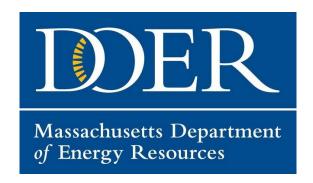
# DOER Municipal Aggregation Manual & Best Practices Guide



DRAFT FOR PUBLIC COMMENT

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#### Acknowledgements

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#### Introduction

Municipal aggregation is a program where a municipal government buys electricity for the benefit of its residents and businesses. Municipal aggregation has existed in Massachusetts since 1997 and exists in several other US states, often referred to as "community choice aggregation" (CCA).

The Massachusetts Department of Energy Resources (DOER) has prepared this Municipal Aggregation Manual and Best Practices Guide (DOER Guide) to provide municipalities (cities and towns) with a resource that will assist in the formation of a municipal aggregation. The DOER Guide also provides information on the continued operation of a municipal aggregation once established.<sup>1</sup>

In establishing the DOER Guide, DOER sought to respond to municipalities' increased demand to establish aggregations by providing information that supports the effective and efficient formation of municipal aggregations, equips municipalities to advocate for municipal interests when forming a municipal aggregation, and improves collaboration with DOER on municipal aggregation formation.

- Sections 1 and 2 of this Guide educate municipalities on the basics of electricity supply, prices, and municipal aggregation.
- Section 3 of this guide provides key considerations and related best practices for any municipality seeking to aggregate or amend an existing aggregation. Areas discussed include: use of a municipal aggregation to procure additional renewable energy products to achieve clean energy and climate goals, funding and utilizing an energy manager to assist with the municipal aggregation, working with other municipalities, and how municipal aggregation interfaces with existing programs like Mass Save and utility low-income discount programs.

## Aggregations Can Provide Important Benefits for Participants:

- ✓ Clean Energy and Climate Targets:

  Municipal aggregations can give participants an opportunity to use greener electricity and help the state in achieving compliance with the Global Warming Solutions Act (GWSA) by procuring additional renewable electricity and environmental attributes. In 2021, municipal aggregations voluntarily retired more than 712,000 Class I Renewable Energy Certificates (RECs) from participating customers, equivalent to raising the RPS requirement by 1.7%.
- ✓ Access to Retail Electricity:

  Municipal aggregations can provide participants with access to competitively procured electricity while protecting them from issues that arise in individual supplier-residential contracts. This may be particularly beneficial to participating low-income and vulnerable customers that have paid significantly more under supplier-residential contracts.
- Price Certainty: Aggregation may offer participants stable electricity rates over an extended period in comparison to other supply options.
- Section 4 describes the process that a municipality will follow in forming an aggregation while identifying best practices to maximize policy benefits and avoid common pitfalls.

<sup>&</sup>lt;sup>1</sup> The DOER Guide is informational and is not intended to replace expert assistance of consultants or lawyers.

- Section 5 provides information for municipalities already operating a municipal aggregation, including ongoing outreach and education, as well as amending or terminating a municipal aggregation.
- The Appendices provide additional information to supplement the main text, including a list of the best practices found through the guide and a glossary.

**Rapid Growth of Municipal Aggregations:** Municipal aggregations have been growing rapidly in Massachusetts over the last several years. As of 2021, there were 136 active municipal aggregations in Massachusetts (Figure 1), almost double the number of aggregations four years ago. The most recent data from DOER shows that as of July 2022, there were over 1.2 million municipal aggregation customers in Massachusetts.<sup>2</sup>

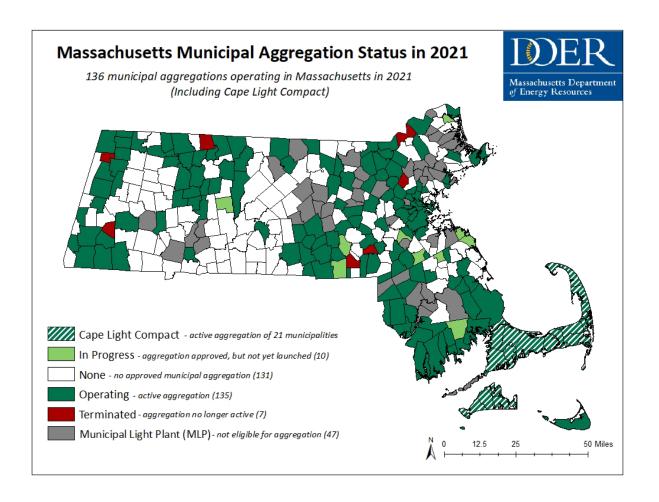


Figure 1. Municipal Aggregation Status in 2021. Note: Aggregations that are in development or in review at DPU are not reflected in this map.

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<sup>&</sup>lt;sup>2</sup> Electric & Gas Customer Choice Data | Mass.gov

## 1. Before You Begin: Basics of Electricity Supply and Distribution

This section provides background information about electricity supply and distribution. The Glossary in Appendix C defines key terms.

#### 1.1 Role of Electric Utilities in Providing Electricity Supply and Distribution

What is the role of electric utilities?

Many of the state's consumers obtain their electricity supply from the three Massachusetts investor-owned electric utilities, known as electric distribution companies ("EDCs"). <sup>3</sup> This electricity supply option is called "basic service."

However, the role of the EDCs

extends beyond the provision of basic service. The EDCs' primary role is to deliver electricity to consumers over local distribution wires, poles and other distribution system infrastructure in a safe, reliable and low-cost manner. The Department of Public Utilities (DPU), the state public utility commission, regulates the EDCs and the rates they charge.

In addition to owning, operating, and maintaining the distribution system infrastructure and providing basic service, the EDCs provide metering and billing services to customers for their electricity usage and delivery and offer programs such as the Mass Save energy efficiency programs. Each EDCEDC provides a monopoly distribution service to a defined geographical area called a "service territory," and is subject to the oversight of the Department of Public Utilities (DPU).4

Municipally Owned and Operated Electric Utilities: Although the EDCs serve most municipalities in Massachusetts, there are also 50 municipalities in Massachusetts that are served by a Municipal Light Plant (MLP), which is a utility owned and operated by the municipal government. Municipalities served by an MLP have their own electric supply as determined by the local MLP and are not eligible for municipal aggregation

## 1.2 Consumer Choice in Purchasing Electricity Supply

What options are there for buying electricity?

Today most consumers in Massachusetts have the choice to purchase their electricity supply from their EDC or a competitive supplier. This has been the case since the restructuring of the electric market in Massachusetts in 1997. Consumers living in a municipality with an established municipal aggregation have the added choice of purchasing their electricity supply from

the municipal aggregation.

There are three main categories of electricity supply available to residential customers in Massachusetts (Table 1):

<sup>&</sup>lt;sup>3</sup> Eversource Energy, National Grid, and Unitil – read more at the DPU website: <a href="https://www.mass.gov/info-details/find-my-electric-gas-and-water-company">https://www.mass.gov/info-details/find-my-electric-gas-and-water-company</a>

<sup>&</sup>lt;sup>4</sup> The DPU provides a service territory map <u>here</u> and a listing of which EDC serves a given municipality <u>here</u>.

<sup>&</sup>lt;sup>5</sup> With the exception of customers served by an MLP (see box on p. 3).

Type of Electric Supply	Procuring Entity	Customers Served
Basic Service	EDCEDC (i.e. Eversource, National Grid, or Unitil)	This is the supply source for any customer who is not participating in a municipal aggregation or contracting for competitive electricity supply.
Municipal Aggregation	Municipality	When established by a municipality, eligible customers will be autoenrolled in municipal aggregation supply unless they choose to optout. Customers may choose to join or leave the aggregation at any time with no charge.
Individual Competitive Supply	Competitive Supplier (see <u>listing</u> <u>from DPU</u> )	Individual customers sign contracts with a competitive supply company.

Table 1. Types of Electric Supply

As of July 2022, the largest share of residential electricity consumers in Massachusetts (43%) are participating in municipal aggregation for their electricity supply (Figure 2). Another 40% receive basic service electric supply and 17% are on an individual competitive supply contract.

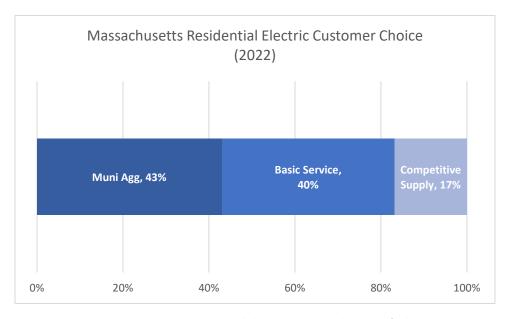


Figure 2. Massachusetts Residential Electric Customer Choice as of July 2022

#### **Risks in the Competitive Supply Market**

Investigations by the <u>Massachusetts Attorney General's Office</u> have shown that residential consumers on individual competitive supply contracts have suffered substantial losses compared to if they had remained on utility basic service. Additionally, there is evidence that competitive suppliers have targeted low-income and minority communities for contracts with unfavorable terms.

