

Transmission and Distribution: Environmental Solutions (P51)

Kickoff Meeting



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January 21, 2026

Housekeeping and Recording Disclosure



- Please note today's webcast is being recorded. Your participation provides your consent to the recording.



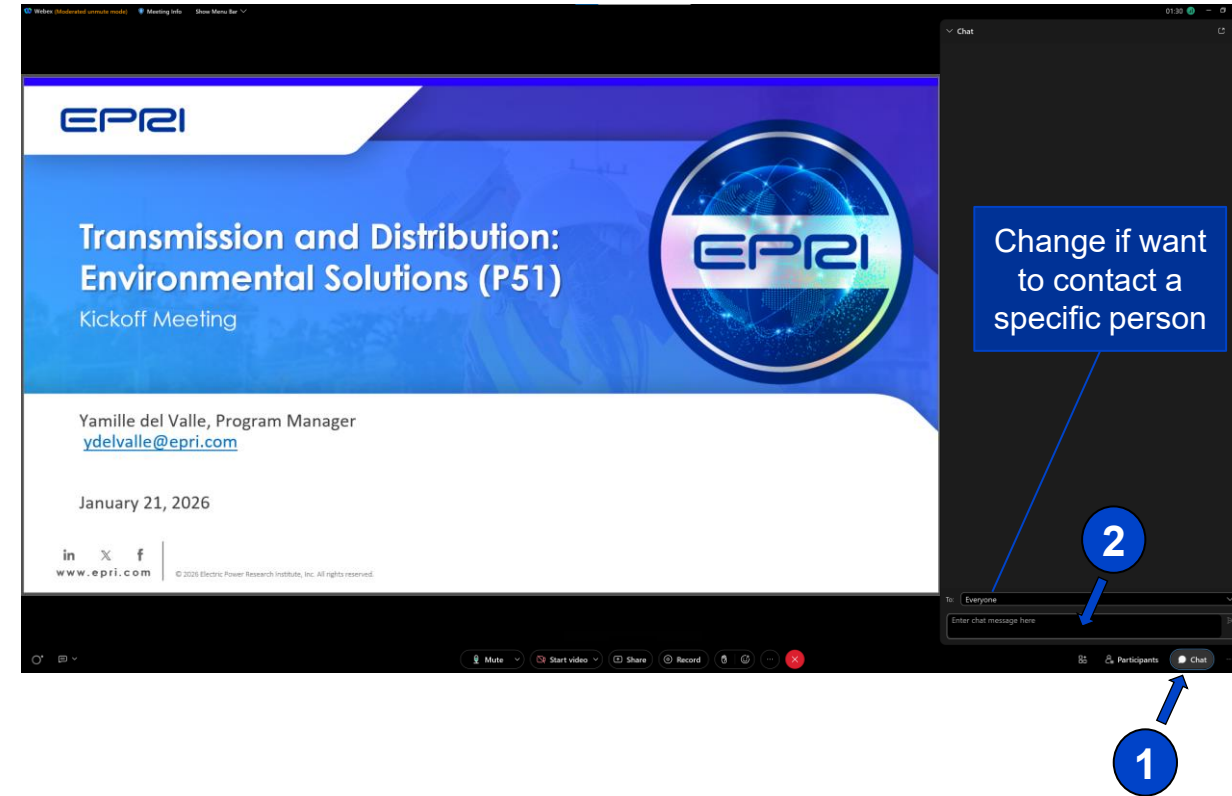
- You have been muted upon entry, but please feel free to unmute and jump into the conversation at any time.



- Questions can be asked throughout the webcast – either directly or using the chat feature.



- We will upload the recording, a PDF of the slide deck, and notes to the P51 website: <https://td-environmental.epri.com/>



Any questions?



SAFETY MOMENT

SAFETY MOMENT: THE IMPORTANCE OF GOOD POSTURE



SOURCE: <https://www.acatoday.org/Patients/Health-Wellness-Information/Posture>

- Helps us keep bones and joints in correct alignment so that our muscles are used correctly, decreasing the abnormal wearing of joint surfaces that could result in degenerative arthritis and joint pain.
- Reduces the stress on the ligaments holding the spinal joints together, minimizing the likelihood of injury.
- Allows muscles to work more efficiently, allowing the body to use less energy and, therefore, preventing muscle fatigue.
- Helps prevent muscle strain, overuse disorders, and even back and muscular pain.

