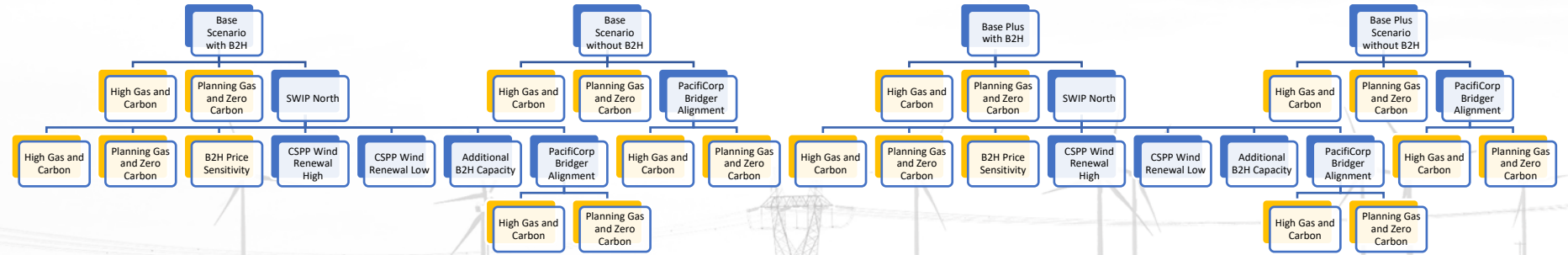
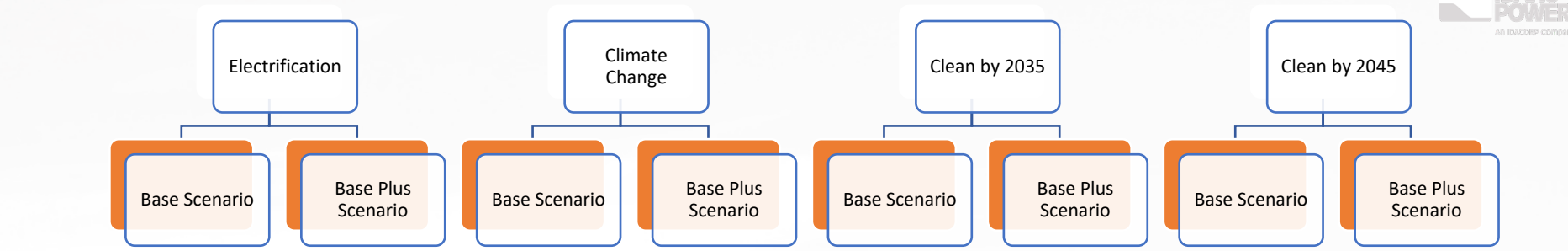




IRPAC Analysis Check-In Preliminary Results

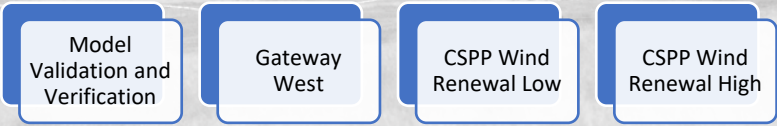
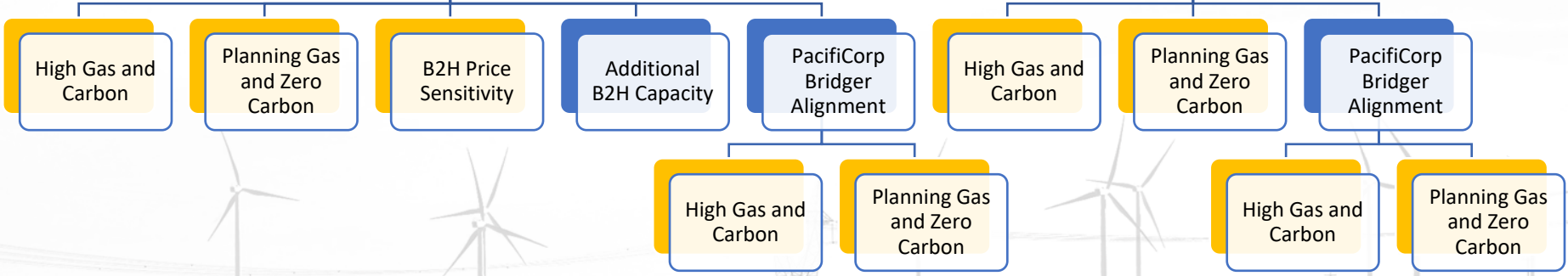
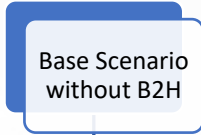
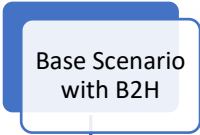
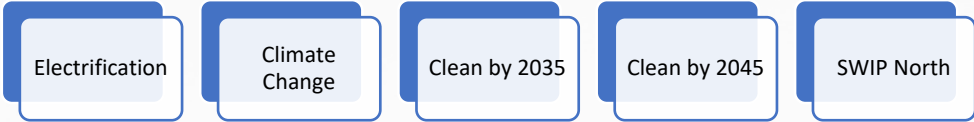
IRP Advisory Council, October 21, 2021





