

FY2022-FY2023 Bipartisan Infrastructure Law Pollution Prevention Grant Summaries

During fiscal years 2022-2023, EPA [selected](#) grantees for 39 Pollution Prevention (P2) grants funded under the Bipartisan Infrastructure Law totaling nearly \$12 million. Additionally, EPA [selected](#) grantees for 32 P2 grants funded under the recurring P2 grants program totaling over \$9 million. Both grant opportunities will support P2 activities across all environmental media – air, water, and land. Prospective grant recipients represent state agencies, federally-recognized tribes, and colleges and universities that are instrumentalities of a state.

The grant selection summaries include the grant recipient's name, the federal grant amount and a brief description of what each grant will address. Grants reflect a two-year funding period, with work anticipated to begin in October 2022 or soon thereafter and to complete in October 2024. EPA allows grantees one additional year to follow-up with the businesses they assisted to determine which P2 recommendations were adopted and implemented, and to report that information to EPA. Selected grantees will focus on at least one of the P2 Program's National Emphasis Areas – Food and Beverage Manufacturing and Processing; Chemical Manufacturing, Processing and Fabrication; Auto Manufacturing and Maintenance; Aerospace Product and Parts Manufacturing and Maintenance; Metal Manufacturing and Fabrication; or Supporting Pollution Prevention in Indian Country and for Alaska Native Villages.

Read summaries of the [2022-2023 P2 grants funded by recurring appropriation](#).

For additional information on the grants, please contact the [EPA Regional P2 Program](#).

- [Region 1 \(CT, ME, MA, NH, RI, VT\)](#)
- [Region 2 \(NJ, NY, PR, VI\)](#)
- [Region 3 \(DE, DC, MD, PA, VA, WV\)](#)
- [Region 4 \(AL, FL, GA, KY, MS, NC, SC, TN\)](#)
- [Region 5 \(IL, IN, MI, MN, OH, WI\)](#)
- [Region 6 \(AR, LA, NM, OK, TX\)](#)
- [Region 7 \(IA, KS, MO, NE\)](#)
- [Region 8 \(CO, MT, ND, SD, UT, WY\)](#)
- [Region 9 \(AZ, CA, HI, NV, AS, GU\)](#)
- [Region 10 \(AK, ID, OR, WA\)](#)

REGION 1 (CT, ME, MA, NH, RI, VT)

MASSACHUSETTS

University of Massachusetts, Boston

- National Emphasis Area: Food and Beverage Manufacturing and Processing
- EPA Grant: \$350,000

The grantee will provide technical assistance assessments to craft breweries in Massachusetts that are implementing pollution prevention (P2) strategies. Technical assistance will involve establishing a baseline of current costs and environmental performance and estimating savings and improvements that can be realized when facilities adopt and implement P2 practices. Beneficial P2 practices may involve the grantee recommending opportunities for the breweries to lower business costs and reduce environmental impacts (e.g., reducing greenhouse gas emissions, reducing water and energy consumption, reducing amount of hazardous material discharged). To target its technical assistance work, the grantee will utilize EPA's [P2 EJ Facility Mapping Tool](#) to locate breweries in communities with environmental justice concerns. The grantee will train business students on how to apply P2 and sustainability benchmarking tools to achieve environmental and business benefits. The grantee will also conduct follow-up visits with each participating brewery to identify successes and impediments to P2 implementation. Details of the project will be shared through P2 conferences, webinars and workshops. A video will also be produced on a P2 case study.

MAINE

University of Southern Maine

- National Emphasis Area: Food and Beverage Manufacturing and Processing
- EPA Grant: \$350,000

The grantee will provide technical assistance to the Maine craft beverage industry to increase operational efficiencies, limit pollution and create a healthier working environment and community. The project team and student interns will assist craft beverage businesses to identify and implement best practices, develop benchmarking tools, identify alternative cleaners and sanitizers and develop options for financing P2 upgrades. The grantee will disseminate lessons learned from this work and P2 best practices through web postings, case studies, one or more videos, outreach events and speaking engagements. The team will also implement a New England Sustainable Craft Beverage recognition program and develop guidance for how the craft beverage sector can finance environmentally responsible equipment.

