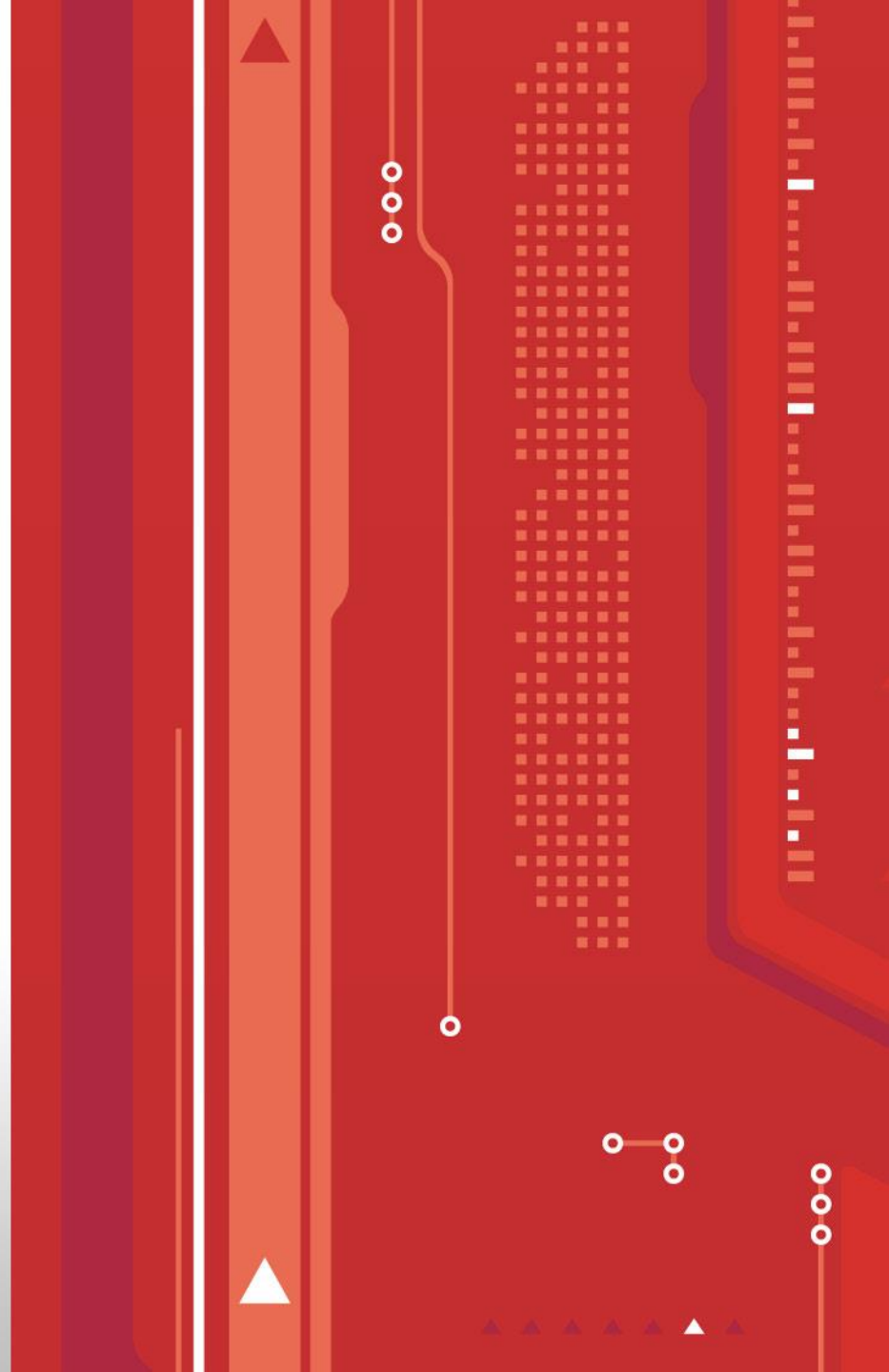


Transmission Planning Improvement Task Force (TPITF): Economics in the Near Term

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Models for 10 Year Planning Horizon

- Economic Models
 - Years 2, 5, and 10
 - Year 2: One Future
 - Years 5 & 10: Up to three Futures
- Reliability Models
 - Years 2, 5, and 10: CBA Reliability Models
 - ~~Derived from Economic Models~~
 - Years 2, 5, and 10: Scenario Reliability Models
 - 2/5 – S0 and modified S5 (TPL sensitivity) . S/W/LL
 - 10 – New IPT model (on-peak only)
- Generator Interconnection, Transmission Service, and TPL
 - Base model consistent with Scenario reliability models described above
- Contingencies: TPL 001-4; Table 1 do not allow for non-c load loss (scenario models)

Economic and CBA Reliability Models

- Year 2 – one Future
 - Incremental Model
 - Incremental Needs Assessment (R,P,E)
 - On/off peak for one future - 2 models
- Year 5 – up to three Futures
 - Existing Model
 - Incremental Needs Assessment (R,P,E)
 - On/off peak for each future (3) – up to 6 models
- Year 10 – up to three Futures
 - Existing Model
 - Existing Needs Assessment (R,P,E)
 - On/off peak for each future(3) – up to 6 models

Scenario Reliability Models

- **Year 2 – S/W/LL**
 - Scenario 0 and modified Scenario 5
 - Reliability Needs Assessment
 - More consistent with existing ITPNT process to confirm system reliability with firm generation and firm transactions
- **Year 5 – S/W/LL**
 - Scenario 0 and modified Scenario 5
 - Reliability Needs Assessment
 - More consistent with existing ITPNT process to confirm system reliability with firm generation and firm transactions
- **Year 10 – On-Peak**
 - Scenario 0 only
 - Only needed if TPL rolled into ITP

Planning Assessments

- Evaluate R, P, & E needs for years 2, 5, and 10
- Needs consistent across horizon
 - Focus on developing cost-effective long-term solutions
 - May include more mitigations for needs in short-term
- Needs seen early, but not later in horizon
 - Focus more on identifying why needs go away
 - Focus on developing mitigations or least-cost solutions until needs go away in long-term
- Needs seen later, but not early in horizon
 - Focus on developing cost-effective long-term solutions

Notable Model Assumptions

- ~~• Generation unit commitment and dispatch determined in economic model rather than by LSE submittal~~
- ~~• Generation unit commitment and dispatch may include resources without firm transmission service~~
- ~~• Coincident peak load models used in all planning assessments, including TPL~~