



**IBTTA**  
TOLLING. MOVING SMARTER.



# Sustainability & Resilience Task Force Meeting

May 2, 2022

# Upcoming Events



**ROAD USAGE CHARGING & FINANCE  
SUMMIT**  
May 15 - 17, 2022  
Denver, CO



**MAINTENANCE, ENGINEERING &  
ROADWAY OPERATIONS WORKSHOP**  
June 26-28, 2022  
Cleveland, OH



**90<sup>th</sup> ANNUAL MEETING & EXHIBITION**  
September 18-20, 2022  
Austin, TX



# It's IBTTA Awards Season



## TOLL EXCELLENCE AWARDS



IBTTA's Toll Excellence Awards recognize the very best projects and programs the international tolling industry has to offer. Each year, we celebrate IBTTA toll agency/operator and private sector members whose creative, innovative, and positive programs set a new standard of excellence. By providing wide recognition for a job well done, the Toll Excellence Awards speed up the transmission of new ideas and emerging practices throughout the industry and to the driving public.

***Application deadline is May 16, 2022***

### Award Categories for Public Sector Members

- **Administration & Finance:** This category is for projects or programs related to administration, **finance**, human resources, **law**, **risk management**, **project procurement**, **policy** and government relations.
- **Customer Service & Marketing Outreach:** This category is for projects or programs related to **communications**, **marketing**, **social media**, **public relations**, **public outreach**, **business development** and **concessions**.
- **Safety:** This category is for projects or programs related to roadway, workforce, customers, or facility safety. **Social Responsibility:** This category is for projects or programs related to **social responsibility**, community involvement, **environmental mitigation**, transportation equity and **public education**.
- **Technology:** This category is for projects or programs related to electronic toll collection, intelligent transportation systems, **information technology**, **road technology**, mobile/payment applications, cyber security and communications systems.
- **Toll Operations, Engineering & Maintenance:** This category is for projects or programs related to toll operations, customer service centers and engineering maintenance.

# Today's Agenda

1. Welcome
2. U.S. Federal and International Updates
  - a. Federal Climate Action Programs
  - b. Updates from International Members
3. Sustainability & Resilience Task Force Website
4. Future Task Force Actions
  - a. Austin Annual Meeting - Session Planning
  - b. Development of an RFI for S&R Technology, Products and Services
  - c. Private Organizations Recruitment
  - d. Webinar Series and Member Communications Ideas and Schedule
5. Task Force Subcommittees: Brief Reports from Subcommittee Leaders
  - a. Performance Measurement & Metrics – Pedro Costa
  - b. Vehicle Electrification & Alternative Fuels – Christine Weydig
  - c. Policy & Engagement – Mark Muriello