The DPU has regulations that govern the competitive supply market. Since municipal aggregations are a type of competitive supply, they are also subject to those regulations, with two exemptions: (1) the municipal aggregation does not need a broker's license, since the plan approval replaces this requirement, and (2) the municipality may automatically enroll customers on basic service to their standard product without a customer's affirmative consent.

#### 1.3 Electricity Rates, Prices, and the Wholesale Market

In New England, there is a wholesale market for electricity where electric suppliers purchase energy to resell to retail consumers. The price of electricity in the wholesale market changes in real time (every five minutes) and is influenced by demand, power plant availability, weather, and location. For instance, on a hot summer day when many customers are running air

What drives the cost of electricity?

conditioning and demand for electricity is very high, electricity prices in the wholesale market can often spike to many times higher than average. Similarly, during cold periods in the winter energy prices can spike as the region relies on comparatively expensive petroleum and imported liquified natural gas (LNG) to maintain reliable electric demand (see Figure 3). Wholesale electricity prices could also rise if a power plant in the region experiences an unexpected outage, or when fuel supplies are scarce.



Figure 3. Average Monthly Wholesale Electricity Prices in Massachusetts (2021)

While electric prices change in real-time, electricity suppliers typically sell the electricity purchased on the wholesale market for consumption by residential customers as a fixed dollar per kilowatt hour rate (\$/kWh). The fixed rate that residential customers pay for electricity reflects an average of the underlying wholesale prices that the supplier must pay over a given period of time, in addition to other costs described in the next section . There are other types of customers who may purchase electric supply from competitive suppliers under a time-variable rate. For instance, large commercial customers often will opt to pay an electricity rate that varies because it is more advantageous based on their business operations.

#### 1.4 Understanding the Basics of Electric Bills

How do I read my monthly electric bill?

Consumers receive their electricity bill from their EDCEDC even if they purchase their electricity supply from a municipal aggregation or a competitive supplier.<sup>6</sup> Bills vary slightly depending on the EDCEDC serving a customer.<sup>7</sup> Electricity is billed monthly in dollars per kilowatt-hour of electricity use (\$/kWh).

Electric bills are split into two main components: Delivery and Supply (Table 2). Only the Supply side of the bill is impacted by municipal aggregation.

<sup>&</sup>lt;sup>6</sup> Customers served by MLPs receive electricity bills from MLPs.

<sup>&</sup>lt;sup>7</sup> Sample electric bills with explanations of the charges are available for Eversource Energy customers <u>here</u>, for National Grid <u>here</u>, and for Unitil <u>here</u>. Each of these bills will show the Supply rate a given customer is paying, which will vary depending on whether they are on basic service, a municipal aggregation rate, or an individual competitive supply contract rate.

Charge	Description	Amount	Impact of Municipal Aggregation
Delivery	These charges cover the cost of utility infrastructure (poles and wires) to deliver electricity to homes and businesses, as well as policy charges. 8	Varies over time and depends on the EDC. Typically, Delivery charges account for about half of the total electricity cost.	Municipal aggregation does not impact the Delivery charges on electric bills. The EDC will continue to collect Delivery charges from all municipal aggregation customers.
Supply	This charge covers the cost of purchasing electricity supply from the wholesale energy market. <sup>9</sup>	Varies over time and depends on the type of supply the customer is receiving: Basic Service, Municipal Aggregation, or Competitive Supply. Typically, Supply charges account for about half of the electricity cost.	Upon aggregating, the municipality enters into a contract with a competitive supplier to purchase electricity Supply, and the contract sets the electric Supply charge for participating customers.

Table 2. Electricity Charges

Supply rates change over time depending on market conditions. The schedule of supply rate changes is also different depending on the type of supply. Basic service rates are reviewed and approved by the DPU every six months (current and historical rates can be viewed at the DPU website). Municipal aggregation supply contracts vary among aggregations, but contracts for fixed rates typically last between 18-36 months. For individual competitive supply contracts, rates and contract terms are highly variable and rates are not regulated by the DPU. Some competitive supply contracts include monthly variable rates and auto-renewal provisions.

<sup>&</sup>lt;sup>8</sup> There are also other charges beyond the charge for delivering electricity to homes that are included in the Delivery portion of electric bills such as g clean energy policy charges and an energy efficiency charge. More information is available in the DOER Comprehensive Energy Plan (2018).

<sup>&</sup>lt;sup>9</sup> The cost of renewable energy certificates described in section 4.2 are also included in this portion of the bill, as well as other wholesale market and supplier costs.

## 2. Municipal Aggregation Overview

This section provides an overview of municipal aggregation and key concepts that are important to understanding how aggregations operate.

#### 2.1 Key Players in the Municipal Aggregation Process

The process of creating an aggregation involves multiple organizations and state agencies (Figure 4).

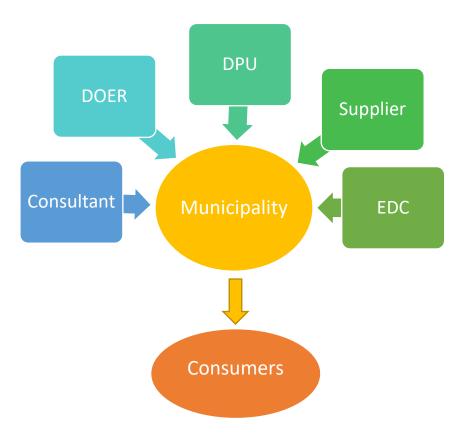


Figure 4. Key Players in Municipal Aggregation

- Municipalities hold the primary responsibility for the formation and operation of a municipal aggregation. The municipality must lead outreach and send communications to residents as well as coordinate with a consultant (if using), state agencies, and all other involved parties throughout the steps of the aggregation process.
- Consultants often assist municipalities with the aggregation process. A consultant must be licensed as an electricity broker in Massachusetts.<sup>10</sup>

<sup>&</sup>lt;sup>10</sup> See more on this from the <u>DPU</u>. As of 2022, three companies are active as municipal aggregation consultants in Massachusetts: Colonial Power Group, Good Energy, and Peregrine Energy Group.

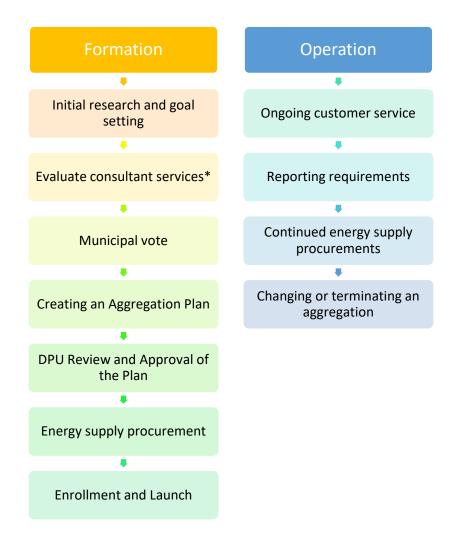
- The Department of Energy Resources (DOER) is legally required to consult on and review
  municipal aggregation plans. DOER also advises municipalities regarding aggregation through
  the Green Communities Division.<sup>11</sup>
- The Department of Public Utilities (DPU) is the state public utility commission that regulates electric utilities, including municipal aggregations. All municipal aggregation plans are subject to review and approval by the DPU.
- Suppliers sign a contract with the municipality to sell electricity to municipal aggregation customers. Suppliers must be licensed in the Commonwealth as competitive electricity suppliers.<sup>12</sup>
- **EDCs** coordinate with the municipality to ensure a smooth transition of customers when an aggregation launches and continue to provide a single monthly bill for electric supply and delivery to customers on municipal aggregation.
- **Consumers** choose whether to receive electricity supply from the aggregation.

#### 2.2 Key Steps in the Aggregation Formation and Operation Process

There are many steps involved in the process of forming and operating a municipal aggregation, and community outreach and education are needed throughout (Figure 5). Section 4 and 5 of this guide will explain each of these steps in detail.

<sup>&</sup>lt;sup>11</sup> See Appendix G: Additional Resources for contact information for Green Communities Regional Coordinators.

<sup>&</sup>lt;sup>12</sup> More information about licensure is available at the <u>DPU website</u>. DPU also provides a list of licensed competitive electricity suppliers <u>here</u>.



