific sectors or topics), and setting up P2 and CA workshops for specific sectors or topics. 518/402-9469; [www.dec.ny.gov/about/817.html](http://www.dec.ny.gov/about/817.html)

### NYS Environmental Facilities Corporation (NYSEFC)

EFC's mission is to promote environmental quality by providing low-cost capital and expert technical assistance to municipalities, businesses and State agencies for environmental projects in New York State. EFC's purpose is to help public and private entities comply with federal and state environmental requirements. 800/882-9721 (within NYS); 518/402-7461; [www.nysefc.org](http://www.nysefc.org)



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### **NYS Energy Research and Development Authority (NYSERDA)**

NYSERDA funds research into energy supply and efficiency, as well as energy-related environmental issues, important to the well-being of New Yorkers. 866/NYSERDA (697-3732) or 518/862-1090; [www.nyserda.org](http://www.nyserda.org)

### **NYS Foundation for Science, Technology and Innovation (NYSTAR)**

NYSTAR is a government public-benefit corporation that supports collaborative industry-academic partnerships to foster integrated approaches for developing and commercializing innovative technologies. Initiatives include college and university-based research and development centers that work with industry to solve technological challenges, incentives to recruit and retain best-of-class research faculty, and technology transfer incentives. 518/292-5700; [www.nystar.state.ny.us](http://www.nystar.state.ny.us)