



July 30, 2026

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# **2025 Annual Report**

## Canadian Energy Efficiency Voluntary Agreement for Set-Top Boxes and Small Network Equipment

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# Executive Summary

The Canadian Energy Efficiency Voluntary Agreements (“CEEVA”) are a collaboration between the largest Internet and Pay TV service providers and consumer electronics manufacturers, in consultation with Natural Resources Canada (NRCan), to improve the energy efficiency of the set-top boxes (“STB”) that consumers use to access video services and the modems and routers (small network equipment, or “SNE”) they use to access Internet service. The primary objective of the CEEVA STB<sup>1</sup> and CEEVA SNE<sup>2</sup> programs is to improve the energy efficiency of set-top boxes and small network equipment while promoting innovation and introduction of new features without compromising the customer experience.

The core commitment of each program is that 90% of new devices purchased by each signatory each year meet efficiency levels prescribed by each CEEVA agreement. In addition to procuring energy-efficient devices, the signatories provide public access to information about the energy consumption characteristics of reported devices.

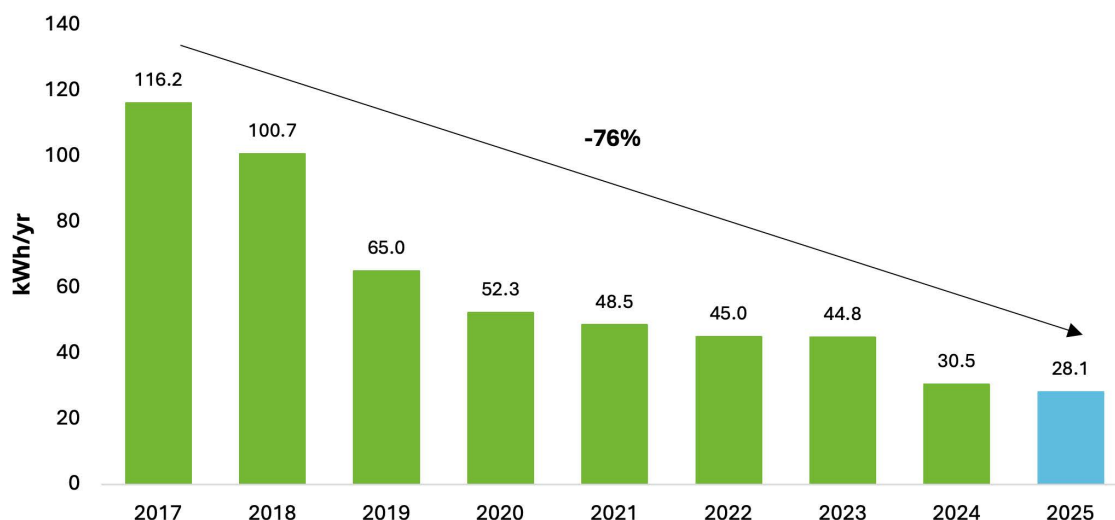
For 2025 a new Data Aggregator, Evergreen Economics, was selected to oversee these commitments and will continue to monitor the effectiveness of CEEVA year-over-year, including through the publication of this Annual Report.

In 2025, 100% of all new set-top boxes procured met the efficiency levels specified in the agreement. In the eight years since the agreement’s set-top box commitments were initiated, the weighted average energy consumption for new set-top boxes has declined by 76%, as shown in Figure 1. These conclusions are based on 2025 procurement data and the results of independent testing and auditing described in this report.

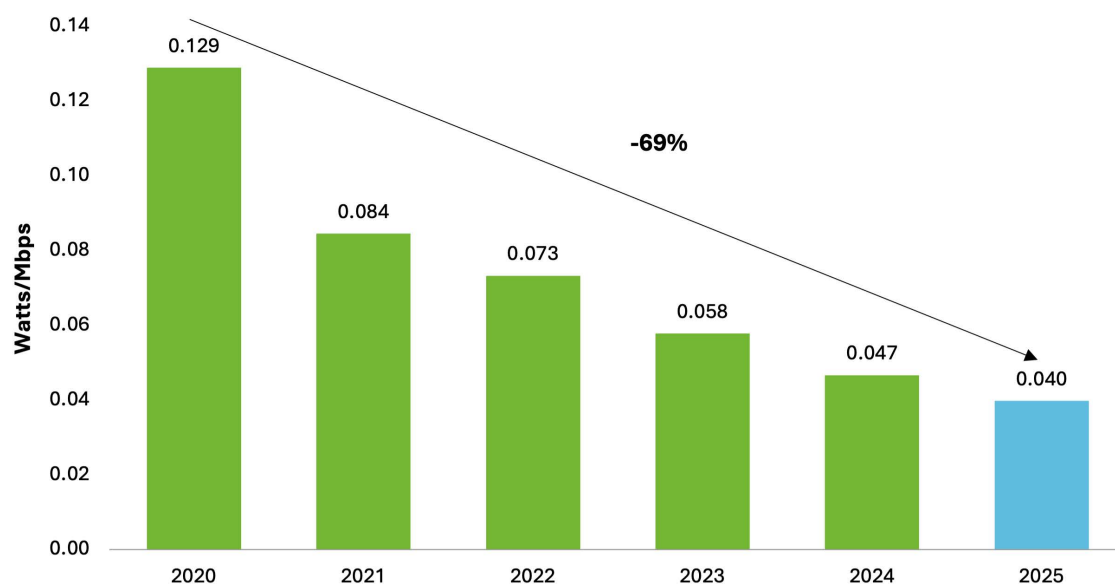
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<sup>1</sup> Canadian Energy Efficiency Voluntary Agreement for Set-Top Boxes (CEEVA STB), available at [https://www.energyefficiency-va.ca/wp-content/uploads/2026/03/CEEVA-STB-Amendment-Effective-2026\\_01\\_01.pdf](https://www.energyefficiency-va.ca/wp-content/uploads/2026/03/CEEVA-STB-Amendment-Effective-2026_01_01.pdf)

<sup>2</sup> Canadian Energy Efficiency Voluntary Agreement for Small Network Equipment (CEEVA SNE), available at [https://www.energyefficiency-va.ca/wp-content/uploads/2026/03/CEEVA-SNE-Amendment-Effective-2026\\_01\\_01.pdf](https://www.energyefficiency-va.ca/wp-content/uploads/2026/03/CEEVA-SNE-Amendment-Effective-2026_01_01.pdf)

**Figure 1: Weighted Average Energy Consumption of Purchased Set-Top Boxes**

For the fifth consecutive year, each service provider signatory reported that 100% of its new SNE purchases in 2025 met the applicable efficiency levels. The efficiency of SNE relative to their capability has increased since 2020. As shown in Figure 2, the weighted average power of new SNE devices purchased each year has decreased by 69% relative to broadband download speeds since SNE reporting began in 2020.

**Figure 2: Weighted Average Energy Usage of New SNE, Relative to Download Speed\***

\*The calculation was performed by dividing the weighted average Ready State power of new SNE purchases by the fixed mean broadband download speed in Canada reported by Ookla.

# Overview of CEEVA

## CEEVA Objective

The primary objective of CEEVA is to encourage deployment of energy-efficient set-top boxes and small network equipment while supporting advances in rapidly changing technologies and the enhancement of customer experience. By achieving this objective, CEEVA aims to reduce Canada's carbon footprint in a manner that supports innovation and the provision of high-quality service to meet customers' demands.

