



Integrated Resource Plan Update

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Deliverables

Phase 1: CPUC IRP Compliance Filing

- Analysis based on prescriptive assumptions
- Narrative – analysis, process, results, lessons learned
- Resource Data – conforming & “preferred” portfolios
- Clean System Power Calculator

Phase 2: Establish EBCE Organizational Goals

- Additional analysis
- Identify reliability needs
- Define trade-offs between organizational objectives
- Inform procurement recommendations
- Develop path to expedited GHG reduction

Revised CPUC Requirements

- 46 MMT *and* 38 MMT scenarios

| LSE | 2030 Load (GWh) | Share of 2030 load in <u>IOU territory</u> | 2030 GHG emissions benchmark – 46 MMT scenario | 2030 GHG emissions benchmark – 38 MMT scenario |
|---------------|--------------------|--|--|--|
| PG&E Bundled | 26,777 | 35.2% | 5.479 | 4.526 |
| EBCE | 6,910 ¹ | 9.08% | 1.414 (or ~900,000MT) ² | 1.168 (or ~668,000MT) ² |
| SCE Bundled | 54,393 | 63.49% | 9.687 | 8.003 |
| SDG&E Bundled | 5,366 | 29.46 | 1.198 | 0.990 |

¹ Load represents CPUC approved load forecast as of 4/15/20; subject to revision in final IRP analyses and filing.

² GHG emissions benchmark includes EBCE's proportional share of behind-the-meter CHP emissions. This value equals approximately 500,000 MT/year.

- Specific Input Requirements
- Filing date: September 1, 2020

Context / Comparison

Assumption: use of April's Board-approved PCL methodology: RPS+5%

| 2020 Load Forecast (GWh) | <u>Estimated</u> 2020 GHG emissions for 39.5% RPS ¹ | <u>Estimated</u> 2024 GHG emissions for 49% RPS ² | 2030 Load (GWh) | 2030 GHG emissions benchmark – 46 MMT scenario | 2030 GHG emissions benchmark – 38 MMT scenario |
|--------------------------|--|--|-----------------|--|--|
| Total: 5,900 | Total: n/a | Total: n/a | | | |
| Bright Choice: 4,889 | Bright Choice: 970 MT + CHP | Bright Choice: 872 MT + CHP | 6,910 | 1.414 (or ~900,000MT) | 1.168 (or ~668,000MT) |

¹ 39.5% represents 5% above PG&E's 2019 renewable energy power content forecast (per 2019 Bundled RPS Energy Sale Solicitation Advice Letter filing)

² 49% is an estimate. It represents 5% above the 2024 RPS compliance target of 44%

Scenario Analysis Will Evaluate...

| Key Evaluation Metrics | Scenario 1: 46 MMT / i.e. 1.414 MMT | Scenario 2: 38 MMT / i.e. 1.168 MMT | Scenario 3: EBCE aggressive i.e. 90.5% CO2- free by 2024 |
|---|---|---|---|
| Carbon Free | | | |
| Reliability | | | |
| Affordability (Cost) | | | |
| Resource Mix (incl. New build vs existing) | | | |
| Spot Market vs Short-Term vs Long- Term Contracts | | | |
| Risk Mgmt | | | |