<u>NOTE</u>: Community Outreach and Education is important to execute throughout the entire formation and operation processes, with some points in these processes requiring more intense outreach and education than others.

Figure 5. Key Steps in Municipal Aggregation Process

## 2.3 Standard and Optional Products

Every aggregation includes a "standard" product, in which consumers will be automatically enrolled when the aggregation launches.

This is a key feature of municipal aggregations: they are structured as "opt-out" programs, meaning that customers will be automatically enrolled into the standard product unless they actively choose to opt-

<sup>\*</sup> In 2021, almost all active municipal aggregations worked with a consultant.

out or choose to enroll in another product offered by the aggregation, if applicable. Only customers that are on basic service are automatically enrolled in the aggregation. For customers that obtain supply from a competitive supplier, they would have to first terminate their existing competitive supply contract with the competitive supplier before becoming eligible to enroll in a municipal aggregation. This may require the customer to pay an early termination fee (depending on the terms of their individual contract).

<u>Note on automatic enrollment and customer choice:</u> Municipal aggregations fully preserve customer choice for electricity supply. Customers participating in a municipal aggregation are free to leave the municipal aggregation at any time free of charge should they desire to return to basic service or a competitive supplier.

The standard product will always include the amount of renewable energy required by law, but a municipal aggregation may also choose to include additional renewable energy products in the standard product (see Section 3.2 for more information).

In addition to offering a standard product, many municipalities choose to offer optional products, for instance a "Green" product that includes more renewable electricity credits (usually at a slightly higher rate than the standard product), or a "Basic" product that only includes the minimum renewable electricity (usually at a slightly lower rate than the standard product if the standard product includes voluntary renewable energy). Customers must actively choose to enroll in these optional products instead of the standard one.

Descriptions of all supply productions, including descriptions of how the rates for them will be set, must be included in Municipal Aggregation Plan that the municipality submits to the DPU (see Section 4.2). Any optional supply products the aggregation offers are governed by the same DPU regulations that apply to all competitive supply products.

## 2.4 Electric Supply Rates in an Aggregation

Municipalities undertaking aggregation procure electricity supply by conducting a competitive solicitation for an Electric Service Agreement (ESA). In the case of municipal aggregation, an ESA is a contract by which the municipality purchases electricity supply from a competitive electricity supplier.

The electric rates that a municipality can secure through the ESA will depend primarily on three factors:

- 1. <u>Market Conditions</u>: The prevailing wholesale electricity market conditions at the time the solicitation occurs, including current and forecasted future electricity prices. <sup>13</sup>
- 2. <u>Load Profile</u>: The pattern of the electricity demand of customers eligible to participate in the municipal aggregation is referred to as the "load profile" of the community. This includes factors like the times of day when demand is highest in the community, the mix of residential

<sup>&</sup>lt;sup>13</sup> As explained in Section 1.3, electricity prices on the wholesale market can vary substantially over time based on weather, resource availability, and demand.

- versus commercial and other large consumers in the community, and the community's location relative to wholesale market "zones" that are used for pricing purposes.
- 3. <u>Contract Duration:</u> Since energy market prices are higher in the winter, the duration of the contract can impact the pricing received. For example, an 18-month contract that includes two winter seasons would likely produce higher prices than an 18-month contract that includes only one winter season.

How do municipalities secure competitive rates?

Reviewing existing municipal aggregation rates from neighboring communities will not necessarily be a reliable indication of what types of supply rates another community pursuing aggregation will receive. The load profile in each municipality is different and wholesale electricity market conditions (and therefore pricing) for electricity supply change continuously. One municipality may have aggregated at a time when wholesale market

prices were very low, but this could have changed by the time a neighboring municipality is aggregating.

Electric supply rates will also not be significantly impacted by the size of the municipality. Historical data shows that municipal aggregations of small towns have sometimes received better electric supply rates than those of large cities. Pricing is driven not by the volume of sales, which would be less for small towns, but by the nature of the load profile, which depends on the split between residential and commercial customers, the load zone, and other factors that are not influenced by the size of the municipality.

#### Note on Comparison of Municipal Aggregation Supply Rates to Basic Service

**Rates:** A municipality will not be able to guarantee savings from the aggregation compared to basic service in the future because basic service rates will change (Figure 6). This means that when comparing rates, municipal leaders must be aware that an aggregation rate may be lower than basic service when the aggregation starts, but this cannot be guaranteed in

How do aggregation rates compare to basic service?

the future. It is also important to know that basic service rates are typically higher during winter months, so even if an aggregation rate is advantageous during the winter basic service period, this could change during the summer period. Additionally, some aggregation rates also include additional renewable energy, so comparing the aggregation rate to basic service may not be an "apples-to-apples" comparison.

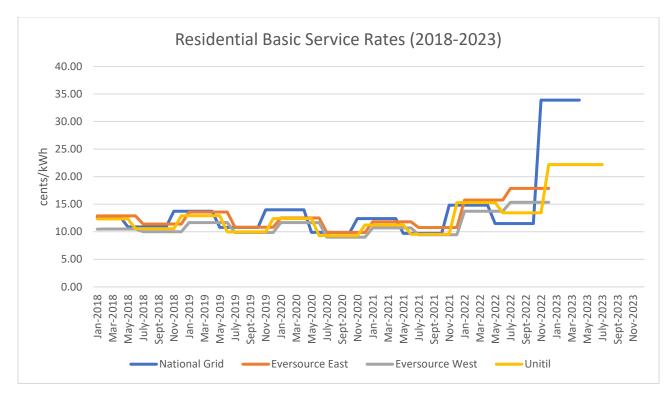


Figure 6. Residential Basic Service Rates (2018-2023)

## 3. Key Considerations for Municipalities Forming or Amending a Municipal Aggregation

This section provides key considerations for any municipality seeking to aggregate or amend an existing aggregation. Key considerations include: use of a municipal aggregation to procure additional renewable energy products to achieve clean energy and climate goals, funding and utilizing an energy manager to assist with the municipal aggregation, working with other municipalities, and how municipal aggregation interfaces with existing programs like Mass Save and the low-income discount program.

## 3.1 Goal Setting for Municipal Aggregations

Setting goals for a municipal aggregation will help guide a municipality throughout the process of forming and operating an aggregation. Below is a list of potential advantages and challenges for a municipality to consider when establishing goals for a new municipal aggregation or refining goals for an existing municipal aggregation.

<u>Best Practice</u>: Establish clear goals for aggregation early on in the aggregation formation process, refine goals over time, and use the goals to guide decision-making throughout the process of forming and operating an aggregation.

#### **Potential Advantages of Aggregation:**

- Aggregation may offer longer-term price certainty in electric supply rates in comparison to basic service.
- Municipalities may want to use an aggregation to achieve clean energy and climate goals by, for instance, increasing the amount of renewable energy in the electricity supply. A common way to do this is by purchasing additional renewable energy (see Section 3.2).
- Municipalities can fund a staff energy manager position through use of an operational adder (see Section 3.3).
- Aggregation may allow residents to achieve the benefits of the competitive electricity market while protecting them from the risks of individual supplier contracts.

#### **Potential Challenges of Aggregation:**

- Aggregations cannot guarantee that customers will save money in comparison to basic service.
   Even if an aggregation rate is below basic service at a given time, basic service rates change every six months so the savings cannot be guaranteed for the future.
- Aggregation requires administrative effort for the municipality, especially to launch, but also on an ongoing basis. Even if using a consultant to assist with the aggregation process, municipal staff will need to allocate resources to launch and maintain an aggregation.
- Some aggregations use administrative fees to pay for aggregation consultants that are paid by participating residents and businesses on an ongoing basis, which is an added cost.

#### 3.2 Increasing Renewable Energy Supply with a Municipal Aggregation

Municipalities with the goal of increasing the amount of renewable energy in the electricity supply may opt to purchase voluntary Renewable Energy Certificates (RECs). Municipalities may choose to include voluntary RECs in their standard supply products and/or in optional "opt-up" products. This is a common way that municipalities pursue renewable energy goals through municipal aggregation.

What is a REC?

A REC represents the environmental attribute associated with renewable energy production; one REC is created each time a qualified renewable energy facility generates one megawatt hour (MWh) of electricity. RECs are used to track renewable energy production because, due to the physics of the

power grid, consumers cannot know where the electricity they consume was generated.

While this guide focuses on RECs, which are the most common type of environmental attribute that is tracked using certificates, there are other energy attribute certificates available in the marketplace. Municipalities should review the information in this guide to help them make an informed purchase decision when considering a REC purchase and other attribute certificates available in the market, as described below.