Color Key

- Long-Term Capacity Expansion (LTCE) Run
- Production run sensitivity



Color Key
 Long-Term Capacity Expansion (LTCE) Run
 Production run sensitivity

2019 IRP Preferred Portfolio

Table 10.2 Preferred Portfolio additions and coal exits (MW)

| | Gas | Solar | Battery | Demand Response | Coal Exit |
|------------------------|------------|------------|-----------|-----------------|-----------------------------|
| 2019 | | | | | -127 (Valmy) |
| 2020 | | | | | -58 (Boardman) |
| 2021 | | | | | |
| 2022 | | 120 | | | -177 -133 (Bridger, Valmy*) |
| 2023 | | | | | |
| 2024 | | | | | |
| 2025 | | | | | |
| 2026 | | | | | -180 (Bridger) |
| 2027 | | | | | |
| 2028 | | | | | -174 (Bridger) |
| 2029 | | | | | |
| 2030 | | 40 | 30 | 5 | -177 (Bridger) |
| 2031 | 300 | | | 5 | |
| 2032 | | | | 5 | |
| 2033 | | | | 5 | |
| 2034 | | 40 | 20 | 5 | |
| 2035 | | 80 | 20 | 5 | |
| 2036 | | 120 | 10 | 5 | |
| 2037 | 55.5 | | | 5 | |
| 2038 | 55.5 | | | 5 | |
| Nameplate Total | 411 | 400 | 80 | 45 | -1,026 |
| B2H (2026) | 500 | | | | |

2019 vs. 2021 Base

Table 10.2 Preferred Portfolio additions and coal exits (MW)

| | Gas | Solar | Battery | Demand Response | Coal Exit |
|------------------------|------------|------------|-----------|-----------------|-----------------------------|
| 2019 | | | | | -127 (Valmy) |
| 2020 | | | | | -58 (Boardman) |
| 2021 | | | | | |
| 2022 | | 120 | | | -177 -133 (Bridger, Valmy*) |
| 2023 | | | | | |
| 2024 | | | | | |
| 2025 | | | | | |
| 2026 | | | | | -180 (Bridger) |
| 2027 | | | | | |
| 2028 | | | | | -174 (Bridger) |
| 2029 | | | | | |
| 2030 | | 40 | 30 | 5 | -177 (Bridger) |
| 2031 | 300 | | | 5 | |
| 2032 | | | | 5 | |
| 2033 | | | | 5 | |
| 2034 | | 40 | 20 | 5 | |
| 2035 | | 80 | 20 | 5 | |
| 2036 | | 120 | 10 | 5 | |
| 2037 | 55.5 | | | 5 | |
| 2038 | 55.5 | | | 5 | |
| Nameplate Total | 411 | 400 | 80 | 45 | -1,026 |
| B2H (2026) | 500 | | | | |

| | Gas | Wind | Solar | Base Storage | DR | Coal Exit | EE |
|-----------------------|--------------|------------|--------------|--------------|------------|-------------|------------|
| 2021 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| 2022 | 0 | 0 | 0 | 0 | 300 | 0 | 24 |
| 2023 | 0 | 0 | 120 | 110 | 20 | -357 | 24 |
| 2024 | 357 | 400 | 15 | 20 | 0 | 0 | 25 |
| 2025 | 0 | 0 | 482 | 87 | 0 | -134 | 27 |
| 2026 | 0 | 0 | 215 | 0 | 0 | 0 | 28 |
| 2027 | 0 | 0 | 250 | 0 | 0 | 0 | 27 |
| 2028 | 0 | 0 | 120 | 0 | 0 | -174 | 27 |
| 2029 | 0 | 0 | 0 | 5 | 0 | 0 | 26 |
| 2030 | 0 | 0 | 0 | 5 | 0 | 0 | 24 |
| 2031 | 0 | 0 | 54 | 59 | 0 | -175 | 24 |
| 2032 | 0 | 0 | 214 | 219 | 0 | 0 | 23 |
| 2033 | 0 | 0 | 66 | 71 | 0 | 0 | 22 |
| 2034 | -357 | 0 | 181 | 286 | 0 | 0 | 21 |
| 2035 | 0 | 0 | 104 | 209 | 0 | 0 | 20 |
| 2036 | 0 | 0 | 50 | 57 | 0 | 0 | 16 |
| 2037 | 0 | 0 | 0 | 82 | 0 | 0 | 14 |
| 2038 | 0 | 0 | 74 | 179 | 0 | 0 | 12 |
| 2039 | 0 | 0 | 45 | 65 | 0 | 0 | 11 |
| 2040 | 0 | 0 | 0 | 74 | 0 | 0 | 10 |
| Nameplate | 0 | 400 | 1,991 | 1,529 | 320 | -841 | 428 |
| B2H | 500 | | | | | | |
| Total with B2H | 4,328 | | | | | | |

