

# **Financial Plan Refresh**

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# **Transmission Services**

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#### **Transmission**

Capital Assets



#### **Capital Program**



### **Asset Criticality**

- 1. Criticality, Health & Risk (CHR) Scored impact dimensions include:
  - a) Safety (completed)
  - b) Reliability (completed)
  - c) Environment- Pollution and Abatement, Natural Resources (completed)
  - d) Environment- Cultural (not completed)
  - e) Financial (not completed)
  - f) Compliance (logic sheet completed, scoring not completed)
- 2. Asset specific criticality
  - Specific to assets in each individual asset program
    - Supports prioritizing asset replacements within that program

#### **Asset Health**

- 1. CHR-Asset Health algorithms applied to structured Cascade data
  - a) The health score calculation:
    - Uses an age-based degradation model
    - Uses known condition information and a Reliability Modifier, if appropriate.
  - b) Not all assets are incorporated into CHR at this time.
    - a) Assets remaining to be added in are:
      - a) Fiber, control center and power system control/system protection control
- 2. Asset specific health data
  - a) Specific to individual assets
  - b) Based on specific factors unique to certain assets
  - c) Refreshed everyday

## **Assessing Risk**

- 1. Risk matrices available for substation assets
  - Scored impact dimension to represent criticality; Scored from 1 to 7
  - Health scoring to represent likelihood; Scored from 1 to 10
- 2. Risk assessments consider the following:
  - i. SME input
  - ii. Health of assets
  - iii. Outage data
  - iv. Wildfire risk
  - v. Cyber security
  - vi. Criticality dimensions:
    - i. Reliability, safety, environment, compliance, financial
  - vii. Total Economic Cost data to allocate funds at an asset program level

#### **CHR Maturity Roadmap**



# Asset Management Investment Decision Making Criteria & Tools



## **Transmission Current State**

- Asset Managers initiate according to risk assessments within their sustain program areas
  - 1. Prioritization decisions based on asset data, subject matter expertise (SME), TEC models and CHR
  - 2. CHR is used as a component of decision making, but is not the only factor.
    - a) Algorithms require further refinement to apply to more asset types
    - b) Impact dimension scoring is not yet complete for all dimensions
    - c) May not apply to all assets (exclusions have not been defined)
    - d) Risk scoring continues to mature
  - 3. Program planning is impacted by lack of visibility into anticipated execution rates, at the asset level

BONNEVILLE POWER ADMINISTRATION

#### **Maintenance Planning**



# **Transmission Asset Management Forecast**



#### **Transmission AM Forecast Process continued**

- "Typical" projects (bundles) are generally very complex:
  - Almost always include: multiple assets, multiple funding sources (capital/expense), a multi-year schedule, extensive outage planning, complex resource planning, numerous materials required
  - 2. Often include: environmental, land right and/or cultural planning factors/coordination, seismic planning considerations
- Historical "unknowns" that have impacted execution that made forecasting unusually hard
  - 1. Outage availability changes based on urgent system needs
  - 2. Cultural/environmental factors
  - 3. Weather (for example- fire danger)
  - 4. Resource constraints
  - 5. COVID-19 pandemic impacts to material and resource availability
  - 6. Customer projects



# **Questions?**