Agenda

2026 Kickoff Webcast

01

Program Scope and Strategy

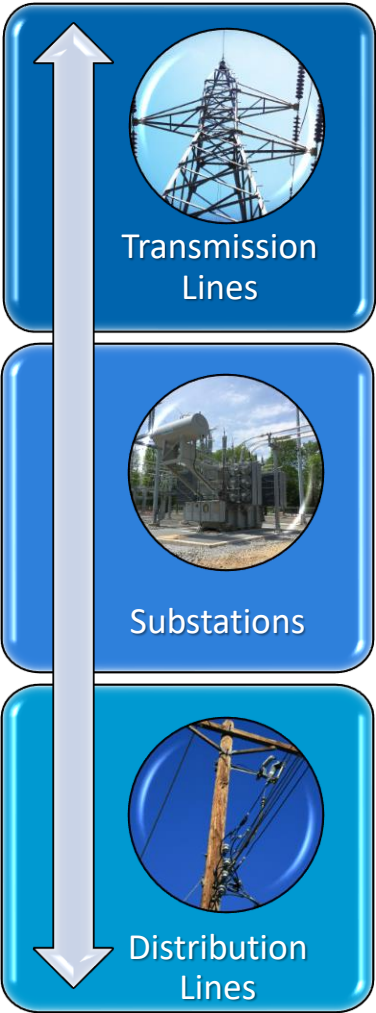
02

2026 Program Plans

03

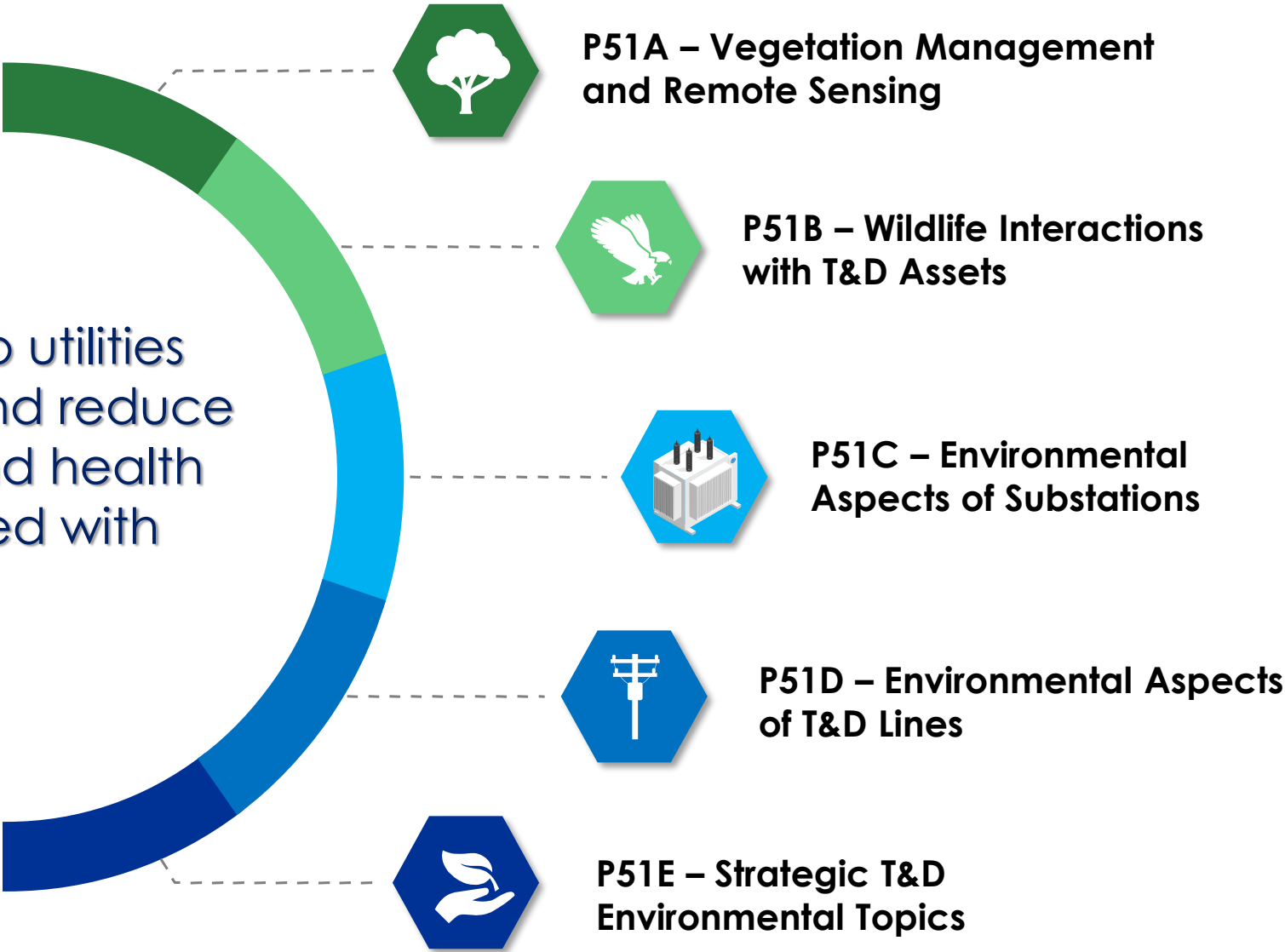
2025 Program Outcomes

Program 51 – T&D Environmental Solutions addresses diverse environmental challenges



Our goal is to help utilities to manage risk and reduce environmental and health impacts associated with T&D assets

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P51 will align with EPRI Vision 2030 while maintaining value and focusing on speed of application



INTEGRATE FOR IMPACT

Bridging sectors and research areas with holistic solutions

- Continue to work with our sister Environmental and Asset Programs



EMBRACE GLOBAL IDENTITY

Increasing impact and potential through global expansion

- Focus on engaging with Canada and Latin America



BROADEN ENGAGEMENT

Expanding within the energy ecosystem

- Expand visibility and contributions to the industry

2026 Motto: Download today, use it tomorrow

P51 is supporting EPRI's AI Transformation for Enabling Vision 2030 and increasing focus on Emergent Technologies



EPRI.AI
A Strategic Intelligence
Backbone for the
Electric Sector



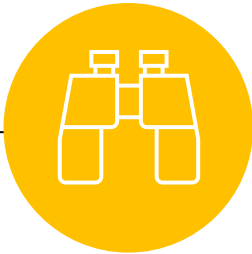
Emerging Tech Platform
Accelerating
Demonstration
to Scale



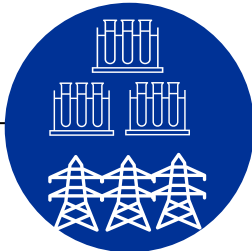
And Beyond
AI Integrated Tools
and Solutions Built off
EPRI R&D