VERMONT

Vermont Department of Environmental Conservation

- National Emphasis Area: Food and Beverage Manufacturing and Processing
- EPA Grant: \$350,000

The grantee will work with Vermont food processors to evaluate packaging with the goal of reducing per- and polyfluoroalkyl substances (PFAS) and microplastics contamination in food and food waste recycling streams. The grantee will use EPA's [EJScreen: Environmental Justice Screening and Mapping Tool](#) and the [P2 EJ Facility Mapping Tool](#) to locate food processors in communities with environmental justice concerns. The grantee will generate recommendations on ways to increase sustainability in packaging and evaluate the transport of PFAS and microplastic contaminants in food waste and the environment. The grantee will evaluate and characterize PFAS and microplastics concentrations within the food recycling system and identify sources of contamination. The grantee will also research, identify, develop and promote P2 practices and tools that reduce the occurrence and release of PFAS and microplastics from packaging used by food manufacturers. Findings from this work will be disseminated with recommended strategies that reduce sources of contamination. The grantee will identify data gaps and recommend additional research needed to achieve reductions in PFAS and microplastic contamination in food and food waste recycling streams and estimate the mass of PFAS and microplastics conveyed to the environment before and after P2 efforts. The grantee will also estimate the financial savings or costs associated with changes in packaging or other practices implemented by businesses and disseminate these findings through outreach materials such as reports, case studies, web content, social media content, webinars, trainings, conference presentations and in meetings with stakeholder groups.

REGION 2 (NJ, NY, PR, VI)

NEW JERSEY

Rowan University

- National Emphasis Area: Chemical Manufacturing, Processing and Formulation
- EPA Grant: \$314,416

The grantee will provide technical assistance to the chemical manufacturing sector to improve P2 practices, including practices that reduce energy and water use. Technical assistance will employ a form of life cycle analysis called machine learning which estimates life cycle inventories of input and output flows to assess quantities of chemical releases into the environment when transitioning from lab-scale studies to industrial-scale production and the effects of using greener chemicals and low energy consuming technologies. This type of life cycle analysis can help facilities evaluate the use of safer chemicals and solvents, and other greener technologies in the manufacturing design phase. Through a partnership with Astra Zeneca, the grantee will test P2 strategies at an Astra Zeneca facility in Delaware. Life-cycle modeling and data analysis conducted at Rowan University will identify P2 practices that save businesses money and improve the environmental performance of chemical facilities. This information will be shared throughout the chemical manufacturing industry and elsewhere to encourage companies to adopt and implement P2 practices, particularly in and around communities with environmental justice concerns.

NEW YORK

Saint Regis Mohawk Tribe

- National Emphasis Area: Supporting Pollution Prevention in Indian Country and for Alaska Native Villages
- EPA Grant: \$302,546

The grantee will provide technical assistance to Snow and Ice Managers (SIMs) on the Saint Regis Mohawk Reservation. Reducing road salt contamination is important for preserving the biodiversity of native plants found along roadways which store greenhouse gases and filter pollution from vehicle emissions. The grantee will help SIMs identify, develop and adopt P2 practices that reduce damage to the environment, including to water quality, and to human health from roadway salt contamination. The grantee will also help SIMs implement economical practices that minimize the use of road salt, employ best practices for road salt storage, address road salt handling and application, and propose alternative, environmentally preferable products. The grantee will deploy a team of water quality/sampling and land use managers to survey and assess current storage and handling practices and document where improvements can be made. The grantee will also provide on-site training in best management practices that reduce the use of road salt and will evaluate the costs associated with conducting comprehensive water quality assessments.

REGION 3 (DE, DC, MD, PA, VA, WV)

PENNSYLVANIA

Northampton County Area Community College

- National Emphasis Area: Food and Beverage Manufacturing and Processing; Aerospace Product and Parts Manufacturing and Maintenance; and Metal Manufacturing and Fabrication
- EPA Grant: \$225,113

The grantee will provide P2 technical assistance to companies under the food and beverage, metal, and aerospace National Emphasis Areas (NEAs). The grantee will identify economically advantageous methods to reduce or eliminate the release of toxic air emissions and greenhouse gas emissions, and reduce waste created from solvent-based coatings. The project aims to improve compliance in counties in Pennsylvania that are in nonattainment under National Ambient Air Quality Standards (NAAQS) for ozone and to decrease human exposure to pollutants that contribute to the severity of respiratory diseases. Half of the assistance will be directed to businesses in communities with environmental justice concerns. The grantee will assess whether its P2 technical assistance has reduced fugitive emissions, the use of toxic solvents and human exposure to harmful pollutants and will develop a repository of information, materials and lessons learned. The grantee will partner with Benjamin Franklin Technology Partners and an Occupational Safety and Health Administration (OSHA) Training Institute Education Center to share technical P2 solutions and resources to identified businesses.

