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# A Progress Report on Contracted Electricity Supply

Fourth Quarter 2025

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# Glossary of Acronyms

|          |  |
|----------|--|
| ABESA    | Atikokan Biomass Energy Supply Agreement                                 |
| ACES     | Accelerated Clean Energy Supply Contract                                 |
| ABPRIA   | Amended and Restated Bruce Power Rehabilitation Implementation Agreement |
| BPRIA    | Bruce Power Rehabilitation Implementation Agreement                      |
| CFC      | Chaudière Falls Contract   |
| CO       | Commercial Operation   |
| CES      | Clean Energy Supply Contract   |
| CHP      | Combined Heat and Power Agreement  |
| CHPSOP   | Combined Heat and Power Standard Offer Program                           |
| Dx       | Distribution Grid Connection (LDC embedded)                              |
| EFW      | Energy from Waste  |
| ESFA     | Energy Storage Facility Agreement  |
| EMCES    | Early Mover Clean Energy Supply Contract                                 |
| E-LT     | Expedited Long-Term Reliability Services Contract                        |
| FIT      | Feed-in Tariff Program   |
| GS       | Generating Station   |
| GEIA     | Green Energy Investment Agreement Power Purchase                         |
| HCI      | Hydroelectric Contract Initiative  |
| HESA     | Hydroelectric Energy Supply Agreement                                    |
| HESOP    | Hydroelectric Standard Offer Program                                     |
| IESO     | Independent Electricity System Operator                                  |
| LESA     | Lennox Energy Supply Agreement   |
| LRP      | Large Renewable Procurement Program                                      |
| LT       | Long-Term Reliability Services Contract                                  |
| microFIT | micro-Feed-in Tariff Program   |
| MCOD     | Milestone Commercial Operation Date                                      |
| MW       | Megawatts  |
| MT       | Medium Term Contract   |
| NUG      | Non-Utility Generator  |
| NUGEDC   | Non-Utility Generator Enhanced Dispatch Contract                         |
| NYRP     | Northern York Region Peaking Generation Contract                         |

|       |   |
|-------|---|
| OEFC  | Ontario Electricity Financial Corporation |
| OND   | Oneida Energy Storage Agreement           |
| PPA   | Power Purchase Agreement                  |
| RES   | Renewable Energy Supply Contract          |
| RESOP | Renewal Energy Standard Offer Program     |
| SHP   | Small Hydro Program                       |
| Tx    | Transmission Grid Connection              |
| UD    | Under Development                         |

# Background

The IESO has been inviting investment in generation technologies and facilities to supply new generation capacity over the two decades. This additional electricity has been procured through fixed term contracts with suppliers for renewable energy, clean energy (natural gas and nuclear energy) and energy produced from municipal waste. The Ministry of Energy determines the procurement levels for each fuel type based on its Long-Term Energy Plan. The IESO administers each contract that has been executed under the specific procurements, programs, or initiatives. The total amount of energy contracted by the IESO makes up a significant proportion of Ontario's electricity supply mix<sup>1</sup>. Approximately 65% of Ontario's installed capacity is under contract to the IESO.

In keeping with the Ontario Energy Board Order EB-2005-0489 (March 3, 2006), the IESO posts regular updates on its website on the progress of procurement initiatives, including the progress of selected projects, subject to confidentiality constraints. The numbers and information provided in this report include only electricity projects and initiatives in Ontario contracted by the IESO.

The purpose of this report is to provide details about the IESO's contracted electricity supply capacity in the province of Ontario, Canada. The data in this report are limited to the capacities under contract to the IESO. The report does not include all Ontario Power Generation (OPG) regulated facilities,<sup>2</sup> facilities secured through capacity auctions, NUGs operating under contracts with the OEFC and market participants that sell energy on the open market and receive the hourly market price of electricity.

This report provides information about contracted capacities using the following categories:

1. Timelines.
2. Connection type.
3. Fuel type.
4. Contract type.
5. Procurement type.
6. Location.

Suppliers that have signed contracts with the IESO include, but are not limited to, private sector businesses, business partnerships, cooperatives, public sector organizations, municipal entities and governments, Indigenous communities, community groups, school boards, farmers, and homeowners. The generation facilities for many contracts are constructed specifically for the purpose of producing energy under these contracts. Some facilities, such as some hydroelectric plants, are legacy facilities built many decades ago but have only recently entered contracts with the IESO. Some existing facilities may undergo equipment upgrades, capacity expansions or refurbishment work to increase their generation capabilities. These incremental upgrades are reported as projects undergoing development. In programs, such as the Feed-in Tariff (FIT) Program and microFIT Program, existing structures (such as commercial buildings, farms, and homes) have been retrofitted with technology to produce renewable energy.

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<sup>1</sup> See the [IESO Current Supply Mix](#) for more information.

<sup>2</sup> OPG has contracts with the IESO, either directly or through a subsidiary, for some of its facilities. These facilities are: Upper and Lower Mattagami facilities, Portlands Energy Centre, Brighton Beach Power GS, Halton Hills GS, Atikokan GS, Healey Falls GS, Lac Seul GS and Lennox GS. See the [OPG website](#) for more information.

## Parameters of Reported Contract Data

The data in this report are drawn from different types of electricity supply contracts held by the IESO.<sup>3</sup> These data may differ from IESO supply mix data<sup>4</sup>, which track all grid-connected generation that has completed the market entry process and a small amount of embedded generation that participates in the IESO-administered market. Several important details about this report's data include:

- Contracted capacities are used in this report, not installed capacities.<sup>5</sup>
- In-service forecasts made in this report are based on the Milestone Commercial Operation Date (MCOD), which is a contractual date.
- Facilities reported as having achieved commercial operation have fulfilled their required contractual obligations to begin generating electricity. However, when the supplier is also a registered IESO market participant, it is listed as a new facility in operation when it has completed commissioning and the market registration process.<sup>6</sup>

## Confidentiality Constraints

The IESO is legally bound by confidentiality terms that differ between contracts, therefore the types of data that can be shared are not always the same.

## Assumptions and Caveats

1. Contract data may change as frequently as daily. The data used to construct this report are based on the information as of the end of the specified quarter.
2. In some cases, mostly with hydroelectric projects, there are expansions to facilities that are already in commercial operation. These expansion projects that are under development are counted as part of the original contract to avoid double counting of the total number of contracts.
3. The number of contracts does not always represent the number of physical facilities. In some cases, a single contract may include multiple generating facilities.
4. Contracts executed with non-utility generators (NUGs) that are under contract with the Ontario Electricity Financial Corporation (OEFC) may not be reported as an IESO contract until:
  - a. The IESO contract term has commenced.
  - b. All conditions required for commercial operation approval have been satisfied.

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<sup>3</sup> The data reflects the contractual obligations of the IESO which continue until contracts have ended.

<sup>4</sup> The [supply mix](#) data are based on the [Reliability Outlook](#) which has different purpose and use data models.

<sup>5</sup> Installed capacity refers to the maximum power that a generation facility can supply, in MW. Contracted capacity is the amount of power that the IESO has agreed to purchase from suppliers under contract for a fixed term. Contract capacities are sometimes different from installed capacities. Therefore, data in the IESO 18-Month Outlook and [Generator Output and Capability Report](#) may reflect capacity values that are different from data in this report.

<sup>6</sup> Generators registered as Market Participants are required to comply with obligations relating to connection to the IESO-controlled grid and to participation in the IESO-administered markets. For more information, see the [IESO Market Rules – Chapter 4: Grid Connection Requirements](#).

5. The data in this report include all embedded generation under contract with the IESO. The IESO Current Supply Mix data do not include all embedded generation, as embedded generators generally do not participate in the IESO-administered market.
6. Some numbers are rounded and may not add up to the totals quoted in the text.

## Maps

- All maps in this report are used for illustrative purposes only.
- All locations are approximate or maybe estimated.
- The sizes of map pins are not to scale.

## Additional Resources

For more information about IESO's electricity supply contracts and programs see the following pages on the IESO website:

1. [microFIT Program Archive](#): Provides a description of the microFIT program and supporting documents including:
  - Contracts
  - Program Rules
  - Price Schedules
  - Prescribed Forms
2. [Feed-in Tariff \(FIT\) Program Archive](#): Provides descriptions of FIT programs and supporting documents including:
  - Contracts
  - Standard Definitions
  - Program Rules
  - Price Schedules
3. [IESO Electricity Resource Contracts](#): Provides descriptions of the different procurement and supporting documents including:
  - Contracts
  - Requests for Proposals (RFPs)
  - Program Rules
4. [IESO Active Generation Contract List](#): A Microsoft Excel spreadsheet containing individual contract data for currently active electricity supply projects.
5. [Regional Planning Zones](#): Provides information about Ontario's 21 regional planning zones used by the IESO to assess zonal electricity needs.
6. [Reliability Outlook](#): Provides information on Ontario's demand forecast and associated drivers, resource adequacy projections.

