

## Transatlantic Program for Young Technology Leaders: Smart Grid & Energy Storage

September 2014

In September 2014, LEC executive director Annie Levenson-Falk participated in the Transatlantic Program for Young Technology Leaders: Smart Grid and Energy Storage delegation in Germany. Ten highly motivated young professionals and PhD candidates from around the United States were selected to participate from about 100 applicants. The delegation explored technology and policy development underway with Germany's Energiewende (energy transition). Delegates met with key players of German industry, visited research institutions, and interacted personally with engineers, public officials, and business leaders driving the next generation of energy and grid management. More information is available at <http://www.transatlanticprogram.org/past-programs/2014-tap-ytl-smart-grid-energy-storage/>.

Delegation visits included:

- **Berlin: Germany Trade and Invest**, the federal government's economic development agency.
- **Goslar**: Project presentations and laboratory tour at **EZFN** (Energie-Forschungszentrum Niedersachsen), which is researching electricity storage.
- **Bonn**: Presentation and discussion on the Energiewende at **Bundesnetzagentur**, the Federal Network Agency.
- **Dusseldorf**: Presentation at **Siemens AG** and extensive tour of the construction of a natural gas combined heat and power plant in Lausward. Discussion at **Stadtwerke Dusseldorf**, the local utility.
- **Munster**: Presentation and laboratory tour at **MEET** (Munster Electrochemical Energy Technology) in cooperation with **p3 Energy & Storage GmbH**.
- **Hamburg**: Guided tour of **Vattenfall's** hydrogen station. Visit to **SmartRegion Pellworm**, a North Sea island working to supply its own energy, in cooperation with **Schleswig-Holstein Netz AG**. Visit to the **WindEnergy 2014** trade show. Presentation and discussion with **Renewable Energy Hamburg**. Presentation and tour of the **Energiebunker** (WWII bunker being used for energy storage), the **Energieberg** (toxic waste dump turned energy production site), and **Wilhelmsburg Mitte** (urban district featuring demonstrations of new building energy technologies) conducted by **IBA Hamburg GmbH**.

Delegates:

- Ashwini Bharatkumar, Massachusetts Institute of Technology, PhD Student in Engineering Systems
- Christopher Coronel, Utility (New York), Conservation Engineer
- Steven Dahlke, Great Plains Institute (Minnesota), Policy Associate
- Aaron Diab, California Smart Grid Center, Student Researcher
- Robert Fares, University of Texas at Austin, PhD Student in Mechanical Engineering
- Preston Finnie, Optima Engineering, Electric Designer/Associate Engineer
- Annie Levenson-Falk, Minnesota Legislative Energy Commission, Executive Director
- Henry Misas, Bright Power (New York), Senior Project Engineer
- Katrina Prutzman, Urban Green Energy (New York), Asst. Director, System Design and Manufacturing
- Eric Veium, Stockman's Water & Energy (California), Senior Energy Engineer/Co-Founder



November 13, 2014