Given the nature of the North American consumer electronics market, CEEVA generally employs the same technical standards and test methods used in similar voluntary agreement programs in the United States,<sup>3</sup> coupled with provisions specific to Canada - including terms for the active participation of NRCan.

## CEEVA Signatories and Steering Committee

CEEVA signatories and participants are listed below. Each signatory and non-signatory member listed has representation on the Steering Committee.

### *Service Provider Signatories*

- Bell Canada
- Cogeco
- Rogers Communications
- TELUS
- Videotron

### *Manufacturer Signatories*

- EchoStar Technologies LLC (CEEVA STB only)
- Vantiva

### *Non-Signatory Members of the Steering Committee*

- Natural Resources Canada (NRCan)
- CableLabs®
- Consumer Technology Association® (CTA®)

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<sup>3</sup> Voluntary Agreement for Ongoing Improvement to the Energy Efficiency of Set-Top Boxes and Voluntary Agreement for Ongoing Improvement to the Energy Efficiency of Small Network Equipment, <https://energy-efficiency.us/>

The Steering Committee was established to discuss, review, and coordinate both CEEVA agreements. Its purpose includes ensuring that the following goals of CEEVA are met:

- Guaranteeing Canada-focused agreements that take into account the North American marketplace for set-top boxes and SNE
- Creating a simplified, transparent, and accountable process for evaluating and reporting energy consumption and compliance with energy efficiency commitments
- Supporting a consensus approach to decision making
- Promoting innovation and avoiding disruption of Canadian consumers and the Canadian market for video and broadband services

Additionally, the Steering Committee selects the Data Aggregator responsible for compiling and reporting data from each signatory and publishing the annual reports. D+R served as the Data Aggregator for both CEEVA STB and SNE through the completion of the 2024 annual report. In 2026, Evergreen was appointed as the Data Aggregator for both CEEVA STB and SNE.

## Energy Efficiency Commitments

The service providers' primary commitment is that 90% of each of the new set-top boxes and small network equipment devices they receive each year will meet energy efficiency levels prescribed by CEEVA. CEEVA aligns with the energy level values used in similar voluntary agreement programs in the United States for each of these types of devices. These levels are continuously reviewed for potential improvements to reflect market and technology developments and are periodically revised through new, more energy-efficient "tiers." In 2026, the CEEVA signatories extended their commitments to run through 2029 with reporting in 2030. In addition, they expanded the scope of CEEVA SNE to include Fixed Wireless Access (FWA) devices and adopted new, more stringent Tier 4 allowances for SNE to take effect in 2027.<sup>4</sup>

## Data Aggregator Role

The Data Aggregator is a third-party organization selected by the Steering Committee. Pursuant to CEEVA, the Data Aggregator must aggregate and analyze confidential procurement data submitted by the service provider signatories to determine satisfaction of the CEEVA commitments. Additionally, this role includes verifying the test results of each set-top box and SNE reported by service providers. If any of the commitments are not met, the Data Aggregator initiates a remedial process following the procedures set forth in CEEVA.

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<sup>4</sup> Canadian Communications Providers Extend Energy-Efficiency Commitments for Video Set-top Boxes, Home Internet Devices Through 2029, [https://www.energyefficiency-va.ca/wp-content/uploads/2026/03/CEEVA-Amendment-Public-Statement-2026\\_03\\_10.pdf](https://www.energyefficiency-va.ca/wp-content/uploads/2026/03/CEEVA-Amendment-Public-Statement-2026_03_10.pdf)

In addition to aggregating and analyzing the annual data submissions from each signatory, the Data Aggregator is also tasked with auditing one randomly selected service provider's procurement figures each year for each program.

## New Feature Allowances

To keep pace with fast-changing technologies and consumer demands, CEEVA includes a process that enables parties to develop and deploy set-top boxes and SNE with new energy-consuming features without seeking advance approval of a new energy allowance for that feature. Without this flexibility, innovation and competition could be stifled, and consumers could face delays in obtaining new features and services, while providers would be deprived of first-mover advantages in bringing new capabilities to market.

If a service provider deploys a set-top box or SNE that includes a new feature without an allowance and the applicable Tier levels are exceeded, it may set and report an appropriate initial allowance for the power consumption of said feature when reporting the device. The Steering Committee will review the proposals to set a new allowance for that feature within six months. No new feature allowances were reported for STB or SNE in 2025.

# CEEVA STB

Canadian Pay TV providers deliver traditional television service to approximately 8.64 million households.<sup>5</sup> Set-top boxes are used to deliver encrypted television programming, program guides, Personal Video Recorders (PVRs), and multi-room viewing to enhance the customer experience. Set-top boxes vary among service providers and include both hardware components and software programming which are updated frequently to deliver the newest services to customers.

To help improve the energy efficiency of set-top boxes, five of the largest Pay TV service providers, manufacturers of set-top boxes, and other supporting organizations participate in CEEVA STB. Past CEEVA Annual Reports have classified set-top boxes into two categories:

- **Personal Video Recorders (PVRs):** Set-top boxes with features that enable recording and playback of video content from a local hard disk drive or other local storage.
- **Non-PVRs:** Set-top boxes that do not include a local hard disk drive or other local storage for recording and playback of video content.

In 2024, for the first time under CEEVA, the service providers only purchased non-PVRs, which still holds true in 2025.

## Set-Top Box Market Coverage

The signatories established the objective that CEEVA STB cover at least 85% of the residential Canadian Pay TV market. In 2025, the signatories served approximately 8.2 million subscribers, accounting for approximately 96% of the total residential Pay TV market.

## Set-Top Boxes Covered

This report covers all new set-top boxes received by service provider signatories in 2025.

## Set-Top Box Testing

To demonstrate that the set-top boxes purchased by service provider signatories met the applicable efficiency levels, CEEVA STB requires all set-top boxes to be tested independently by a Steering Committee-approved organization with ISO 17065 or 17025 accreditation and/or recognized by the Standards Council of Canada for set-top box testing. The tests must be conducted running the service provider's software as it is normally installed for an end user.

For the 2025 reporting year, all service provider signatories submitted their accredited third-party testing results to the Data Aggregator. The Data Aggregator verified the test results and energy

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<sup>5</sup> Total subscriber count was taken as of Q3 2025, based on data from the Canadian Radio-television and Telecommunications Commission, available at <https://crtc.gc.ca/eng/publications/reports/PolicyMonitoring>.

consumption values against the reported values and Tier 4 requirements. All models tested at or below the energy consumption values reported by signatories.

## Set-Top Box Service Provider Commitments

The service providers' primary commitment under CEEVA STB in 2025 is that 90% of the new set-top boxes that each signatory receives will meet CEEVA STB's Tier 4 energy efficiency levels. For set-top boxes, the Tier 4 levels became applicable to purchases effective January 1, 2025. Tier 4 emphasizes further improvement to the IP non-PVR set-top box category that is expected to represent an increasing majority of new devices (or all new devices) in the future.

The service providers have also committed to providing information to consumers about the general energy consumption characteristics of set-top boxes that they receive, and to monitor and ensure the ongoing effectiveness of CEEVA STB by reviewing its terms annually.