Pennsylvania State University

- National Emphasis Area: Food and Beverage Manufacturing and Processing; and Metal Manufacturing and Fabrication
- EPA Grant: \$350,000

The grantee will meet with prior recipients of P2 and/or energy efficiency assistance to identify sector specific training needs and opportunities, develop targeted tools and materials, and conduct training seminars for businesses to promote hazardous waste source reduction, energy reduction and water conservation strategies. The project will provide assistance to community cohorts comprised of metal manufacturers and fabricators, food and beverage manufacturers and community stakeholders located within or adjacent to communities with environmental justice concerns. The grantee will meet with these stakeholders to capture the outputs and outcomes from its project.

Slippery Rock University

- National Emphasis Area: Food and Beverage Manufacturing and Processing
- EPA Grant: \$205,000

The grantee will offer P2 technical assistance to food and beverage manufacturers, including through a facility assessment report that will include recommendations for reducing or eliminating pollutants from entering waste streams or otherwise being released into the environment prior to recycling, treatment or disposal. These activities aim to reduce greenhouse gases, reduce water loads that contribute to flooding and inform P2 trainings and tools. The grantee will use EPA's [P2 EJ Facility Mapping Tool](#) to identify industrial facilities in or adjacent to communities with environmental justice concerns.

DELAWARE

University of Delaware

- National Emphasis Area: Metal Manufacturing and Fabrication
- EPA Grant: \$192,000

The grantee will provide on-site technical assistance to metal fabrication and manufacturing facilities which will be identified by using EPA's [P2 EJ Facility Mapping Tool](#) to determine their proximity to communities with environmental justice concerns. The technical assistance will include one- or two-day site energy and waste assessments that include findings, recommendations and cost-effectiveness. The recommendations will highlight opportunities to reduce a facilities' carbon footprint, air emissions, water discharges and assess how these reductions can impact local watersheds. The grantee will also conduct follow-up visits to consult with facility managers about adopting recommended measures.

MARYLAND

University of Maryland, College Park

- National Emphasis Area: Food and Beverage Manufacturing and Processing
- EPA Grant: \$350,000

The grantee will provide P2 technical assistance to help small breweries adopt source reduction practices that reduce business costs and improve environmental outcomes related to water, energy and cleaning chemicals, while also supporting the transition away from hydrofluorocarbon (HFC) refrigeration. Technical assistance will include benchmarking and assessments and offsite P2 technical assistance through roundtables, webinars, online modules, leadership exchanges, case studies, P2 tools and best practices. The grantee will help businesses access financing to implement P2 practices by utilizing the P2 project model from the New England Environmental Finance Center and forming partnerships with other environmental finance centers (EFCs). The grantee has set a goal to provide at least 40% of the P2 technical assistance and all onsite technical assistance to breweries located in communities with environmental justice concerns.

VIRGINIA

Virginia Department of Environmental Quality

- National Emphasis Area: Food and Beverage Manufacturing and Processing
- EPA Grant: \$59,939

The grantee will provide technical assistance to the beer and wine sector of the food and beverage industry to adopt P2 practices that reduce waste, energy and water consumption. Technical assistance will involve trainings, roundtables and on-site visits to facilities. The grantee will provide written assessments that include recommended P2 goals and practices. The grantee will also manage a business recognition program that will promote P2 best practices and will develop a case study with the goal of amplifying adoption of P2 practices.

WEST VIRGINIA

West Virginia University

- National Emphasis Area: Food and Beverage Manufacturing and Processing; Chemical Manufacturing, Processing and Formulation; Automotive Manufacturing and Maintenance; Aerospace Product and Parts Manufacturing and Maintenance; and Metal Manufacturing and Fabrication
- EPA Grant: \$350,000

The grantee will target facilities in West Virginia to reduce energy and water consumption, improve manufacturing efficiency and reduce hazards to human health and the environment. Technical assistance will involve on-site assistance, roundtables and training workshops. The grantee will document and share materials and information about P2 best practices and encourage facilities to adopt P2 practices for their processes, products, raw material, supply chain and/or sale operations. The grantee will provide training and educational events for facilities in or adjacent to communities with environmental justice concerns.

