**Appendix 1. Criteria for Categorizing Utilities into Tiers Based on Policy Cases**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Residential** | **Policy Cases** | | | | | | |
|  | **Option** | **Benchmarking** | | | **Demand Response** | | |
|  | | Standard Access | Tier 2 | Tier 1 | Standard Access | Tier 2 | Tier 1 |
| **Delivery of data** | Mail | **At least one of these.** |  |  | **At least one of these.** |  |  |
|  | Online in easily downloadable and machine-readable formats including Energy Service Provider Interface (ESPI) | **At least one of these.** | **X** | **At least one of these.** | **At least one of these.** |
|  | Online as PDF, directly visible on a web page, or similar forms |  |
|  | In-home through a home area network, dedicated device, or mobile app |  |  |  | **X\*** |
| **Time-period (any combination of delivery modes that satisfy these requirements)** | Last month | **At least one of these** | **X** | **X** | **At least one of these.** | **X** | **X** |
|  | Last 13 months | **X** | **X** | **X** | **X** |
|  | Since last bill |  |  |  | **X** |
|  | Last 24 months |  | **X** |  |  |
| **Frequency of data** | Less than 15-minute increments with reporting delay | **At least one of these.** | **At least one of these.** | **At least one of these.** | **At least one of these.** |  | **At least one of these.** |
|  | Less than 15-minute increments without reporting delay. |  |
|  | 15-minute increments |  |
|  | Hourly |  |  |
|  | Daily | **X** |  |
|  | Monthly | **X** | **X** |  |
|  | Less frequently than monthly |  |  |  |  |
| **Access to data** | Customer | **At least one of these.** | **X** | **X** | **At least one of these.** | **X** | **X** |
|  | Available to authorized third party with fee | **At least one of these.** |  | **At least one of these.** |  |
|  | Available to authorized third party without fee | **X** | **X** |
|  | Third-party access via separate account |  | **X** |  | **X** |
| **Consumption Data (kWh)** |  |  |  | **X** |  |  | **X** |
| **Demand Data (kW)** |  |  |  |  |  |  | **X** |
| **Commercial** | **Policy Cases** | | | | | | |
|  | **Option** | **Benchmarking** | | | **Demand Response** | | |
|  | | Standard Access | Tier 2 | Tier 1 | Standard Access | Tier 2 | Tier 1 |
| **Delivery of data** | Mail | **At least one of these.** |  |  | **At least one of these.** |  |  |
|  | Online in easily downloadable and machine-readable formats including Energy Service Provider Interface (ESPI) | **At least one of these.** | **X** | **At least one of these.** | **X** |
|  | Online as PDF, directly visible on a web page, or similar forms |  |  |
|  | In-building through a building area network, dedicated device, or mobile app |  |  |  |  |
| **Time-period (any combination of delivery modes that satisfy these requirements)** | Last month | **At least one of these.** | **X** |  | **At least one of these.** | **X** | **X** |
|  | Last 13 months | **X** | **X** | **X** | **X** |
|  | Since last bill |  |  |  | **X** |
|  | Last 24 months |  | **X** |  |  |
| **Frequency of data (any combination of delivery modes that satisfy these requirements)** | Less than 15-minute increments with reporting delay | **At least one of these.** | **At least one of these.** | **At least one of these.** | **At least one of these.** |  | **At least one of these.** |
|  | Less than 15-minute increments without reporting delay. |  |
|  | 15-minute increments |  |
|  | Hourly |  | **X** |
|  | Daily | **X** | **X** |
|  | Monthly | **X** | **X** | **X** |
|  | Less frequently than monthly |  |  |  |  |
| **Access to data** | Customer | **At least one of these.** | **X** | **X** | **At least one of these.** | **X** | **X** |
|  | Available to authorized third party with fee | **At least one of these.** | **At least one of these.** | **At least one of these.** | **At least one of these.** |
|  | Available to authorized third party without fee |
|  | Third-party access via separate account |  | **X** |  | **X** |
| **Consumption Data (kWh)** |  | **X** | **X** | **X** | **X** | **X** | **X** |
| **Demand Data (kW)** |  |  |  |  | **X** | **X** | **X** |
| **Aggregated data from multiple tenants** |  |  |  | **X** |  |  | **X** |

\*indicates requirement is for “delivery of data” criteria only (not for policy case of Demand Response/Energy Efficiency)