## Report on Set-Top Box Procurement

In 2025, 100% of set-top boxes received by each service provider met Tier 4 levels, compared with 92.4% in 2023 and 100% in 2024, when Tier 3 was in effect. Table 1 shows the number of set-top boxes received by service providers and the percentage that met the applicable efficiency levels in 2025.

**Table 1: Received Set-Top Box Units by Category 2025**

| Category | Received Units | % of Units Meeting Tier 4 Levels |
|----------|----------------|----------------------------------|
| Non-PVRs | 1,065,444      | 100%                             |

## Set-Top Box Energy Efficiency Trends and Baseline

The weighted average Typical Energy Consumption<sup>6</sup> (TEC) for new set-top boxes received by the service provider signatories in 2025 was 28.1 kWh/year, declining by 8% from 2024 and by 76% compared to the weighted average TEC in 2017, the baseline established by CEEVA STB for measuring energy efficiency trends. This decline, illustrated in Table 2 (on the next page) and Figure 1 in the Executive Summary, is particularly noteworthy given customers' continued demand for increased functionality in these devices.

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<sup>6</sup> TEC is the product of a method for evaluating energy consumption through a calculation of the expected typical energy consumption for a specific model of set-top box during a one-year period, expressed in units of kWh/year.

**Table 2: Weighted Average TEC of New Set-Top Boxes, by Category 2017-2025<sup>7</sup>**

| Category          | Weighted Average TEC (kWh/yr) |              |             |             |             |             |             |             |             | Percent Change |             |
|-------------------|-------------------------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|-------------|
|                   | 2017                          | 2018         | 2019        | 2020        | 2021        | 2022        | 2023        | 2024        | 2025        | 2024-2025      | 2017-2025   |
| PVRs              | 156.4                         | 145.1        | 127.8       | 121.4       | 115.6       | 122.5       | 110.0       | N/A         | N/A         | N/A            | -30%        |
| Non-PVRs          | 85.2                          | 65.7         | 44.4        | 41.5        | 37.7        | 32.8        | 39.2        | 30.5        | 28.1        | -8%            | -67%        |
| <b>Total STBs</b> | <b>116.2</b>                  | <b>100.7</b> | <b>65.0</b> | <b>52.3</b> | <b>48.5</b> | <b>45.0</b> | <b>44.8</b> | <b>30.5</b> | <b>28.1</b> | <b>-8%</b>     | <b>-76%</b> |

These savings are driven by the cessation of PVR procurement, the greater efficiency of non-PVR devices enabled by the migration to IP technology, and the deployment of whole-home and cloud-based recording architectures. Whole-home systems allow a single in-home PVR to serve non-PVR devices throughout the home, while cloud-based services enable IP-connected customers to record and view content without an in-home PVR. The impact of these innovative offerings is illustrated in Table 3, which shows a steep decline in the purchase of PVRs until the last units were purchased in 2023. Meanwhile, the 67% improvement in non-PVRs efficiency is attributable in large part to the use of more efficient IP technology that is used in 100% of the non-PVRs purchased in 2025.

**Table 3: Percentage of Set-Top Boxes Received by Category 2017-2025**

| Category | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
|----------|------|------|------|------|------|------|------|------|------|
| PVRs     | 44%  | 44%  | 25%  | 13%  | 14%  | 14%  | 8%   | 0%   | 0%   |
| Non-PVRs | 56%  | 56%  | 75%  | 87%  | 86%  | 86%  | 92%  | 100% | 100% |

In summary, the improved energy efficiency of models and the shift to all lower-powered non-PVR IP models have combined to dramatically reduce the overall energy usage of new set-top box purchases.

<sup>7</sup> Because no PVRs were purchased by the service providers in 2024 or 2025, the 2017-2023 percent change for PVRs is reported in the 2017-2025 column.

# CEEVA SNE

In 2025, the service provider signatories provided fixed broadband Internet services to approximately 13.8 million Canadian residential customers. The service provider signatories each committed that 90% of their new modems, routers, and other SNE used to serve these customers meet prescribed efficiency levels beginning January 1, 2021. Tier 3 efficiency levels have been in effect since 2024, and 100% of new units purchased in 2025 met the Tier 3 requirements. A new Tier 4 has been adopted and will go into effect beginning January 1, 2027.

## Small Network Equipment Covered

CEEVA classifies SNE into three categories:

- **Broadband Modem:** A simple network device deployed within the home that enables fixed broadband Internet access service with a WAN (Wide Area Network) interface to a service provider network, and typically a single LAN (Local Area Network) interface for the customer premise network. The Broadband Modem category does not include devices with integrated router or IEEE 802.11 (Wi-Fi) wireless access point functionality.
- **Integrated Access Device (IAD):** A network device deployed within the home that enables fixed broadband Internet access service with a WAN interface to a service provider network and one or more of the following functions on the LAN interface: multiport routing, IEEE 802.11 (Wi-Fi) wireless access point functionality, and/or VoIP.
- **Local Network Equipment (LNE):** A network device that does not have a direct interface to a service provider network. This category consists of routers, wireless access points, switches, and network extenders that bridge or extend a LAN beyond its physical limitations.

The commitment effective date for CEEVA SNE was January 1, 2021. This is the fifth Annual Report in which the procurement commitments are in effect.

## Small Network Equipment Testing

Products procured in the reporting period are required to be tested by a Steering Committee-approved organization with ISO 17065 or 17025 accreditation and/or recognized by the Standards Council of Canada for SNE testing. Devices are tested in the “Ready State” in accordance with the ANSI/CTA-2049-B test method. In 2025, the test results were verified to be consistent with the reported power levels for all models tested.

## Small Network Equipment Service Provider Commitments

The service providers’ primary commitment under CEEVA SNE is that 90% of the new devices that each signatory receives each year will meet CEEVA SNE’s energy efficiency levels. Service providers have also committed to inform consumers about the general energy consumption characteristics of SNE that they receive and to take reasonable steps to monitor the effectiveness of CEEVA SNE by reviewing its terms annually.

## Report on Small Network Equipment Procurement

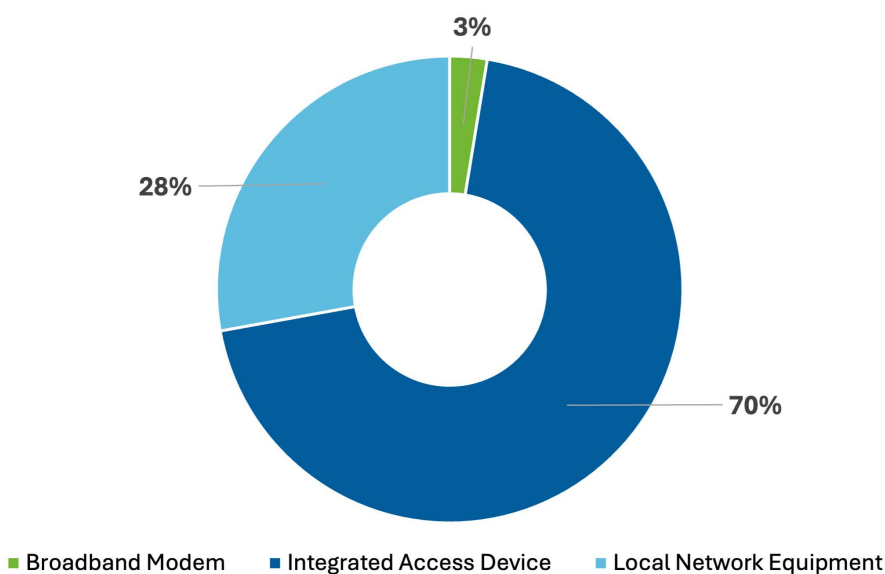
In 2025, 100% of new SNE purchased by the service provider signatories met the CEEVA SNE Tier 3 energy efficiency levels, as shown in Table 4.