REGION 4 (AL, FL, GA, KY, MS, NC, SC, TN)

SOUTH CAROLINA

Clemson University

- National Emphasis Area: Chemical Manufacturing, Processing and Formulation
- EPA Grant: \$350,000

The grantee will provide P2 technical assistance to chemical manufacturing companies to reduce hazardous waste, air pollutants, water consumption and to increase cost savings and energy efficiency at their facilities. The technical assistance will focus on projects in communities with environmental justice concerns and include on-site visits, analyses utilizing EPA's Toxics Release Inventory (TRI), facility assessments, education and facilitated roundtable meetings to identify sector specific issues and possible solutions. The grantee will measure results through follow-up surveys and/or interviews and produce a case study on best practices.

NORTH CAROLINA

East Carolina University

- National Emphasis Area: Food and Beverage Manufacturing and Processing; Chemical Manufacturing, Processing and Formulation; Automotive Manufacturing and Maintenance; Aerospace Product and Parts Manufacturing and Maintenance; and Metal Manufacturing and Fabrication
- EPA Grant: \$349,994

The grantee will provide technical assistance to manufacturers in North Carolina to reduce energy consumption, water usage and toxic emissions at their facilities. The project will provide on-site technical assessments with a goal of reducing the environmental footprints and business costs at the facilities while also addressing climate change and reducing greenhouse gasses. The grantee will also offer webinars, workshops, and one-day training courses on P2.

GEORGIA

Georgia Institute of Technology

- National Emphasis Area: Food and Beverage Manufacturing and Processing; and Chemical Manufacturing, Processing and Formulation
- EPA Grant: \$350,000

The grantee will provide technical assistance to food and metal manufacturers to reduce hazardous materials, greenhouse gas emissions and water usage and to increase energy efficiency and financial benefits from P2 practices at their facilities. The technical assistance will assess current conditions and identify opportunities for implementing P2 practices. The grantee will use a cohort implementation model to teach manufacturers how to conduct source reduction assessments that lead to implementation of new and additional P2 practices. Training and support will educate manufacturers

about the financial benefits of P2 and the P2 tools and resources available from EPA and the Partnership for a Sustainable Georgia.

KENTUCKY

Kentucky Energy and Environment Cabinet, Department for Environmental Protection

- National Emphasis Area: Food and Beverage Manufacturing and Processing; and Automotive Manufacturing and Maintenance
- EPA Grant: \$350,000

The grantee will provide targeted technical education and assistance to food and beverage and automotive manufacturers to encourage reductions in greenhouse gas emissions and waste, and improve resource and water conservation, P2 integration and energy efficiency to support sustainability and competitiveness at their facilities. The grantee will develop sustainable value stream maps and best management practices, and provide onsite technical assistance, training and industry specific roundtables.

NORTH CAROLINA

University of North Carolina at Chapel Hill

- National Emphasis Area: Food and Beverage Manufacturing and Processing
- EPA Grant: \$350,000

The grantee will provide technical assistance to craft brewers in North Carolina to improve energy efficiency, reduce natural gas consumption, conserve water and to increase the use of environmentally preferable cleaning chemicals and low volatile organic compound (VOC) products. Technical assistance will consist of assessments, site visits and benchmarking reports that include prioritized recommendations and action planning, with an emphasis on providing resources to finance P2 capital upgrades, especially refrigeration equipment. The grantee will present effective P2 practices and results from the grant at the NC Craft Brewers Conference + Expo in 2024. The grantee will also develop case studies that highlight the P2 practices implemented through the grant and recommendations for craft brewers.

ALABAMA

University of Alabama

- National Emphasis Area: Food and Beverage Manufacturing and Processing
- EPA Grant: \$267,994

The grantee will provide technical assistance to food and beverage manufacturers in Alabama to reduce water usage, wastewater, energy use and greenhouse gas emissions while saving money and meeting corporate objectives. The grantee will also seek to reduce specific pollutants including nutrient pollution discharged to streams, emissions of volatile organic compounds (VOCs), hazardous air pollutants (HAPs), and hazardous waste including chlorine, hydrochloric and sulfuric acids, sulphur dioxide, and cleaning

chemicals. Technical assistance will include P2 engineering assessments of seafood processing plants and P2 economic impact and cost savings assessments. The project will target facilities located in communities with environmental justice concerns. Using EPA's [P2 EJ Facility Mapping Tool](#), the grantee has identified over 125 facilities within the food and beverage and processing industry that are located in or adjacent to underserved communities. The grantee will collaborate with local partners who work in overburdened and vulnerable communities and will also seek involvement from local municipalities and businesses. Separately, the grantee will work with the Alabama Beverage Association to broaden the association's existing partnership with the Alabama Department of Environmental Management which is focused on educating its members about P2 practices that reduce chemical use and increase energy savings.