# Overview

This report summarizes the cumulative contract data as at the end of the fourth quarter of 2025 and changes occurring within that quarter. At the end of the quarter, the IESO was managing 33,375 contracts, which have a combined capacity of 30,935 MW. This total contracted capacity is spread across eight fuel types as shown in Figure 1. The total amount of contracted capacity in commercial operation was 27,627 MW, while 3,308 MW remained under development.

Figure 1: Total Contracted Capacity by Fuel Type

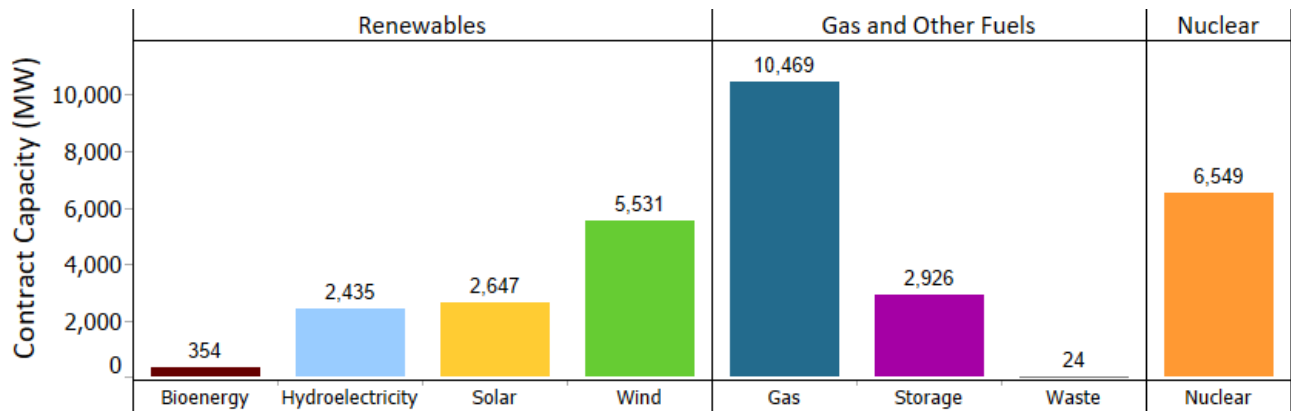
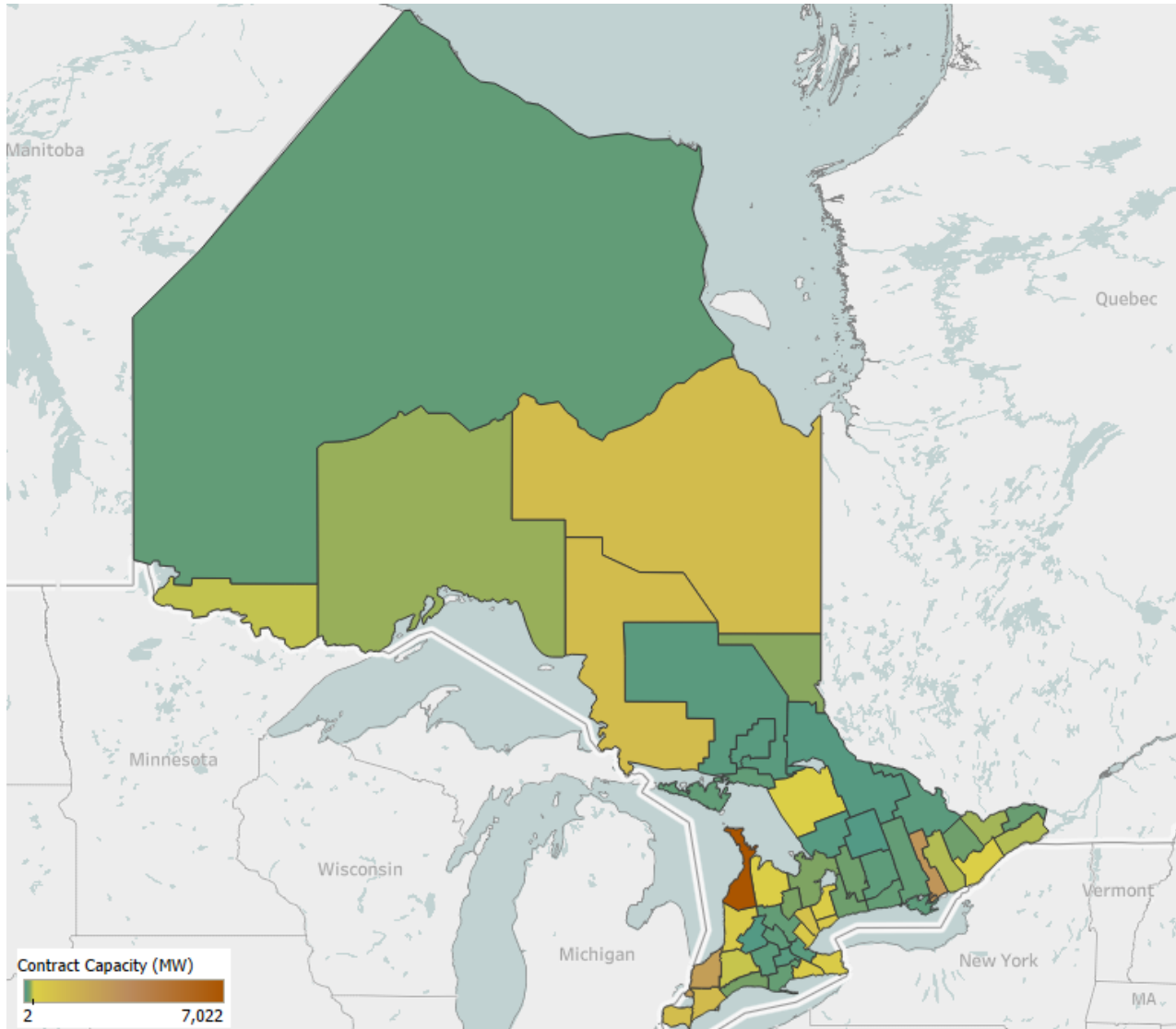


Table 1 below provides a summary of the cumulative contracted capacity and numbers of contracts by fuel type and project status. See the [IESO Active Contracts Generation List](#) for site specific data for currently active electricity supply projects (excluding microFIT).

Table 1: Contracted Capacities by Fuel and Contract Status

| Categories          |                  | UD               |                        |                     | CO               |                        |                     | Grand Total      |                        |                     |
|---------------------|------------------|------------------|------------------------|---------------------|------------------|------------------------|---------------------|------------------|------------------------|---------------------|
| Fuel Group          | Fuel Category    | No. of Contracts | Contract Capacity (MW) | % Contract Capacity | No. of Contracts | Contract Capacity (MW) | % Contract Capacity | No. of Contracts | Contract Capacity (MW) | % Contract Capacity |
| Renewables          | Bioenergy        | 2                | 5.0                    | 0.0%                | 74               | 349.0                  | 1.1%                | 76               | 353.9                  | 1.1%                |
|                     | Hydroelectricity |                  |                        |                     | 109              | 2,434.8                | 7.9%                | 109              | 2,434.8                | 7.9%                |
|                     | Solar            |                  |                        |                     | 32,996           | 2,647.2                | 8.6%                | 32,996           | 2,647.2                | 8.6%                |
|                     | Wind             |                  |                        |                     | 111              | 5,531.3                | 17.9%               | 111              | 5,531.3                | 17.9%               |
|                     | Total            | 2                | 5.0                    | 0.0%                | 33,290           | 10,962.3               | 35.4%               | 33,292           | 10,967.2               | 35.5%               |
| Gas and Other Fuels | Gas              | 8                | 888.7                  | 2.9%                | 44               | 9,580.0                | 31.0%               | 48               | 10,468.7               | 33.8%               |
|                     | Storage          | 19               | 2,414.2                | 7.8%                | 12               | 511.5                  | 1.7%                | 31               | 2,925.7                | 9.5%                |
|                     | Waste            |                  |                        |                     | 2                | 24.2                   | 0.1%                | 2                | 24.2                   | 0.1%                |
|                     | Total            | 27               | 3,302.9                | 10.7%               | 58               | 10,115.7               | 32.7%               | 81               | 13,418.6               | 43.4%               |
| Nuclear             | Uranium          |                  |                        |                     | 2                | 6,549.0                | 21.2%               | 2                | 6,549.0                | 21.2%               |
|                     | Total            |                  |                        |                     | 2                | 6,549.0                | 21.2%               | 2                | 6,549.0                | 21.2%               |
| Grand Total         |                  | 29               | 3,307.9                | 10.7%               | 33,350           | 27,626.9               | 89.3%               | 33,375           | 30,934.8               | 100.0%              |

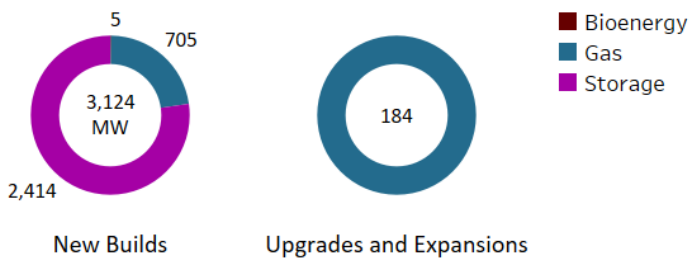
Figure 2: Heat Map of Total In-Service Contracted Capacities in Ontario Census Divisions



## Projects Under Development

Contracts under-development includes new builds and, upgrades and expansion to existing facilities.