**Table 4: Total Units Received in 2025 and Number Meeting Energy Efficiency Levels, by Small Network Equipment Type**

| Category                 | Received Units   | Number Meeting Tier 3 Levels | % Meeting Tier 3 Levels |
|--------------------------|------------------|------------------------------|-------------------------|
| Broadband Modem          | 74,865           | 74,865                       | 100%                    |
| Integrated Access Device | 2,016,346        | 2,016,346                    | 100%                    |
| Local Network Equipment  | 807,006          | 807,006                      | 100%                    |
| <b>Total</b>             | <b>2,898,217</b> | <b>2,898,217</b>             | <b>100%</b>             |

IADs represent 70% of reported products and LNE represents 28%, while Broadband Modems account for 3%. Figure 3 shows the category breakdown, by percentage, of the units purchased.

**Figure 3: Small Network Equipment, by Equipment Type**



## Small Network Equipment Energy Efficiency

The total weighted average power of new SNE declined by 16% from 2020 to 2025, notwithstanding a 4% increase from 2024 to 2025. The increase in the past year likely is driven by consumer demand for faster Internet speeds and better Wi-Fi coverage that require additional power in SNE. Details of the new SNE received by the service provider signatories in 2025 are provided in Appendix B. The energy efficiency of each model is assessed based on its suite of functions and capabilities, which vary

widely. The weighted average power of each of the categories reported for CEEVA SNE is shown in Table 5.

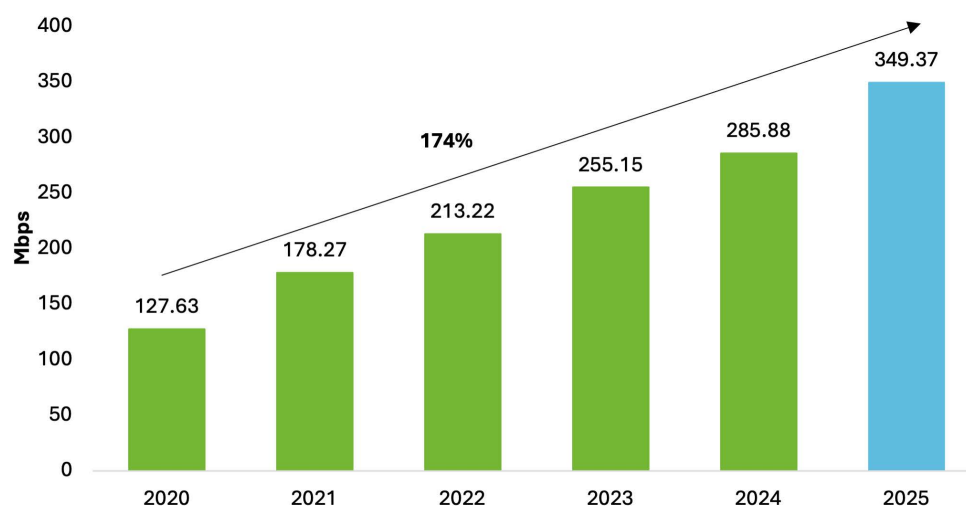
**Table 5: Weighted Average Ready State Power Consumption for Small Network Equipment Purchased in 2020-2025**

| SNE Category                  | Average Weighted Power (in Watts) |              |              |              |              |              |
|-------------------------------|-----------------------------------|--------------|--------------|--------------|--------------|--------------|
|                               | 2020                              | 2021         | 2022         | 2023         | 2024         | 2025         |
| Integrated Access Device*     | 20.46                             | 17.85        | 17.13        | 16.37        | 14.98        | 15.62        |
| Local Network Equipment       | 4.30                              | 6.23         | 6.75         | 8.02         | 9.17         | 9.72         |
| <b>Total Weighted Average</b> | <b>16.44</b>                      | <b>15.06</b> | <b>15.61</b> | <b>14.72</b> | <b>13.32</b> | <b>13.86</b> |

\*Broadband Modem purchases are rolled into IAD.

It is difficult to make useful comparisons in the absolute power used by SNE devices over time because the devices are highly varied (even within the categories) and, as noted above, SNE devices change significantly over time to support increases in consumer demand for speed and Wi-Fi signal strength. For that reason, these reports have evaluated the efficiency of SNE products relative to their capability. Average fixed consumer broadband speeds in Canada have increased by 174% from 2020 to 2025, as shown in Figure 4. Support for these higher speeds and better in-home Wi-Fi coverage requires more energy. Moreover, new SNE is designed to be capable of supporting the even greater demands anticipated in the future over the expected lifespan of devices.

**Figure 4: Average Fixed Broadband Download Internet Speed<sup>8</sup>**

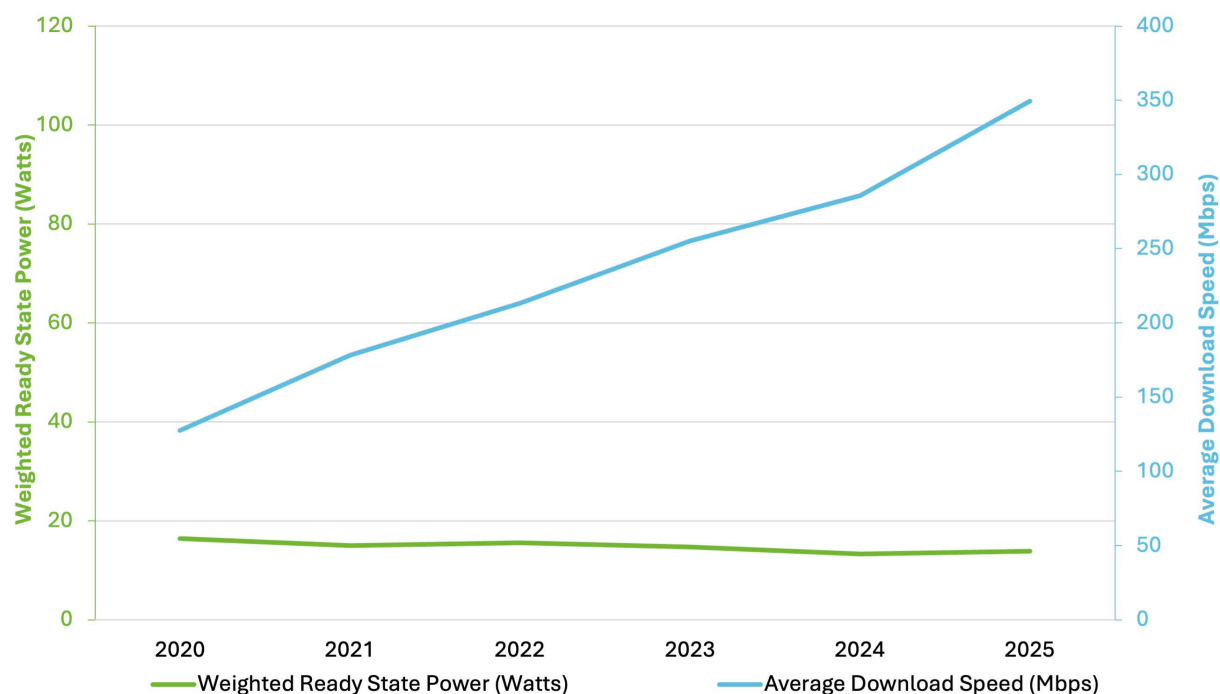


The weighted average power of new SNE relative to broadband speed delivered has decreased by 69% from 2020 to 2025, as shown in Figure 2 in the Executive Summary. Figure 5 demonstrates the relative