# Federal Climate Action Program Announcements

Carbon Reduction Program

FHWA Electric Vehicle communications

Federal Flex Funding Website

Quantifying Emissions of Sustainable Pavements

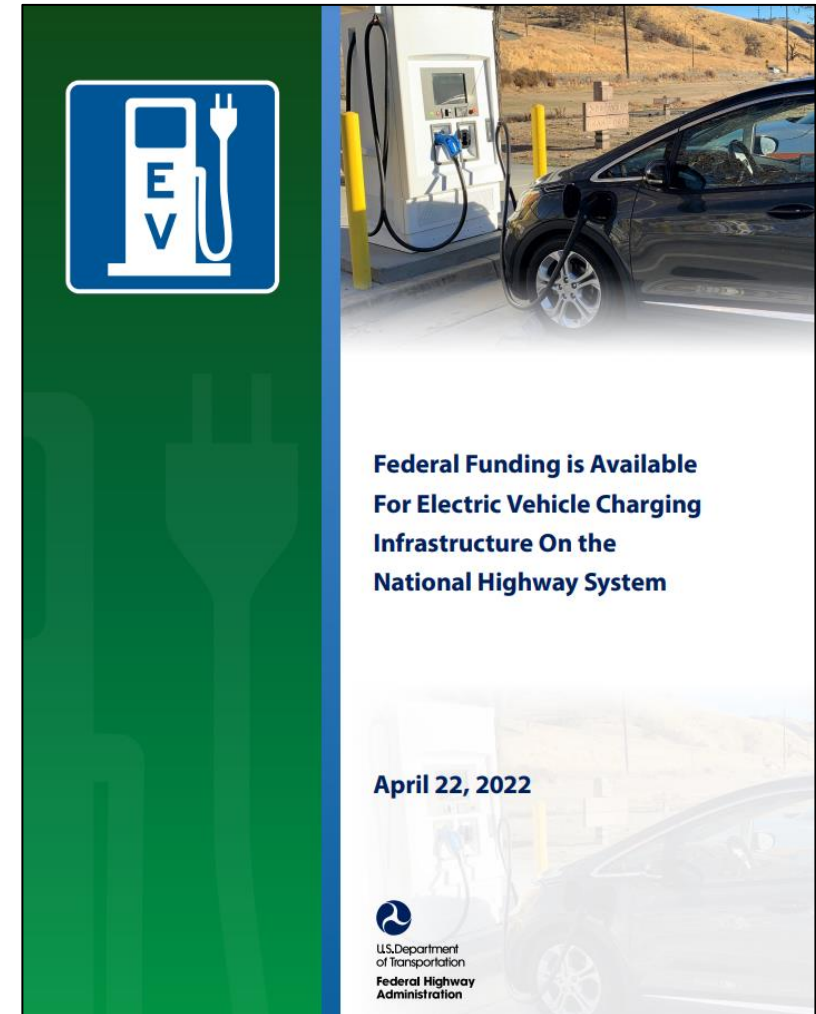
# Congestion Reduction Program (CRP)

- \$6.4 billion in formula funding to states over the next five years under the Bipartisan Infrastructure Law
- Wide project eligibility to reduce CO<sub>2</sub> from on-road sources including:
  - Zero-emission vehicles and facilities
  - Congestion pricing and travel demand strategies
  - Freight electrification (e.g., truck stop, port facilities, etc.)
  - Public transportation projects (e.g., BRT corridors or dedicated bus lanes)
  - Micro-mobility including charging infrastructure
- Requires state carbon reduction plans in consultation with MPOs
  - States and localities may begin using CRP funds before plans are developed and reviewed

# FHWA Electric Vehicle Information

[https://www.fhwa.dot.gov/environment/alternative\\_fuel\\_corridors/resources/ev\\_funding\\_report\\_2022.pdf](https://www.fhwa.dot.gov/environment/alternative_fuel_corridors/resources/ev_funding_report_2022.pdf)

- FHWA brochure – ***Federal Funding is Available for Electric Vehicle Charging Infrastructure on the National Highway System***
- How to access funding opportunities for charging infrastructure
- US DOT Funding and Finance Programs with EV Eligibilities
- Highlights analysis tools and resources



# Rich Data Resources for State EV Planning

← → ↻ [hepgis.fhwa.dot.gov/fhwagis/ViewMap.aspx?map=Highway+Information|Electric+Vehicle+\(EV-Round+1,2,3,4+and+5\)](https://hepgis.fhwa.dot.gov/fhwagis/ViewMap.aspx?map=Highway+Information|Electric+Vehicle+(EV-Round+1,2,3,4+and+5)) ↗ ☆ ⚙ □ M ⋮

IBTTA | Internationa... Gmail Maps YouTube Amazon.com: Prim... HBO Max SHOWTIME ANYTI... CNNgo House Climate Yahoo Mail



Planning, Environment, Realty (HEP)  
**HEPGIS**  
Help | About | Sources | Contact

**Alternative Fuel Corridors** | Highway System | Fatal Crashes | **2020 Census & Equity Analysis** | MPO & Air Quality | Border Flows / FAF4  
Find Map | Find Location | Points Of Interest Map | Print Map | Print Table | Download Table | Email Page | Accessible Version | Downloads | **Project Equity-STEAP** | What's New

## Electric Vehicle (EV-Round 1,2,3,4 and 5)



Sources Legend Data Layers

**Alternative Fuel Corridors**  
— EV - Corridor Ready  
- - - EV - Corridor Pending  
0 200 400 600  
Miles

[Go To Layers to turn on Fuel Stations](#)

For information and comments about this web site, contact Supin Yoder

Powered by [TransCAD for the Web](#)