#### 3.2.1 Massachusetts RECs

A Massachusetts "Class I" REC is a specific type of REC that meets eligibility standards for the Massachusetts Renewable Energy Portfolio Standard (RPS). By law, all retail electricity suppliers (both EDCs and Competitive Suppliers) in Massachusetts must purchase a certain amount of Class I RECs. In addition, aggregations who wish to purchase more renewable energy may choose to purchase voluntary Class I RECs over and above amounts required by law. Massachusetts Class I RECs offer important benefits:

#### <u>Deep Dive: RECs and</u> <u>Renewable Energy Policy</u>

For more detailed information about RECs and renewable energy policies in Massachusetts, see Appendix D.

- ✓ <u>Established Tracking System:</u> Class I RECs are carefully tracked in a regional accounting system to ensure there is no double-counting (so that the same REC is not sold twice). This helps ensure "additionality," meaning the purchaser of the REC is guaranteed that the REC represents new renewable electricity produced in New England or adjacent regions.
- ✓ <u>Contribution to Massachusetts Climate Goals:</u> Purchasing Class I RECs helps reduce emissions from the electricity sector in the official state emissions accounting system (the "GHG Inventory"). This means that aggregations that purchase voluntary Class I RECs are helping Massachusetts make faster progress towards achieving its emissions reduction goals.

Municipalities should note that purchasing Massachusetts Class I RECs comes at a cost premium compared to buying grid electricity, which is still mainly fossil fuel generation.

#### 3.2.2 Other RECs and Other Energy Attribute Certificates

With RECs produced outside the region (National Wind RECs from Texas or Ohio, for instance), it is harder to ensure additionality and therefore that the municipality's investment does in fact result in a reduction in emissions. Out-of-region RECs may not be tracked in a rigorous accounting system and may not incentivize construction of new renewable energy.

While aggregations that purchase out-of-region RECs may pay less than they would for Massachusetts Class I RECs on a REC-to-REC comparison, the purchase will not necessarily reduce emissions and will not contribute towards reaching Massachusetts emissions goals. In contrast, an aggregation that buys voluntary Class I RECs will be paying for additional renewable energy that does reduce emissions while accelerating progress towards Massachusetts emissions goals.

Some municipal aggregations may also consider other types of energy attribute certificates that are not RECs, for example Alternative Energy Certificates (AECs) and Zero Emissions Credits (ZECs). <sup>14</sup> With any of these environmental attributes, municipalities should research the source of the environmental attribute (i.e, renewable energy, nuclear, flywheel storage, or other sources), to determine if it aligns with the municipality's goals. Municipalities should also evaluate the certification and tracking process for the environmental attribute being sold to determine if it is rigorous and ensures additionality. As

<sup>&</sup>lt;sup>14</sup> AECs are qualified for the Massachusetts <u>Alternative Energy Portfolio Standard (APS)</u>. ZECs are qualified under Connecticut's <u>Zero Carbon Procurement</u>. Some Massachusetts-certified environmental attributes, such as Clean Energy Certificates (CECs), also help to reduce emissions in the GHG Inventory.

with out-of-region RECs, municipalities should also consider whether the attribute being sold contributes to meeting Massachusetts climate and emissions goals.

#### 3.2.3 Key Considerations for Determining Which RECs to Purchase

DOER recommends municipalities include voluntary Massachusetts Class I RECs in their aggregation products at a level that maintains affordability for residents. Price-sensitive communities with moderate and low-income residents may choose to include smaller percentages of additional RECs in the standard product to maintain affordability for that community, but they could also offer an optional product with more RECs for those willing to pay a slightly higher rate to support renewable energy. Other communities may include relatively high percentages of voluntary Class I RECs in both the standard product and in optional products.

DOER does not recommend purchasing out-of-region RECs (e.g. National Wind RECs) since it is hard to ensure additionality of these RECs and they do not contribute to Massachusetts climate goals.

Municipal leaders should engage with the community to understand how to best balance the options and priorities for purchasing additional renewable energy in a way that best serves their community. Specific decisions about the amount of RECs to include in the supply products will be made when the municipality conducts the energy supply procurement (see Section 4.4).

Overall, a municipality should identify the option that aligns with their goals for the municipal aggregation and community needs. Municipal aggregators should consider the following questions when comparing RECs:

- 1. What is the additionality of the REC? Is it tracked using a rigorous accounting system to ensure it represents new clean energy on the regional New England grid?
- 2. What is the cost of the RECs? Does the cost and amount of RECs appropriately reflect the community's priorities for affordability and/or increased renewable electricity supply?
- 3. <u>Does this REC help Massachusetts achieve its climate goals?</u> Is it a Massachusetts-qualified REC, which counts towards reducing Massachusetts emissions?

#### **Best Practices for Purchasing Renewable Energy**

- Class I RECs: DOER recommends aggregations include voluntary Class I RECs in their aggregation products at a level that maintains affordability for residents. Class I RECs support new renewable energy and contribute to achieving Massachusetts climate goals. DOER does not recommend purchasing out-of-region RECs (e.g. National Wind RECs) since it is harder to ensure additionality and these do not contribute to Massachusetts climate goals.
- Municipal Aggregation Product Options: Aggregations should consider purchasing
  an affordable amount of voluntary Class I RECs in the standard (default) supply
  product and a higher amount in an "opt-up" optional green product. Aggregations
  should consider the needs and interests of their residents when deciding on the
  amount of Class I RECs to include, weighing the benefits and costs, including
  affordability.
- Municipalities Should Consider Green Options Available Outside of a Municipal Aggregation: Purchasing additional voluntary Class I RECs through aggregation is not the only way to "green" a community. There are a variety of other impactful and cost-effective clean energy and energy efficiency programs that municipalities can pursue and participate in to reduce their emissions and save residents money that fall outside of the municipal aggregation, including weatherization programs, electric vehicle infrastructure, and other key initiatives supported by the DOER and other state programs. Discuss options with the municipality's Green Communities Regional Coordinator.

#### 3.2.4 Data on REC Products in Massachusetts Municipal Aggregations

Data from municipal aggregation annual reports analyzed by DOER illustrates the renewable energy products offered by municipal aggregations. In 2021, 23% of municipal aggregations in Massachusetts included voluntary Class I RECs above the amount required by the RPS in their standard supply product (Figure 7). Additionally, 52% of municipal aggregations offered participants the choice to enroll in an optional "opt-up" supply product that included voluntary Class I RECs (Figure 8).

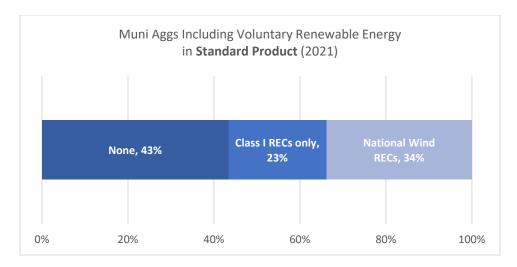


Figure 7. Voluntary RECs in Standard Products

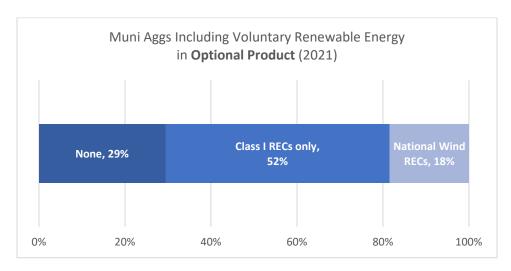


Figure 8. Voluntary RECs in Optional Products

In 2021, customers participating in municipal aggregations retired over 712,000 voluntary Class I RECs, which represents about 9% of the estimated RECs for RPS requirements and is equivalent to raising the RPS requirement by 1.7 percentage points. This additional purchase of renewable electricity saved over 304,000 metric tons of CO2 emissions from the electric grid, the equivalent of taking over 66,000 cars off the road.

On average, the standard products offered by Massachusetts' municipal aggregations in 2021 that included additional Class I RECs generally had a minimal price premium compared to standard products that do not include additional RECs (Figure 9). These standard products had, on average, 13% additional Class I RECs over the amount required by the RPS. The most common amount of additional RECs in standard products was 5%. Optional aggregation products with 100% Class I RECs had a greater price premium compared to standard products (Figure 9).

To illustrate the impact on residential consumers, for 2021, the difference in average rates between standard products with RPS minimum RECs and those with additional Class I RECs would add up to about \$1.18 per year for an average residential customer consuming 600 kWh per month. The rate difference between the RPS minimum products and the optional 100% Class I REC products would add up to about \$226.91 per year for an average residential customer consuming 600 kWh per month.