<sup>8</sup> Ookla, Speedtest® data for fixed broadband speeds

stability of the SNE power consumption compared to the increase in average download speeds over the five years of CEEVA SNE. This report finds that the signatories are delivering SNE functionalities more efficiently. Future reports will monitor this trend and evaluate its impact on SNE energy usage and efficiency.

**Figure 5: Weighted Ready State Power of Small Network Equipment Devices vs. Average Download Speed**



# Energy Efficiency Information for Consumers

All service provider signatories committed to provide their subscribers and prospective customers with reasonable access to energy efficiency information about reported set-top boxes and small network equipment. This information allows consumers to learn about their options for energy-efficient devices. Links to this information are shown in Appendix C and posted online at [www.energyefficiency-v.ca](http://www.energyefficiency-v.ca).

## Conclusion

CEEVA continued to achieve success in 2025. The weighted average energy use of new set-top boxes has declined by 76% since 2017 and the weighted average power of new SNE devices has decreased by 69% relative to broadband download speeds since 2020. All 100% of new set-top boxes and 100% of new SNE met the applicable program energy levels in 2025. Evergreen Economics will continue to monitor progress and developments for both set-top box and SNE energy efficiency in future reports.

# Appendix A: STBs Received by Service Provider Signatories in 2025

Table 6 lists the reported TEC for the set-top box models received by CEEVA service provider signatories in 2025. These values are reported TEC, rather than calculated TEC. Service providers have the option to publish a “reported TEC” that rounds up calculated TEC values for reporting purposes to account for production variances. Modal power and reported TEC figures in this appendix are rounded up to the next one-tenth digit (e.g., 99.11 kWh/year would be rounded up to 99.2 kWh/year). Please note that the same model could have variances in TEC for several reasons, including differences in reported versus calculated TEC, enabling of different product features, and/or deployment of the device by service providers running different software.

CEEVA STB calculates maximum allowable TEC for a product using the base-type allowances outlined in Table 7 and the feature allowances outlined in Table 8. Table 8 also includes descriptions of the features abbreviated in Table 6 in the “Claimed Allowances” column. CEEVA STB sets forth rules for how to claim feature allowances, so the column for claimed allowances lists only the features used when calculating the maximum allowable TEC for the specific product to qualify toward meeting the signatory’s commitment.

**Table 6: Tier 4 Set-Top Boxes Procured by Voluntary Agreement Service Provider Signatories in 2025**

| Service Provider | Base Type | Primary Function | Manufacturer  | Model No.  | Claimed Allowances                     | Reported Modal Power (W) |       | TEC (kWh/yr) |
|------------------|-----------|------------------|---------------|------------|----------------------------------------|--------------------------|-------|--------------|
|                  |           |                  |               |            |                                        | On                       | Sleep |              |
| Bell             | IP        | Non-PVR          | CommScope     | 7802       | WiFi (n) LP, WiFi (ac) LP, HEVP, UHD-4 | 4.3                      | 2.7   | 33.0         |
| Cogeco           | IP        | Non-PVR          | Sagemcom      | DIW3930    | WiFi (n) LP, WiFi (ac) LP, HEVP, UHD-4 | 4.0                      | 2.4   | 32.0         |
| Rogers           | IP        | Non-PVR          | Vantiva (WNC) | WNXI11AEI  | WiFi (n) LP, WiFi (ac) LP, HEVP, UHD-4 | 3.1                      | 2.2   | 30.0         |
| Rogers           | IP        | Non-PVR          | Sercomm       | SCXI11BEI  | WiFi (n) LP, WiFi (ac) LP, HEVP, UHD-4 | 3.8                      | 2.2   | 30.0         |
| TELUS            | IP        | Non-PVR          | SEI Robotics  | SEI2025TLU | WiFi (n) LP, WiFi (ac) LP, HEVP, UHD-4 | 1.9                      | 1.5   | 15.5         |
| TELUS            | IP        | Non-PVR          | Sercomm       | SER2024TLU | WiFi (n) LP, WiFi (ac) LP, HEVP, UHD-4 | 3.6                      | 2.0   | 26.0         |
| TELUS            | IP        | Non-PVR          | Vantiva       | UIW4054LTU | WiFi (n) LP, WiFi (ac) LP, HEVP, UHD-4 | 4.1                      | 3.1   | 40.0         |
| Videotron        | IP        | Non-PVR          | WNC           | WNXI11AEI  | WiFi (n) LP, WiFi (ac) LP, HEVP, UHD-4 | 4.1                      | 2.5   | 32.0         |

| Service Provider | Base Type | Primary Function | Manufacturer | Model No. | Claimed Allowances                     | Reported Modal Power (W) |       | TEC (kWh/yr) |
|------------------|-----------|------------------|--------------|-----------|----------------------------------------|--------------------------|-------|--------------|
|                  |           |                  |              |           |                                        | On                       | Sleep |              |
| Videotron        | IP        | Non-PVR          | Sercomm      | SCXI11BEI | WiFi (n) LP, WiFi (ac) LP, HEVP, UHD-4 | 3.8                      | 2.3   | 30.0         |

Table 7 lists the allowance (kWh/year) for IP non-PVRs, which was the only type of set-top boxes received by the signatories in 2025, as shown in Table 6.

**Table 7: Set-Top Box Base Allowances**

| Base Type              | Tier 4 Allowances (kWh/yr) |
|------------------------|----------------------------|
| Internet Protocol (IP) | 15                         |

Table 8 lists the features, feature descriptions, and allowances (kWh/year) for set-top boxes received in 2025, as shown in Table 6.

**Table 8: Set-Top Box Feature Allowances**

| Feature      | Description                      | Tier 4 TEC Allowances (kWh/yr) |
|--------------|----------------------------------|--------------------------------|
| WiFi (n) LP  | WiFi (n) LP                      | 9                              |
| WiFi (ac) LP | WiFi (ac) LP                     | 16                             |
| HEVP         | High Efficiency Video Processing | 5                              |
| UHD-4        | Ultra High Definition - 4K       | 5                              |

## Appendix B: SNE Received by Service Provider Signatories in 2025

Table 9 lists the reported Ready State power for SNE models received by the service provider signatories in 2025. Note that the same model deployed by different signatories could have variances in reported power for several reasons, including differences in reported versus measured power, enabling of different product features, and/or different software deployed on the device. Service providers have the option to publish a “reported Ready State Power” that rounds up the measured Ready State Power values for reporting purposes to account for production variances. Modal power figures in this appendix are rounded up to the next one-hundredth digit (e.g., 5.126 watts would be rounded up to 5.13 watts). CEEVA SNE calculates maximum allowable Ready State power for a product using the base and feature allowances listed in Table 10, which includes descriptions of the features abbreviated in Table 9 in the “Claimed Allowances” column. CEEVA SNE sets forth rules for how to claim feature allowances, so the column for claimed allowances lists only the features used when calculating the maximum allowable Ready State power for the specific product to qualify toward meeting the signatory’s commitment.