Figure 3: Capacities Under Development by Fuel Type



# Re-Contracted Contracts

As some contracts approach their term end dates, the IESO may seek to secure new terms with some Suppliers. These new contracts may be in the form of bilateral negotiations, standard offer programs, or competitive procurements. When facilities are re-contracted, the contracted capacities can be lower than the capacities in the expiring or original contract. The new contract term dates may be sequential or there could be a gap in between the two contracts. Table 2 includes a list of contracts that were recently re-contracted.

Table 2: Re-contracted Facilities

| Original Facility Name               | Fuel Type     | Original Contract Type | New Facility Name         | New Contract Type |
|--------------------------------------|---------------|------------------------|---------------------------|-------------------|
| Calm Lake                            | Hydroelectric | HCI                    | Calm Lake CGS             | SHP 3             |
| Glen Miller Hydro GS                 | Hydroelectric | RES 1                  | Glen Miller Power L.P.    | SHP 2             |
| Kenora                               | Hydroelectric | HCI                    | Kenora CGS                | SHP 3             |
| McLeod Dam                           | Hydroelectric | RESOP                  | McLeod Dam Hydro Facility | SHP 2             |
| Sturgeon Falls GS                    | Hydroelectric | HCI                    | Sturgeon Falls CGS        | SHP 3             |
| Tembec, Smooth Rock Falls Facilities | Hydroelectric | HCI                    | Smooth Rock Falls CGS     | SHP 2             |

# IESO Contracts and Contract Capacity

Table 3: Number of Contracts and Contract Capacity

| Categories          |               |               | No. of Contracts |     | Contract Capacity (MW) |         | No. of Contracts | Contract Capacity (MW) | % Capacity |        |
|---------------------|---------------|---------------|------------------|-----|------------------------|---------|------------------|------------------------|------------|--------|
| Fuel Group          | Fuel Category | Contract Type | UD               | CO  | UD                     | CO      | Total            | Total                  | Total      |        |
| Renewables          | Bioenergy     | ABESA         |                  | 1   |                        | 180.0   | 1                | 180.0                  | 0.6%       |        |
|                     |               | CHP           |                  | 2   |                        | 48.0    | 2                | 48.0                   | 0.2%       |        |
|                     |               | FIT           |                  | 51  |                        | 49.4    | 51               | 49.4                   | 0.2%       |        |
|                     |               | LT            | 1                |     | 1.0                    |         | 1                | 1.0                    | 0.0%       |        |
|                     |               | microFIT      |                  | 1   |                        | 0.0     | 1                | 0.0                    | 0.0%       |        |
|                     |               | NUG           |                  | 2   |                        | 29.0    | 2                | 29.0                   | 0.1%       |        |
|                     |               | PPA           | 1                |     | 4.0                    |         | 1                | 4.0                    | 0.0%       |        |
|                     |               | RES           |                  | 2   |                        | 7.6     | 2                | 7.6                    | 0.0%       |        |
|                     |               | RESOP         |                  | 15  |                        | 34.9    | 15               | 34.9                   | 0.1%       |        |
|                     |               | Total         |                  | 2   | 74                     | 5.0     | 349.0            | 76                     | 353.9      | 1.1%   |
|                     | Hydroelectric | CFC           |                  |     | 2                      |         | 39.0             | 2                      | 39.0       | 0.1%   |
|                     |               | FIT           |                  |     | 12                     |         | 69.0             | 12                     | 69.0       | 0.2%   |
|                     |               | HCI           |                  |     | 58                     |         | 1,102.3          | 58                     | 1,102.3    | 3.6%   |
|                     |               | HESA          |                  |     | 5                      |         | 1,063.4          | 5                      | 1,063.4    | 3.4%   |
|                     |               | HESOP         |                  |     | 5                      |         | 37.0             | 5                      | 37.0       | 0.1%   |
|                     |               | RES           |                  |     | 2                      |         | 39.0             | 2                      | 39.0       | 0.1%   |
|                     |               | RESOP         |                  |     | 15                     |         | 27.4             | 15                     | 27.4       | 0.1%   |
|                     |               | SHP           |                  |     | 10                     |         | 57.8             | 10                     | 57.8       | 0.2%   |
|                     |               | Total         |                  |     | 109                    |         | 2,434.8          | 109                    | 2,434.8    | 7.9%   |
|                     | Solar         | FIT           |                  |     | 3,077                  |         | 1,496.5          | 3,077                  | 1,496.5    | 4.8%   |
|                     |               | GEIA          |                  |     | 4                      |         | 300.0            | 4                      | 300.0      | 1.0%   |
|                     |               | LRP           |                  |     | 4                      |         | 120.0            | 4                      | 120.0      | 0.4%   |
|                     |               | microFIT      |                  |     | 29,837                 |         | 257.0            | 29,837                 | 257.0      | 0.8%   |
|                     |               | RESOP         |                  |     | 74                     |         | 473.8            | 74                     | 473.8      | 1.5%   |
|                     |               | Total         |                  |     | 32,996                 |         | 2,647.2          | 32,996                 | 2,647.2    | 8.6%   |
|                     | Wind          | FIT           |                  |     | 51                     |         | 2,511.6          | 51                     | 2,511.6    | 8.1%   |
|                     |               | GEIA          |                  |     | 6                      |         | 1,067.5          | 6                      | 1,067.5    | 3.5%   |
|                     |               | LRP           |                  |     | 2                      |         | 159.8            | 2                      | 159.8      | 0.5%   |
|                     |               | microFIT      |                  |     | 3                      |         | 0.0              | 3                      | 0.0        | 0.0%   |
|                     |               | RES           |                  |     | 15                     |         | 1,507.6          | 15                     | 1,507.6    | 4.9%   |
|                     |               | RESOP         |                  |     | 34                     |         | 284.8            | 34                     | 284.8      | 0.9%   |
|                     | Total         |               |                  | 111 |                        | 5,531.3 | 111              | 5,531.3                | 17.9%      |        |
|                     | Total         |               |                  | 2   | 33,290                 | 5.0     | 10,962.3         | 33,292                 | 10,967.2   | 35.5%  |
| Gas and Other Fuels | Gas           | ACES          | 1                | 3   | 50.0                   | 2,102.5 | 3                | 2,152.5                | 7.0%       |        |
|                     |               | CES           | 2                | 5   | 111.0                  | 3,372.3 | 5                | 3,483.3                | 11.3%      |        |
|                     |               | CHP           | 1                | 7   | 23.0                   | 419.2   | 7                | 442.2                  | 1.4%       |        |
|                     |               | CHPSOP        |                  | 15  |                        | 78.4    | 15               | 78.4                   | 0.3%       |        |
|                     |               | E-LT          | 2                |     | 295.0                  |         | 2                | 295.0                  | 1.0%       |        |
|                     |               | EMCES         |                  | 1   |                        | 444.0   | 1                | 444.0                  | 1.4%       |        |
|                     |               | LESA          |                  | 1   |                        | 2,000.0 | 1                | 2,000.0                | 6.5%       |        |
|                     |               | LT            | 2                |     | 409.7                  |         | 2                | 409.7                  | 1.3%       |        |
|                     |               | MT            |                  | 3   |                        | 114.4   | 3                | 114.4                  | 0.4%       |        |
|                     |               | NUG           |                  | 7   |                        | 537.2   | 7                | 537.2                  | 1.7%       |        |
|                     |               | NUGEDC        |                  | 1   |                        | 81.0    | 1                | 81.0                   | 0.3%       |        |
|                     |               | NYRP          |                  | 1   |                        | 431.0   | 1                | 431.0                  | 1.4%       |        |
|                     |               | Total         |                  | 8   | 44                     | 888.7   | 9,580.0          | 48                     | 10,468.7   | 33.8%  |
|                     | Storage       | E-LT          | 9                | 6   | 630.0                  | 251.7   | 15               | 881.7                  | 2.9%       |        |
|                     |               | ESFA          |                  | 5   |                        | 9.8     | 5                | 9.8                    | 0.0%       |        |
|                     |               | LT            | 10               |     | 1,784.2                |         | 10               | 1,784.2                | 5.8%       |        |
|                     |               | OND           |                  | 1   |                        | 250.0   | 1                | 250.0                  | 0.8%       |        |
|                     |               | Total         |                  | 19  | 12                     | 2,414.2 | 511.5            | 31                     | 2,925.7    | 9.5%   |
|                     | Waste         | EFW           |                  | 1   |                        | 13.9    | 1                | 13.9                   | 0.0%       |        |
|                     |               | NUG           |                  | 1   |                        | 10.3    | 1                | 10.3                   | 0.0%       |        |
|                     |               | Total         |                  | 2   |                        | 24.2    | 2                | 24.2                   | 0.1%       |        |
|                     | Total         |               |                  | 27  | 58                     | 3,302.9 | 10,115.7         | 81                     | 13,418.6   | 43.4%  |
|                     | Nuclear       | Uranium       | ABPRIA           |     | 2                      |         | 6,549.0          | 2                      | 6,549.0    | 21.2%  |
|                     |               |               | Total            |     | 2                      |         | 6,549.0          | 2                      | 6,549.0    | 21.2%  |
|                     |               | Total         |                  |     | 2                      |         | 6,549.0          | 2                      | 6,549.0    | 21.2%  |
|                     | Grand Total   |               |                  | 29  | 33,350                 | 3,307.9 | 27,626.9         | 33,375                 | 30,934.8   | 100.0% |

# Changes to Contracts in Q4-2025

See Table 4 for a detailed account of the changes<sup>7</sup> that occurred during the quarter. This table illustrates the difference between the current quarter over the previous quarter. These differences or deltas are noted at the contract program level.

