SAFETY RELIABILITY AFFORDABILITY



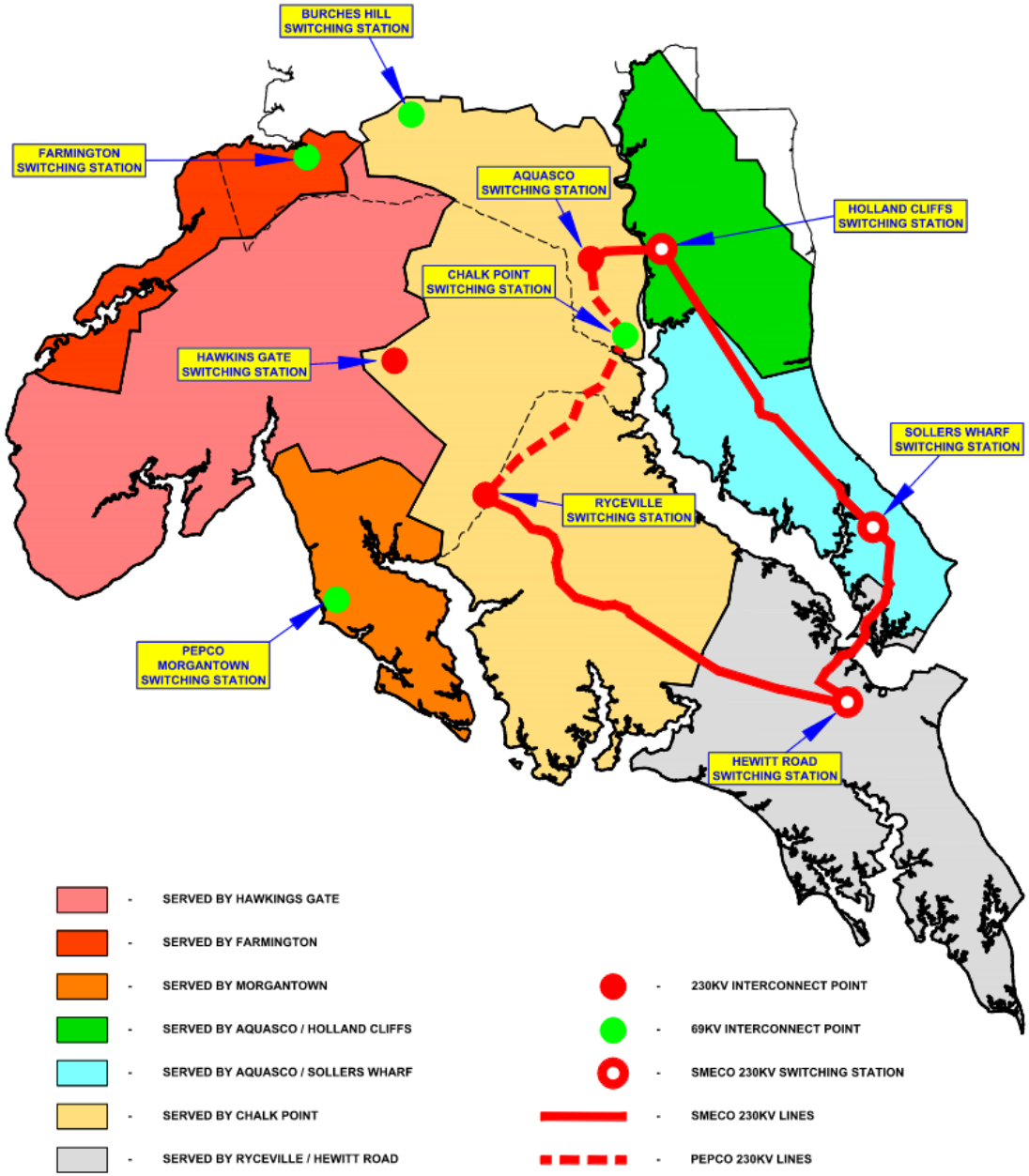
SMECO 2027 RTEP Planning Assumptions

Agenda

- Service Territory
- Planning Assumptions
- Baseline Projects
- M3 Supplemental Project Drivers

Service Territory

- Charles Cnty
- St Mary's Cnty
- Calvert Cnty
- So Pr George Cnty



Planning Assumptions

- Use most recent PJM RTEP Power Flow Model(s)
- Regional loads modeled per PJM Load Forecast
  - Adjust local SMECO station loads
  - Consider local large block loads
  - Consider local large DER generation
  - Adjust for proposed local area configurations
  - Three-Year assessment
- Contingencies updated per the NERC TPL-001 Standard

Baseline Projects

- PJM performs baseline analysis to identify system needs
  - NERC Reliability Standards
  - PJM Manual 14B Transmission Planning Criteria
- SMECO analysis applies its Planning Criteria to BES and Non-BES system facilities
- SMECO coordinates with PJM to validate power flow cases, study results, and any baseline violations
- Project submissions are submitted to PJM through the RTEP M3 process

M3 Supplemental Project Drivers

- Thermal loading
- Voltage Profile
- Reactive power requirements
- Short circuit requirements
- Deteriorated facilities and performance risks
- Operational Flexibility
- Infrastructure Resiliency
- Customer load requests
- Facilities nearing End-of-Life