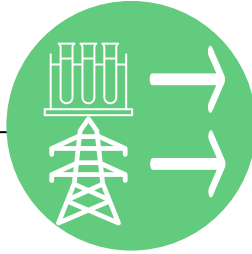
Solutions



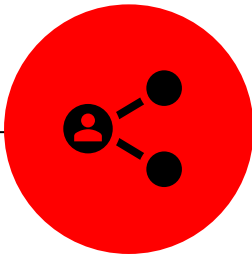
Scout as
Industry



Multi Vendor
Tests / Pilot

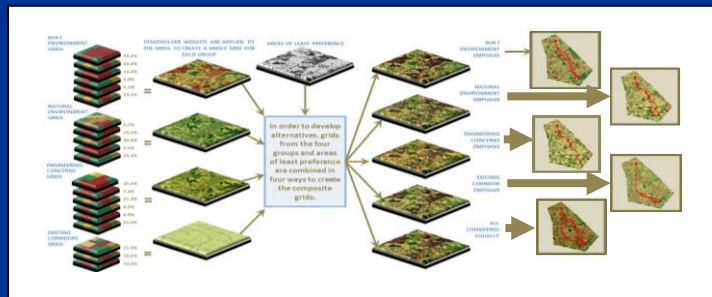


Test & Pilot
in Parallel

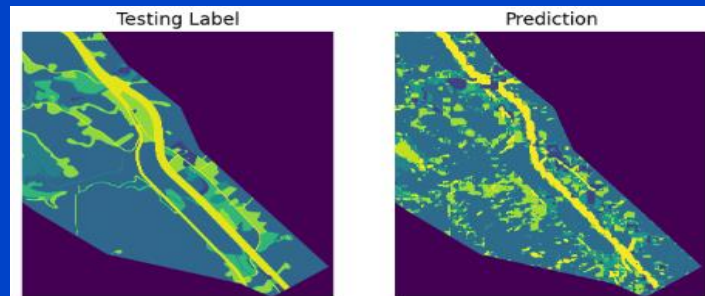


Utility and EPRI
SMEs Collaboration

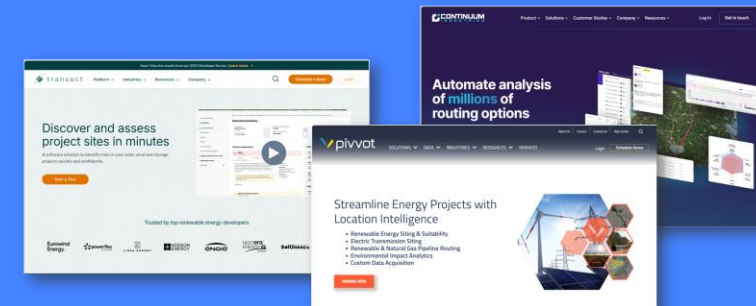
P51 leverages line siting and routing expertise to advance AI applications and technology evaluations



- EPRI-GTC Overhead Electric Transmission Line Siting Methodology
- 2019 Update
- Equity and Environmental Justice Considerations for Electric Power Delivery Infrastructure Siting



- Developed algorithms to interpret Land Use & Land Cover (LULC) from aerial photography
- Feasibility study for cultural resource identification using AI



- New supplemental project to evaluate new line routing AI-powered tools
- Structured testing, vendor engagement, benchmarking, and scoring against the EPRI-GTC siting framework