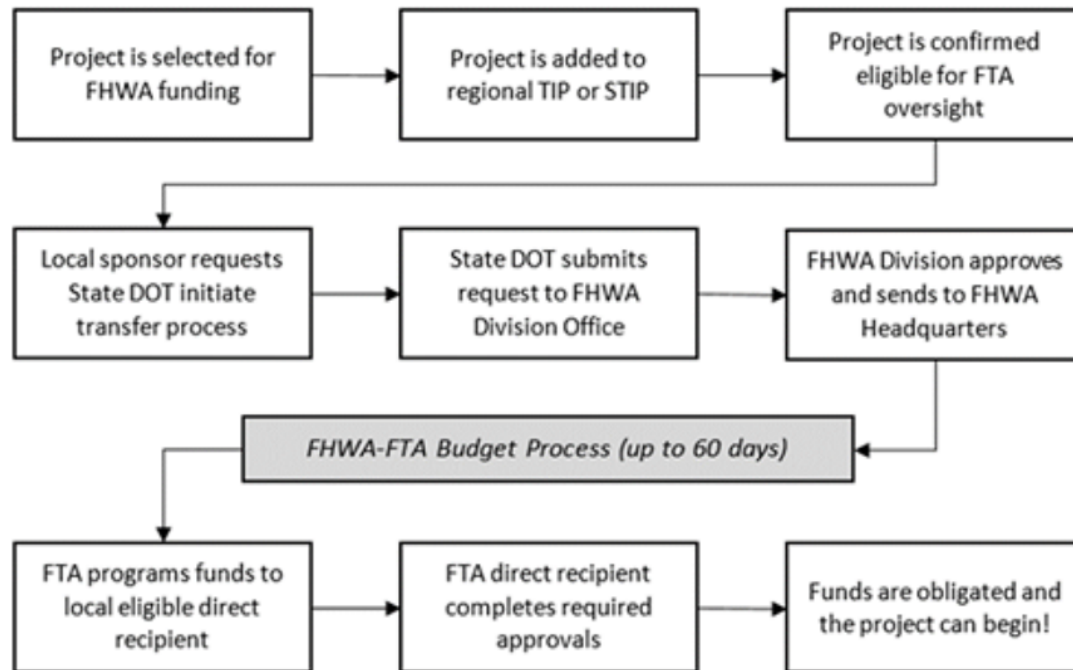
Map Scale: 1 : 19,903,036 Width: 4,204 Miles



# Federal Flexible Funding Website

<https://www.planning.dot.gov/flex.aspx>

## *Flex Funding Process Flow Chart*



The transfer request uses [FHWA Form 1575](#). For further details, use this [detailed flow chart](#).

- FHWA – FTA partnership in joint Flex Funding Website
- Launched last week to help states use flexible federal funding and multiple programs
- Encourage multi-modal highway-transit projects and public transportation investments that reduce single-occupancy vehicle travel and air pollution on congested highways

# Quantifying Emissions of Sustainable Pavements

<https://www.fhwa.dot.gov/infrastructure/climatechallenge/about.cfm>

- FHWA “climate challenge” on Quantifying Emissions of Sustainable Pavements seeks to improve sustainability of pavement and work towards net-zero emissions.
- Aimed at reducing GHG emissions from construction pavement materials by encouraging sustainable pavement practices and quantification of impacts.
- Environmental Product Declarations (EPDs) and life cycle assessments (LCAs) can be used to communicate environmental impacts and quantify GHG emissions from materials and practices for the design, construction, and maintenance of pavement.
- Addresses concerns of agencies/industry, (e.g., data gaps, implementation assistance).

## Resources:

- [Executive Order 14057](#), *Catalyzing Clean Energy Industries and Jobs Through Federal Sustainability*.
- [FHWA LCA Pave Tool](#) and the [Environmental Product Declaration Tech Brief](#)

An aerial photograph of a dense evergreen forest, likely a spruce or fir forest, with a uniform canopy of green trees. The perspective is from directly above, showing the repetitive pattern of the tree crowns.