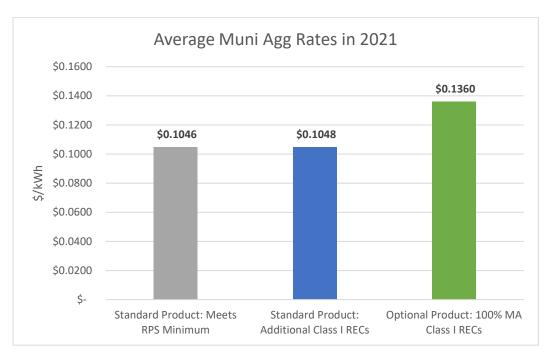


Figure 9. Average Rates for Muni Agg Products with Voluntary RECs

Municipalities should note that RECs are a market product and the price of RECs varies over time, so the price differences shown here are illustrative only of recent market conditions and are subject to change (see Appendix D: Renewable Energy Policies and RECs for more on REC prices). Municipal aggregations submit the rates they offer for standard and optional products, as well as information about REC content, in the annual reports they submit to the DPU (available <a href="https://example.com/here">here</a>).

#### 3.3 Funding an Energy Manager Position

A key consideration for aggregations is to evaluate whether to use an "operational adder" to fund a staff Energy Manager position for the municipality. <sup>15</sup> An operational adder is a per-kWh fee added to all aggregation sales that is collected by the municipality, meaning it is a fee paid by all ratepayers on their monthly bills.

<sup>&</sup>lt;sup>15</sup> Some municipal aggregations have previously received approval to use an operational adder for uses other than funding an Energy Manager. Operational adders may only be used to support the costs of operating the municipal aggregation program. Municipalities should consult with town counsel and their consultant (if applicable) regarding what uses of the adder are allowable under current DPU precedent.

An Energy Manager can help a municipality manage the aggregation program. Several communities in Massachusetts collect an adder to fund an Energy Manager. Funds from an aggregation adder cannot be used to fund an Energy Manager generally for the municipality. Instead, the adder funds must be used to offset the costs of running a municipal aggregation program.

A typical operational adder amount is \$0.001/kWh on all aggregation sales, which would add up to a charge of about \$7.20 per year for an average residential customer using 600 kWh per month. If the municipality is working with an aggregation consultant, the operational adder will be in addition to any administrative fee collected to fund the consultant.

Municipalities considering using an adder for an Energy Manager should evaluate the potential benefits against the additional cost to ratepayers on their monthly bills. They should also evaluate the requirements of DPU for establishing an operational adder to fund an energy manager. Any operational adder must first be approved by the municipal government and is subject to review and approval by the DPU as part of a municipal aggregation plan. The aggregation plan submitted to DPU must describe how the Energy Manager position is directly related to the operation of the aggregation. An adder cannot be added to an existing aggregation plan without re-filing the plan for DPU approval, nor can the use of the adder funds be changed from what was approved by DPU.

<u>Best Practice</u>: Municipalities can consider using an operational adder to fund an Energy Manager staff position for the municipality. Prior to making this decision, evaluate the cost of any operational adder to participants of the municipal aggregation over time in comparison to the proposed benefits. Ensure that plans for an operational adder are explained in the municipal aggregation plan and meet the DPU's requirements before filing for DPU approval.

#### 3.4 Working with Other Municipalities

Many municipalities are interested in learning from and collaborating with neighboring cities and towns regarding municipal aggregation. While information sharing about aggregation is common between municipalities, multitown aggregation itself is rare, although not unprecedented. Most municipalities should be able to meet their goals for a municipal aggregation by forming and operating a single-town municipal aggregation, especially since small towns are not necessarily at a disadvantage in terms of the pricing they receive in an energy supply procurement (see Section 2.4).

Some consultants working with municipal aggregations purchase bulk supply contracts that serve multiple separate aggregations. For example, the Massachusetts Community Electricity Aggregation (Mass CEA) administered by the consultant Good Energy is a bulk buying group for municipal aggregations. Even with this type of buying group, each municipality is still required to file its own municipal aggregation plan with the DPU and is considered a separate aggregation.

#### **Multi-Town Municipal Aggregations:**

As of 2022, the only multi-town aggregation is the Cape Light Compact, which was established in 1997. Cape Light Compact (CLC) provides electricity supply to 21 towns on Cape Cod and Martha's Vineyard and Dukes County. Creating and maintaining a multi-town aggregation requires creating a governance structure like a Joint Powers Entity (JPE).

A JPE is a specific legal structure allowed under Massachusetts law, M.G.L. c. 40, §4A. Municipal counsel may be able to provide more information about a JPE.

## 3.5 Impacts of Aggregation on Other Electricity Programs

There are many existing electricity benefit programs administered by the EDCs that will continue to be available to customers in a municipal aggregation. It is important for the municipality to communicate about how aggregation will not impact these other programs to avoid confusion.

#### 3.5.1 Low-Income Customer Programs

Bill discounts for qualified low-income residents and arrearage management plans (AMP) administered by the EDCs will continue to be available to customers on the aggregation. Bill discount programs typically offer a flat percentage discount (e.g., 30%) on a customer's total monthly bill amount. If a qualified low-income customer switches from basic service to a municipal aggregation for their electricity supply, the customer will continue to receive the same discount. The low-income customer's electricity supply rate will reflect the aggregation rate, but they will continue to receive the discount percentage applied to their total monthly bill amount. The customer will also continue to be eligible to enroll in an AMP to help customers pay down their arrears through scheduled payment programs while accessing arrears forgiveness.

#### Learn More: Energy Burden for Low-Income Households

The term "energy burden" refers to the share of household income spent on energy. Low and moderate income households tend to have a higher energy burden because utility bills represent a larger share of their household expenditures. A joint report on Affordable Access to Clean and Efficient Energy from DOER and partner agencies found that households at or below the federal poverty level in Massachusetts spent an average of 10% of household income on home heating, compared with 2-3% for the average household. Maintaining affordable electricity rates and pursuing energy efficiency improvements that can reduce energy demand are key measures to reduce the energy burden, especially for low-income populations.

#### 3.5.2 Access to Mass Save Energy Efficiency Programs

Customers participating in a municipal aggregation will continue to have full access to Mass Save energy efficiency programs administered by the EDCs. The EDCs collect funds for Mass Save through delivery charges from all customers, including those on municipal aggregation. Participating in the aggregation will not impact eligibility for any Mass Save programs and residents and businesses will continue to work with the EDCEDC for Mass Save programs.

The exception is if the municipal aggregation has applied and received DPU approval to administer Mass Save as a Program Administrator (PA). Becoming a PA is a substantial and separate effort from undertaking municipal aggregation with significant and time-consuming regulatory requirements. Most municipal aggregations in Massachusetts have chosen not to pursue becoming Mass Save PAs and

instead continue to have the EDCEDC administer Mass Save programs for their residents. CLC is the only municipal aggregation that has received DPU approval to become a Mass Save PA, and it currently operates a Mass Save program for all residents and businesses within its member municipalities.

#### 3.5.3 **Net Metering Customers**

Net metering is a program that allows residents and businesses with solar or other renewable energy facilities to offset their electricity use and transfer electricity back to the grid in exchange for a bill credit. Residents who are participating in net metering programs through their EDC will continue to receive net metering credits when they join a municipal aggregation. The net metering credit will remain unchanged and continue to be based on the basic service rate. This means that if a net metering customer participating in the aggregation generates more electricity than they use in a billing period, they will receive a net metering credit based on the basic service rate not the aggregation rate. If the customer uses more electricity than they generate, they will be billed at the aggregation electric supply rate for the amount they consume. <sup>16</sup>

#### 3.5.4 Technology Advancements & Time Varying Pricing

The EDCs in Massachusetts plan to deploy next-generation electric meter technology ("Advanced Metering Infrastructure," or AMI) over the coming years, pending DPU approval. Some municipal aggregations may seek to use AMI once deployed to offer time varying rate pricing models to participants. For instance, time varying rates could incentivize charging of electric vehicles when electricity costs less to purchase on the wholesale market (like overnight), or incentivize shifting electricity consumption away from high use periods. Time varying pricing models may help provide some participants of a municipal aggregation the opportunity to reduce their electricity costs in the future. Prior to implementing time-varying rates, aggregations will need to file amended aggregation plans for DPU approval explaining how they intend to set those rates.

<sup>&</sup>lt;sup>16</sup> More information on net metering is available at the DPU website: <a href="https://www.mass.gov/service-details/net-metering-eligibility">https://www.mass.gov/service-details/net-metering-eligibility</a>

## 4. Forming an Aggregation

This section explains each step a municipal aggregation will take when forming an aggregation, providing recommended best practices along the way. The steps are provided in chronological order based on both the statutory requirements for how aggregation formation must proceed and based on DOER's recommendations for best practice in forming an aggregation. This guide has identified statutory requirements and municipalities may choose to vary the exact order of other steps presented here.