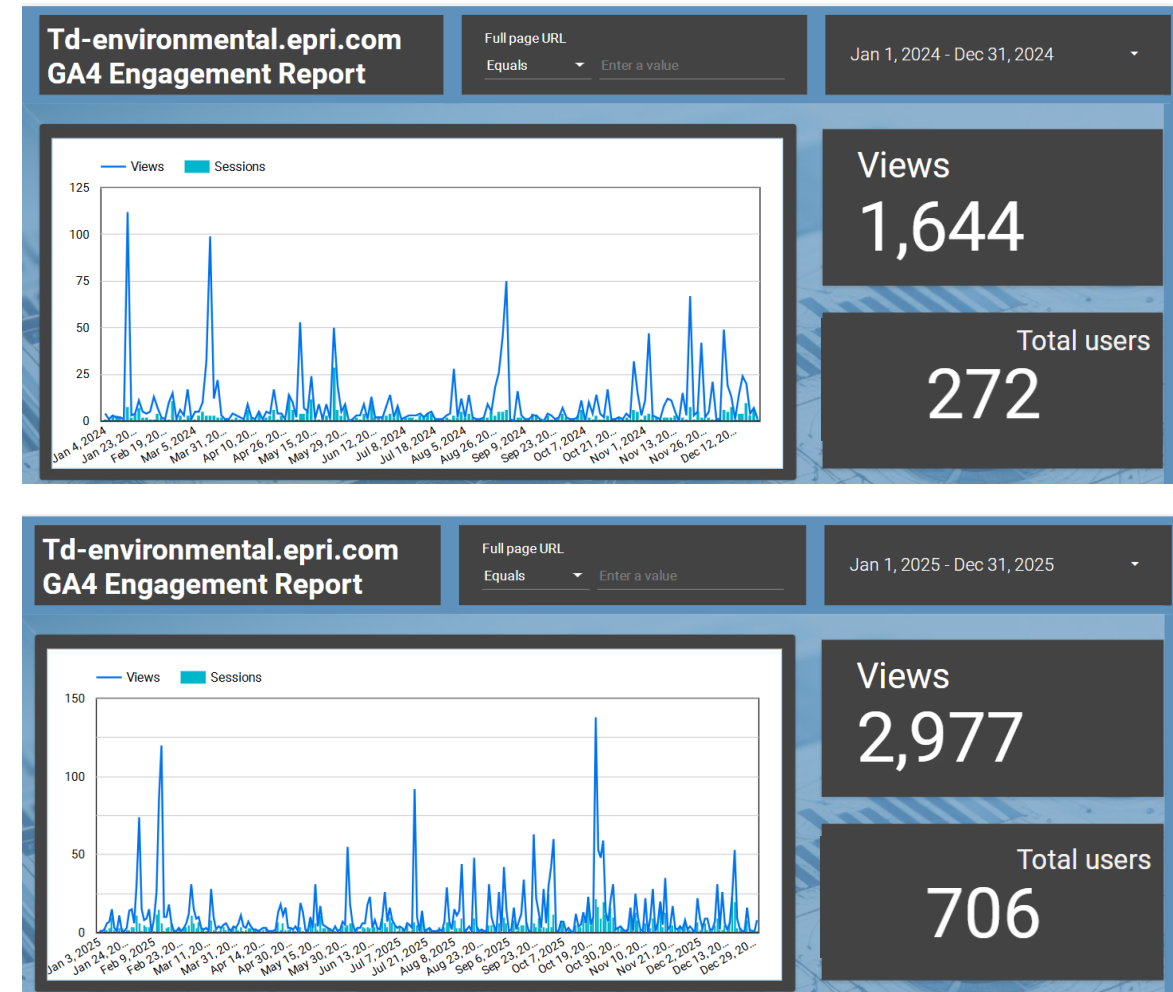
2026 Program Plans

P51 is Adopting a New Format for Webcasts and Communications

- Monthly Webcast (Feb-November)
 - 45 minutes
 - Add executive summaries to webcasts
- Monthly Communications
 - Meetings next month
 - Research Key Findings with link to report
 - Quick hits on current research
- Quarterly newsletter (compilation)
- Subscriber's Website
 - Add emergent technologies
 - Submit questions (alternative to open P2P)
 - Online guides: GEMS!!

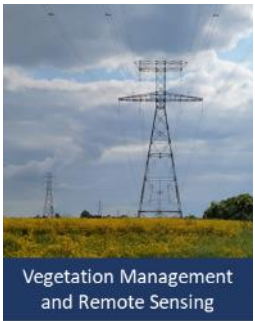
T&D Environmental

2024 and 2025 performance



2026 Proposed Portfolio

P51 A



Assessing the Value of Rights-of-Way for Bats and Bat Foraging Resources

Evaluating Seeding Methods for a New Native Seeding Technology, Coated Native Seeds

Field Guide For Right-of-Way Invasive Plant Species

IVM Template – Field Methods for Metric Collection

Evaluating Flammability of ROW Vegetation

Detection of Native Plant Communities on ROWs with AI

P51B



Flight Diverters: Assessing Durability

Flight Diverters Effectiveness- Interim results

Substation Deterrent – Methyl Anthranilate laboratory and field results

Animal Deterrent Database – Tool Update

Industry Insights & Design Approaches for Avian Nesting Mitigation

Industry Experience with Wildlife Fencing in Utility Environments

P51C



Can nano dust effectively coagulate mineral oil, natural & synthetic esters, and diesel fuel?

Can vegetative screens reduce nuisance conditions without creating wildlife impacts?