REGION 5 (IL, IN, MI, MN, OH, WI)

MICHIGAN

Central Michigan University

- National Emphasis Area: Automotive Manufacturing and Maintenance
- EPA Grant: \$135,212

The grantee will provide technical assistance to automotive manufacturers to improve their competitiveness by increasing savings, reducing water use, and the generation of hazardous material and greenhouse gas emissions. The grantee will provide on-site P2 technical assistance to selected businesses located in underserved communities in central Michigan. Technical assistance will involve a training focused on business sustainability through P2 and a roundtable on community based P2. The grantee will work with local communities and business groups to use P2 practices to promote sustainability and address environmental justice. The grantee's work will complement existing local and state efforts to address issues related to heavy industry in the area.

MINNESOTA

Minnesota Pollution Control Agency

- National Emphasis Area: Food and Beverage Manufacturing and Processing; Chemical Manufacturing, Processing and Formulation; and Metal Manufacturing and Fabrication
- EPA Grant: \$343,289

The grantee will work with metal fabricators, food processors and chemical formulators on ways to use P2 strategies to prevent PFAS pollution including in food products. Technical assistance will include verifying PFAS in use at facilities and site-specific assessments to identify P2 opportunities and implementation strategies. The grantee will support businesses that implement P2 strategies to reduce or eliminate PFAS from their processes and products. In addition, the grantee will create sector specific assessment guides for evaluating industrial operations for possible PFAS use. These guides will also outline opportunities for reduction or replacement of PFAS.

ILLINOIS

University of Illinois, Chicago

- National Emphasis Area: Food and Beverage Manufacturing and Processing; Chemical Manufacturing, Processing and Formulation; Automotive Manufacturing and Maintenance; Aerospace Product and Parts Manufacturing and Maintenance; and Metal Manufacturing and Fabrication
- EPA Grant: \$350,000

The grantee will provide on-site technical assistance to staff at 20 industrial plants in Chicago with a focus on plants located in underserved communities. The technical assistance will assess industrial operations for opportunities to implement P2 best practices that save energy and reduce costs, and also reduce air and water pollution. The grantee will partner with the city of Chicago to leverage the city's funding and resources to help fund and implement P2 projects identified during assessments. At least four case studies will be developed that profile facilities that have adopted P2 technologies.

University of Illinois, Urbana-Champaign, Smart Energy Design Assistance Center

- National Emphasis Area: Food and Beverage Manufacturing and Processing; Automotive Manufacturing and Maintenance; and Metal Manufacturing and Fabrication
- EPA Grant: \$349,999

The grantee will provide on-site P2 technical assistance and trainings focused on identifying cost savings through reduction in hazardous materials, water usage and reduced greenhouse gas emissions. The technical assistance will include industry specific P2 best practice checklists, on-site assessments for 16 National Emphasis Area (NEA) small to medium-sized businesses in or adjacent to communities with environmental justice concerns, recognition for businesses that implement more than one recommended P2 practice based on the grantee's technical assistance, and P2 training for 260 businesses, including 80 businesses located in or adjacent to overburdened and vulnerable communities. The grantee will develop case studies from its experiences to highlight lessons learned and P2 best practices. The grantee will distribute the case studies through websites to P2 technical assistance providers across the Midwest and nationally who work with small businesses within target industrial sectors.

University of Illinois, Urbana-Champaign, Prairie Research Institute

- National Emphasis Area: Food and Beverage Manufacturing and Processing; Chemical Manufacturing, Processing and Formulation; Automotive Manufacturing and Maintenance; Aerospace Product and Parts Manufacturing and Maintenance; Metal Manufacturing and Fabrication
- EPA Grant: \$349,197

The grantee will provide technical assistance to 15 manufacturers and processors in multiple business sectors in Illinois. The assistance will focus on reducing energy, water and hazardous materials use at industrial facilities, while also reducing business costs. The technical assistance will include training events and a publication that highlights P2 strategies and practices. The grantee will develop case

studies on the experiences of its industry partners who implement P2 practices. These resources will be distributed to other P2 assistance providers and interested businesses to educate them about P2 practices.