The main changes in contracted capacity and contract capacities to note are<sup>8</sup>:

## 1. Capacity Changes

- The total net contracted capacity decreased by 3.4 MW. This included the following:
  - 0.3 MW decrease in hydroelectricity
  - 0.3 MW decrease in solar energy
  - 1.8 MW decrease in wind energy
  - 1 MW decrease in energy from natural gas

## 2. Changes in the Number of Contracts

- The total net number of contracts managed decreased by 26.

## 3. Facilities Achieving Contractual Commercial Operation<sup>9 10</sup>

- Tilbury Battery Storage (battery), 76 MW, located near Dover in the Municipality of Chatham-Kent
- York Energy Centre (natural Gas), 38 MW upgrade to its facility which located in Newmarket in the Regional Municipality of York.

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<sup>7</sup> Changes are net of: terminations, capacity amendments (reductions, upgrades and expansions) and new contracts.

<sup>8</sup> Numbers are rounded and may not add up to the totals quoted in the text. These changes reflect the differences between the numbers report in this report and the previous quarter. Changes to contract capacity may have actually occurred in a prior quarter.

<sup>9</sup> Facilities that have achieved commercial operation have fulfilled the contractual obligations required to operate under their IESO contracts and receive the contract price. Until then, facilities that are grid-connected and that have completed the market participant registration and physical commissioning process can offer energy into the market at the Hourly Ontario Energy Price (HOEP). The review and final authorization of commissioning documentation can be a lengthy process and may result in the contractual status trailing the actual operational status of the facility. In such cases the contractual commercial operation date will be backdated after contractual due diligence is completed.

<sup>10</sup> Suppliers must register with the IESO if they are participating in the IESO-administered markets or programs, or if connecting a physical facility to the IESO-controlled grid. Market registration is a separate process from commissioning and in some cases may be completed after the contractual commercial operation date has occurred. See [Market Registration](#) for more information. Consult the [New and Retired Generation Since the IESO Market Opened in May 2002](#) list and the [Reliability Outlook](#) to determine whether generators registered as Market Participants have completed the IESO market registration process.

Table 4: Net Changes in Contracts in Q4-2025

(Note: The addition to the ABRIA nuclear contract is administrative in nature. This change was made to better represent both the Bruce A and Bruce B agreements for the facility)

| Categories          |               |               | No. of Contracts |     | Contract Capacity (MW) |       | No. of Contracts | Contract Capacity (MW) |       |
|---------------------|---------------|---------------|------------------|-----|------------------------|-------|------------------|------------------------|-------|
| Fuel Group          | Fuel Category | Contract Type | UD               | CO  | UD                     | CO    | Total            | Total                  |       |
| Renewables          | Bioenergy     | ABESA         |                  |     |                        |       |                  |                        |       |
|                     |               | CHP           |                  |     |                        |       |                  |                        |       |
|                     |               | FIT           |                  |     |                        |       |                  |                        |       |
|                     |               | LT            |                  |     |                        |       |                  |                        |       |
|                     |               | microFIT      |                  |     |                        |       |                  |                        |       |
|                     |               | NUG           |                  |     |                        |       |                  |                        |       |
|                     |               | PPA           |                  |     |                        |       |                  |                        |       |
|                     |               | RES           |                  |     |                        |       |                  |                        |       |
|                     |               | RESOP         |                  |     |                        |       |                  |                        |       |
|                     | Total         |               |                  |     |                        |       |                  |                        |       |
|                     | Hydroelectric | CFC           |                  |     |                        |       |                  |                        |       |
|                     |               | FIT           |                  |     |                        |       |                  |                        |       |
|                     |               | HCI           |                  |     | -1                     |       | -9.7             | -1                     | -9.7  |
|                     |               | HESA          |                  |     |                        |       |                  |                        |       |
|                     |               | HESOP         |                  |     | 1                      |       | -0.4             | 1                      | -0.4  |
|                     |               | RES           |                  |     | -1                     |       | -8.0             | -1                     | -8.0  |
|                     |               | RESOP         |                  |     | -1                     |       | -0.8             | -1                     | -0.8  |
|                     |               | SHP           |                  |     | 3                      |       | 18.6             | 3                      | 18.6  |
|                     | Total         |               |                  | 1   |                        | -0.3  | 1                | -0.3                   |       |
|                     | Solar         | FIT           |                  |     | -1                     |       | -0.09            | -1                     | -0.09 |
|                     |               | GEIA          |                  |     |                        |       |                  |                        |       |
|                     |               | LRP           |                  |     |                        |       |                  |                        |       |
|                     |               | microFIT      |                  |     | -27                    |       | -0.2             | -27                    | -0.2  |
|                     |               | RESOP         |                  |     |                        |       |                  |                        |       |
|                     |               | Total         |                  |     | -28                    |       | -0.3             | -28                    | -0.3  |
|                     | Wind          | FIT           |                  |     |                        |       |                  |                        |       |
|                     |               | GEIA          |                  |     |                        |       |                  |                        |       |
| LRP                 |               |               |                  |     |                        |       |                  |                        |       |
| microFIT            |               |               |                  |     |                        |       |                  |                        |       |
| RES                 |               |               |                  |     |                        | -2    |                  | -2                     |       |
| RESOP               |               |               |                  |     |                        |       |                  |                        |       |
| Total               |               |               |                  |     | -1.8                   |       | -1.8             |                        |       |
| Total               |               |               |                  | -27 |                        | -2.4  | -27              | -2.4                   |       |
| Gas and Other Fuels | Gas           | ACES          |                  |     |                        |       |                  |                        |       |
|                     |               | CES           |                  |     |                        |       |                  |                        |       |
|                     |               | CHP           |                  |     |                        |       |                  |                        |       |
|                     |               | CHPSOP        |                  |     |                        |       | -1.0             |                        | -1.0  |
|                     |               | E-LT          |                  |     |                        |       |                  |                        |       |
|                     |               | EMCES         |                  |     |                        |       |                  |                        |       |
|                     |               | LESA          |                  |     |                        |       |                  |                        |       |
|                     |               | LT            |                  |     |                        |       |                  |                        |       |
|                     |               | MT            |                  |     |                        |       |                  |                        |       |
|                     |               | NUG           |                  |     |                        |       |                  |                        |       |
|                     |               | NUGEDC        |                  |     |                        |       |                  |                        |       |
|                     |               | NYRP          |                  | -1  |                        | -38.0 | 38.0             |                        |       |
|                     | Total         |               | -1               |     | -38.0                  | 37.0  |                  | -1.0                   |       |
|                     | Storage       | E-LT          |                  | -1  | 1                      | -76.0 | 76.0             |                        |       |
|                     |               | ESFA          |                  |     |                        |       |                  |                        |       |
|                     |               | LT            |                  |     |                        |       |                  |                        |       |
|                     |               | OND           |                  |     |                        |       |                  |                        |       |
|                     |               | Total         |                  | -1  | 1                      | -76.0 | 76.0             |                        |       |
|                     | Waste         | EFW           |                  |     |                        |       |                  |                        |       |
| NUG                 |               |               |                  |     |                        |       |                  |                        |       |
| Total               |               |               |                  |     |                        |       |                  |                        |       |
| Total               |               |               | -2               | 1   | -114.0                 | 113.0 |                  | -1.0                   |       |
| Nuclear             | Uranium       | ABPRIA        |                  |     | 1                      |       |                  | 1                      |       |
|                     |               | Total         |                  |     | 1                      |       |                  | 1                      |       |
|                     | Total         |               |                  |     | 1                      |       |                  | 1                      |       |
| Grand Total         |               |               | -2               | -25 | -114.0                 | 110.6 | -26              | -3.4                   |       |

# Timelines

The first agreements for contracted capacity were executed in 2004. These procurements began with competitive offers and bi-lateral negotiations, and subsequently, standard offer programs were introduced. The timeline of programs and procurements executed from ministerial directives includes:

