

IERMP Task Force Interim Presentation to Council

May 17, 2021

PRESENTATION OUTLINE

Introduction

- A) Objective for this work session
 - Provide an overview of IRP and Master Plan
 - Gain insight into Council's information needs and requests
- B) Introduction of Task Force
- C) Unique characteristics of this IERMP project
- D) Three Components
 - Integrated Resource Plan
 - Master Plan
 - Cost of Service (not complete at this time)
- E) Tonight's Agenda

Load Forecasts and Scenarios

- A) Siemens load forecast
- B) Historical forecasts
- C) Siemens use of scenarios
- D) List of Scenarios
- E) List of parameters (elements) configuring each scenario
- F) Scenario reporting template
- G) Comparison Matrix

Master Planning

- A) Distribution system evaluation
- B) Spatial load forecast and modeling
 - Columbia's spatial load forecast and substation assessment
- C) Overload and capacity concerns
 - Solutions and upgrades
 - Line upgrades
 - New underground feeders
 - New transformers and capacitor banks
- D) Capital needs
- F) Key Findings

Transmission Options

- A) Summary of modeling results
- B) Options
 - Rebuild of Hinkson Creek Line
 - 345KV Substation
 - Option E

Transmission Options (cont'd)

- Option B2
- Option A
- Non-Wires Option
- C) Task Force matrix
- D) Summary

Non-Wires Approach

- A) NWA Defined
- B) Elements of NWA
- C) Existing CWL programs contributing to NWA
- D) Potential energy/capacity contribution of NWA in Columbia
- E) Benefits from NWA
- F) Finance Opportunities

Value of Solar

- A) Components in a Value of Solar analysis
- B) VoS results from other studies
- C) Columbia's Vos from consultant
- D) Alignment issues between TF and consultant
- E) Alternative TF approaches

Advanced Metering Infrastructure

- A) AMI
 - What is AMI
 - Foundational Components of AMI
 - Communications network
 - Electric meters
 - Water meters
 - AMI head-end system
 - Data management
 - Billing Integration
 - Customer portals
- B) Current CWL status regarding AMI
- C) Potential benefits from AMI in Columbia
- D) Investment descriptions
- E) Capital investments

Looking Forward

- A) Work Remaining
 - Cost of Service
 - TF Report
- B) Timeline