REGION 6 (AR, LA, NM, OK, TX)

OKLAHOMA

Cheyenne-Arapaho Tribes of Oklahoma

- National Emphasis Area: Supporting Pollution Prevention in Indian Country and for Alaska Native Villages
- EPA Grant: \$171,000

The grantee will promote P2 in underserved communities and tribal businesses to reduce pollution and hazardous wastes, conserve energy, limit water use and save money. The P2 assistance will be centered at the Concho Agency and extend to tribal communities and tribal businesses throughout the 10-county service area over the next two years. Representatives from the Cheyenne and Arapaho Tribes' EPA department will visit twelve of the technical assistance projects with businesses in the Cheyenne and Arapaho Tribes historical jurisdiction. The Cheyenne and Arapaho Tribes' EPA department will develop and conduct trainings for custodial workers at tribally owned hotels, casinos, daycare and head start centers within the jurisdiction of the Cheyenne and Arapaho Tribes to educate workers about lower-toxicity chemical products.

Choctaw Nation of Oklahoma

- National Emphasis Area: Supporting Pollution Prevention in Indian Country and for Alaska Native Villages
- EPA Grant: \$330,000

The grantee will develop a "Green Clean" initiative to promote chemical safety and increase the use of safer chemical products at businesses, schools, and other facilities within the Choctaw Nation of Oklahoma. Through the initiative, the grantee will conduct assessments of chemical products used at businesses and facilities and provide recommendations to improve chemical safety. The grantee anticipates targeting 15-20 businesses and facilities every three months. The grantee will write reports detailing the changes in chemical use at these businesses and facilities.

Oklahoma Department of Environmental Quality

- National Emphasis Area: Automotive Manufacturing and Maintenance; and Aerospace Product and Parts Manufacturing and Maintenance
- EPA Grant: \$350,000

The grantee will provide technical assistance to businesses in Oklahoma to reduce and replace toxic chemicals with greener alternatives to prevent adverse environmental impacts and improve human health. The grantee will develop a Geographic Information System (GIS) map to identify communities potentially impacted by pollution from the use of organic solvents at nearby businesses. The grantee will

identify businesses to target for P2 assistance through a decision matrix based on data from EPA's [P2 EJ Facility Mapping Tool](#), water resources maps, water supply, land use and demographic data, current and past Resource Conservation and Recovery Act compliance issues and information indicating areas that are potential vulnerable to intrusion from harmful vapors from industrial contamination. The grantee will develop a rebate program that will encourage and incentivize businesses to invest in new equipment and/or change industrial processes to reduce the use solvent or use lower toxicity solvents. The grantee will develop case studies that assess the value of these rebates as a catalyst to encourage investment in P2 practices.

REGION 7 (IA, KS, MO, NE)

IOWA

Iowa Department of Natural Resources

- National Emphasis Area: Food and Beverage Manufacturing and Processing; Chemical Manufacturing, Processing and Formulation; Automotive Manufacturing and Maintenance; Aerospace Product and Parts Manufacturing and Maintenance; and Metal Manufacturing and Fabrication
- EPA Grant: \$350,000

The grantee will provide technical assistance to Iowa businesses to conserve water, reduce hazardous waste and greenhouse gas emissions, and generate cost savings. The technical assistance will include the placement of P2 interns at businesses and assessments of business operations for potential use of P2 strategies. The grantee will follow up with businesses to assess whether recommendations were implemented, review data about business operations and provide suggestions for potential use of P2 to reduce waste and improve efficiency. The grantee will launch an online P2 training portal to provide lessons learned and best practices to engineering students and business owners and operators.

KANSAS

Kansas State University

- National Emphasis Area: Automotive Manufacturing and Maintenance; Aerospace Product and Parts Manufacturing and Maintenance; and Metal Manufacturing and Fabrication
- EPA Grant: \$350,000

The grantee will provide technical assistance to businesses in Kansas to reduce chemical use. The technical assistance will focus on businesses that use the same or similar chemicals and utilize similar industrial processes. The grantee's outreach strategies will include workshops and trainings on P2, climate change and environmental justice and partnerships with city governments. The grantee will also place interns at businesses in Kansas for ten-week terms. The grantee will prioritize the placement of interns at businesses located in or near communities with environmental justice concerns. The grantee will perform follow-up assessments at these businesses within a year after recommendations of potential P2 strategies were made to facility managers.