**Table 9: Tier 3 Small Network Equipment Received by Service Provider Signatories in 2025**

| Signatory | Manufacturer | Model Number | Base Type    | Claimed Allowances                                                                                                                                                                                                                                                                                                                        | Reported Ready State Power (W) |
|-----------|--------------|--------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Bell      | Sagemcom     | Giga Hub 2.0 | IAD 10G EPON | GigE LAN(2), 2.5 GigE LAN Active, 2.5 GigE LAN, 10 GigE LAN Active, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, FXS(2), PCIe Gen 3 Base(3), AP 5K-10K DMIPS, AP Addl. Over 10K DMIPS | 19.50                          |
| Bell      | Sagemcom     | Pods Gen 4   | Advanced LNE | GigE LAN, 2.5 GigE LAN, 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, 5 GHz MIMO (160 MHz) above 2x2 LP(2), 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 802.11n 256 QAM, Bluetooth, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS                                                                                             | 10.50                          |
| Bell      | Sagemcom     | Fast5689e    | IAD 10G EPON | GigE LAN(4), 10 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, FXS(2), USB 3, Z-wave, 802.15.4, PCIe Gen 1 & 2 Base(3)                                                                                                   | 15.00                          |

| Signatory | Manufacturer | Model Number | Base Type    | Claimed Allowances                                                                                                                                                                                                                                                                                                                                                | Reported Ready State Power (W) |
|-----------|--------------|--------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Cogeco    | AdTran       | SDG 854-6    | Advanced LNE | GigE LAN(4), 2.5 GigE LAN Active, 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, Bluetooth                                                                                                                                                                 | 10.80                          |
| Cogeco    | AdTran       | SDG 841-t6   | Basic LNE    | GigE LAN, 2.5 GigE LAN Active, 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP(2), 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, Bluetooth                                                                                                                                   | 9.50                           |
| Cogeco    | Sagemcom     | F@st 3896SU  | IAD D3.1     | GigE LAN, 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, FXS(2)                                                                                                                                                                              | 14.50                          |
| Cogeco    | Gemtek       | GT-DUO31     | Basic D3.1   | 2.5 GigE LAN Active, 2.5 GigE LAN                                                                                                                                                                                                                                                                                                                                 | 11.00                          |
| Rogers    | Sercomm      | SG417DB CT   | IAD D3.1     | GigE LAN(2), 10 GigE LAN Active, 10 GigE LAN, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, FXS, Bluetooth, 802.15.4, PCIe Gen 3 Base(3), PCIe Gen 3 Addl Lane(2), AP 5K-10K DMIPS, AP Addl. Over 10K DMIPS(3) | 22.00                          |
| Rogers    | Vantiva      | CGM601T COM  | IAD D3.1     | GigE LAN(2), 10 GigE LAN Active, 10 GigE LAN, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, FXS, Bluetooth, 802.15.4, PCIe Gen 3 Base(3), PCIe Gen 3 Addl Lane(2), AP 5K-10K DMIPS, AP Addl. Over 10K DMIPS(3) | 22.00                          |
| Rogers    | Vantiva      | CXA500Z ROG  | Basic D3.1   | 2.5 GigE LAN Active                                                                                                                                                                                                                                                                                                                                               | 11.00                          |

| Signatory | Manufacturer | Model Number  | Base Type    | Claimed Allowances                                                                                                                                                                                                                                                                                                                                      | Reported Ready State Power (W) |
|-----------|--------------|---------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Rogers    | WNC          | WNXL11 BWL    | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP(2), 5 GHz MIMO (160 MHz) above 2x2 LP(2), 802.11n 256 QAM, BATTERY, Bluetooth, PCIe Gen 1 & 2 Base(3)                                                                                                                                                                                           | 9.00                           |
| Rogers    | Sercomm      | SCER11B EL    | Advanced LNE | GigE LAN(3), 10 GigE LAN Active(2), 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, FXS, Bluetooth, 802.15.4, PCIe Gen 3 Base(3), PCIe Gen 3 Addl Lane(2), AP 5K-10K DMIPS, AP Addl. Over 10K DMIPS(3) | 18.00                          |
| Rogers    | Hitron       | CODA-5810     | IAD D3.1     | GigE LAN(2), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS                                                                                                                         | 21.80                          |
| Rogers    | Vantiva      | CGM498 1COM   | IAD D3.1     | GigE LAN(3), 2.5 GigE LAN Active, 6 GHz Radio (20, 40, 80 MHz) LP, 6 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, FXS(2), USB 2, Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS              | 17.50                          |
| Rogers    | Sagemcom     | XE2-SG        | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP(2), 5 GHz Radio (20, 40, 80 MHz) LP(2), 802.11n 256 QAM, Bluetooth, PCIe Gen 1 & 2 Base(3)                                                                                                                                                                                                     | 6.50                           |
| TELUS     | Arcadyan     | WA84524 42-TS | Advanced LNE | GigE LAN, 2.5 GigE LAN Active, 10 GigE LAN Active, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, PCIe Gen 3 Base, PCIe Gen 3 Addl Lane, AP 5K-10K DMIPS, AP Addl. Over 10K DMIPS                                     | 13.50                          |
| TELUS     | Sercomm      | DM1000        | Basic D3.1   | 2.5 GigE LAN Active                                                                                                                                                                                                                                                                                                                                     | 11.50                          |