#### 4.1 Initiate

#### 4.1.1 Information Gathering & Initial Community Input

Municipal leaders should familiarize themselves with the aggregation process and options for structuring an aggregation by engaging in information gathering and research before pursuing a municipal aggregation through a municipal vote. Reviewing this guide is a good first step in this process. Other important steps in the research process can include:

- Talk to similarly situated municipalities that have aggregated and DOER Green Communities Division, who can help identify contacts.
- Talk with key stakeholders in the community, including residents and governing boards and
  officials to begin to explain the municipal aggregation option and gather stakeholders' initial
  questions, concerns, or suggested goals for aggregation.
- Regional Planning Agencies can also be a helpful resource when researching municipal aggregation. See Appendix G: Additional Resources for links to RPAs.

<u>Best Practice</u>: Talk to other municipalities that have aggregated, regional planning agencies, and key municipal stakeholders to gain information and different perspectives on the aggregation process before deciding to aggregate.

#### 4.1.2 **Identify Goals**

Determine the municipality's individual goals for aggregation. Although goals may undergo refinement throughout the process, establishing goal from the start will help guide the municipality in its decision-making during the development of the municipal aggregation plan. For instance, if reducing emissions and promoting renewable energy is a key goal for the municipality, this is important to establish early to guide decision-making. Alternatively, if a community decides that price certainty and affordability are key goals, this will inform decision-making regarding education, outreach, and supply procurement. Review Section 3.1 to understand the different goals that municipalities may pursue through aggregation.

#### 4.1.3 Municipal Vote<sup>17</sup>

A municipal vote is required by law to initiate a municipal aggregation. <sup>18</sup> Typically the vote is a high-level authorization that allows the municipality to proceed with development of the municipal aggregation plan and to seek approval from the DPU. The municipal vote is non-binding: a municipality that votes to initiate an aggregation is not required to follow through to developing a plan or signing a supply contract.

The municipal vote is also often an opportunity for community education about aggregation and the municipality's goals. Municipal leaders may wish to prepare a presentation and publish materials for public review in advance of the vote. Note that all materials presented will need to conform to DPU language access requirements (see Section 4.3.2 for more on outreach methods).

Municipalities should consult with town counsel regarding the necessary procedures to put municipal aggregation forward for a municipal vote.

#### 4.1.4 Evaluate Consultant Options

Although not required, municipalities commonly choose to engage a consultant who will work as an electricity broker to assist in the aggregation, formation, and operation process. Consultants may help with a variety of tasks, including but not limited to, the development of a municipal aggregation plan, communication and outreach to residents, soliciting bids and negotiating an electric supply contract, monitoring the supply contract, and providing customer service during the operation of the aggregation. However, municipalities may consider whether an Energy Manager or other municipal staff have the technical expertise to run an aggregation without the services of a consultant.

If interested in working with a consultant, municipal leaders should consider consulting with other municipalities that have used a consultant to learn from their experience (search the <a href="DPU File Room">DPU File Room</a> for "Municipal Aggregation Plan" to view municipalities that have recently aggregated). DOER recommends meeting with more than one consultant that provides municipal aggregation services to understand how the process would work before making a contractual decision. Appendix E of this guide provides examples of questions to ask prospective consultants. Initial conversations with consultants do not have to be binding and municipal leaders can choose how to proceed after initial conversations.

Municipalities should also consider issuance of a competitive Request for Proposals (RFP) even if it is not required by municipal laws. The RFP should be clear and concise and request only relevant information that could help differentiate between consultants, for instance the approach to purchasing voluntary renewable energy. Reviewing Sections 2.4, 3.2, 4.3.2, and 4.4.4 of this guide in particular and the example questions for consultants in Appendix E can help during preparation of an RFP.

**Paying for a Consultant:** Consultants typically request to be paid through an administrative fee added to electricity rates for the aggregation. This means all aggregation customers, including low-income customers, pay for the consultant services as a fee on their monthly bills. As an alternative, municipalities may also consider paying for consultant services with municipal funds through an upfront payment instead of through an ongoing ratepayer fee.

<sup>&</sup>lt;sup>17</sup> In some cases, a municipality may evaluate consultant options before executing a municipal vote.

<sup>&</sup>lt;sup>18</sup> See M.G.L. Chapter 164 Section 134: <u>General Law - Part I, Title XXII, Chapter 164, Section 134 (malegislature.gov)</u>

DOER analysis of municipal aggregation annual reports shows that nearly all municipal aggregations active in 2021 included a consultant fee of \$0.001/kWh. Exceptions include Cape Light Compact, which does not use a consultant but collects a \$0.001/kWh fee for its own operations, and the City of Cambridge, which had a lower than average consultant fee of \$0.00075/kWh. The total amount of consultant fees paid by residential municipal aggregation customers in Massachusetts in 2021 was approximately \$7.8 million (Table 3). Since consultant fees are collected based on the amount of electricity consumed, small towns generally paid less over the course of a year than larger municipalities because they have a smaller population and less electricity demand.

Total Consultant Fees Paid by Residential Customers in 2021	\$ 6,682,557.32
Total Non-Consultant Fees Paid by Residential Customers in 2021	\$ 1,117,322.64
Average Total Fees Paid by Residential Customers Per Aggregation in 2021	\$ 49,136.45
Total Fees Paid by Residential Customers in 2021	\$ 7,799,879.97

Table 3. Fees Paid by Residential Aggregation Customers in Massachusetts in 2021

Municipalities should consider the fee amount and duration of the consultant contract relative to the services provided by the consultant. Much of the consultant work will be prior to the launch of the aggregation, while ongoing operational costs are likely to be relatively low. If using a fee to pay for consulting services, the consultant contract would need to extend beyond the launch period. DOER has provided a sample calculation of consultant fees in Appendix F. Some municipalities may also wish to consider alternative payment structures for consultant services, including using existing municipal funds to pay for consultant services upfront.

Additionally, the municipality may be interested in including an operational adder to fund a staff Energy Manager position for the municipality (see Section 3.3). If this position already exists, the Energy Manager may be able to launch the aggregation. The Energy Manager does not need to paid for using an adder in order to assist with an aggregation. However, the aggregation may not fund an Energy Manager position to perform tasks unrelated to the aggregation.

#### **Best Practices for Evaluating Consultants**

- If considering working with a municipal aggregation consultant, talk with other municipalities that have used a consultant to learn from their experience.
- Meet with more than one consultant where feasible and consider issuing a competitive RFP prior to entering into a contract. DOER's list of recommended questions for prospective consultants may assist in facilitating meetings (see Appendix E).
- Understand the impact of consultant fees on participants of a municipal aggregation by estimating the fees using DOER's sample calculator (see Appendix F). Consider alternative payment structures that do not require a ratepayer fee.

#### 4.2 Plan

#### 4.2.1 **Develop an Aggregation Plan**

The aggregation plan is the core document outlining the details of the proposed aggregation. Developing the aggregation plan will require the municipality to make key decisions about the aggregation. Some of those key decisions have already been discussed and include the goals of the aggregation, what supply products will likely be offered (pending the outcome of a future competitive solicitation for electricity supply), the use of an administrative adder to fund a consultant, the use of an operational adder to fund an energy manager, and future communications and outreach plans.

Aggregation plans must be reviewed and approved by the DPU, the state regulatory agency with oversight over the electricity industry. By law, a municipal aggregation plan must include: <sup>19</sup>

- An organizational structure of the program, its operations, and its funding;
- Rate setting and other costs to participants;
- The methods for entering and terminating agreements with other entities;
- The rights and responsibilities of program participants.

Municipal leaders should consult with counsel and with their municipal aggregation consultant (if applicable) to ensure the municipal aggregation plan meets all applicable statutory and regulatory requirements. The DPU has established requirements for the content of municipal aggregation plans through its prior Orders. For instance, the DPU has specific language requirements for how municipal aggregations may communicate about rates to residents, including making clear that savings cannot be guaranteed in an aggregation. Therefore, it is important to ensure that the municipal aggregation plan complies with the most recent DPU Orders and regulatory requirements. DPU Orders can be viewed by selecting "Municipal Aggregation Plan" as the Case Type in the DPU File Room.

<sup>&</sup>lt;sup>19</sup> M.G.L. Chapter 164 Section 134: General Law - Part I, Title XXII, Chapter 164, Section 134 (malegislature.gov)

Once approved, the municipal aggregation plan will set the boundaries for the structure, nature, and operations of the aggregation. Making changes will require efiling an amended municipal aggregation plan for DPU's review and approval.