MISSOURI

Missouri State University

- National Emphasis Area: Food and Beverage Manufacturing and Processing; Automotive Manufacturing and Maintenance; Aerospace Product and Parts Manufacturing and Maintenance; and Metal Manufacturing and Fabrication
- EPA Grant: \$296,424

The grantee will provide technical assistance to manufacturing companies in Missouri in the food and beverage, automotive, aerospace, and metal manufacturing and fabrication industries to reduce waste, air emissions, energy use, water and hazardous materials while saving money. The grantee will provide businesses with assessments and recommendations for implementing P2 strategies, potentially with the help of student interns. Through Missouri State University's (MSU) Small Business Development Center (SBDC), the grantee will provide trainings for staff from local businesses on how to perform P2 assessments and implement P2 opportunities. The grantee will also work with the Missouri Association of Manufacturers (MAM) to develop a Missouri-wide sustainability network to promote P2 best practices.

Missouri University of Science and Technology

- National Emphasis Area: Metal Manufacturing and Fabrication
- EPA Grant: \$347,998

The grantee will provide technical assistance to the copper electrowinning (EW) industry to prevent pollution related to acid mist. The technical assistance will include research on how this pollution is generated and on alternative chemicals, case studies on the outcomes of the grant, workshops and an environmental justice teaching module. The grantee will identify an environmentally friendly acid mist suppressant alternative to the discontinued fluorochemical reagent FC-1100, a PFAS that poses environmental issues in its production and application. The grantee will convene industry roundtables with representatives from EW facilities and manufacturers of acid mist suppressants to share its research, exchange information and develop P2 practices that can be implemented in other facilities in the U.S. The grantee will also produce educational materials for current and future industry professionals on P2 best practices, the industry's environmental impacts and how it can promote environmental justice.

NEBRASKA

University of Nebraska, Lincoln

- National Emphasis Area: Food and Beverage Manufacturing and Processing; Chemical Manufacturing, Processing and Formulation; and Metal Manufacturing and Fabrication
- EPA Grant: \$319,813

The grantee will provide technical assistance to Nebraska businesses to reduce the use of water, energy, and materials, and cut wastewater. The technical assistance will include process assessments, sharing information on P2 best practices, data collection and analysis methods, and follow-up assessments. The

grantee will focus its efforts on manufacturers in communities with environmental justice concerns and will network with manufacturers in the targeted communities. The grantee will also develop videos that promote specific P2 best practices for these sectors. The proposed work will include providing P2 assessments to at least fifteen manufacturers. At least ten manufacturers will receive follow-up assessments. The grantee will also refer manufacturers in underserved communities to other related P2/source reduction grant-funded technical assistance programs.

REGION 8 (CO, MT, ND, SD, UT, WY)

MONTANA

Montana State University, Bozeman

- National Emphasis Area: Food and Beverage Manufacturing and Processing
- EPA Grant: \$349,978

The grantee will provide technical assistance and training in P2 to aid the food and beverage manufacturing and processing industry and other small businesses in creating more efficient and pollution-free processes. The technical assistance will include roundtables, onsite technical assessments for businesses or organizations that have been awarded the Montana State University Ecostar award, and support for achieving a sustainable brewery certification. The grantee will create a new Environmental Justice program for Montana's tribes to design a holistic approach in incorporating P2 on tribal lands by integrating traditional ecological knowledge (TEK) with P2 practices to strategically expand existing P2 programs. The grantee will also offer trainings and technical assistance to businesses in the food and beverage manufacturing industry.

REGION 9 (AZ, CA, HI, NV, AS, GU)

ARIZONA

Arizona Department of Environmental Quality

- National Emphasis Area: Automotive Manufacturing and Maintenance
- EPA Grant: \$296,594

The grantee will provide technical assistance to the automotive manufacturing and maintenance industry to reduce the use of toxic substances and generation of hazardous waste and to conserve resources. The technical assistance will include designing an online training program and resource center targeted to automotive manufacturing and maintenance facilities in or near communities with environmental justice concerns.

