

ITRC: Who We Are and Why State and Local Air Agencies Should be Interested

NACAA COFFEE BREAK

February 1, 2024

Charles Reyes, ITRC Director

creyes@ecos.org

(202) 266-4939



Agenda

What is the ITRC?

Organization

Mission

Membership

Our Resources

Guidance and
Training

EtO Case Study

Current Projects

Collaboration

ITRC Participation

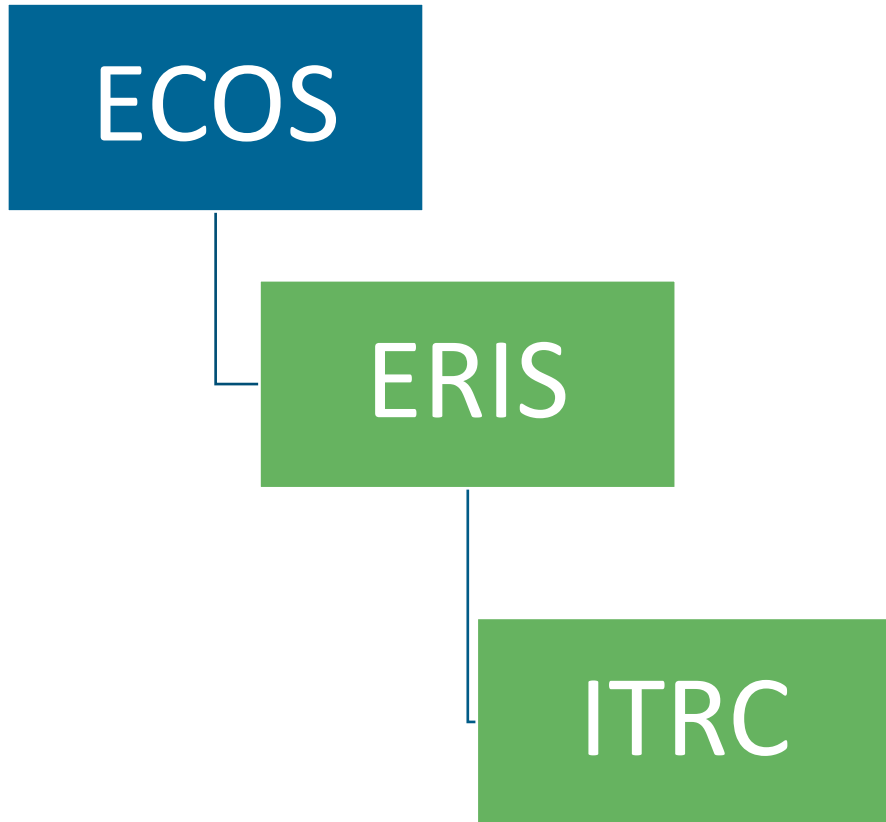
Training

Q/A

What is the ITRC?



Organization



Environmental Council of the States (ECOS)

- The national nonprofit, nonpartisan 501(c)(6) association of state and territorial environmental agency leaders
<https://www.ecos.org/>

Environmental Research Institute of the States (ERIS)

- Separate and affiliated 501(c)(3) educational and research nonprofit supporting ECOS
<https://www.eristates.org/>

Interstate Technology & Regulatory Council (ITRC)

- Program of ERIS
<https://itrcweb.org/about/about>

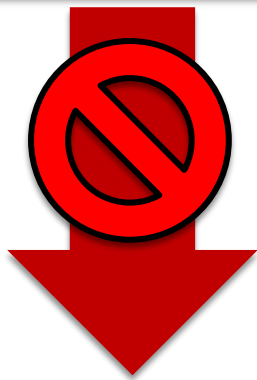
ITRC – Who we are

- A State-led, national coalition established in 1995 focused on developing tools and strategies to reduce interstate barriers to the deployment of innovative environmental technologies.
- Represents U.S. states, DC, and territories, with membership from state, federal, tribal, and international agencies, as well as members from academia, the private sector, and the public.