- 2004 - RES I
- 2005 - BPRIA, ACES, RES II, EMCES
- 2006 - RESOP
- 2007 - HESA, RES III
- 2008 - CHP I, NYRP
- 2009 - CHP III, HCI, FIT 1 and microFIT
- 2010 - ABESA, CHPSOP
- 2011 - microFIT, GEIA
- 2012 - FIT 2/microFIT program review, LESA
- 2013 - HESOP, NUG
- 2014 - TBESA, FIT 3
- 2015 - STOR 2
- 2016 - ABPRIA, CFC, LRP I, FIT 4
- 2017 - FIT 5, NUGEDC
- 2019 - PPA
- 2022 - OND, MTC 1
- 2023 - E-LT1
- 2024 - LT1, SHP

## Contracts Lifecycle

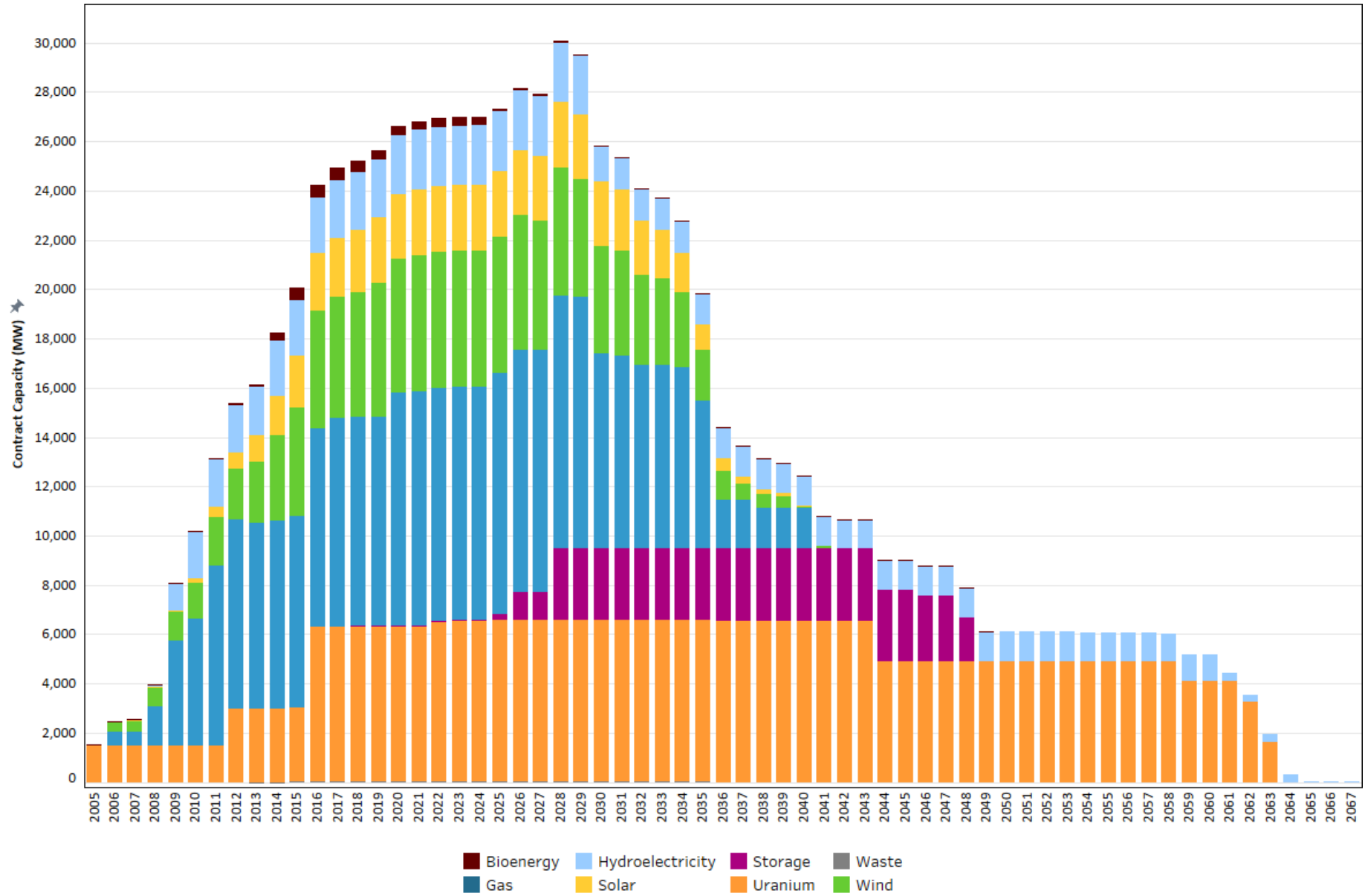
Figure 4 illustrates the projected lifecycle of total contract capacities by applying the contract term lengths to the actual commercial operation dates and expected MCODs of the facilities.<sup>11</sup> The resulting graph shows how contracted capacity is expected to increase and decrease over the life of the contracts as facilities achieve commercial operation, contracts expire at the end of their terms, facilities are re-contracted, contracts are extended and new contracts are added.<sup>12</sup>

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<sup>11</sup> Where the MCOD has passed and the project is not in commercial operation, the estimated commercial operation date is considered as being in the current year (for estimation purposes only).

<sup>12</sup> Annual capacity amounts are not prorated for years when the in-service capacity is only for a partial year.

Figure 4: Projected Lifecycle for Contracted Capacity by Year



# Capacity by Grid Connection

This section summarizes the connection configuration of contracted generating facilities to the electrical grid. Contracted generating facilities are:

1. Connected directly to the IESO-administered transmission grid (Tx).<sup>13</sup>
2. Embedded within the distribution network of local distribution companies (Dx).<sup>14</sup>  
Embedded generators supply electricity to local distribution systems, helping to offset demand on the grid by supporting some of the needs of local communities.
3. Remotely located communities that are isolated from and not connected to the Ontario bulk electric system.

Generally, large capacity projects are connected to transmission grid and are dispatched by the IESO. Smaller capacity projects are usually connected to distribution networks. However, there are exceptions to both rules.

Table 5: Connection Type by Fuel

| Categories  |                  | UD               |                        | CO               |                        | Grand Total      |                        |
|-------------|------------------|------------------|------------------------|------------------|------------------------|------------------|------------------------|
| Connection  | Fuel Category    | No. of Contracts | Contract Capacity (MW) | No. of Contracts | Contract Capacity (MW) | No. of Contracts | Contract Capacity (MW) |
| Dx          | Bioenergy        | 1                | 1.0                    | 71               | 105                    | 72               | 105.9                  |
|             | Gas              | 1                | 4.7                    | 22               | 289                    | 23               | 294.1                  |
|             | Hydroelectricity |                  |                        | 92               | 343                    | 92               | 343.4                  |
|             | Solar            |                  |                        | 32,982           | 2,169                  | 32,982           | 2,169.2                |
|             | Storage          | 9                | 119.9                  | 8                | 24                     | 17               | 143.9                  |
|             | Waste            |                  |                        | 2                | 24                     | 2                | 24.2                   |
|             | Wind             |                  |                        | 64               | 590                    | 64               | 590.5                  |
|             | Total            | 11               | 125.6                  | 33,241           | 3,546                  | 33,252           | 3,671.2                |
| Tx          | Bioenergy        |                  |                        | 3                | 244                    | 3                | 244.0                  |
|             | Gas              | 7                | 884.0                  | 22               | 9,291                  | 25               | 10,174.6               |
|             | Hydroelectricity |                  |                        | 17               | 2,091                  | 17               | 2,091.4                |
|             | Nuclear          |                  |                        | 2                | 6,549                  | 2                | 6,549.0                |
|             | Solar            |                  |                        | 14               | 478                    | 14               | 478.0                  |
|             | Storage          | 10               | 2,294.3                | 4                | 488                    | 14               | 2,781.8                |
|             | Wind             |                  |                        | 47               | 4,941                  | 47               | 4,940.8                |
|             | Total            | 17               | 3,178.3                | 109              | 24,081                 | 122              | 27,259.6               |
| Off-grid    | Bioenergy        | 1                | 4.0                    |                  |                        | 1                | 4.0                    |
|             | Total            | 1                | 4.0                    |                  |                        | 1                | 4.0                    |
| Grand Total |                  | 29               | 3,307.9                | 33,350           | 27,627                 | 33,375           | 30,934.8               |

<sup>13</sup> All assets, regardless of size, that are connected to the transmission grid are included in transmission data.

<sup>14</sup> The embedded contracted capacity shown here are not included in the IESO supply mix data estimate unless the supplier participates in the IESO-administered market. See [Transmission-Connected Generation](#).