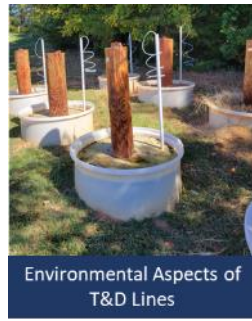
Mineral Oil Spill Estimation Software - Multiphase (MOSES-MP) v5.5

MOSES-MP v5.5 - Beginners Training

Understanding Wildfire Impacts on Substations

Updating the EPRI PCB Database

P51D



Can Confinement Grids Stabilize Erosion on Access Roads?

Fate and Transport of DCOI - DCOI Measurements and Analysis

Environmental Aspects of Wildfire Resiliency for T&D Infrastructure

Mat Usage and Materials in T&D Construction

P51E



Spill, Prevention, Control and Countermeasure (SPCC) Maturity Models

Vegetation Management Maturity Models – Tool Assessment

Deployment of Technology Innovation and AI for Environmental Applications

New key to be sent out tomorrow!

2026 Research Needs

- Industry reviews and proposed methodology
 - Industry Insights & Design Approaches for Avian Nesting Mitigation
 - Industry Experience with Wildlife Fencing in Utility Environments
 - Understanding Wildfire Impacts on Substations

Survey + P2P or Industry calls
Importance of participation

- Collaborative Research Opportunity:
Wildlife guards flammability tests
 - 4 units, same batch, new
 - Any documentation about the units
 - Bushing covers and arrester caps



2026 Calendar

- Tech Transfers are going to be held once a month, starting in February, until November, on the third Thursday of the month at ~~3pm~~ 11am Eastern time → [Recurrent Invitation](#), please accept it even if the first date does not fit your schedule!!

