



# Inflation Reduction Act Monitoring Provisions

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AAPCA SPRING MEMBERSHIP MEETING  
APRIL 2023

Preliminary Information



# IRA Monitoring Provisions\*

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60105(a) Fenceline Monitoring (\$117.5M, OAQPS/ORD/OECA)

60105(b) Multipollutant Monitoring (\$50M, OAQPS/OAP)

60105(c) Sensors (\$3M, OAQPS/ORD)

60105(d) Wood heaters (\$15M, OAQPS/OECA/ORD)

60105(e) Methane Monitoring (\$20M, ORD/OAQPS)

**\*The docket for comments closed January 18, 2023. The information provided today is preliminary thinking based on initial review of all the comments.**



# 60105(a) Fenceline Monitoring

**Provision:** *SEC.60105a. Funding to Address Air Pollution (a)(1) Fenceline Air Monitoring and Screening Air Monitoring.* Appropriation of \$117,500,000 to remain available until September 30, 2031 for grants and other activities authorized under subsections (a) through (c) of section 103 and section 105 of the Clean Air Act to deploy, integrate, support, and maintain fenceline air monitoring, screening air monitoring, national air toxics trends stations, and other air toxics and community monitoring.

Fenceline Monitoring - \$117.5M (POC: Kristen Benedict)

- **Completed - Community Monitoring Grant Competition**
  - Funded additional projects using \$32,330,103 in IRA funds from this provision to supplement the number of American Rescue Plan competitive grant recipients for enhanced community monitoring in FY23
- **Community Scale Air Toxics Grants**
  - Last competition was in 2020; next competition slated for 2024. Options are being evaluated to enhance the competition with IRA funds.
- **National Air Toxics Trends Stations**
  - IRA funding will be used to streamline and modestly grow NATTS; planning currently commencing
- **Direct Awards to S/L/Ts**
  - Enhance existing monitoring programs through investments to support to the S/L/Ts
- **Regional Mobile Monitoring Support**
  - Provide O&M support as well as upgrades for regional mobile monitoring platforms
- **Ambient & Fenceline Air Toxics Measurement and Method Development**



# 60105(b) Multipollutant Monitoring

**Provision:** SEC.60105(b). *Funding to Address Air Pollution (a)(2) Multipollutant Monitoring Stations.* Appropriation of \$50,000,000 to remain available until September 30, 2031, for grants and other activities authorized under subsections (a) through (c) of section 103 and section 105 of the Clean Air Act to (A) to expand the national ambient air quality monitoring network with new multipollutant monitoring stations; and (B) to replace, repair, operate, and maintain existing monitors.

Multipollutant Monitoring - \$50M (POC: Kristen Benedict, EPA/OAR)

- **Direct Awards to S/L/Ts**
  - Increase number of new sites and support existing site investments
- **CASTNET**
  - Invest in existing sites, procure and install new equipment to enable robust air quality, climate, and health assessments, and establish new multipollutant monitoring sites on tribal lands



# 60105(c) Sensors

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**Provision:** *60105(c). Air Quality Sensors in Low-Income and Disadvantaged Communities.* Appropriation of \$3,000,000 to remain available until September 30, 2031, for grants and other activities authorized under subsections (a) through (c) of section 103 and section 105 of the Clean Air Act to deploy, integrate, and operate air quality sensors in low-income and disadvantaged communities.

Air Quality Sensors in Low-Income and Disadvantaged Communities - \$3M (POC: Kristen Benedict, EPA/OAR)

- **Direct Awards**
  - Exploring mechanisms to fund sensor purchases and/or training for air quality sensors in low-income and disadvantaged communities
- **Sensor Loan Program**
  - Funding for new or existing EPA Sensor Loan Programs for Communities



