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December 15, 2021

# A Capacity Building Initiative to Support the Uptake of Earth Observations for a More Resilient Energy Sector

AGU 2021

SA34A- Accessing Broader User Communities for Earth Observations of Terrestrial Systems

# Energy Sector Challenges

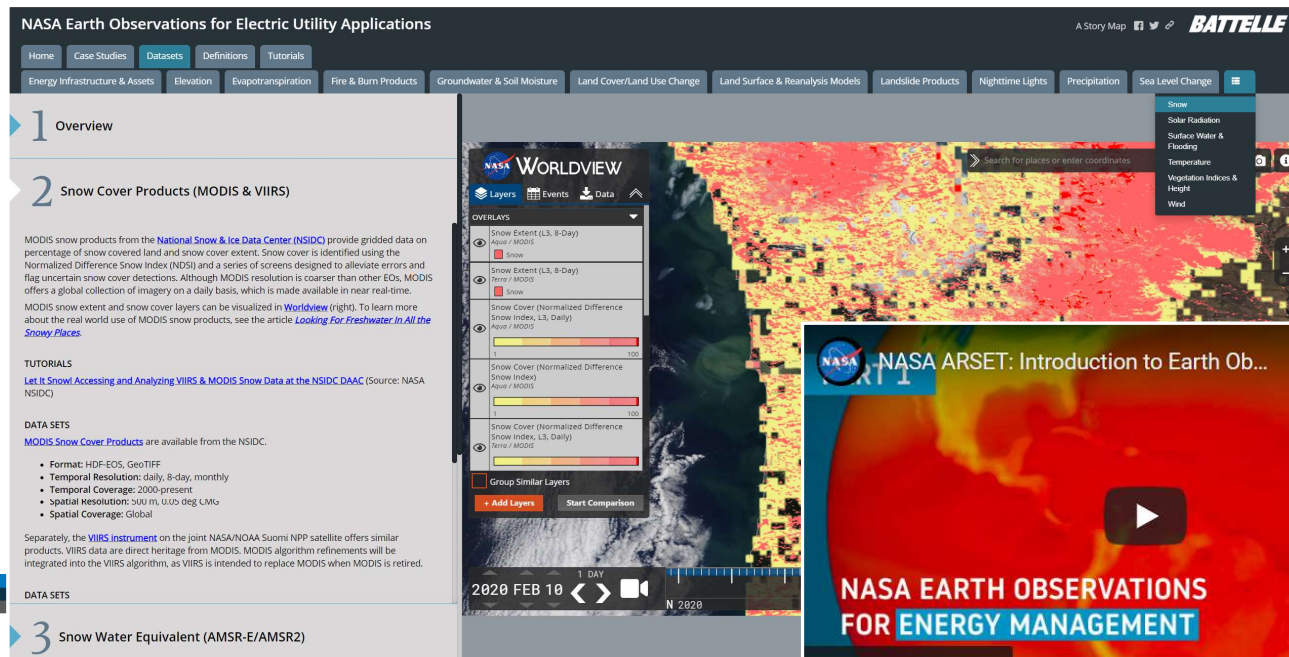
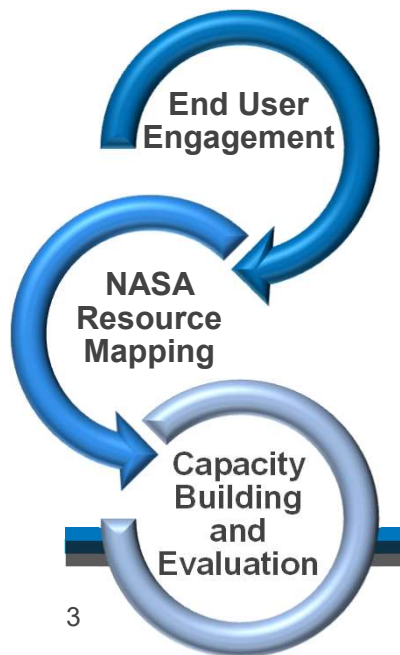
- Shifts in extreme weather and climate impact electrical infrastructure and resource availability
- Utilities need data to plan, monitor, respond, and improve resiliency
- NASA has Earth Observations (EOs) relevant to electric utility applications
  - Are these actionable? What does “actionable” mean?
  - Do NASA EO data meet decision-making needs?
  - What are priorities for U.S. electric utilities?
  - What is their capacity for using EO data?





# Capacity Building Approach

- Needs assessment & mapping NASA EO's to needs
- Developing tools, trainings, handouts, webinars, papers
  - StoryMap®: <https://tinyurl.com/NASAEnergyStoryMap>
  - ARSET Training: <https://tinyurl.com/ARSET-Energy-Management>
- Outreach & dissemination



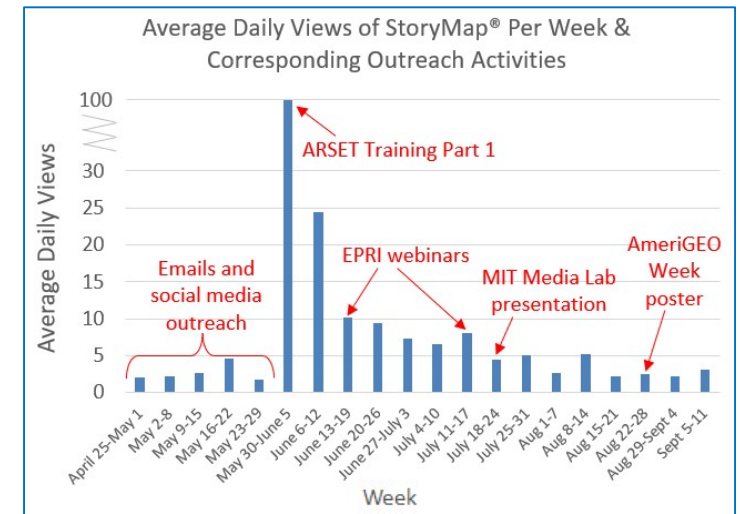
# Evaluation

## • Successes

- User-friendly, relevant, and accessible tools that effectively bridge gap between scientists and end users
- Broad, global reach through ARSET training (but was it the right audience?)

## • Challenges

- Engaging U.S. electric utilities (very busy!)
- Overcoming utility bias about the usefulness of EOs
- Measuring impact over a short period
- Sustaining communication and interest after project end



Countries Represented by ARSET Training Participants