| Signatory | Manufacturer | Model Number          | Base Type    | Claimed Allowances                                                                                                                                                                                                                                                                             | Reported Ready State Power (W) |
|-----------|--------------|-----------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| TELUS     | Arcadyan     | B6L                   | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), PCIe Gen 1 & 2 Base                                                                                                                                                                             | 5.20                           |
| TELUS     | Nokia        | XS-230X-A             | IAD 10GB PON | 10 GigE LAN Active, FXS(2)                                                                                                                                                                                                                                                                     | 6.50                           |
| TELUS     | TP-Link      | TL-SG105              | Basic LNE    | GigE LAN(5)                                                                                                                                                                                                                                                                                    | 1.80                           |
| TELUS     | Vantiva      | FXA5000T LU (XGS PON) | IAD 10GB PON | GigE LAN(4), 10 GigE LAN Active, MoCA, FXS(2), USB 3, AP 5K-10K DMIPS                                                                                                                                                                                                                          | 9.00                           |
| TELUS     | Vantiva      | FXA5000T LU (GPON)    | IAD SFP GPON | GigE LAN(4), 10 GigE LAN Active, MoCA, FXS(2), USB 3, AP 5K-10K DMIPS                                                                                                                                                                                                                          | 10.00                          |
| TELUS     | Vantiva      | FXA5000T LU (10 GigE) | IAD 10 GigE  | GigE LAN(4), MoCA, FXS(2), USB 3, AP 5K-10K DMIPS                                                                                                                                                                                                                                              | 8.00                           |
| TELUS     | Arcadyan     | NH20T (XGS PON)       | IAD 10GB PON | GigE LAN(4), 10 GigE LAN Active, MoCA, FXS(2), USB 3, AP 5K-10K DMIPS                                                                                                                                                                                                                          | 9.00                           |
| TELUS     | Arcadyan     | NH20T (GPON)          | IAD SFP GPON | GigE LAN(4), 10 GigE LAN Active, MoCA, FXS(2), USB 3, AP 5K-10K DMIPS                                                                                                                                                                                                                          | 10.20                          |
| TELUS     | Arcadyan     | NH20T (10 GigE)       | IAD 10 GigE  | GigE LAN(4), MoCA, FXS(2), USB 3, AP 5K-10K DMIPS                                                                                                                                                                                                                                              | 8.00                           |
| TELUS     | Vantiva      | EWA222T TLU           | Advanced LNE | GigE LAN, 2.5 GigE LAN Active, 5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 6 GHz Radio (160 MHz) HP, 6 GHz MIMO (160 MHz) above 2x2 HP(2), MoCA, Bluetooth, Z-wave, PCIe Gen 3 Base(2), AP 5K-10K DMIPS | 14.00                          |
| TELUS     | Arcadyan     | B21A                  | Advanced LNE | GigE LAN(2), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP(2), 5 GHz MIMO (160 MHz) above 2x2 HP(4), MoCA, Bluetooth, Z-wave, 802.15.4, PCIe Gen 3 Base(3), AP 5K-10K DMIPS                                                                    | 12.00                          |

| Signatory | Manufacturer | Model Number | Base Type    | Claimed Allowances                                                                                                                                                                                                                                                                               | Reported Ready State Power (W) |
|-----------|--------------|--------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| TELUS     | Arcadyan     | B6EMA        | Advanced LNE | 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 6 GHz Radio (160 MHz) HP, 6 GHz MIMO (160 MHz) above 2x2 HP(2), Bluetooth, 802.15.4, PCIe Gen 3 Base(2)                                                                                   | 9.30                           |
| Videotron | Hitron       | CODA56 10Q   | IAD D3.1     | GigE LAN(2), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS                                                                         | 18.00                          |
| Videotron | eero         | eero 6+      | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, 802.11n 256 QAM, USB 2, Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS                                                                                                                                                       | 5.50                           |
| Videotron | Hitron       | CODA-4680    | IAD D3.1     | GigE LAN(4), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base(2)                                                                                                           | 17.00                          |
| Videotron | Sagemcom     | XE2-SG       | Basic LNE    | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(2), 802.11n 256 QAM, Bluetooth, PCIe Gen 1 & 2 Base(3)                                                                                                                               | 6.50                           |
| Videotron | Vantiva      | CGM433 1COM  | IAD D3.1     | GigE LAN(4), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base(2), PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS, AP Addl. Over 10K DMIPS                      | 15.00                          |
| Videotron | Commscope    | TG4482       | IAD D3.1     | GigE LAN(3), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base(2), PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS, AP Addl. Over 10K DMIPS | 24.00                          |
| Videotron | Hitron       | CODA 56      | Basic D3.1   | 2.5 GigE LAN Active                                                                                                                                                                                                                                                                              | 10.50                          |

| Signatory | Manufacturer | Model Number | Base Type    | Claimed Allowances                                                                                                           | Reported Ready State Power (W) |
|-----------|--------------|--------------|--------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Videotron | eero         | eero 6       | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 802.11n 256 QAM, USB 2, Bluetooth, 802.15.4, AP 5K-10K DMIPS | 5.00                           |
| Videotron | Hitron       | NOVA-2004    | IAD 10G EPON | GigE LAN(2), FXS(2)                                                                                                          | 7.00                           |

Table 10 lists the base and feature allowances (in watts) and feature descriptions for SNE received in 2025, as shown in Table 9.

**Table 10: Small Network Equipment Allowances**

| Description                                                                               | Descriptor          | Allowances |
|-------------------------------------------------------------------------------------------|---------------------|------------|
| <b>Base Allowance: IAD Devices (by WAN interface)</b>                                     |                     |            |
| DOCSIS 3.1 No FDX                                                                         | IAD D3.1            | 14.0       |
| Gigabit Ethernet                                                                          | IAD GigE            | 3.7        |
| 10 GB Ethernet                                                                            | IAD 10 GigE         | 5.5        |
| SFP with GPON                                                                             | IAD SFP GPON        | 5.0        |
| 10G EPON                                                                                  | IAD 10G EPON        | 13.0       |
| On-board Fiber WAN (without SFP)                                                          | IAD Fiber WAN       | 5.0        |
| 10GB PON WAN (with SFP)                                                                   | IAD 10GB PON        | 13.0       |
| <b>Base Allowance: LNE</b>                                                                |                     |            |
| LNE other than Advanced LNE                                                               | Basic LNE           | 1.5        |
| Advanced LNE                                                                              | Advanced LNE        | 3.2        |
| <b>Adders for LAN interfaces and Additional Functionality</b>                             |                     |            |
| 1 Gigabit Ethernet port                                                                   | GigE LAN            | 0.2        |
| 2.5 Gigabit Ethernet port connected (active link)                                         | 2.5 GigE LAN Active | 2.5        |
| 2.5 Gigabit Ethernet port not connected                                                   | 2.5 GigE LAN        | 0.8        |
| 5 Gigabit Ethernet port connected (active link)                                           | 5 GigE LAN Active   | 2.5        |
| 10 Gigabit Ethernet port connected (active link)                                          | 10 GigE LAN Active  | 3.5        |
| Wi-Fi 2.4 GHz radio with a conducted output power of less than 200 mW per chain up to 2x2 | 2.4 GHz Radio LP    | 1.0        |

| Description                                                                                                                                                         | Descriptor                               | Allowances |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------|
| Additional allowance per RF chain above 2x2 MIMO at 2.4 GHz with a conducted output power of less than 200 mW per chain                                             | 2.4 GHz MIMO above 2x2 LP                | 0.1        |
| Wi-Fi 5 GHz radio up to 80 MHz channel bandwidth with a conducted output power of less than 200 mW per chain up to 2x2                                              | 5 GHz Radio (20, 40, 80 MHz) LP          | 1.6        |
| Additional allowance per RF chain above 2x2 MIMO at 5 GHz up to 80 MHz channel bandwidth with a conducted output power of less than 200 mW per chain                | 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP | 0.1        |
| Wi-Fi 5 GHz radio at 160 MHz channel bandwidth with a conducted output power of less than 200 mW per chain up to 2x2                                                | 5 GHz Radio (160 MHz) LP                 | 2.0        |
| Additional allowance per RF chain above 2x2 MIMO at 5 GHz at 160 MHz channel bandwidth with a conducted output power of less than 200 mW per chain                  | 5 GHz MIMO (160 MHz) above 2x2 LP        | 0.1        |
| Wi-Fi 6 GHz radio up to 80 MHz channel bandwidth with a conducted output power of less than 200 mW per chain up to 2x2                                              | 6 GHz Radio (20, 40, 80 MHz) LP          | 1.6        |
| Additional allowance per RF chain above 2x2 MIMO at 6 GHz up to 80 MHz channel bandwidth with a conducted output power of less than 200 mW per chain                | 6 GHz MIMO (20, 40, 80 MHz) above 2x2 LP | 0.1        |
| Wi-Fi 6 GHz radio at 160 MHz channel bandwidth with a conducted output power of less than 200 mW per chain up to 2x2                                                | 6 GHz Radio (160 MHz) LP                 | 2.0        |
| Additional allowance per RF chain above 2x2 MIMO at 6 GHz at 160 MHz channel bandwidth with a conducted output power of less than 200 mW per chain                  | 6 GHz MIMO (160 MHz) above 2x2 LP        | 0.1        |
| Wi-Fi 2.4 GHz radio with a conducted output power of greater than or equal to 200 mW per chain up to 2x2                                                            | 2.4 GHz Radio HP                         | 1.1        |
| Additional allowance per RF chain above 2x2 MIMO at 2.4 GHz with a conducted output power of greater than or equal to 200 mW per chain                              | 2.4 GHz MIMO above 2x2 HP                | 0.2        |
| Wi-Fi 5 GHz radio up to 80 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain up to 2x2                               | 5 GHz Radio (20, 40, 80 MHz) HP          | 2.1        |
| Additional allowance per RF chain above 2x2 MIMO at 5 GHz up to 80 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain | 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP | 0.3        |