Learn More: <https://itrcweb.org/about/about>

ITRC Who we are

Innovative Technologies and Approaches



Barriers to use:

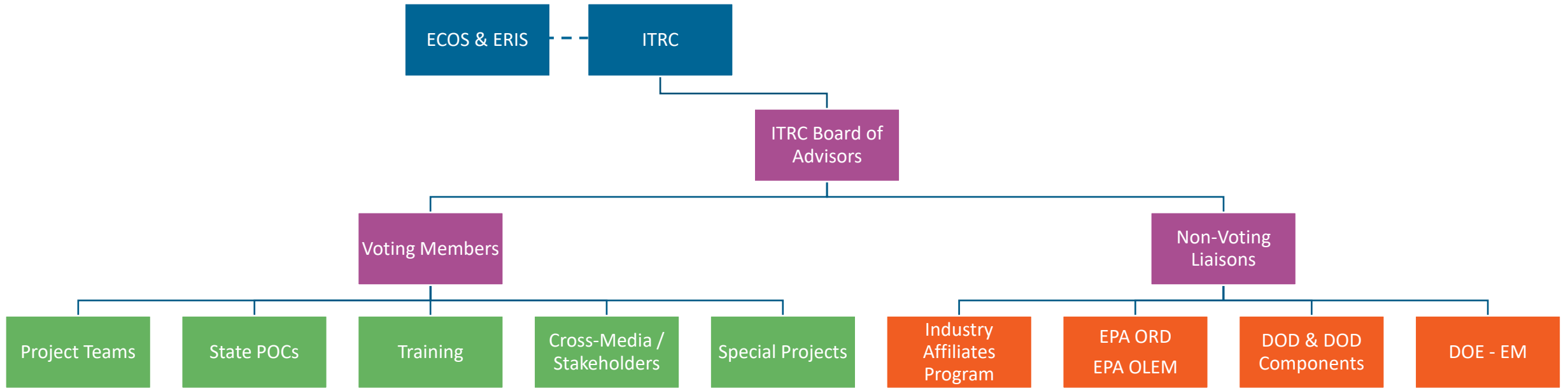
- Lack of knowledge/trust
- Differing procedures
- Pre-specified approaches
- Institutional resistance



- Faster acceptance of innovative technologies
- Better decision making
- Reduced permitting/review time
- Decreased compliance costs
- Harmonized state approaches

Develop documents and training to provide states and others with technical knowledge and best management practices to address environmental challenges.

ITRC Organizational Structure



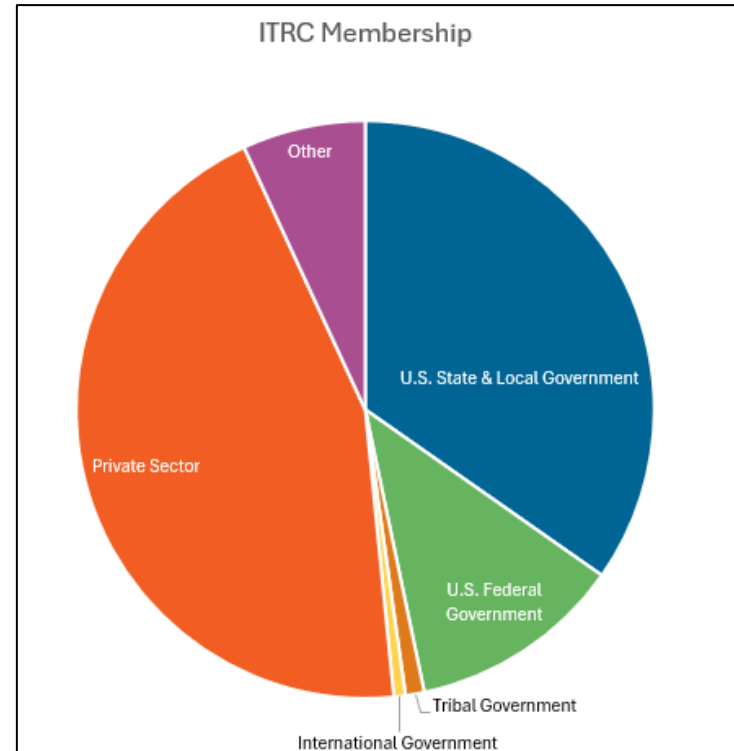
Learn More: <https://itrcweb.org/about/boardofadvisors>

Membership: ~1,200

ITRC members can be a state or federal regulatory, federal agency representative, industry expert, community stakeholder, or academic. They are individuals with subject matter expertise or interest in the project subject area who provide skills and resources to produce the goals and outputs for each project.

