

**HVDC Presentation Proposed Outline**  
**Special DEDSTF Meeting on Thursday September 7<sup>th</sup>, 2017 1pm – 4pm EST**

Updated: 6/15/17

As discussed at the 05/18/17 DEDSTF Lines Subgroup meeting, below is a proposed outline for the HVDC Presentation:

1. HVDC Technologies
  - a. Line Commutated Conversion (LCC)
  - b. Voltage Source Conversion (VSC)
2. HVAC vs HVDC
  - a. Pros
  - b. Cons
3. Applications for HVDC
  - a. In-Network
  - b. Network Interties
4. HVDC Development Stages (\* = including cooperation with Interconnecting Utilities and ISOs))
  - a. Pre-Engineering Studies
  - b. Interconnection Studies\*
  - c. Interconnection Agreement (IA) Technical Specification Development\*
  - d. Post IA Detailed Design\*
  - e. Component Manufacture
  - f. Installation
  - g. Commission Testing\*

Additional topics proposed:

- Any design considerations to convert towers/structures of a new line from AC to DC
- Reactive compensation
- [Grounding options. For example, are earth electrodes acceptable or allowable?](#)
- [New DC technologies such as DC breakers.](#)

Please email Michael Herman or Anisha Fernandes if you have additional topics you would be interested in hearing about.