| Description                                                                                                                                                       | Descriptor                        | Allowances |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------|
| Wi-Fi 5 GHz radio at 160 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain up to 2x2                               | 5 GHz Radio (160 MHz) HP          | 2.6        |
| Additional allowance per RF chain above 2x2 MIMO at 5 GHz at 160 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain | 5 GHz MIMO (160 MHz) above 2x2 HP | 0.3        |
| Wi-Fi 6 GHz radio at 160 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain up to 2x2                               | 6 GHz Radio (160 MHz) HP          | 2.6        |
| Additional allowance per RF chain above 2x2 MIMO at 6 GHz at 160 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain | 6 GHz MIMO (160 MHz) above 2x2 HP | 0.3        |
| Wi-Fi IEEE 802.11n at 2.4GHz supporting 256-QAM                                                                                                                   | 802.11n 256 QAM                   | 0.3        |
| MoCA 1.1/2.0 Single Channel                                                                                                                                       | MoCA                              | 2.2        |
| FXS                                                                                                                                                               | FXS                               | 0.3        |
| USB 2.0 - no load connected                                                                                                                                       | USB 2                             | 0.1        |
| USB 3.0 - no load connected                                                                                                                                       | USB 3                             | 0.2        |
| Bluetooth                                                                                                                                                         | Bluetooth                         | 0.5        |
| Z-wave                                                                                                                                                            | Z-wave                            | 0.2        |
| 802.15.4 for ZigBee, Thread, etc.                                                                                                                                 | 802.15.4                          | 0.2        |
| PCIe Interface Gen 1 & 2 Base (includes first lane)                                                                                                               | PCIe Gen 1 & 2 Base               | 0.2        |
| PCIe Gen 1 & 2 Additional Lane                                                                                                                                    | PCIe Gen 1 & 2 Addl Lane          | 0.1        |
| PCIe Interface Gen 3 Base (includes first lane)                                                                                                                   | PCIe Gen 3 Base                   | 0.3        |
| Application Processor 5K-10K DMIPS                                                                                                                                | AP 5K-10K DMIPS                   | 1.0        |
| Application Processor > 10K DMIPS (for every addl. 5K DMIPS)                                                                                                      | AP Addl. Over 10K DMIPS           | 0.5        |

## Appendix C: Availability of Energy Efficiency Information for Consumers

The service provider signatories committed to providing reasonable, public access to energy efficiency information for reported set-top boxes and small network equipment. The URLs for such information are posted below. Information for all companies is also available at [www.energyefficiency-v.ca](http://www.energyefficiency-v.ca).

**Table 11: Consumer Set-Top Box Energy Efficiency Information**

| Service Provider | Consumer Information Location                                                                                                                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bell             | <a href="https://bce.ca/responsibility/2023-bell-stb-energy-information.pdf">https://bce.ca/responsibility/2023-bell-stb-energy-information.pdf</a>                                                                                 |
| Cogeco           | <a href="https://energyca.cablelabs.com/cogeco/">https://energyca.cablelabs.com/cogeco/</a>                                                                                                                                         |
| Rogers           | <a href="https://energyca.cablelabs.com/rogers/">https://energyca.cablelabs.com/rogers/</a>                                                                                                                                         |
| TELUS            | <a href="https://www.energyefficiency-v.ca/wp-content/uploads/2026/04/TELUS-Web-Site-STB-Energy-Info-2026_04_08.pdf">https://www.energyefficiency-v.ca/wp-content/uploads/2026/04/TELUS-Web-Site-STB-Energy-Info-2026_04_08.pdf</a> |
| Videotron        | <a href="https://energyca.cablelabs.com/videotron/">https://energyca.cablelabs.com/videotron/</a>                                                                                                                                   |

**Table 12: Consumer Small Network Equipment Energy Efficiency Information**

| Service Provider | Consumer Information Location                                                                                                                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bell             | <a href="https://www.bce.ca/cs-assets/_SNE_Bell_SNE_Energy_Information_2025.pdf-bl0de35f0f967c7ad8">https://www.bce.ca/cs-assets/_SNE_Bell_SNE_Energy_Information_2025.pdf-bl0de35f0f967c7ad8</a>                                   |
| Cogeco           | <a href="https://energyca.cablelabs.com/cogeco-sne/">https://energyca.cablelabs.com/cogeco-sne/</a>                                                                                                                                 |
| Rogers           | <a href="https://energyca.cablelabs.com/rogers-sne/">https://energyca.cablelabs.com/rogers-sne/</a>                                                                                                                                 |
| TELUS            | <a href="https://www.energyefficiency-v.ca/wp-content/uploads/2026/04/TELUS-Web-Site-SNE-Energy-Info-2026_04_08.pdf">https://www.energyefficiency-v.ca/wp-content/uploads/2026/04/TELUS-Web-Site-SNE-Energy-Info-2026_04_08.pdf</a> |
| Videotron        | <a href="https://energyca.cablelabs.com/videotron-sne/">https://energyca.cablelabs.com/videotron-sne/</a>                                                                                                                           |

## Appendix D: STB and SNE Procurement Audits

CEEVA requires service provider signatories to submit annual procurement data to the Data Aggregator, Evergreen Economics, which collects and analyzes the data and publishes the results in this Annual Report. To protect confidential information, all data in the Annual Report are aggregated. To verify the accuracy of the submitted information from each service provider, both CEEVA STB and CEEVA SNE require an annual audit of one service provider's procurement figures.

Accordingly, the Data Aggregator conducted audits of the 2025 procurement data of one randomly selected service provider per program, which were used to develop the findings published in this 2025 Annual Report. The service providers were selected at random using the "random" function in Excel and were prompted to provide the Data Aggregator a list of all new set-top boxes received in 2025 for CEEVA STB and a list of all new small network equipment in the case of the signatory selected for CEEVA SNE. Evergreen also requested shipment details and specification sheets for each model procured in both cases. Evergreen determined that the data submitted by the signatories for the audit are consistent with the annual reports submitted by those signatories.