

### Appendix 1: Quantitative Information

Net Short Calculations Using PG&E Bundled Retail Sales Forecast In Near Term (2012 - 2016) and LTPP Methodology (2017 - 2030)\*\*

#### Current Expected Need Scenario (Annual)

Line #	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1	RPS Target																			
2	Voluntary Margin of Over-Procurement (GWh)																			
3	Aggregate Volumes (GWh)																			
4	Annual RPS Position (%)																			
5	Gross Surplus/(Deficit) compared to Annual Targets* (GWh)																			
6	Volumes (Banked) or Withdrawn from Bank																			
7	Net Surplus/(Deficit) (GWh)																			
8	Net Annual RPS Positions (%) with Use of Bank																			
9	Cumulative Banked Volumes (GWh)																			
10	Forecast Failure Rate (%) for New Projects not yet online																			
11	Forecast Failure Rate (%) for Existing Generation																			

#### Current Expected Need Scenario (Compliance Period)

Line #	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
12	Compliance Period Requirement																			
13	Voluntary Margin of Over-Procurement (GWh)																			
14	Aggregate Volumes (GWh)																			
15	RPS Position (%)																			
16	Gross Surplus/(Deficit) (GWh)																			
17	Volumes (Banked) or Withdrawn from Bank (GWh)																			
18	Net Surplus/(Deficit) (GWh)																			
19	Net RPS Positions (%)																			
20	Cumulative Banked Volumes (GWh)																			
21	Forecast Failure Rate (%) for New Projects not yet online																			
22	Forecast Failure Rate (%) for Existing Generation																			

23	Total RPS Risk Adjusted Net Short (2011-2030) (GWh)	Redacted
		Redacted

#### Pessimistic (High Need) Scenario (Annual)

Line #	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
24	RPS Target																			
25	Voluntary Margin of Over-Procurement (GWh)																			
26	Aggregate Volumes (GWh)																			
27	Annual RPS Position (%)																			
28	Gross Surplus/(Deficit) compared to Annual Targets* (GWh)																			
29	Volumes (Banked) or Withdrawn from Bank																			
30	Net Surplus/(Deficit) (GWh)																			
31	Net Annual RPS Positions (%) with Use of Bank																			
32	Cumulative Banked Volumes (GWh)																			
33	Forecast Failure Rate (%) for New Projects not yet online																			
34	Forecast Failure Rate (%) for Existing Generation																			

#### Pessimistic (High Need) Scenario (Compliance Period)

Line #	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
35	Compliance Period Requirement																			
36	Voluntary Margin of Over-Procurement (GWh)																			
37	Aggregate Volumes (GWh)																			
38	RPS Position (%)																			
39	Gross Surplus/(Deficit) (GWh)																			

40	Volumes (Banked) or Withdrawn from Bank (GWh)
41	Net Surplus/(Deficit) (GWh)
42	Net RPS Positions (%)
43	Cumulative Banked Volumes (GWh)
44	Forecast Failure Rate (%) for New Projects not yet online
45	Forecast Failure Rate (%) for Existing Generation

46 Total RPS Risk Adjusted Net Short (2011-2030) (GWh) [Redacted]

[Redacted]

**Optimistic (Low Need) Scenario (Annual)**

Line #		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
47	RPS Target	[Redacted]																			
48	Voluntary Margin of Over-Procurement (GWh)	[Redacted]																			
49	Aggregate Volumes (GWh)	[Redacted]																			
50	Annual RPS Position (%)	[Redacted]																			
51	Gross Surplus/(Deficit) compared to Annual Targets* (GWh)	[Redacted]																			
52	Volumes (Banked) or Withdrawn from Bank	[Redacted]																			
53	Net Surplus/(Deficit) (GWh)	[Redacted]																			
54	Net Annual RPS Positions (%) with Use of Bank	[Redacted]																			
55	Cumulative Banked Volumes (GWh)	[Redacted]																			
56	Forecast Failure Rate (%) for New Projects not yet online	[Redacted]																			
57	Forecast Failure Rate (%) for Existing Generation	[Redacted]																			

**Optimistic (Low Need) Scenario (Compliance Period)**

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
58	Compliance Period Requirement	[Redacted]																			
59	Voluntary Margin of Over-Procurement (GWh)	[Redacted]																			
60	Aggregate Volumes (GWh)	[Redacted]																			
61	RPS Position (%)	[Redacted]																			
62	Gross Surplus/(Deficit) (GWh)	[Redacted]																			
63	Volumes (Banked) or Withdrawn from Bank (GWh)	[Redacted]																			
64	Net Surplus/(Deficit) (GWh)	[Redacted]																			
65	Net RPS Positions (%)	[Redacted]																			
66	Cumulative Banked Volumes (GWh)	[Redacted]																			
67	Forecast Failure Rate (%) for New Projects not yet online	[Redacted]																			
68	Forecast Failure Rate (%) for Existing Generation	[Redacted]																			

69 Total RPS Risk Adjusted Net Short (2011-2030) (GWh) [Redacted]

[Redacted]

[Redacted]

[Redacted]