

Preliminary Resource Adequacy Assessment for 2020

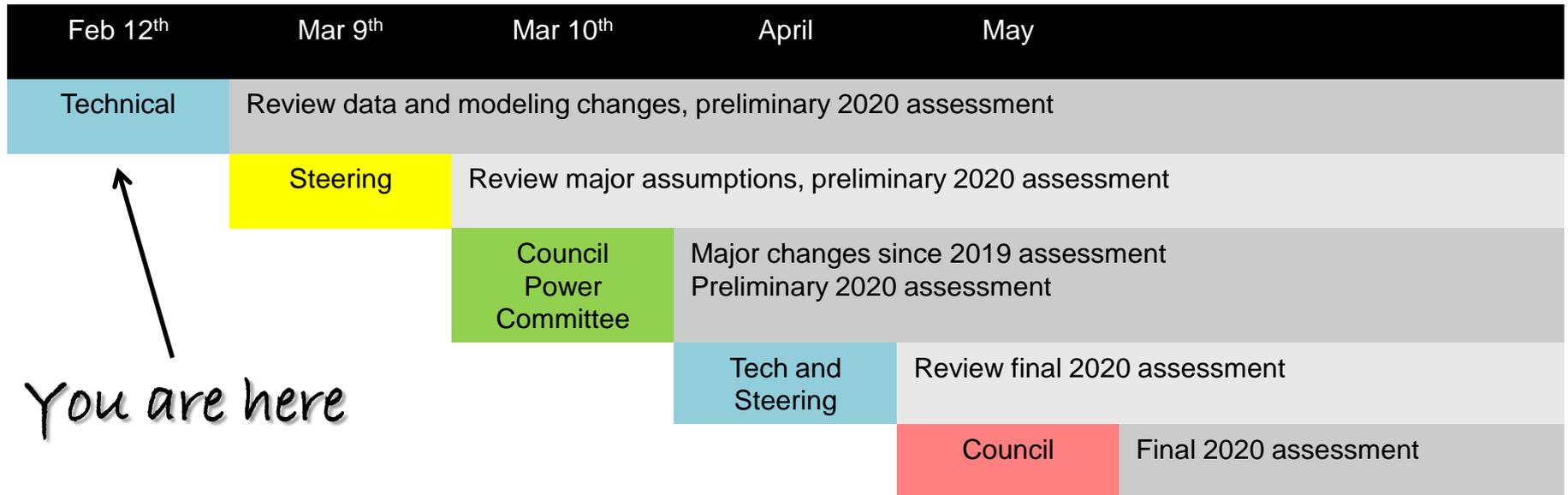


RAAC Technical Committee Meeting
February 12, 2015

Outline

1. Schedule
2. Data Updates 2019 to 2020
3. Modeling Changes
4. Preliminary Results for 2020

Schedule for 2020 Assessment



Load Forecast used in GENESYS

- 2020 load **310 MWa lower** than 2019 load¹
 - 2019 forecast = 22,030 MWa
 - 2020 forecast² = 21,720 MWa
- Load forecast dropped mostly due to decreases in employment estimates

