



EBC Energy Resources Webinar
When the Sun Sets on the First Generation of Renewables
Renewables 2.0 and the Circular Economy

Wednesday, April 27, 2022

This program made possible in part with the support of:

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Program Chairs:

Paul Knapik, Senior Project Manager / Senior Associate, BSC Group, Inc.
Robert Moran, Principal Community and Customer Manager, National Grid

AGENDA

- 9:00 a.m. **Welcome:** Jackson Bailey, Director of Programs and Membership
Environmental Business Council of New England
- Program Introduction and Overview**
- Robert Moran, Program Co-Chair
Principal Community and Customer Manager, National Grid
- 9:20 a.m. **The National Landscape of De-Commissioning Solar Facilities: The Circular Economy**
- Dr. Garvin Heath, Distinguished Member of the Research Staff
National Renewable Energy Laboratory (NREL)
- 9:40 a.m. **The National Landscape of De-Commissioning Wind Facilities**
- Frank Oteri, Researcher II, Market Research Analysis
National Renewable Energy Laboratory (NREL)
- 10:00 a.m. **Networking Opportunity**
- 10:15 a.m. **Break**

10:20 a.m. Battery Life Cycle Management

- Tom Newhall, Chief Operating Officer, Renewance, Inc.

10:40 a.m. Legal Perspective on Decommissioning Renewable Energy Facilities

- Bonnie Heiple, Counsel, WilmerHale

11:00 a.m. Moderated Discussion

Moderator: Paul Knapik, Program Co-Chair

Senior Project Manager / Senior Associate, BSC Group, Inc.

Panel Members:

- Dr. Garvin Heath, National Renewable Energy Laboratory (NREL)
- Bonnie Heiple, WilmerHale
- Tom Newhall, Renewance, Inc.
- Frank Oteri, National Renewable Energy Laboratory (NREL)

11:30 a.m. Adjourn

PROGRAM CO-CHAIRS

Paul Knapik, Sr. Project Manager/Sr. Associate

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Paul Knapik is a Senior Associate, Energy market leader and member of the Ecological Services team at BSC Group, a multi-disciplinary consulting and engineering firm with six (6) New England offices including a main office in Boston, MA. Paul has over 30 years of professional experience in resource delineation and inventories, developing permitting strategies for complex, multidisciplinary projects, impact analysis, wetland mitigation site selection and design and providing expert witness testimony for utility siting applications. Paul's primary focus has been in the environmental review, siting and regulatory permitting of linear utility projects including new electric and natural gas transmission lines, electric transmission reconductoring and refurbishment projects, and electric substations.

Robert Moran, Principal Community and Customer Manager

National Grid

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Robert Moran has been with National Grid for 34 years. Bob is a Business Relationship Manager for National Grid communities and key customers, as well as a Certified Energy Manager with experience in Renewable Energy, Generator Interconnections, Contracts and Service Agreements, Emergency Planning, Energy Efficiency, Utility and Site Planning and Development, Permitting, Rate and Tariff Structures, and Government Relations.

SPEAKERS

Dr. Garvin Heath, Distinguished Member of the Research Staff
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Garvin Heath, PhD, is a Distinguished Member of the Research Staff at the National Renewable Energy Laboratory (NREL) in Colorado, USA. For over 15 years he has worked to characterize and quantify sustainability of energy technologies, with particular focus on photovoltaics (PV). For nearly a decade, Dr. Heath has led the International Energy Agency's Photovoltaic Power Systems Task 12 (Sustainability) where the US has gained valuable insight and lessons from countries with more experience in recycling and the circular economy of PV modules. He led development of a PV recycling technology R&D Roadmap for the US Department of Energy, helped develop an ANSI voluntary Sustainability Leadership Standard for PV Module manufacturing (including end of life management), and has been advising several U.S. states considering voluntary and regulatory responses to PV end of life management challenges. Recently, he has been co-leading investigations of how human behavior impacts uptake of circular economy of PV, wind and hard disc drives.

Bonnie Heiple, Counsel
WilmerHale
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Bonnie Heiple is an environmental and energy lawyer whose practice encompasses regulatory, litigation and transactional matters. Ms. Heiple offers clients comprehensive advice that spans the lifecycle of projects and matters—from providing strategic counsel on compliance with federal and state requirements to negotiating commercial aspects of transactions (e.g., PILOT agreements and incentives). She advises developers and utilities in connection with energy, storage, and transmission projects, including by interfacing with relevant local, state, and federal agencies and appearing at hearings and public meetings to secure key approvals. Where project permits are challenged or other lawsuits brought, Ms. Heiple represents clients in administrative and civil litigation to efficiently resolve such disputes.

Tom Newhall, Chief Operating Officer
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Tom Newhall is the Co-founder and Chief Operating Officer of Renewance, Inc., a company dedicated to ensuring responsible stewardship of industrial batteries from cradle to grave. Renewance offers a suite of services across the lifecycle of stationary energy storage systems and electrical vehicles including commissioning, maintenance, warehousing, and end-of-life services. Renewance optimizes these services through its RenewanceConnect™ platform that combines cradle-to-grave asset tracking with a service on-demand (marketplace) platform to manage industrial batteries more effectively and responsibly throughout their full life cycle. Prior to co-founding Renewance, Mr. Newhall enjoyed a 25+ year career with GE, during which time he led the Global Customer Support & Warranty organization for GE Energy Storage. In this role, Mr. Newhall was responsible for developing and implementing the business strategy for collection and recycling of battery energy storage equipment at end of life.

Frank Oteri, Researcher II, Market Research Analysis
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Frank Oteri is a Research Analyst at the National Renewable Energy Laboratory and the Department of Energy's WINDEXchange initiative whose primary work includes wind energy stakeholder engagement and outreach for a variety of topics including project siting, decommissioning, and component processing.