B2H vs. No B2H

| | Base | | | | | | | Base No B2H | | | | | | |
|-----------------------|--------------|------|-------|---------|-----|-----------|-----|--------------|------|-------|---------|-----|-----------|-----|
| | Gas | Wind | Solar | Storage | DR | Coal Exit | EE | Gas | Wind | Solar | Storage | DR | Coal Exit | EE |
| 2021 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| 2022 | 0 | 0 | 0 | 0 | 300 | 0 | 24 | 0 | 0 | 0 | 0 | 300 | 0 | 24 |
| 2023 | 0 | 0 | 120 | 110 | 20 | -357 | 24 | 0 | 0 | 120 | 110 | 20 | -357 | 24 |
| 2024 | 357 | 400 | 15 | 20 | 0 | 0 | 25 | 357 | 400 | 15 | 20 | 0 | 0 | 25 |
| 2025 | 0 | 0 | 482 | 87 | 0 | -134 | 27 | 0 | 0 | 700 | 305 | 0 | -134 | 27 |
| 2026 | 0 | 0 | 215 | 0 | 0 | 0 | 28 | 0 | 0 | 215 | 14 | 0 | 0 | 28 |
| 2027 | 0 | 0 | 250 | 0 | 0 | 0 | 27 | 0 | 0 | 250 | 91 | 0 | 0 | 27 |
| 2028 | 0 | 0 | 120 | 0 | 0 | -174 | 27 | 0 | 0 | 124 | 109 | 0 | 0 | 27 |
| 2029 | 0 | 0 | 0 | 5 | 0 | 0 | 26 | 0 | 0 | 44 | 53 | 0 | 0 | 26 |
| 2030 | 0 | 0 | 0 | 5 | 0 | 0 | 24 | 0 | 100 | 31 | 36 | 0 | -175 | 24 |
| 2031 | 0 | 0 | 54 | 59 | 0 | -175 | 24 | 0 | 0 | 224 | 240 | 0 | 0 | 24 |
| 2032 | 0 | 0 | 214 | 219 | 0 | 0 | 23 | 0 | 0 | 37 | 50 | 0 | 0 | 23 |
| 2033 | 0 | 0 | 66 | 71 | 0 | 0 | 22 | 0 | 0 | 35 | 75 | 0 | 0 | 22 |
| 2034 | -357 | 0 | 181 | 286 | 0 | 0 | 21 | -357 | 0 | 14 | 56 | 0 | -174 | 21 |
| 2035 | 0 | 0 | 104 | 209 | 0 | 0 | 20 | 0 | 300 | 433 | 552 | 20 | 0 | 20 |
| 2036 | 0 | 0 | 50 | 57 | 0 | 0 | 16 | 0 | 0 | 0 | 62 | 0 | 0 | 16 |
| 2037 | 0 | 0 | 0 | 82 | 0 | 0 | 14 | 0 | 0 | 65 | 75 | 0 | 0 | 14 |
| 2038 | 0 | 0 | 74 | 179 | 0 | 0 | 12 | 0 | 0 | 135 | 172 | 0 | 0 | 12 |
| 2039 | 0 | 0 | 45 | 65 | 0 | 0 | 11 | 0 | 0 | 21 | 55 | 20 | 0 | 11 |
| 2040 | 0 | 0 | 0 | 74 | 0 | 0 | 10 | 0 | 0 | 0 | 74 | 0 | 0 | 10 |
| Nameplate | 0 | 400 | 1,991 | 1,529 | 320 | -841 | 428 | 0 | 800 | 2,464 | 2,149 | 360 | -840 | 428 |
| B2H | 500 | | | | | | | 0 | | | | | | |
| Total with B2H | 4,328 | | | | | | | 5,361 | | | | | | |