Learn More:

- <https://itrcweb.org/membership/details>
- <https://itrcweb.org/membership/iap>



State & Local Government	429
State Government	388
City/Local Government	41
U.S. Government	148
U.S. EPA	61
U.S. DOD	50
U.S. DOE	11
Other U.S. Federal Agency	26
Tribal Government	13
International Government	10
Private Sector	552
U.S. Industry	547
International Industry	5
Other	85
Academic	59
Public Stakeholder	14
Emeritus Stakeholder	12

State Engagement Program (SEP)

- Network of the ITRC State Points of Contact (POCs) – one per state
- Promotes ITRC documents and training courses with state environmental agencies and other local stakeholders
- Solicits topics and priorities for future projects for Board of Advisors

Find your State POC: <https://itrcweb.org/about/state-engagement>

Fulfilling Our Mission – Project Teams

Mission:

Develop products to provide the knowledge and skills to address environmental challenges.

ITRC Project Team Process



Questions about ITRC?



Our Resources



Content credentials ⓘ

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ITRC Resources to Date



147 Documents

<https://itrcweb.org/guidance>



In-Person Training
99 Web-based Trainings
34 Training Videos

<https://itrcweb.org/events/calendar>



Over 200,000 Trained

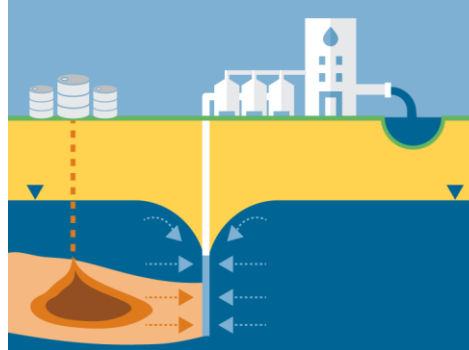
<https://clu-in.org/live/archive/>

ITRC Resources - Examples



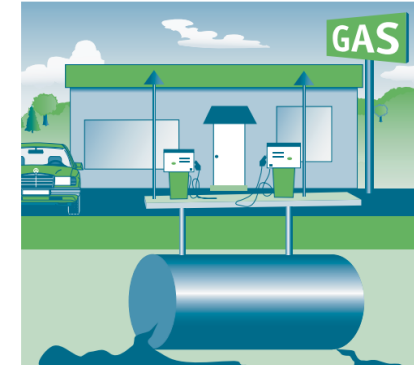
Emerging Contaminants

<https://itrcweb.org/teams/projects/emerging-contaminants>



Petroleum

<https://itrcweb.org/teams/projects/petroleum-topics>



Remediation Optimization

<https://itrcweb.org/teams/projects/remediation-optimization-verification>

Evaluating Innovative Methane Detection Technologies

Released in 2018: <https://methane-1.itrcweb.org/>

Summary:

- An overview of existing and emerging methane detection technologies and applications for methane leak detection and emissions reduction in the oil and gas industry
- Users can evaluate, compare, and select technologies to comply with regulations, reduce emissions, assist with inventory monitoring and reporting, and enhance safety.