Table 6: Annual In-service Contracted Capacities by Fuel and Connection Type<sup>15</sup>

| Year | Distribution Network Connected (MW) |     |       |       |         |       |      | Transmission Grid Connected (MW) |       |       |         |       |         |       |
|------|-------------------------------------|-----|-------|-------|---------|-------|------|----------------------------------|-------|-------|---------|-------|---------|-------|
|      | Bioenergy                           | Gas | Hydro | Solar | Storage | Waste | Wind | Bioenergy                        | Gas   | Hydro | Nuclear | Solar | Storage | Wind  |
| 2005 | 2                                   |     | 8     |       |         |       |      |                                  |       |       | 1,500   |       |         |       |
| 2006 | 3                                   | 108 | 8     |       |         |       |      |                                  | 444   |       | 1,500   |       |         | 395   |
| 2007 | 29                                  | 108 | 15    | 0     |         |       | 7    |                                  | 444   |       | 1,500   |       |         | 471   |
| 2008 | 33                                  | 139 | 20    | 10    |         |       | 74   |                                  | 1,449 | 23    | 1,500   |       |         | 704   |
| 2009 | 33                                  | 202 | 30    | 40    |         |       | 101  |                                  | 4,040 | 1,032 | 1,500   |       |         | 1,084 |
| 2010 | 52                                  | 202 | 183   | 195   |         |       | 201  |                                  | 4,923 | 1,720 | 1,500   |       |         | 1,233 |
| 2011 | 58                                  | 202 | 190   | 432   |         |       | 241  |                                  | 7,063 | 1,720 | 1,500   |       |         | 1,724 |
| 2012 | 64                                  | 202 | 191   | 662   |         |       | 325  |                                  | 7,456 | 1,738 | 3,000   |       |         | 1,724 |
| 2013 | 72                                  | 205 | 232   | 1,038 |         | 3     | 336  | 40                               | 7,316 | 1,738 | 3,000   |       |         | 2,151 |
| 2014 | 88                                  | 208 | 234   | 1,530 |         | 3     | 425  | 245                              | 7,390 | 2,006 | 3,000   | 40    |         | 3,064 |
| 2015 | 108                                 | 213 | 244   | 1,857 |         | 24    | 488  | 380                              | 7,576 | 2,006 | 3,000   | 280   |         | 3,880 |
| 2016 | 109                                 | 259 | 240   | 1,952 |         | 24    | 572  | 380                              | 7,771 | 2,024 | 6,300   | 380   |         | 4,210 |
| 2017 | 109                                 | 271 | 275   | 2,039 |         | 24    | 591  | 380                              | 8,171 | 2,062 | 6,300   | 380   |         | 4,310 |
| 2018 | 110                                 | 271 | 275   | 2,116 | 4       | 24    | 591  | 380                              | 8,207 | 2,062 | 6,300   | 380   |         | 4,483 |
| 2019 | 112                                 | 276 | 283   | 2,165 | 8       | 24    | 591  | 245                              | 8,207 | 2,078 | 6,300   | 478   |         | 4,843 |
| 2020 | 110                                 | 327 | 307   | 2,171 | 10      | 24    | 590  | 245                              | 9,107 | 2,078 | 6,300   | 478   |         | 4,843 |
| 2021 | 110                                 | 320 | 333   | 2,172 | 10      | 24    | 590  | 245                              | 9,188 | 2,078 | 6,300   | 478   |         | 4,943 |
| 2022 | 110                                 | 320 | 333   | 2,172 | 10      | 24    | 590  | 269                              | 9,103 | 2,078 | 6,500   | 478   |         | 4,943 |
| 2023 | 110                                 | 320 | 333   | 2,171 | 10      | 24    | 590  | 269                              | 9,103 | 2,078 | 6,549   | 478   |         | 4,943 |
| 2024 | 108                                 | 302 | 344   | 2,170 | 10      | 24    | 590  | 244                              | 9,146 | 2,086 | 6,549   | 478   |         | 4,943 |
| 2025 | 105                                 | 289 | 343   | 2,169 | 24      | 24    | 590  | 244                              | 9,291 | 2,091 | 6,549   | 478   | 488     | 4,941 |

<sup>15</sup> These figures represent the end-of-year capacities for each year. See Table 5: Connection Type by Fuel for the year-to-date figures for the current year.

# Capacity by Procurement

Table 7: Capacities by Procurement

| Categories             |                     |               | UD               |                        | CO               |                        | Grand Total      |                        |
|------------------------|---------------------|---------------|------------------|------------------------|------------------|------------------------|------------------|------------------------|
| Procurement Type       | Fuel Group          | Contract Type | No. of Contracts | Contract Capacity (MW) | No. of Contracts | Contract Capacity (MW) | No. of Contracts | Contract Capacity (MW) |
| Bi-lateral Negotiation | Renewables          | ABESA         |                  |                        | 1                | 180.0                  | 1                | 180.0                  |
|                        |                     | CFC           |                  |                        | 2                | 39.0                   | 2                | 39.0                   |
|                        |                     | GEIA          |                  |                        | 10               | 1,367.5                | 10               | 1,367.5                |
|                        |                     | HCI           |                  |                        | 3                | 963.6                  | 3                | 963.6                  |
|                        |                     | HESA          |                  |                        | 5                | 1,063.4                | 5                | 1,063.4                |
|                        |                     | NUG           |                  |                        | 2                | 29.0                   | 2                | 29.0                   |
|                        |                     | PPA           | 1                | 4                      |                  |                        | 1                | 4.0                    |
|                        | Gas and Other Fuels | CES           | 1                | 42.5                   | 1                | 541.3                  | 1                | 583.8                  |
|                        |                     | EMCES         |                  |                        | 1                | 444.0                  | 1                | 444.0                  |
|                        |                     | LESA          |                  |                        | 1                | 2,000.0                | 1                | 2,000.0                |
|                        |                     | NUG           |                  |                        | 8                | 547.5                  | 8                | 547.5                  |
|                        |                     | NUGEDC        |                  |                        | 1                | 81.0                   | 1                | 81.0                   |
|                        |                     | OND           |                  |                        | 1                | 250.0                  | 1                | 250.0                  |
|                        | Nuclear             | ABPRIA        |                  |                        | 2                | 6,549.0                | 2                | 6,549.0                |
| Total                  |                     | 2             | 46.5             | 38                     | 14,055.3         | 39                     | 14,101.8         |                        |
| Competitive            | Renewables          | CHP           |                  |                        | 2                | 48.0                   | 2                | 48.0                   |
|                        |                     | LRP           |                  |                        | 6                | 279.8                  | 6                | 279.8                  |
|                        |                     | LT            | 1                | 0.95                   |                  |                        | 1                | 1.0                    |
|                        |                     | RES           |                  |                        | 19               | 1,554.2                | 19               | 1,554.2                |
|                        | Gas and Other Fuels | ACES          | 1                | 50                     | 3                | 2,102.5                | 3                | 2,152.5                |
|                        |                     | CES           | 1                | 68.5                   | 4                | 2,831.0                | 4                | 2,899.5                |
|                        |                     | CHP           | 1                | 23                     | 7                | 419.2                  | 7                | 442.2                  |
|                        |                     | CHPSOP        |                  |                        | 15               | 78.4                   | 15               | 78.4                   |
|                        |                     | E-LT          | 11               | 924.969                | 6                | 251.7                  | 17               | 1,176.7                |
|                        |                     | EFW           |                  |                        | 1                | 13.9                   | 1                | 13.9                   |
|                        |                     | ESFA          |                  |                        | 5                | 9.8                    | 5                | 9.8                    |
|                        |                     | LT            | 12               | 2193.96                |                  |                        | 12               | 2,194.0                |
|                        |                     | MT            |                  |                        | 3                | 114.4                  | 3                | 114.4                  |
|                        |                     | NYRP          |                  |                        | 1                | 431.0                  | 1                | 431.0                  |
| Total                  |                     | 27            | 3261.379         | 72                     | 8,133.9          | 96                     | 11,395.3         |                        |
| Standard Offer         | Renewables          | FIT           |                  |                        | 3,191            | 4,126.4                | 3,191            | 4,126.4                |
|                        |                     | HCI           |                  |                        | 55               | 138.7                  | 55               | 138.7                  |
|                        |                     | HESOP         |                  |                        | 5                | 37.0                   | 5                | 37.0                   |
|                        |                     | microFIT      |                  |                        | 29,841           | 257.0                  | 29,841           | 257.0                  |
|                        |                     | RESOP         |                  |                        | 138              | 820.9                  | 138              | 820.9                  |
|                        |                     | SHP           |                  |                        | 10               | 57.8                   | 10               | 57.8                   |
| Total                  |                     |               |                  | 33,240                 | 5,437.7          | 33,240                 | 5,437.7          |                        |
| Grand Total            |                     |               | 29               | 3307.879               | 33,350           | 27,626.9               | 33,375           | 30,934.8               |

## Facility Locations

The locations of supply facilities involve several factors that must be balanced. These include proximity to demand centers, fuel supply constraints, environmental and community impact, ability to connect to the electricity grid and government regulations. The Bruce Nuclear Power Plant in Tiverton is located next to Lake Huron with provides water for cooling the plant's reactors. Natural gas facilities are situated near major demand centers, major and arterial gas supply pipelines that tap into the US gas basins. Wind farms are installed in areas with consistent wind patterns such as coastal regions and open plains, while solar facilities thrive in regions with favorable sunlight exposure as found in Southern Ontario. Hydroelectric facilities are historically situated near major rivers and waterfalls, taking advantage of natural hydraulic features, while bioenergy facilities are located near agricultural areas for biomass supply. Battery storage facilities which are important for balancing supply and demand, are positioned near demand centers and grid infrastructures to act as both loads and generators. The few municipal waste facilities in Ontario are located at municipal and commercial waste processing sites.