TASK FORCES

Meeting	Date / Time	Format
Task Forces P51A-P51E	Feb 17 & 19, 10am-12pm EST	Virtual

ADVISORY AND SUMMER MEETINGS

Meeting	Date	Location	Format
Summer Meeting	May 4 - May 8	Tempe, AZ	In Person
Advisory Meeting - ED&CS	Aug 31 - Sept 3	Oxon Hill, MD	P51 Team
Advisory Meeting - GEN	Sept 14 - Sept 18	Dallas, TX	In Person

R

R

R

Requires Registration
via CVENT

2026 Calendar

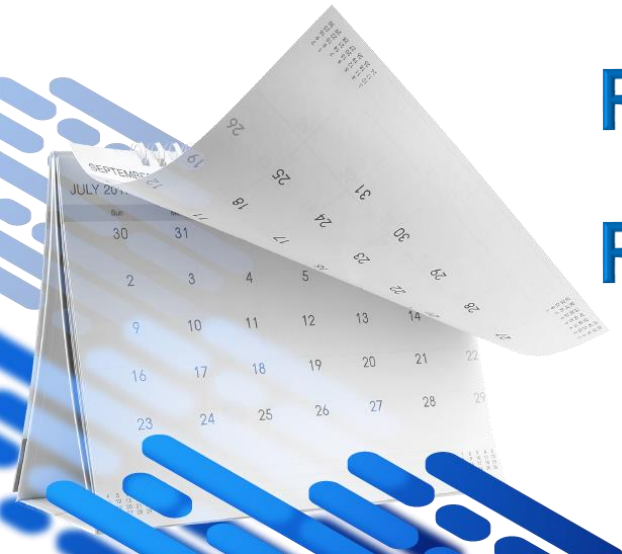
- Tech Transfers topics are going to be informed a month ahead

R Requires Registration
via CVENT

Program/Project Meetings		
Meeting	Date / Time	Format
EPRI P51: T&D Environmental - Tech Transfer Webcast	Once a month, starting in February, until November, third Thursday at ~~3pm~~ 11am EST	Virtual
EPRI P51: T&D Environmental - Prioritization Webcast	04/07/2026, 11am EDT	Virtual
EPRI P51: T&D Environmental - Rollout 1	06/30/2026, 11am EDT	Virtual
EPRI P51: T&D Environmental - Rollout 2	07/21/2026, 11am EDT	Virtual
EPRI P51: T&D Environmental - End of Year Webcast	12/10/2026, 11am EST	Virtual

R

R



Conferences – ROW14

What: Environmental Concerns of ROW Management

When: May 11-14, 2026

Where: Vancouver, Canada

P51 Participation

▪ 2 presentations

1. The effect of construction mats on right-of-way plant community composition and pollinators
 - Authors: Bennett, Payne, Flansburg
2. Using drone and satellite imagery to assess the quality of pollinator habitat on rights-of-way
 - Authors: Bennett, Pritsolas, Pearson

▪ 1 Panel

- Co-benefits from Nature Based Solutions





2025 Outcomes

P51A: Vegetation Management and Remote Sensing Deliverables



The Effectiveness of Using
eDNA Compared to
Traditional Methods for
Detecting Pollinators

Technical Report
PID: [3002032912](#)



Assessing the Value of
Rights-of-Way for Bats and
Bat Foraging Resources -
Year 1

Technical Report
PID: [3002032913](#)



Assessing ROW Habitat for
Bees, Birds, and Bats
Compared to other Land
Cover Types: Site Selection

Technical Report
PID: [3002032958](#)

P51A: Vegetation Management and Remote Sensing Deliverables



Evaluating Seeding Methods
for a New Native Seeding
Technology, Coated Native
Seeds

Technical Report
PID: [3002032959](#)



Right-of-Way Pests:
Monitoring, Management, &
Movement

Technical Report
PID: [3002032960](#)



Taking Flight: How Drones are
Changing Right-of-Way
Management

Video
PID: [3002032981](#)

P51A: Vegetation Management and Remote Sensing Deliverables



Evaluating Directed Energy Technology for Flammability and Control of Woody Right-of-Way Vegetation