# International Updates

# Sustainability & Resilience Task Force Web Site Preview

**IBTTA** | Representing the worldwide tolling industry  
TOLLING. MOVING SMARTER. | HOME | MY ACCOUNT | INDUSTRY OPPORTUNITIES | CONTACT US | LOGOUT

ABOUT US | MEMBERSHIP | EVENTS | ADVOCACY | TOLLMINER™ | RESOURCES | NEWS & MEDIA | FOUNDATION

## TOLLING. MOVING SMARTER.

### TOLLING TODAY

- ▶ The IBTTA nominating committee is now accepting applications for board service in 2023.
- ▶ Check it Out—Award Season is Here! Now Accepting Applications and Nominations for ALL IBTTA Awards.
- ▶ Proud members of IBTTA invite HBCU students to apply for the Foundation Scholarship!
- ▶ Register Today for RUC & Finance Conference - Check the Agenda and See Who's Coming!

### EVENTS

- ▶ Cybersecurity Insurance  
May 03 | 11:00am ET | Webinar
- ▶ Café IBTTA  
May 11 | 11:00am ET | Webinar
- ▶ Spring Board of Directors & Committee Meetings  
May 13 | In-Person

[View All Events >](#)

### NEWS & INFO

**TOLLMINER™** - IBTTA'S DATA VISUALIZATION TOOL  
NEW - Check out our Congressional Outreach Tool  
MEMBERS ONLY

**EVERY WEDNESDAY**  
**Café IBTTA**  
ONLINE EVENT | 11:00 AM ET

**BLOG**  
**IBTTA and Earth Day - Moving the Toll Industry to Sustainable and Resilient Mobility**  
MARK MURIELLO, DIRECTOR OF POLICY AND GOVERNMENT AFFAIRS, IBTTA  
APRIL 24, 2022

**IBTTA SmartBrief**  
TODAY'S ISSUE  
Daily News for the Tolling Industry  
SUBSCRIBE TODAY!

**REGISTER TODAY!**  
**CYBERSECURITY INSURANCE**  
TUESDAY, MAY 3, 2022

# SUSTAINABILITY AND RESILIENCE TASK FORCE

## ABOUT THE TASK FORCE

The purpose of the Sustainability and Resilience Task Force is to organize the ideas, resources, and efforts of IBTTA members and others in the transportation industry to strengthen the sustainability and resilience of the transportation network and reverse the effects of climate change.

The IBTTA community recognizes the harmful effects of climate change and the transportation industry's role in addressing objectives to care for the environment and manage the consequence of years of neglect. Our Task Force on Sustainability and Resilience is:

- sharing best practices from both US and international operators;
- exploring ways to advance alternative fuels and renewable energy in toll facility operations, including augmenting national electric vehicle (EV) charging infrastructure;
- researching the use of performance management and metrics to drive attainment of environmental objectives and outcomes, and shape wise investment priorities; and
- seeking partnerships to establish guidelines and tools for mitigating climate change and enhancing resiliency of critical assets and systems.

## Task Force Leadership and Members



**Co-Chair**

✉ [Pedro Costa](#)  
Northwest Parkway

Bio



**Co-Chair**

✉ [Christine Weydig](#)  
Port Authority of NY & NJ

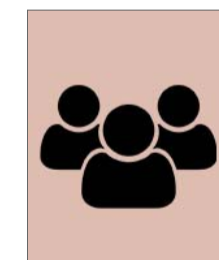
*Bio forthcoming*



**Co-Chair**

✉ [Steve Snider](#)  
Halifax Harbour Bridges

Bio



**Members**

View



### Committee Members

- David Abraham, Harris County Toll Road Authority
- Jose Ballesteros, ROADIS Transportation Holding S.L.U.
- Matthew Click, HNTB Corporation
- Bruno de la Fuente, SEOPAN (Asociación de Empresas Constructoras y Concesionarias de Infraestructuras)
- Wanda DeVargas, E-470 Public Highway Authority
- Casey Emoto, Santa Clara Valley Transportation Authority
- Doug Feremenga, Transportation Corridor Agencies
- Bob Frey, Tampa-Hillsborough Expressway Authority
- Noémie Frontère, ASFA (Association Professionnelle Autoroutes et Ouvrages à Péage)
- Amitis Meshkani, North Texas Tollway Authority
- René Moser, ASFINAG
- Mark Muriello International Bridge, Tunnel and Turnpike Association
- Olivier Quoy, Atlandes
- Jeff Seward, Tampa-Hillsborough Expressway Authority
- Emanuela Stocchi, AISCAT (Associazione Italiana Società Concessionarie Autostrade e Trafori)
- Ulli Vielhaber, ASFINAG
- Geraldine Walsh, Transport Infrastructure Ireland

### Alternates

- Christina Jaworski, Santa Clara Valley Transportation Authority
- Mike McFeters, Halifax Harbour Bridges
- Steve Proctor, Halifax Harbour Bridges
- Jorge Sanchez Racionero, ROADIS Transportation Holding S.L.U.
- Marina Garcia Riege, ROADIS Transportation Holding S.L.U.