¹ Average load across all hours of the year, over temperatures from 1929-2008

² Preliminary forecast for 2020 and will be updated prior to final assessment

Major Resource Changes

- **Loss: Big Hanaford at 248 MW**

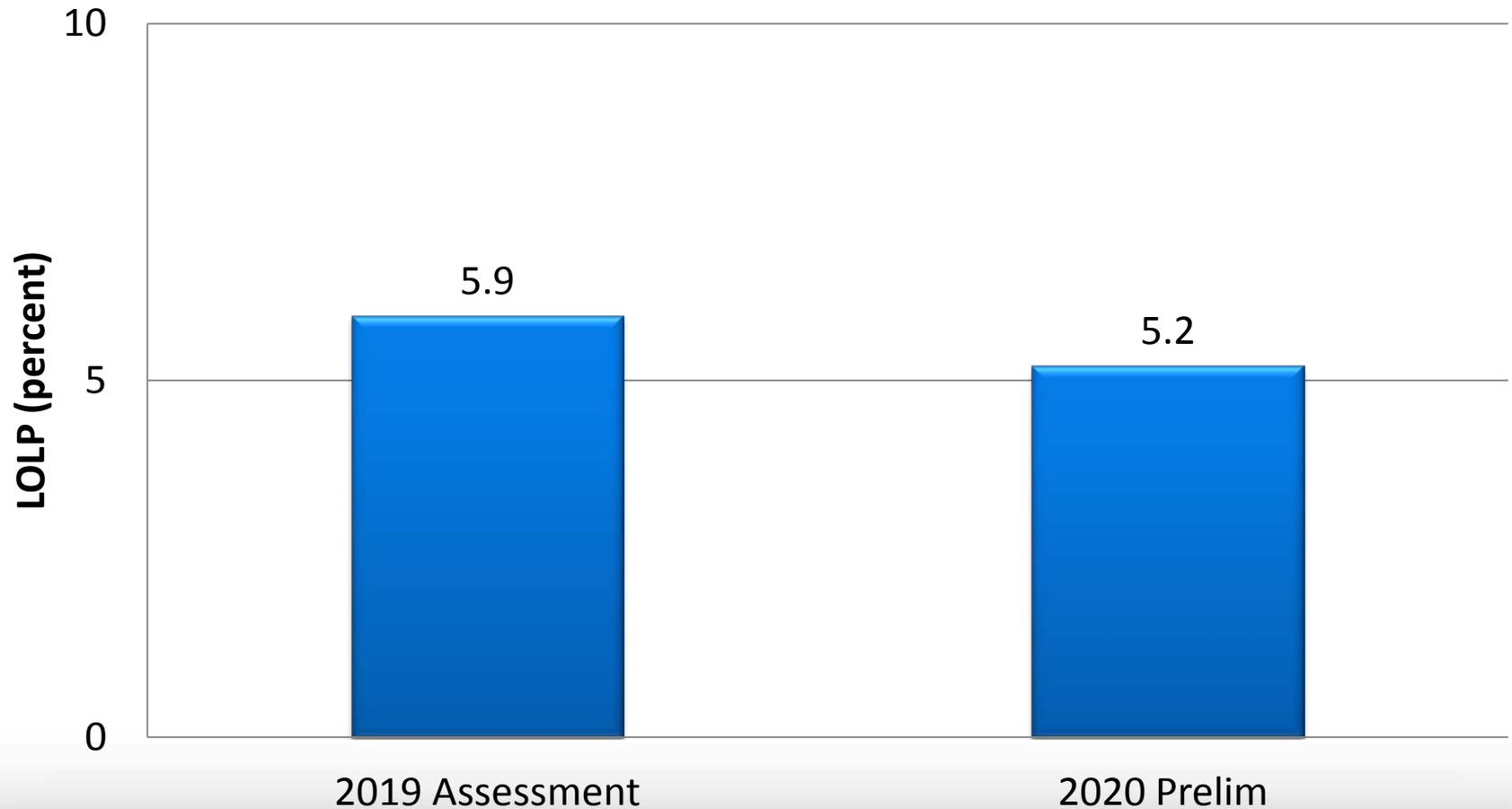
Hydro and Sustained Peaking

- **New hydro regulation data implements the latest BiOp measures, which include summer bypass spill**
- **Sustained peaking:**
 - **2019: Used min turbine flow for DEC**
 - **2020: Incorporates 900/1100 INC/DEC into the optimization process**

Modeling Changes for 2020

- **Modified purchase-ahead logic**
 - Now allows purchase ahead for anticipated shortfalls in month, window and day
 - Off-peak hours only
 - Limited by south-to-north tie limits
- **Redefined the dispatch window**
 - Changed from 2-day to 7-day window
 - Lines up better with operating procedures
- **Allow winter spot market (on-peak) purchases for all hours of the day**

2020 Preliminary Assessment



Preliminary Results for 2020

Load	-2.5%	-1.5%	0%	+1.5%	+2.5%
Import (MW)					
0					
1700					
2500			5.2%		
3400					
4500					