

- 1 **Q. (2021 Electrification, Conservation and Demand Management Application, Volume**
 2 **1, page 5) Over the 2009 to 2020 timeframe, energy bill savings from CDM**
 3 **programs are estimated at \$118 million. Please provide this calculation and all**
 4 **assumptions. What would the customer bill savings be assuming the same quantities**
 5 **going forward in the 2021 to 2025 timeframe? Please provide that calculation and**
 6 **all assumptions as well.**
- 7
- 8 **A.** The bill savings calculation uses the annual estimated energy savings for residential
 9 customers and general service customers.
- 10
- 11 For residential customers, the energy savings are applied to the applicable yearly kWh
 12 charge, including tax, to estimate the annual bill savings. Results are outlined in Table 1.

Table 1:
Residential Bill Savings
2009 to 2020F

| Year | Energy Savings (MWh) | Electricity Rate Including Tax (\$/kWh) | Bill Savings Including Tax (\$000s) |
|--------------|-----------------------------|--|--|
| 2009 | 2,463 | 0.10075 | 248 |
| 2010 | 6,815 | 0.10651 | 726 |
| 2011 | 17,646 | 0.11028 | 1,946 |
| 2012 | 25,290 | 0.11729 | 2,966 |
| 2013 | 32,904 | 0.11492 | 3,781 |
| 2014 | 44,189 | 0.11737 | 5,186 |
| 2015 | 57,136 | 0.11525 | 6,585 |
| 2016 | 79,407 | 0.11080 | 8,798 |
| 2017 | 103,291 | 0.12195 | 12,596 |
| 2018 | 128,254 | 0.13100 | 16,801 |
| 2019 | 151,106 | 0.14033 | 21,205 |
| 2020F | 163,961 | 0.14033 | 23,009 |
| Total | | | 103,847 |

1 For general service customers, the energy savings are applied to a blended kWh charge to
 2 estimate the combined annual bill savings. The weighted kWh charge combines the
 3 second block energy charge with a weighted peak demand savings benefit based on four
 4 months of Winter Demand and eight months of Non-Winter Demand. Results are
 5 outlined in Table 2.

**Table 2:
 Commercial Bill Savings
 2009 to 2020F**

| Year | Energy Savings (MWh) | Electricity Rate (\$/kWh) | Bill Savings Including Tax (\$000s) |
|--------------|-----------------------------|----------------------------------|--|
| 2009 | 170 | 0.07338 | 12 |
| 2010 | 877 | 0.07700 | 68 |
| 2011 | 2,169 | 0.08581 | 186 |
| 2012 | 2,947 | 0.09351 | 276 |
| 2013 | 3,443 | 0.09099 | 313 |
| 2014 | 5,824 | 0.09332 | 543 |
| 2015 | 9,441 | 0.08574 | 809 |
| 2016 | 12,284 | 0.07419 | 911 |
| 2017 | 20,402 | 0.08318 | 1,697 |
| 2018 | 27,544 | 0.09023 | 2,485 |
| 2019 | 35,233 | 0.09653 | 3,401 |
| 2020F | 40,585 | 0.09653 | 3,918 |
| Total | | | 14,619 |

6 Combined, residential and general service bill savings are approximately \$118 million.¹

¹ \$103.847 million in Table 1 + \$14.619 million in Table 2 = \$118.466 million.

1 The same approach is employed for estimating forecasted bill savings for the years 2021-
 2 2025, with the exception that future rates are escalated 2.25% per year, starting in 2021.²
 3 Results are outlined in Tables 3 and 4.

**Table 3:
 Residential Bill Savings
 2021F to 2025F**

| Year | Energy Savings (MWh) | Electricity Rate Including Tax (\$/kWh) | Bill Savings Including Tax (\$000s) |
|--------------|-----------------------------|--|--|
| 2021 | 178,649 | 0.14350 | 25,636 |
| 2022 | 195,395 | 0.14672 | 28,668 |
| 2023 | 204,958 | 0.15002 | 30,748 |
| 2024 | 215,224 | 0.15340 | 33,015 |
| 2025 | 226,877 | 0.15685 | 35,586 |
| Total | | | 153,653 |

**Table 4:
 Commercial Bill Savings
 2021F to 2025F**

| Year | Energy Savings (MWh) | Electricity Rate (\$/kWh) | Bill Savings Including Tax (\$000s) |
|--------------|-----------------------------|----------------------------------|--|
| 2021 | 46,994 | 0.09870 | 4,638 |
| 2022 | 53,812 | 0.10092 | 5,431 |
| 2023 | 60,879 | 0.10319 | 6,282 |
| 2024 | 68,028 | 0.10551 | 7,178 |
| 2025 | 76,146 | 0.10789 | 8,215 |
| Total | | | 31,744 |

4 Combined, residential and general service bill savings for 2021F-2025F are forecast to be
 5 \$185 million.³

² See CA-NP-026 for basis of assuming 2.25% annual rate escalation.

³ \$153.653 million in Table 3 + \$31.744 million in Table 4 = \$185.397 million.