### Staff Liaison

[Mark Muriello, IBTTA](#)

## TASK FORCE

MONTHLY TASK FORCE MEETING | APRIL 4, 2022



Representing  
the worldwide  
tolling industry

### Task Force Spotlight



### Task Force Organization, Subcommittees, Presentations and Resources

- + Sustainability & Resilience Subcommittees
- + Presentations and Resources
- + IBTTA Reports and Resources
- + Library of Reports and Resources
- + Useful Industry Links



Representing  
the worldwide  
tolling industry

## Task Force Organization, Subcommittees, Presentations and Resources

### ⊖ Sustainability & Resilience Subcommittees

#### Performance Measurement and Metrics

This subcommittee seeks to use data and performance measures to drive program development and decision making. The subcommittee subscribes to the basic idea that "We cannot fix what we cannot measure." The initial work is addressing emissions valuations, key performance measures (KPIs), and ESG (environmental, social and governance) criteria. With an overall objective of identifying and sharing best practices for IBTTA members, the subcommittee will be working to assist members in identifying and knowing the business carbon footprint, sources, and impacts. By understanding the baseline (starting point) and establishing an emissions reduction goal, organizations can adopt a roadmap towards a carbon-neutral future.

#### Vehicle Electrification and Alternative Fuels

This subcommittee focuses on electric vehicle (EV) adoption and charging infrastructure deployment, as well as the adoption of other low emission alternative fuels, such as hydrogen, propane, and compressed natural gas. Initial efforts aim to increase IBTTA members' understanding and awareness of the impacts and opportunities of vehicle electrification and alternative fuels through business cases and benefit-cost analyses. The subcommittee will identify guidance and best practices in project prioritization and selection, project development, partnership opportunities and engagement, and risk analysis and management strategies. The efforts are intended to help the toll operators make wise investments and create customer value.

#### Policy and Engagement Subcommittee

This subcommittee supports the overall work of the Task Force through programs that advance sustainability and resilience education and information exchange. The initial work plan includes establishing a strong presence on the ibtta.org website, creating a library of policies, documents, and resources, and developing a program of events and content at IBTTA meetings to maintain focus and momentum on climate action and resiliency for the IBTTA community. This subcommittee will also help members navigate through sustainability and resilience legislation and regulations and identify opportunities and access to grants and other resources. This subcommittee will identify potential partnership opportunities for members with relevant vendors, service providers, and technical experts to support solid business approaches and service delivery.

### ⊕ Presentations and Resources

### ⊕ IBTTA Reports and Resources

### ⊕ Library of Reports and Resources





Representing the worldwide tolling industry

HOME | MY ACCOUNT | INDUSTRY OPPORTUNITIES | CONTACT US | LOGOUT

Presentations and Resources

Special Events

- Meeting with Andrew Wishna, USDOT Deputy Assistant Secretary for Climate Policy

Sustainability & Resilience Task Force Meeting Materials

- 2022-0404 SRTF Meeting
- 2022-0307 SRTF Meeting
- 2021-1206 SRTF Meeting
- 2021-0614 SRTF Workshop Meeting Report
- 2021-0510 SRTF Meeting

Performance Metrics and Data (PM&D) Subcommittee Meeting Materials

- 2022-03-28 Meeting - Northwest Parkway Slides
- 2022-03-28 Meeting - Santa Clara VTA Slides

Vehicle Electrification and Alternative Fuels Subcommittee Meeting Materials

- No documents at this time.

Policy & Engagement Subcommittee Meeting Materials

- No documents at this time.

