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## **OVERVIEW**

Ms. Tripp has over 25 years in the energy industry with a specialty in transmission delivery and market issues. Her expertise includes the following areas:

- Transmission and Market Risk
- Expert Witness Testimony, FERC and State Commissions
- Transmission Expansion and Planning Strategies
- Financing Due Diligence
- Transmission and Resource Planning Oversight
- Transmission Service and Delivery Strategies
- Security Constrained Economic Dispatch Oversight
- Open Access Transmission Tariff Support
- Nodal Market Cost/Benefit, Congestion and Losses Assessments
- Competitive Analyses
- Wind Curtailment Mitigation Strategies
- Resource Integration Support

Ms. Tripp has provided expert witness testimony in many transmission rate cases, has managed transmission planning and security constrained economic dispatch sectors and led the evolution of practices and processes supporting the changing needs of utilities, developers, equity investors and other stakeholders for issues of relevance to the industry. She is an effective leader with extensive firsthand knowledge and expertise on a wide range of energy industry complexities which she uses to support client strategy development, planning, financial impacts and understanding of risks. She is a respected professional in high demand for presentation skills and demonstrated ability to defend independent positions in financing and litigation settings. Ms. Tripp has established a reputation for critical thinking relative to needs and solutions to complex issues for making economic and risk decisions, and is widely recognized for a solutions-based approach and effectively producing quality results while simultaneously juggling multiple demands. She has an excellent skill set in the areas of strategy development, teamwork, mentoring, disciplined project execution, client development, sales, and written and verbal communication.

## **PROJECT EXPERIENCE**

### ***OATT, Market, and Regulatory Services***

While FERC provides oversight of wholesale transmission, NERC oversees reliability and compliance, states/tribal agencies establish policies and separate transmission owners, and independent transmission operators develop open access transmission tariffs (OATT), protocols and business practice, no two markets are the same. Understanding the processes and “rules” requires substantial expertise. Ms. Tripp

provides strategic and advisory services to supports clients in navigating the various frameworks and issues. Recently, Ms. Tripp supported a generation owner in development of an OATT, including appropriate losses factor, Schedule 7, and Attachments C, D, J, and K. Additionally, Ms. Tripp provides strategies/expert witness for transmission rate cases, and the risk of market cost components on transmission delivery cost, e.g., reliability unit commitment costs (e.g., uninstructed resource and export interchange deviations) on firm transmission transactions, and was the lead on a project evaluating impacts of the transition of the Southwest Power Pool to its Integrated Marketplace.

### ***Expert Witness and Litigation Support***

Ms. Tripp has testified/provided affidavits as an expert witness in numerous FERC and state proceedings on transmission issues including marginal losses, facility needs assessments, constraints/import limitations, transmission credits and rate divisors.

### ***LMP/Security Constrained Economic Dispatch***

Ms. Tripp was responsible for numerous assessments involving Security Constrained Economic Dispatch (“SCED”) analyses. SCED analyses have become a critical planning tool for evaluation of transmission impacts associated with the benefits of new transmission facilities, congestion differentials between load and resources, reliability curtailment risk, transmission service delivery risks, and other market factors such as energy imbalance costs. The SCED assessments have supported intermittent resource curtailment estimates for project financing, development of transmission upgrade strategies to mitigate reliability curtailment, calculation of losses factors, and cost allocation for transmission upgrades.

### ***Transmission/OATT Planning Services***

Ms. Tripp directed a consulting practice that was responsible for technical analysis pertaining to generation interconnection and transmission service requests. These technical analyses for utilities and generation asset owners included system impact/facilities studies that evaluated power flow, short circuit, and stability system impacts to determine upgrades required to provide the service. The studies included overseeing the development and validation of system models, evaluating system configuration and dispatch scenarios, sizing of reactive compensation, and determining additional equipment/upgrades necessary to maintain reliability.

### ***Transmission Delivery and strategies Risks***

Energy and capacity delivery is a combination of physical impacts, contractual rights, market mechanisms, regulation, and cost impacts. Ms. Tripp collaborates with clients to frame the strategies, outline the risks and evaluate the economics for implementing. From 2011 through 2013 Ms. Tripp completed a long-term assignment for BP Wind which culminated in the successful financing of one of the country’s largest wind plant, including firm delivery of 300 MW requiring point to point service, successfully identifying the cause of wind plant curtailment and developing a mitigation plan, and evaluating and commenting on regulatory risk associated with the Southwest Power Pools transition to the Integrated Marketplace. Ms. Tripp is currently working for several clients providing services in this area of expertise.

### ***Project Financing***

Transmission delivery, rates and market impacts are an integral part of financing generating and transmission assets. Ms. Tripp has led transmission assessments for several hundred generation and transmission asset financings to assess risks to the projects due to transmission interconnection, power

purchase arrangements (point of interconnection of the resource versus point of delivery under the PPA), market structure, and transmission service arrangements. Due diligence has included interconnection agreements, system impact and facilities studies, costs of transmission system upgrades, curtailment estimates (e.g., potential impact of transmission constraints on the dispatch of the resource), potential impact of regulatory changes in the market, and consideration of Renewable Portfolio Standards.

### ***Project Integration, Curtailment and Delivery***

Ms. Tripp has been responsible for provided consulting services for load serving entities, generation owners, developers, utilities and equity investors that required an understanding of transmission upgrade costs, loss of energy/revenues due to curtailment, transmission service options and market costs associated with scheduling energy delivery. For the purpose of project financing, asset acquisition, assessment of risk under power purchase agreements, or evaluation of resource options, Ms. Tripp has been responsible for integration, transmission curtailment, delivery risk and market cost assessments for numerous transactions including several hundred of renewable projects. The assessments considered local interconnection and upgrades, transaction impacts, transmission service arrangements, power purchase arrangements, market deliveries, operational issues associated intermittent resources, and impact of future generation and transmission additions. The technical, quantitative and qualitative findings are used to reduce risk uncertainty in the form of financial inputs, understanding relative of potential impacts of future events such as new generation, transmission expansion, and variations in the market structure.

### ***Generator and Transmission Siting/Integration Analyses***

In systems across the United States and Canada, Ms. Tripp has been responsible for numerous technical transmission studies related to new generation and transmission expansion. The projects have included generator site selection, plant sizing considering transmission impacts, deliverability analyses, contingency impact analyses, curtailment analyses including transmission priority, and economic cost/benefit analyses.

### ***International Transmission and Resource Due Diligence***

Ms. Tripp has been responsible for the technical transmission/market due diligence associated with financing or equity investment in various international transmission and generation assets. The assessments include dataroom document review, site visit (Chile only), supplemental analyses, and an independent technical report for the purpose of assisting the client with their investment decision. Projects included; peaking generating resources in the Philippines, multiple transmission acquisition assignments in Chile, co-generation and peaking power purchase agreements in Mexico, resource need in Trinidad and Tobago and base load generating resources in Thailand.

## **PROFESSIONAL HISTORY**

Ms. Tripp began her career with Ohio Edison Company in Substation Design and System Operations, was with R. W. Beck, Inc. and its successor, SAIC, for 20 years as an owner of R. W. Beck prior to the purchase, and then with BP Wind prior to joining nFront Consulting LLC.

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## ***EDUCATIONAL AND PERSONAL***

Ms. Tripp's educational background includes a B.S. in Electrical Engineering from the University of Cincinnati and a Master of Global Business Administration from the Thunderbird School of Global Management. She is also a registered professional engineer in the state of Arizona.