Technical Report
PID: [3002033811](#)



New York Power Authority Uses Integrated Vegetation Management to Improve Power Delivery

Success Story
PID: [3002033858](#)



Arkansas Electric Cooperative Corporation Uses Integrated Vegetation Management to Lower Right-of-Way Maintenance Costs

Success Story
PID: [3002033859](#)

P51A: Vegetation Management and Remote Sensing Deliverables



Safety First: EPRI Helps
Establish Minimum Clearance
Distances for Aerial
Vegetation Management
Equipment

Success Story

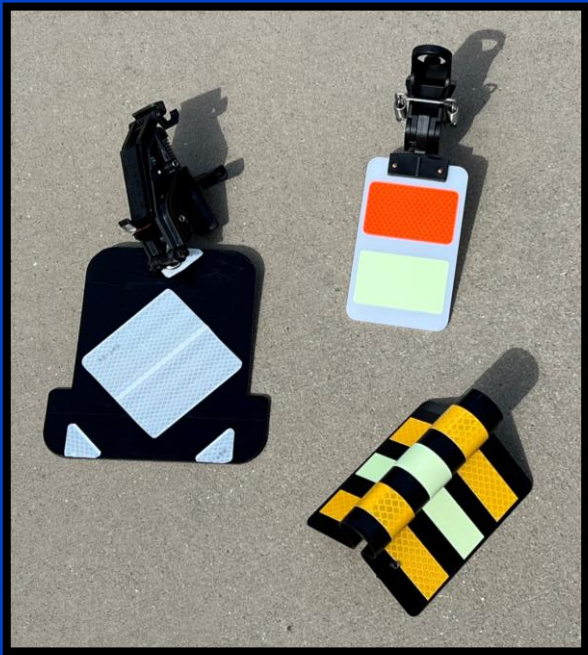
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P51B: Wildlife Interactions with T&D Assets Deliverables



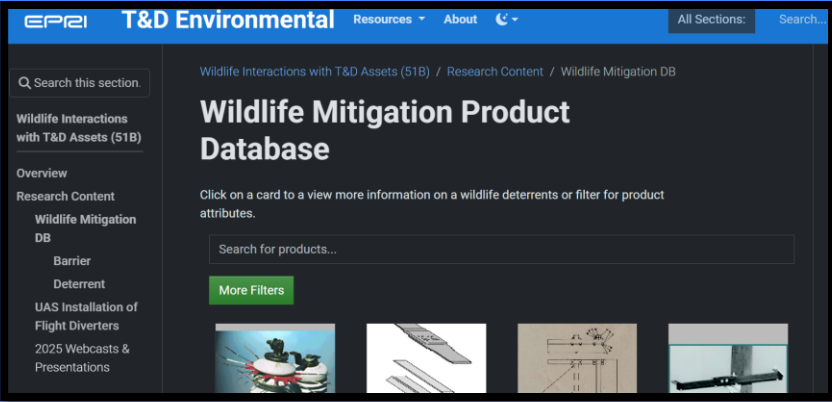
Testing Methyl
Anthranilate (MA)
Application in Substations
to Address Roosting Bird
Concerns – Laboratory Test
Results

Technical Report
PID: 3002032962



Flight Diverters Durability
Evaluation – Interim
Results

Technical Report
PID: 3002032963



Wildlife Mitigation Product
Database - Update

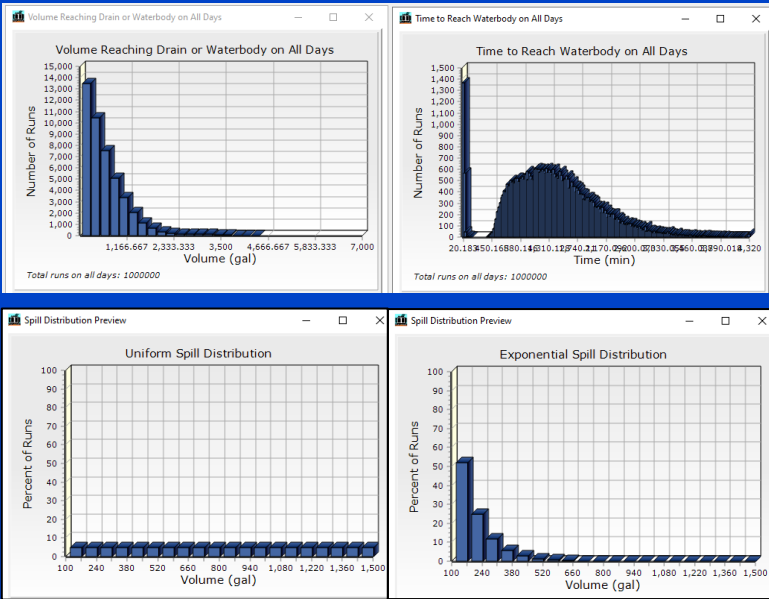
Subscriber Website
Wildlife Mitigation Product
Database | T&D Environmental