# 60105(d) Wood heaters

**Provision: SEC.60105. Funding to Address Air Pollution (D)EMISSIONS FROM WOOD HEATERS.**—In addition to amounts otherwise available, there is appropriated to the Administrator of the Environmental Protection Agency for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, \$15,000,000, to remain available until September 30, 2031, for grants and other activities authorized under subsections (a) through (c) of section 103 and section 105 of the Clean Air Act (42 U.S.C. 7403(a)–(c), 7405) **for testing and other agency activities to address emissions from wood heaters.**

Wood Heaters - \$15M (POC: Stef Johnson, EPA/OAR)

- **Direct Awards to States/Locals/Tribes**
  - New competitive grant or direct award program. Funds spent over the course of 5 years, for certified model retesting.
- **Research Woodstove Emissions**
  - Enhance existing research work. Funds spent over the course of 5 years.
- **Test Method Development**
  - Continue existing cord wood test method development work.
- **Joint Effort with OECA**
  - Certification process funding and improvement efforts.
- **Woodstove Database**
  - Revamp and support O&M for woodstove certification database



# 60105(e) Methane Monitoring

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**Provision:** *SEC.60105e. METHANE MONITORING.* In addition to amounts otherwise available, there is appropriated to the Administrator of the Environmental Protection Agency for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, \$20,000,000, to remain available until September 30, 2031, for grants and other activities authorized under subsections (a) through (c) of section 103 and section 105 of the Clean Air Act (42 U.S.C. 7403(a)–(c), 7405) **for monitoring emissions of methane.**

Methane Monitoring – \$20M (POC: Stef Johnson, EPA/OAR)

- **Emerging Technology Evaluation and Implementation**
  - Innovate Remote Sensing Technology Improvement and Application
  - Enhance and expand method development of fugitive source measurements of methane
- **Competitive grants or direct grant awards for S/L/Ts**
  - For deployment and use of new technologies

# Summary of overarching monitoring comments/themes from Public comment process – across all stakeholders

(note: individual stakeholders often had more detailed input than can be summarized across all stakeholders)  
Provisions 60105(a)- 60105(c)



## Networks

- General support for sustaining networks (including O&M) with modest expansions in the number of sites for criteria, air toxics, and supporting network
- Types of locations suggested to prioritize investments:
  - Sustain the existing national sites/networks for criteria and air toxic pollutants
  - Disadvantaged EJ and Tribal communities
  - Areas without information and monitoring in local areas
- Support for engaging stakeholders in the process of adding to/modifying the networks

## Methods and Data

- Strong support to improve air toxics methods including better detection limits, use of continuous methods, and optimizing methods for routine operations.
- Incorporate quality assurance appropriate for the use of the data
- Support for investments in approved and commercially available technologies and methods as well as emerging technologies (e.g. sensors)

## Additional technical themes

- Support for multipollutant approaches
- Support for near real-time monitoring and reduced data transfer time
- Requests for more easily accessible and user-friendly data, including online tutorials and improved data systems
- Incorporate training on monitoring and methods to better support staffing challenges (e.g., staff turnover and retirements)



# Summary of funding and grant related comments/themes from Public comment process – across all stakeholders



Provisions 60105(a)- 60105(c)

## Applicability of funds

- Use funding authority under Clean Air Act Section 103 rather than 105 to the greatest extent possible (i.e., do not require a match)
- Support for direct awards, especially for monitoring agencies that have little/no capacity to compete for competitive grants
- Have a plan for distributing funding to ensure that low-income and disadvantaged communities benefit from actionable data
- Request for funds to be used for State, local, and tribal staffing
- Consideration of outreach and monitoring investments:
  - For example, outreach can include training, community workshops, educational classes, and public awareness campaigns.
  - Examples of monitoring include siting, methods/equipment, data collection and reporting, evaluation/analysis, and training.

## Additional Funding and Grant Related Themes

- Broad support from the monitoring community to communicate the need to streamline the grants process
  - Assistance is requested through entire grant process (planning, writing, implementing) to be as inclusive as possible
- Encourage EPA to work closely with stakeholders in implementing IRA
- Try to remove/reduce requirements that may act as a barrier for applicants with low financial capacity