Technologies Table:

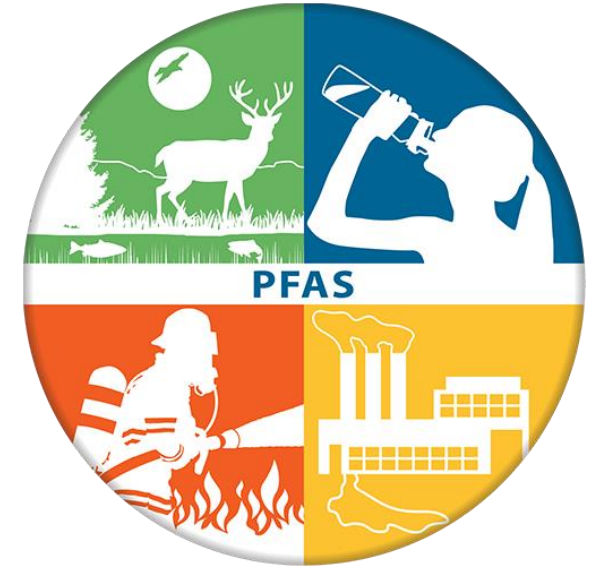
https://methane-1.itrcweb.org/wp-content/uploads/2018/09/Table-5_Tech_Summarizing_Examples_Technologies.pdf

PFAS Technical & Regulatory Guidance

Latest Release, September 2023: <https://pfas-1.itrcweb.org/>

Summary:

- Provides a summary of the current understanding of all aspects of PFAS from a broad perspective.
- Contains:
 - Section 11.1: Air Emissions to Air and Ambient Air
 - Section 12.5: Air Treatment Technologies
 - Section 17-1: Occurrences in outdoor air, indoor air and settled dust, and precipitation
 - Data Table: PFAS Regulations, Guidance, and Advisory Values for PFAS in Air



Training: Explainer Videos, Modules, archived roundtables and more

Coming soon!: PFAS Beyond the Basics: Sampling, Analysis, & Air Insights (CLU-IN)

Case Study: Ethylene Oxide (EtO) Team

Mission:

Develop products to provide the knowledge and skills to address environmental challenges.

ITRC Project Team Process



Case Study: Ethylene Oxide (EtO) Team



- Project Proposal Development
- Proposal Review and Selection
- Project Funding
- Form Leadership Team
- Initial Project Scoping

Summer – Fall 2021:

- ▶ ITRC announces request for 2022 Project Proposals
- ▶ “EtO Emissions” proposal submitted; ITRC Board recommends project
- ▶ ERIS Board approves project and budget for new EtO Team
- ▶ Team Leaders selected – thank you April Lazzaro (MI) and Keisha Long (SC)!
- ▶ Project Scoping begins

Case Study: Ethylene Oxide (EtO) Team



Winter – Spring 2022:

- ▶ EtO Team announcement and member recruitment and registration begins
- ▶ Team surveys sent to states and partners
- ▶ Project scoping, work plan, and deliverables drafted, reviewed, and finalized
- ▶ Final plans approved by ITRC leadership and product development begins

- Market Project
- Recruit Project Team Members
- Define Final Project Scope
- Define Final Project Deliverables
- Define Work Plan
- Final Annotated Outline

Case Study: Ethylene Oxide (EtO) Team



Spring 2022 – Summer 2023

- ▶ Subgroups formed based on topic areas, expertise, and interest.
- ▶ Product drafts developed collaboratively
- ▶ Several meetings and internal reviews of draft products
- ▶ Formal external review of draft EtO Guidance distributed to the ITRC membership and other interested parties
- ▶ Comments reviewed and Guidance finalized
- ▶ Training development begins

- Continue Recruitment
- Conduct Research and Draft Deliverables
- Internal and Formal External Reviews
- Finalize Project Deliverables
- Begin Training Development

Case Study: Ethylene Oxide (EtO) Team



Fall – Winter 2023

- ▶ Final EtO Guidance Released! <https://eto-1.itrcweb.org/>
 - Inform regulators, provide an understanding about EtO characteristics, sampling and analysis, and health effects, and assist with risk communication
 - EtO Properties, Uses and Sources, Emissions Control, Sampling and Analysis, Community Engagement
- ▶ EtO Training Developed!