#### 4.2.2 Consultation with DOER

Before submitting a municipal aggregation plan to the DPU, the law requires municipalities to consult with DOER. <sup>20</sup> This step consists of municipal officials and their consultant (if applicable) sharing a draft of the plan and conducting a meeting with DOER legal counsel and policy staff. DOER reviews municipal aggregation plans for consistency with the statutory requirements and may provide recommendations regarding best practices. After the consultation, DOER provides a letter to the municipality certifying that the required consultation took place, which is submitted to the DPU along with the municipal aggregation plan. The DOER consultation does not guarantee approval of a municipal aggregation plan by the DPU, and DPU's review of any municipal aggregation plan is to ensure that the plan complies with the law and provides consumer protections..

#### 4.2.3 Citizen Review of Plan

Before filing a municipal aggregation plan at the DPU, the municipality must allow for citizen review of the plan. This is an opportunity for public education and outreach about aggregation and can be done through public posting of the plan materials and public meetings to answer questions and receive comments. Consult with town counsel or the aggregation consultant (if using) to ensure the citizen review process meets DPU requirements.

If part of the aggregation plan is to offer products with additional RECs, this public review stage can also be an opportunity for municipal leaders to gauge what specific level of voluntary REC purchases the community wishes to pursue (for instance, 5% for the standard product and 100% for an optional product). The specific REC purchase decisions will be made during the supply procurement stage (see Section 4.4.1).

#### 4.3 Review

#### 4.3.1 Submit Plan to DPU for review

The DPU is the state regulatory agency that reviews and approves municipal aggregation plans. The DPU must approve a municipal aggregation plan before the municipality procures energy supply or otherwise launches an aggregation. The DPU reviews plans for consistency with all applicable legal and regulatory requirements, including statutory requirements that plans provide for universal access, reliability, and equitable treatment of all classes of customers. The DPU review process typically includes the following steps:

1. <u>Initial Filing</u>: the municipality, or a consultant on its behalf, files the municipal aggregation plan and supporting documents with the DPU.<sup>21</sup> The filing is assigned a DPU docket number and a hearing officer who will lead the review.

<sup>&</sup>lt;sup>20</sup> M.G.L. Chapter 164 Section 134: General Law - Part I, Title XXII, Chapter 164, Section 134 (malegislature.gov)

<sup>&</sup>lt;sup>21</sup> The DPU lists the uniform filing requirements in its February 26, 2020 Hearing Officer Memorandum, available at: https://fileservice.eea.comacloud.net/FileService.Api/file/FileRoom/11846858.

- 2. <u>Public Hearing</u>: DPU hosts a public hearing regarding the municipal aggregation plan to allow members of the public to comment on the municipal aggregation plan.
- 3. <u>Information Requests (IRs)</u>: DPU issues requests for further information and clarification to the municipality regarding elements of the plan. The municipality is typically given two weeks to respond to the information requests.
- 4. <u>Order</u>: When the DPU has concluded its review, it issues an Order to approve or reject the municipal aggregation plan. The Order to approve a plan may include required modifications to the plan as initially filed.
- 5. <u>Compliance</u>: The plan must be refiled with any required modifications for DPU final approval.

The timeline for DPU review is not set and can vary. Recent municipal aggregation plans have taken between 12 and 18 months from initial filing to DPU approval.<sup>22</sup>

<u>Best Practice</u>: Even if a consultant is filing the aggregation plan on behalf of the municipality, municipal leaders should remain engaged in the review process at DPU. Municipal leaders should work with the consultant to provide timely responses to all Information Requests from the DPU to facilitate review and avoid delays.

#### 4.3.2 Community Outreach and Education About Electricity Supply Prior to DPU Approval

While the aggregation plan is under review by the DPU, municipal leaders can begin outreach and education efforts to increase general awareness and understanding of electricity supply options in the community.

If residents are aware of and understand the basics of the electricity supply market, including basic service and competitive supply, they will be better equipped to make the choice between automatic enrollment or opting out. Once the DPU approves an aggregation plan, municipal leaders will be busy conducting the energy supply procurement and initiating program enrollment. Therefore, it is advantageous to conduct this type of basic electricity education and outreach during the DPU review stage. However, at this stage, the municipality should wait to conduct education and outreach on the actual aggregation plan itself until after it receives Department approval of the plan.

Municipalities can review sample outreach materials used by other municipal aggregations by reviewing recently approved aggregation plans from the DPU. <sup>23</sup>

<u>Basic Energy Bill Education:</u> Municipal leaders can leverage their existing outreach and communication tools to help educate residents about electricity supply. One method that some municipalities have found effective is to host "Bring Your Bill" events to walk through electric bills with residents. At these events, municipal staff, consultant staff, or volunteers can help walk through an electric bill with

<sup>&</sup>lt;sup>22</sup> To view recent DPU dockets for review of municipal aggregation plans, visit the <u>DPU File Room</u> and select "Municipal Aggregation Plan" under "Case Type."

<sup>&</sup>lt;sup>23</sup> To view recent DPU dockets for review of municipal aggregation plans, visit the <u>DPU File Room</u> and select "Municipal Aggregation Plan" under "Case Type."

residents to answer questions and explain the different sections of the bill and what they represent. These events can take place in-person, for instance by tabling at popular community events or at town/city hall, or virtually as a drop-in session using online meeting tools. Section 1 of this guide provides some background information on electricity supply and billing that could inform this type of outreach campaign, but the municipality will need to seek additional educational resources from the local EDC, the municipal Energy Manager (if applicable), an aggregation consultant, and other sources.

<u>Customers on Competitive Supply:</u> This type of outreach campaign is also an important opportunity to help educate residents about the potential risks of the individual competitive supply market. As outlined in Section 1.2, a majority of residential customers on individual competitive supply contracts have experienced substantial consumer losses in recent years. Some residents may not be aware that they are on a competitive supply contract or the terms of the contract, which may include auto-renewal, variable monthly rates, or early termination fees. The municipality can help by walking through electric bills with residents and answering questions about how to understand electricity supply contracts.

Customers on individual supply contracts are not eligible to participate in municipal aggregation until their contract term expires, so doing this education campaign early may also help enable more residents to eventually participate in the aggregation if they wish. Customers can terminate their competitive supply contracts, although doing so may require paying early termination fees.

Increasing energy literacy in the community will also serve to defend residents against predatory marketing by competitive suppliers. Competitive suppliers may market to residents using telemarketing, door-to-door marketing, and other tactics. Since competitive suppliers have been shown to target marketing to vulnerable populations, it is important to tailor education and outreach efforts to groups in the community that may be at risk, for instance low-income residents, senior citizens, or residents with low English proficiency.

#### **General Best Practices for Community Outreach and Education**

- The demographics and context of each municipality are unique, so the outreach and communications plan must be specifically tailored to the needs of the local population and should build on the municipality's existing language access and communication protocols.
- Municipal leaders can plan to use social media, including local Facebook groups run by community members, to spread messages digitally.
- Local radio and TV stations can also be a helpful way to expand outreach in the community.
- Municipal leaders can conduct outreach at existing community hubs, for instance senior centers or local fairs.
- Engaging with trusted community leaders, for instance faith leaders or representatives of local community groups, can also help to reach community members.
- Ensure that any outreach materials that mention aggregation comply with the language requirements approved by the DPU. Town counsel or the aggregation consultant (if using) can help to ensure compliance for communications materials.

## Best Practices for Community Outreach and on Aggregation and Electricity Basics Prior to DPU Approval:

- Begin an education campaign while the aggregation plan is under review at the DPU
  to inform residents about electricity supply options and warn residents about the risks
  of individual competitive supply contracts.
- Host "Bring Your Bill" events, or use other outreach methods the municipality has found effective to communicate with residents.
- Use diverse outreach methods and tailor communications to at-risk populations (e.g. senior citizens or residents with low English proficiency)

#### 4.4 Launch

#### 4.4.1 ESA Solicitation and Supply Procurement

Once the DPU approves the municipal aggregation plan, the municipality can begin preparations to implement the plan by procuring electricity supply. This requires contracting for the electricity supply by issuing a competitive solicitation for an Electric Service Agreement (ESA).

The ESA solicitation will specify the type of electricity product(s) the aggregation will offer, for instance if the supply product will include additional renewable energy certificates (RECs) (see Section 3.2 for more on RECs). The ESA will also specify what types of customer service the supplier will provide.