CALIFORNIA

California Department of Toxic Substances Control

- National Emphasis Area: Chemical Manufacturing, Processing and Formulation
- EPA Grant: \$350,000

The grantee will provide technical assistance to chemical manufacturers to reduce the use of hazardous substances in consumer products, particularly those manufactured in and adjacent to communities with environmental justice concerns. The technical assistance will involve developing tools to measure, model and evaluate the environmental impacts of chemicals in products and improving alternative assessment methods to prevent negative impacts from both current and future chemicals. The grantee will expand alternatives assessment (AA) practices by assessing tools for impacts in overburdened and underserved communities, piloting AA case studies, conducting a stakeholder survey and roundtable, and developing guidance and training modules on tools, databases and methodologies needed to incorporate environmental justice considerations into AA.

University of California, Berkeley

- National Emphasis Area: Chemical Manufacturing, Processing and Formulation
- EPA Grant: \$344,275

The grantee will provide technical assistance to product manufacturers and their formulators to reduce the amount of hazardous chemicals in the marketplace. The technical assistance will include chemical hazard and alternative assessment reports, disseminating best practices, and creating and publicizing public reports and case studies that will be distributed to businesses in the sector through webinars and roundtables with industry and communities. The grantee will identify safer alternatives to hazardous chemicals in consumer products with a focus on products that can have a high impact in marginalized communities.

Viejas Band of Kumeyaay Indians

- National Emphasis Area: Supporting Pollution Prevention in Indian Country and for Alaska Native Villages
- EPA Grant: \$350,000

The grantee will provide training and technical assistance to businesses on the Viejas Indian Reservation to reduce hazardous chemicals, energy and water use, and train staff and tribal colleagues. The technical assistance will involve an initial P2 assessment, implementation of P2 measures, staff trainings, data tracking focusing on reducing hazardous chemicals used in operations, reducing energy and water use while providing staff and tribal colleagues with knowledge about P2 that can be applied in homes and their communities. The grantee will also develop innovative P2 resources that will be shared with other Tribal nations using the web platform, Tribal P2 Action.

REGION 10 (AK, ID, OR, WA)

ALASKA

Knik Tribal Council

- National Emphasis Area: Supporting Pollution Prevention in Indian Country and for Alaska Native Villages
- EPA Grant: \$330,000

The grantee will support P2 efforts at businesses located in tribal Alaskan communities to promote safer chemical use in partnership with the Alaska Forum's Green Star Outreach program. The grantee will provide onsite technical assistance at local retailers. In some Alaskan communities, these businesses are the only source of household cleaning products and other chemicals. The Green Star Outreach program will focus its efforts on supporting and promoting the use and local sale of EPA Safer Choice labeled products.

IDAHO

Idaho Department of Environmental Quality

- National Emphasis Area: Food and Beverage Manufacturing and Processing; Chemical Manufacturing, Processing and Formulation; Automotive Manufacturing and Maintenance; Aerospace Product and Parts Manufacturing and Maintenance; and Metal Manufacturing and Fabrication
- EPA Grant: \$71,550

The grantee will provide technical assistance to facilities to reduce Toxics Release Inventory (TRI) reportable pollutants from business facilities. The grantee will build a cohort technical assistance (TA) model consisting of industry roundtables, webinars and onsite assistance. The grantee will pair P2 TA providers with businesses to develop P2 action plans specific and appropriate for each facility, and participating businesses will commit to implementing P2 actions that result in measurable reductions of the identified priority pollutant. Each business paired with a P2 TA provider will develop a ten-year baseline of use, generation, and/or release of the priority pollutant against which P2 implementation impact will be measured.

OREGON

Oregon Department of Environmental Quality

- National Emphasis Area: Food and Beverage Manufacturing and Processing; Chemical Manufacturing, Processing and Formulation; Automotive Manufacturing and Maintenance; and Aerospace Product and Parts Manufacturing and Maintenance
- EPA Grant: \$350,000

The grantee will provide P2 technical assistance to businesses to minimize the generation of hazardous waste, and air and water pollution. Grant-funded activities will include assigning interns to facilities through the P2 Internship Program, meetings and trainings with industry partners and sharing information to reduce the use of toxic solvents in the metal manufacturing sector. The grantee will also partner with the Pollution Prevention Resource Center to develop a regional green chemistry collaborative that will provide technical assistance to chemical manufacturers and formulators to help them gain the Safer Choice label and expand the Oregon EcoBiz certification program to include automotive businesses in communities with environmental justice concerns.