IBTTA Reports and Resources

Library of Reports and Resources

Useful Industry Links



Representing the worldwide tolling industry


+ Presentations and Resources

- IBTTA Reports and Resources





- [An Overview and Resource Guide for the U.S. National Electric Vehicle Infrastructure Formula Program for the Toll Industry](#), IBTTA, March 2022
- [Summary of IBTTA Member Survey Results: Electric Vehicle and Charging Infrastructure Survey](#), IBTTA, September 2021

- Library of Reports and Resources

- [AISCAT Sustainability Report 2019 Data, 1st edition, 2021](#)
- [AISCAT Sustainability Report 2020 Data, 2nd edition, 2022](#)
- [Analysis of Green Bond Financing in the Public Transportation Industry \(2021\)](#), TCRP Research Report 222, National Academies of Sciences, Engineering, and Medicine, 2021.
- [Assessment of Technologies for Improving Light-Duty Vehicle Fuel Economy—2025-2035](#), National Academies of Sciences, Engineering, and Medicine, 2021. The National Academies Press.
- [Eight Steps to Identify Environmental Characteristics and Environmental Influences of Your Organization's Operations](#), Federal Transit Administration, March 2021.
- [FTA Guidebook of Best Management Practices for the Development of an Environmental and Sustainability Management System \(ESMS\)](#), Federal Transit Administration, March 2021.
- [Investing in Transportation Resilience: A Framework for Informed Choices](#), TRB Special Report 340: 2021.
- [Mainstreaming System Resilience Concepts into Transportation Agencies: A Guide](#). Pre-publication draft of NCHRP Research Report 970, Dorney, C., M. Flood, T. Grose, P. Hammond, M. Meyer, R. Miller, E. R. Frazier, Sr., J. L. Western, Y. J. Nakanishi, P. M. Auza, and J. Betak. Transportation Research Board, 2021.
- [Methods for State DOTs to Reduce Greenhouse Gas Emissions from the Transportation Sector \(2022\)](#), NCHRP Web-Only Document 308, National Academies Press
- [Three Elements for Sustaining Your Environmental and Sustainability Management System \(ESMS\)](#), Federal Transit Administration, August 2020.
- [Understanding Transportation Resilience: A 2016–2018 Roadmap for Security, Emergency Management, and Infrastructure Protection in Transportation Resilience](#), AASHTO, January 2017

 Useful Industry Links

## Electric Vehicles and Charging Infrastructure

- [US Joint Office of Energy and Transportation – Guidelines, Requirements, and Resources for the National Electric Vehicle Program and Grants](#) 
- [Charging Infrastructure Operation and Maintenance](#) 
- [Charging Infrastructure Procurement and Installation](#) 
- [Developing Infrastructure to Charge Plug-In Electric Vehicles](#) 

## GHG Impacts and Emissions Reduction

- [Sources of Greenhouse Gas Emissions - US Environmental Protection Agency](#) 
- [GHG s Reduction Programs & Strategies Resources - US Environmental Protection Agency](#) 
- [US EPA Simplified GHG Emissions Calculator \(SGEC\)](#) 



## US Environmental Protection Agency (US EPA) Resources

US EPA is committed to protecting human health and the environment for all people, with an emphasis on historically overburdened and underserved communities. EPA's *Strategic Plan* includes a new strategic goal focused solely on addressing climate change and an unprecedented goal to advance environmental justice and civil rights.

- [US EPA Greenhouse Gas \(GHG\) Emissions and Removals](#) 
- [Sources of Greenhouse Gas Emissions - US Environmental Protection Agency](#) 
- [GHG s Reduction Programs & Strategies Resources - US Environmental Protection Agency](#) 
- [US EPA Simplified GHG Emissions Calculator \(SGEC\)](#) 

## Intergovernmental Panel on Climate Change (IPCC)

The Intergovernmental Panel on Climate Change (IPCC) is the international body for assessing the science related to climate change. The IPCC was set up in 1988 by the World Meteorological Organization (WMO) and United Nations Environment Programme (UNEP) to provide policymakers with regular assessments of the scientific basis of climate change, its impacts and future risks, and options for adaptation and mitigation.

- IPCC comprehensive Assessment Reports about the state of scientific, technical and socio-economic knowledge on climate change, its impacts and future risks, and options for reducing the rate at which climate change is taking place. IPCC is working on the [Sixth Assessment Report](#)  which consists of three Working Group contributions and a Synthesis Report. The [Working Group I](#)  report was finalized in August 2021 and the Working Group II report in February 2022.