P51C: Environmental Aspects of Substations Deliverables



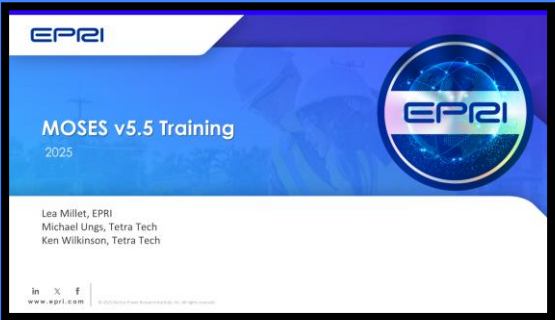
Effect of Vegetative
Screens on Nuisance
Conditions in Substations

Technical Report
PID: [3002032964](#)



Mineral Oil Spill
Estimation Software
(MOSES) v5.5

Software
PID: [3002032983](#)



- Overview
- Theory and Calculations
 - Common Challenges in Data Collection
 - Tools and Techniques
 - Example Case
 - Break
 - Prioritizing SPCC Revision
 - Typical Questions and Topics from Users
 - Questions

MOSES v5.5 Live Training

Video
PID: [3002032967](#)

P51C: Environmental Aspects of Substations Deliverables



Consolidated Edison and
EPRI Pioneer Spill Control
Innovations for Midel
Transformers, Enhancing
Environmental Compliance
and Industry Practices

Success Story

PID: [3002033583](#)

P51D: Environmental Aspects of T&D Lines Deliverables



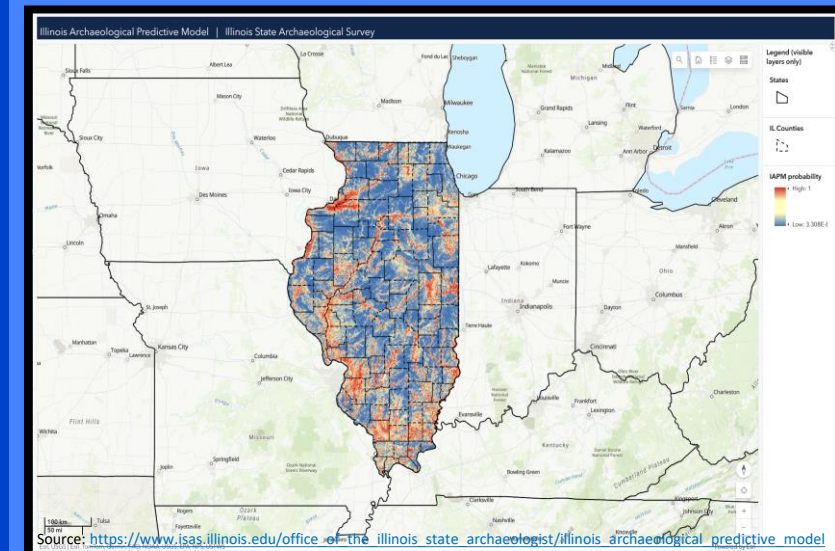
Considerations for
Incorporating Climate
Change into Infrastructure
Siting Methodology

Technical Report
PID: 3002032965



DCOI Method
Development and
Improvement

Technical Report
PID: 3002032966



Insights on the Feasibility
of Using Machine Learning
for Cultural Resources in
Siting

Technical Brief
PID: 3002032967

P51E: Strategic T&D Environmental Topics Deliverables



Vegetation Management Program Maturity Models: General Framework – Update

Technical Report
PID: 3002032968



Management and Storage of Environmental Compliance Related Data and Documents – Industry Overview

Technical Report
PID: 3002032969



TOGETHER...SHAPING THE FUTURE OF ENERGY®