Use Case Considerations

1. Identification of the use cases to define the registry purpose (static information/dynamic database)
   1. Interconnection agreement status, tracking, and associated details
   2. FERC Order No. 2222 purposes (entities, approval status, market participation, etc.)
   3. Utility planning purposes on distribution system
   4. Transmission planning
      1. NERC MOD-032 Attachment 1 Table
   5. Performance validation and settlements
   6. Operational control (e.g., location of DERs, outages, grid services support, wholesale market participation
   7. Supporting reliability
      1. DER characteristics
      2. DER capabilities
      3. Services eligible to provide
   8. Cybersecurity
      1. Info needed to protect system
2. Registry database that captures DER information that can be foundation to meet data needs within same system
   1. Filters to pull information by need
   2. Potential general data categories to house in registry:
      1. Capability data
      2. Configuration data
      3. Commercial data
         1. Aggregator and consumer registration
      4. Controls data
         1. Indication whether DERs are subject to tripping in conjunction with UFLS or UVLS
      5. Conditions data
      6. Double counting and duplication
      7. Regulatory
         1. State PUCs
         2. Compliance
         3. Retail participation and retail tariff
      8. Entity relationships associated with DER operations and utilization
      9. Classification of NERC MOD-032 Attachment 1 Table (aggregate DER data): Location (bus from item 1); Real power capability; DER type (solar, battery, diesel generator, etc.); parameters, settings, or capabilities related to momentary cessation, tripping, Ride-through, voltage control, and frequency control or information that can be used to infer those items for modeling purposes
3. Consumer protections included as part of registry development
4. Supporting business processes and practices