- Release Final Project Deliverables
- Finalize Training Resources
- Execute Project Training

EtO Training - NEW

EtO & What You Need to Know February 20, 2024: 1:00 pm est

- Characteristics of EtO
- Explanation of health hazards
- Best practices for sampling and analyzing EtO concentrations
- Best practices for community outreach and engaging with stakeholders

<https://itrcweb.org/events/eto-training>

REGISTER
NOW
NEW ETO
TRAINING!



The ITRC Ethylene Oxide (EtO) Emissions Guidance Document was developed to support the evolution of EtO understanding in recent years.

📅 Tuesday, February 20, 2024
🕒 1:00 PM - 2:30 PM EST

Learn about:
Characteristics of EtO
Explanation of Community Stakeholders & Communications
EtO Regulations

MEET OUR PANELISTS:



April Lazarro
Michigan EGLE



Keisha Long
South Carolina DHEC



Eric Rowland
Delaware DNREC



DeAnna Oser
Georgia DNR



Jaime Gore
Georgia DNR



Lia Beckley
GSI Environmental Inc.

Current Project Teams & Upcoming Trainings



[CEC Biologicals](#)



[PFAS](#)



[Vapor Intrusion \(VI\)
Pathway and Evaluation
Mitigation](#)



[Climate Workgroup](#)



[Passive Sampling
Technology Update](#)



[Tire Anti-degradants
\(6PPD\)](#)



[Reuse of Solid Mining Waste](#)

<https://itrcweb.org/teams/active>

Managed Aquifer Recharge (MAR)

EtO

Microplastics

PFAS Introductory & Advanced Trainings

1,4-Dioxane

Vapor Intrusion Mitigation

Environmental Data Management (multiple)

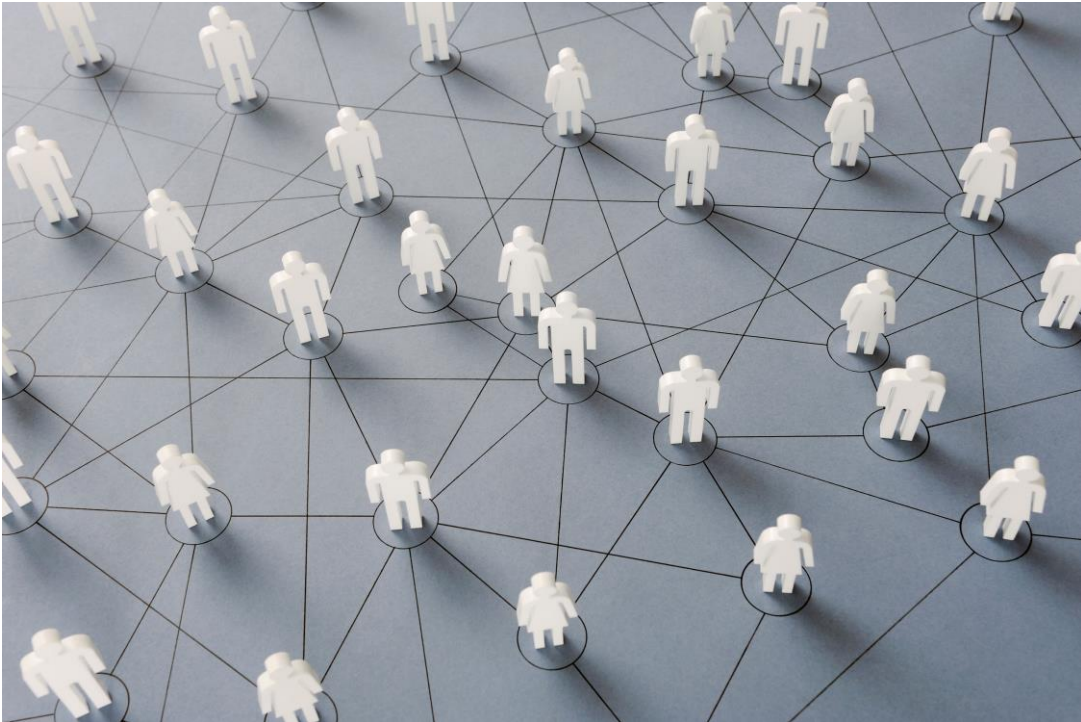
Sustainable Resilient Remediation

<https://itrcweb.org/events/calendar>

Questions about our Resources?