**IBYTA**  
**AUSTIN★2022**  
90<sup>TH</sup> ANNUAL MEETING & EXHIBITION

Environment  
and Climate  
Change  
Session  
Proposals



# Task Force Discussion: Future Actions

Development of an RFI for S&R Technology, Products and Services

Recruitment of private sector participation from IBTTA Membership & External Engagement

- Council of Platinum Sponsors
- Emerging Technologies Committee
- International Committee
- International Road Federation (IRF)
- Global Reporting Initiative (GRI)
- UN Global Compact

Webinar Series and Member Communications



# Subcommittee Reports



- Policy & Engagement (Mark Muriello)
- Vehicle Electrification and Alternative Fuels (Christine Weydig)
- Performance Measurement and Metrics (Pedro Costa)



# Performance Measurement and Metrics Subcommittee

- Using Performance Measurement, Metrics and Data to Drive Program Development
  - Emissions Valuation
  - S&R KPIs and Best Practices
  - ESG Reporting

<b>Chair:</b>	<b>Pedro</b>	<b>Costa</b>	<b>Northwest Parkway LLC</b>
<b>Members:</b>	Jose	Ballesteros	ROADIS Transportation Holding S.L.U.
	Casey	Emoto	Santa Clara Valley Transportation Authority
	Noémie	Frontère	ASFA (Association Professionnelle Autoroutes et Ouvrages à Péage)
	Mike	McFeters	Halifax Harbour Bridges
	Olivier	Quoy	Atlandes
	Ulli	Vielhaber	ASFINAG
<b>Alternates:</b>	Jorge	Sanchez Racionero	ROADIS Transportation Holding S.L.U.
	Marina	Garcia Riege	ROADIS Transportation Holding S.L.U.
	Christina	Jaworski	Santa Clara Valley Transportation Authority

- Initial meeting help March 28, 2022
  - Presentation by Pedro Costa on Northwest Parkway's carbon footprint report
  - Presentation by Christina Jaworski on Santa Clara Valley Transportation Authority's Sustainability Program, including goals and key performance indicators.

# Vehicle Electrification and Alternative Fuels Subcommittee

- Vehicle Electrification and Alternative Fuels
  - EV Adoption and Charging Infrastructure Deployment
  - The Future of Other Alternative Vehicle Fuels

<b>Chair:</b>	<b>Christine</b>	<b>Weydig</b>	<b>Port Authority of New York &amp; New Jersey</b>
Members:	Bob	Frey	Tampa-Hillsborough Expressway Authority
	Amitis	Meshkani	North Texas Tollway Authority
	Geraldine	Walsh	Transport Infrastructure Ireland
	Steve	Snider	Halifax Harbour Bridges
	Emanuela	Stocchi	AISCAT (Associazione Italiana Società Concessionarie Autostrade e Trafori)
	Amitis	Meshkani	North Texas Tollway Authority

- Initial meeting held on April 8, 2022.
- Discussion of Subcommittee objectives
- PANYNJ presentation
- Requirements gathering - needs of different sustainability committee stakeholders (vary based on organization assets, scope/services, commercial structure)
- Speaker series - experts, vendors, etc.
- Resources - identification, compilation, organization



# Policy & Engagement Subcommittee

- Policy & Communication
  - Develop Task Force web page and resource library
  - Organize S&R activities within IBTTA events.
  - Assist with S&R legislation, regulation, and resources

<b>Chair:</b>	<b>Mark Muriello</b>	<b>International Bridge, Tunnel and Turnpike Association</b>
<b>Members:</b>	Matt Click	HNTB
	Bruno de la Fuente	SEOPAN (Asociación de Empresas Constructoras y Concesionarias de Infraestructuras)
	Doug Feremenga	Transportation Corridor Agencies
	René Moser	ASFINAG
	Steve Proctor	Halifax Harbour Bridges
	Jeff Seward	Tampa-Hillsborough Expressway Authority

- Initial meeting held on April 13, 2022
- Discussed Subcommittee objectives and activities:
  - a. Task Force website page
  - b. Promote/organize S&R initiatives within IBTTA events
  - c. Develop repository of S&R documents, policies, and other resources
  - d. Develop S&R webinar series for all IBTTA members