Figure 5 and Figure 6 shows illustrates the location of contracted facilities within Ontario's 21 electricity planning zone. Each planning zone undergoes a five-year regional planning cycle. Regional planning looks at the electricity needs of each region, considering energy conservation, electricity generation, distribution infrastructure and innovation to meet those needs.

Figure 5: Map of In-service, Non-Solar Facilities in Ontario's 21 Regional Planning Zones

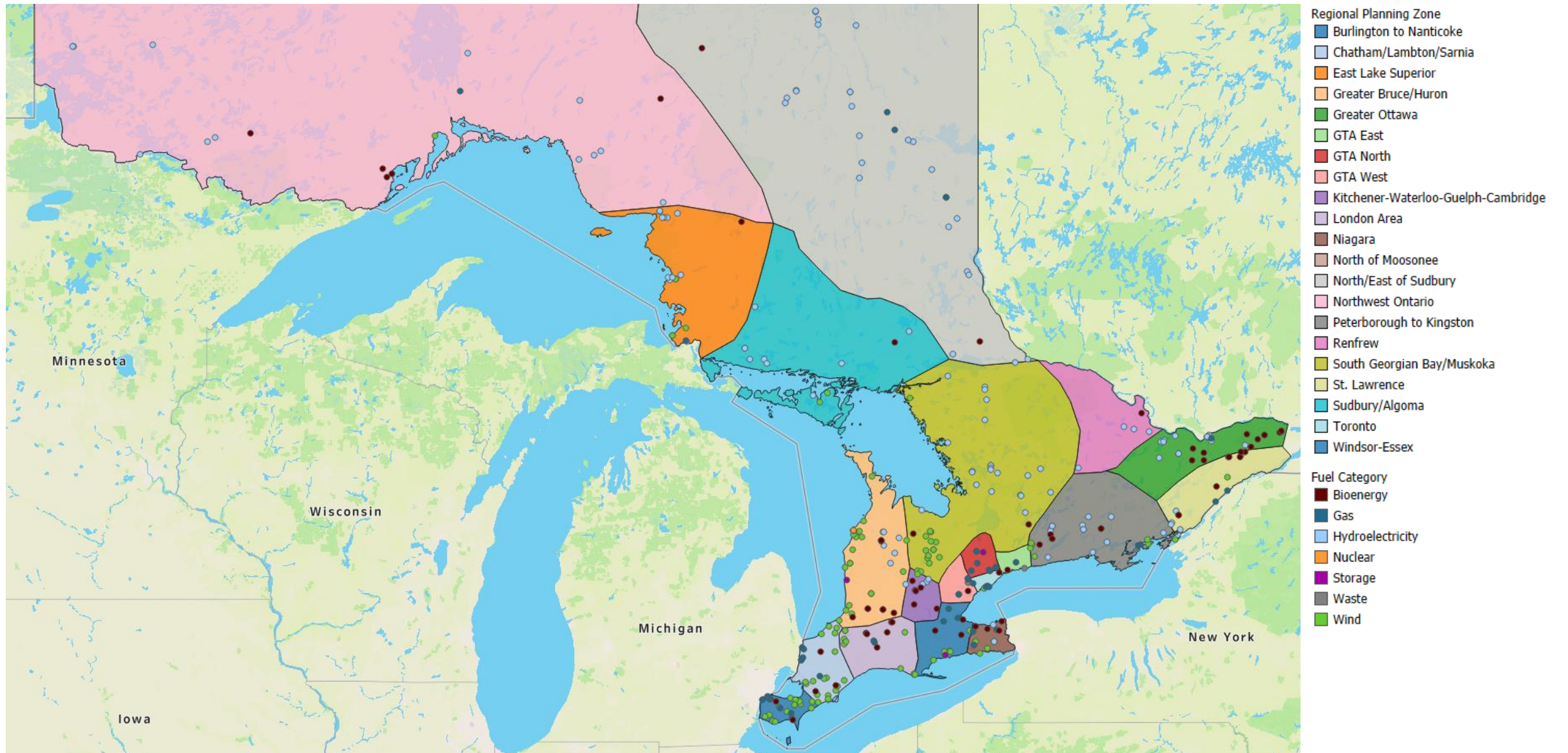
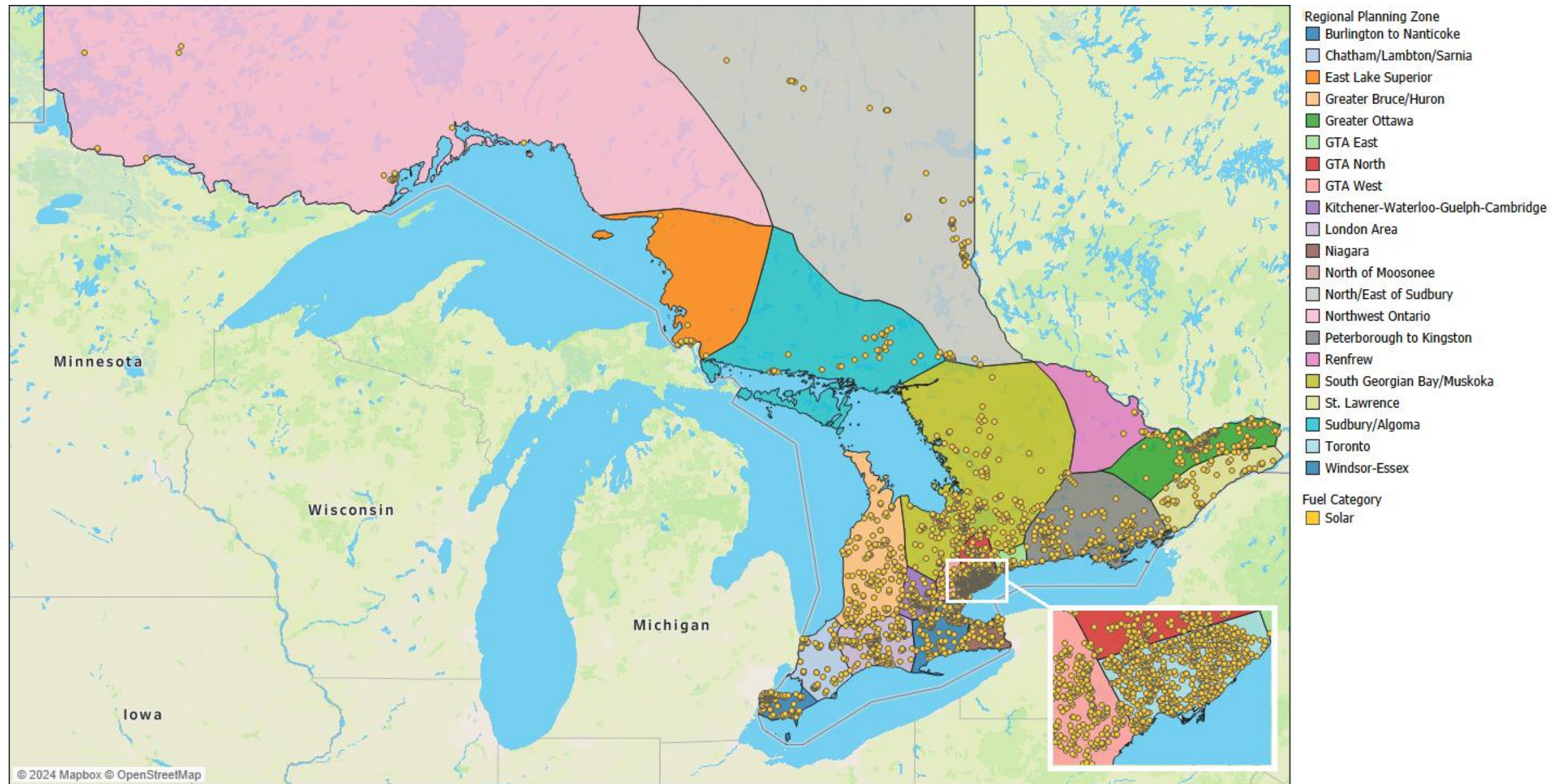


Figure 6: Map of In-service, Solar Facilities (excl. microFIT) in Ontario's 21 Regional Planning Zones



# microFIT Program

The micro-Feed-in Tariff Program (microFIT) was launched in 2009 and the application window for new microFIT contracts was closed in December 2017. Projects under the microFIT program have contracted capacities of 10 kilowatts or less. The program attracted many homeowners, small businesses, and farms. The total number of these projects account for over 85% of all IESO contracts. All microFIT contracts are for renewable energy. Table 8 below shows that virtually all microFIT contracts are either ground-mounted or rooftop-mounted solar mounted projects.