Collaboration



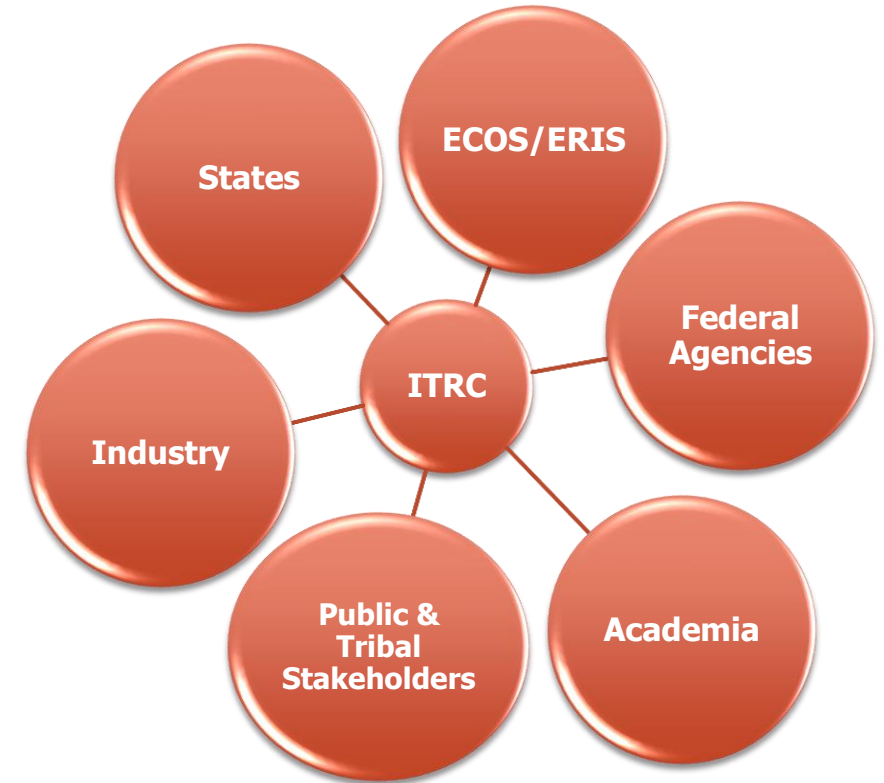
Membership: ~1,200

- ▶ Organization: ECOS, ERIS
- ▶ State Network: 49 states, PR, DC
- ▶ Federal Funding Partners: DOD, DOE, EPA
- ▶ Industry Affiliates Program (IAP):
<https://itrcweb.org/membership/iap>
- ▶ Other U.S. Federal Agencies
- ▶ Tribal, Regional, Local, International Governments
- ▶ Academia
- ▶ Public Stakeholders

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Become an ITRC Team Member

- ▶ **FREE** for state and federal agencies and employees
- ▶ Participate in Team meetings – virtual and in-person
- ▶ Write and review documents; develop and deliver training
- ▶ Learn from and network with environmental professionals
- ▶ Leadership and professional development opportunities



Learn More: <https://itrcweb.org/membership/details>

ITRC Resources & Education

▶ **Guidance & Resources:** <https://itrcweb.org/guidance>

▶ **Training:**

- Upcoming Training (via CLU-IN): <https://itrcweb.org/events/calendar>
- Recorded Videos & Archives: <https://www.youtube.com/@itrc-environment>
- CLU-IN Archives: <https://clu-in.org/live/archive/default.cfm?display=all&group=itrc>
- In-person Requests: Contact Charles Reyes: creyes@ecos.org

Thank you!

Questions?

Charles Reyes, ITRC Director,
creyes@ecos.org, 202-266-4939

ITRC Leadership & Staff:

<https://itrcweb.org/about/contact>