Table 8: Number of microFIT Contracts and Capacity by Fuel Type

| Fuel Category | No. of Contracts | Contract Capacity (MW) |
|---------------|------------------|------------------------|
| Bioenergy     | 1                | 0.01                   |
| Solar         | 29,837           | 256.96                 |
| Wind          | 3                | 0.01                   |
| Grand Total   | 29,841           | 256.99                 |

The number of contracts executed annually has varied with the different contract prices offered for contract versions. Figure 7 below illustrates the number of microFIT contracts executed at each price level along with the growth in microFIT capacity until the program ended. Figure 8 illustrates the geographic distribution of microFIT contracts within Ontario census divisions.

Figure 7: microFIT Contracts by Price and Capacity Growth Until End of Program

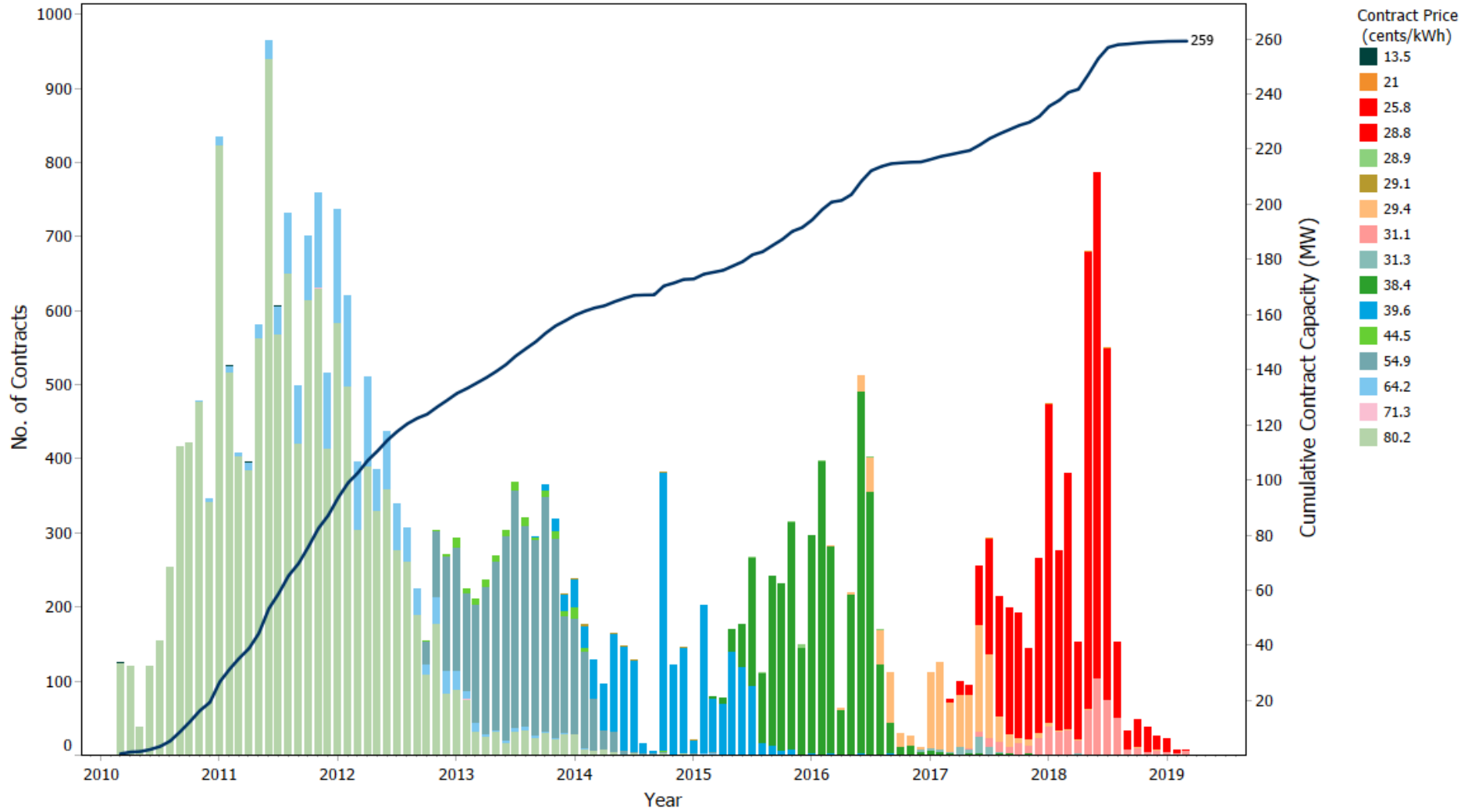
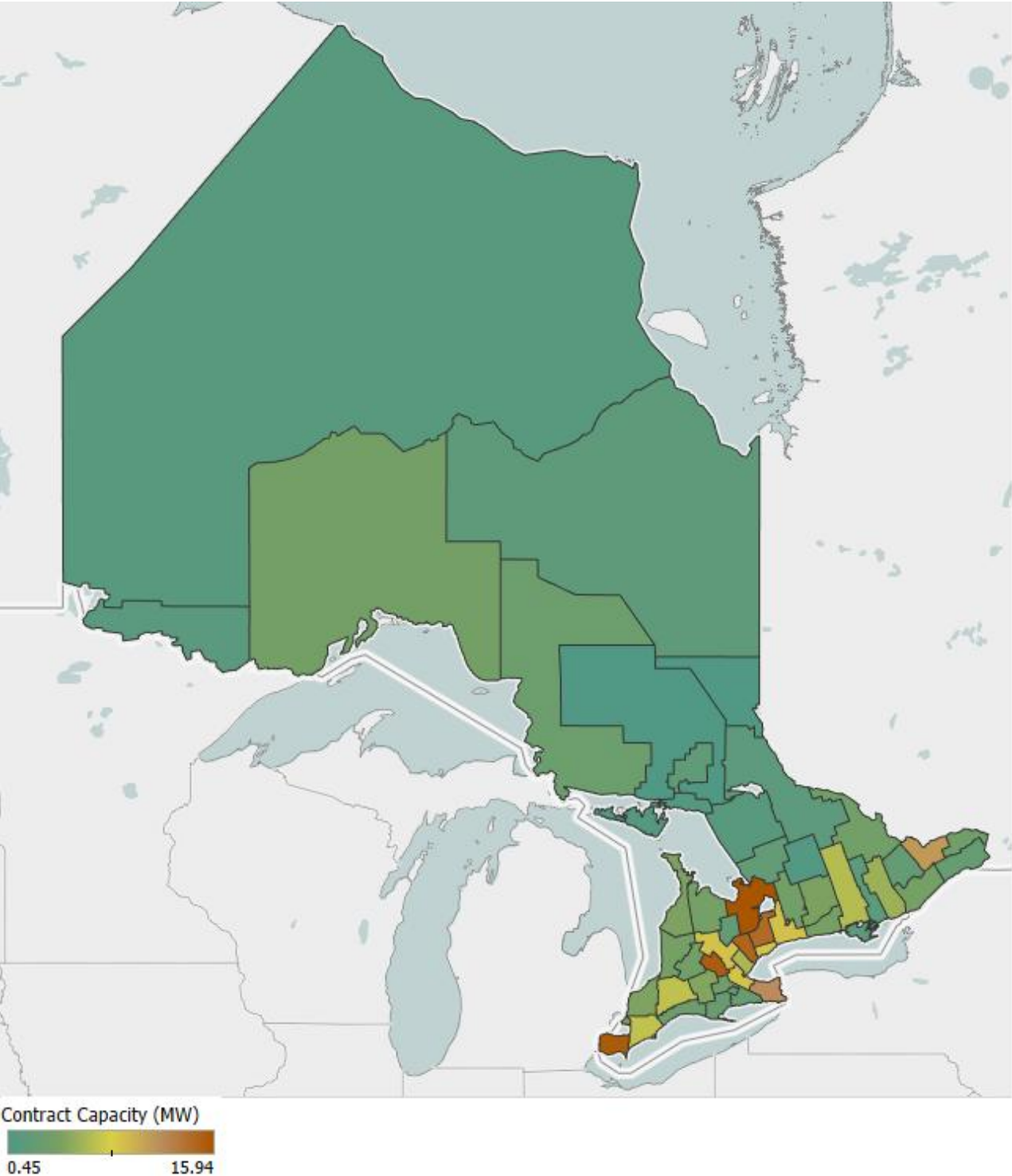


Figure 8: Map of microFIT Contracted Capacities in Ontario Census Divisions



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**Independent Electricity System Operator**

1600-120 Adelaide Street West  
Toronto, Ontario M5H 1T1

Phone: 905.403.6900

Toll-free: 1.888.448.7777

E-mail: [customer.relations@ieso.ca](mailto:customer.relations@ieso.ca)

**ieso.ca**

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