A consultant may help a municipality issue a competitive solicitation for an ESA. Although a consultant can help the municipality with the process, any competitive solicitation will produce bids that reflect the current market conditions because electricity supply is a competitive marketplace. Refer to Section 2.4 for information about the drivers of aggregation rates and how to compare rates to basic service.

<u>Note on market volatility:</u> The pricing an aggregation will receive depends largely on market conditions which are outside the municipality's control. For example, in 2022, the Russian invasion of Ukraine created a spike in natural gas prices and as a result, electricity market prices in New England were much higher than historical averages. Aggregations that solicited ESAs during this time faced higher prices than they may have expected a year prior.

#### 4.4.2 Coordination with EDCs and Quarterly Updates to DPU

The EDCs are still involved in providing electricity service to residents even after a municipality aggregates. The EDCs continue to provide customers with a single electric bill and the EDCs continue to collect the Delivery charges from customers. It is important for municipalities to coordinate with their EDC regarding the aggregation launch to ensure a smooth transition of customers.

Where feasible, municipalities should coordinate the planned timing of their aggregation launch with the EDC because it may have implications for the EDC's basic service supply procurement. Uncertainty around the timing of an aggregation launch, especially for larger municipalities, could lead to risk premiums in the supply rates for basic service customers. To avoid negative impacts for basic service customers in the municipality, it is important to reach out to the EDC early on to discuss timing of the aggregation launch.

Because of the potential impact of aggregation launch on basic service procurement, the DPU may require that the municipality provide quarterly updates regarding the status of its ESA solicitation.<sup>24</sup> In these updates, the municipality will inform the DPU of whether it has issued a solicitation, contracted for supply, and what the planned launch date will be.

<sup>&</sup>lt;sup>24</sup> See *e.g.* D.P.U. Docket 21-MA-QR

<u>Best Practice</u>: Reach out to the local EDC prior to finalizing plans for the aggregation launch to coordinate on timing and reduce the risk for basic service customers. This is especially important for larger cities undergoing aggregation. Provide regular updates if required by DPU regarding the status of the supply procurement.

## 4.4.3 Opt-out Period

There is a mandatory 36-day opt-out period before an aggregation can launch, during which the municipality sends out mailers to residents giving them the opportunity to decline to participate if they wish. The EDC will provide the municipality with a list of residents receiving basic service supply (i.e. the residents who are eligible to be auto-enrolled in the aggregation). Residents who opt-out of the aggregation will remain on basic service. Residents can also opt-out of the aggregation at any time after joining it with no penalty and return to basic service.

The opt-out structure of municipal aggregation can introduce confusion and sometimes frustration for residents, so it is important to communicate clearly with residents about the mechanics of the opt-out process (see next Section 4.4.2). Explain that the default will be to enroll any residents currently on basic service into the aggregation program, but that it is free to opt-out and residents can opt-out prior to the launch or at any time after. Provide multiple mechanisms for residents to opt-out, including by mail, phone, or online. Explain that any residents currently on an individual competitive supply contract do not need to opt-out, as they cannot be auto-enrolled or join the aggregation until their contract ends.

<u>Best Practice</u>: Communicate clearly about the opt-out process to avoid confusion or frustration among residents. Provide multiple, accessible ways to opt-out.

When the opt-out period ends, all existing basic service customers will be enrolled in the standard aggregation product and will begin seeing the aggregation rate on the supply portion of their monthly electric bill. The EDC will continue to provide a single monthly bill to all participating aggregation customers.

#### 4.4.4 Information Campaign About Opt-Out and Enrollment

It is crucial for the municipality to have a thorough and detailed strategy for outreach and communication to residents about the aggregation launch, including the opt-out period and enrollment process. The municipality will be at an advantage conducting outreach at this stage if municipal leaders (and a consultant, if using) have already undertaken an early general education campaign about electricity supply options during the period when the plan was undergoing DPU review (see Section 4.3.2). An early education campaign will help ensure residents are aware of what electricity supply they currently receive and will be better prepared to understand the new aggregation option during this outreach period.

Both in-person and virtual engagement tools can be used to inform the public about the aggregation, what the supply products are, when automatic enrollment will occur, and what the opt-out process is. Refer to the "General Best Practices for Community Outreach" in Section 4.3.2 for additional recommendations regarding outreach methods. As with all communications, ensure materials comply with DPU language access requirements. For instance, make clear in all communications that savings are not guaranteed whenever aggregation rates are discussed.

<u>Municipal Points-of-Contact</u>: The municipality should aim to ensure there are municipal staff available as points-of-contact for residents with questions about municipal aggregation. Even for municipalities working with a consultant, the municipality is still likely to receive questions directed at staff and it is important to make clear who on municipal staff can field these questions. The municipality should establish a phone number for residents to use to contact staff with aggregation questions.

<u>Impacts on Other Programs</u>: Residents may have questions about how aggregation will affect other energy programs, for instance bill discounts or energy efficiency programs (refer to Section 3.5). It will be important to communicate clearly how these programs are different, and also how (if at all) aggregation will impact them.

<u>Competitive Supplier Targeting:</u> Residents may be targeted by marketing from individual competitive supply companies during the aggregation launch period. Some municipalities have reported competitive suppliers using misleading marketing tactics that wrongly suggest they represent the municipal aggregation, which can confuse residents and undermine the successful launch of the aggregation. To help protect against misleading marketing tactics by competitive suppliers, municipal leaders should ensure official communications about the aggregation include clear indications of the municipality's involvement, for instance the city/town seal or the Mayor's signature.

<u>Ineligible Customers</u>: Customers that have an existing contract for competitive electricity supply are not eligible to be auto-enrolled in the aggregation. The municipality should also make clear in any general outreach to competitive supply customers that they may be subject to penalties or early termination fees if they switch to the aggregation program before their competitive supply contract term is over. The municipality should educate all residents about the difference between the municipal aggregation and individual competitive supply contracts. An early outreach campaign about electricity supply options during the DPU review stage (see Section 4.3.2) can help avoid confusion during the enrollment period.

## **Best Practices for Information Campaign About Enrollment**

- Ensure official communications about the aggregation include clear indications of the municipality's involvement, for instance the city/town seal or the Mayor's signature, to avoid confusion with marketing materials from competitive suppliers.
- Clarify how aggregation does or does not impact other energy programs (i.e. Mass Save or net metering).
- Ensure all communications are consistent with DPU requirements.
- Create clear points-of-contact for residents to contact municipal staff with questions about the aggregation.

# 5. Operating an Aggregation

## 5.1 Customer Service

Once the aggregation has launched and is actively providing electricity supply service to participating customers, customer service responsibilities may be split between the municipality, consultant (if using), and supplier. These arrangements vary depending on the agreements made between the municipality and the supplier, and the municipality and the consultant (if using). In some cases, the supplier or consultant will operate a toll-free number to field questions about the supply products and process customer requests to join, leave, or opt-up to an optional supply product.

Aggregation customers are free to join, leave, or switch to different aggregation products at any time. Changes will typically be reflected on the next monthly billing cycle. Customers who choose to leave the aggregation will be returned to the utility basic service rate.

Even if a consultant or supplier is charged with managing customer service, the municipality is still likely to receive some questions about the aggregation directed at municipal staff, so it is important to continue to have a point-of-contact on staff to answer aggregation-related questions from residents.

# 5.2 ESA Expiry and Renewal

The ESA that the municipality signs will eventually expire, at which point the municipality can decide to terminate the aggregation (see Section 5.6) or solicit for a new ESA, which is the most popular option. Due to changing market conditions, the pricing that a municipality receives in a subsequent ESA solicitation may be different from the prior ESA. The municipality must promptly inform the DPU of the new ESA, as well as notify the local electric EDC (EDC) so that the EDC can plan appropriately for Basic Service supply.

The municipality must also issue notices to inform customers about the new ESA and contract price. Customers on the standard aggregation product will be automatically re-enrolled and must be made aware of the new price that will apply. Customers on optional aggregation products may be automatically re-enrolled if they are notified in advance *and* if the voluntary renewable energy content of the product remains the same. If the voluntary renewable energy content of the optional product has changed, however, this is considered a new product and customers must affirmatively opt-in to the new product or else be returned to Basic Service.

Soliciting a new ESA is an opportunity for the municipality to evaluate the performance of the aggregation to-date considering the municipality's goals.

# 5.3 Ongoing Education and Outreach

The municipality can and should continue outreach and education once the aggregation program is operating. Providing periodic education and outreach events with general information about electricity supply options can be beneficial on an ongoing basis (see Section 4.3.2). When the ESA changes, municipal leaders should plan to conduct an outreach campaign to inform customers about the change in price and any other changes.

# 5.4 Ongoing Reporting and Tracking

DPU requires municipal aggregations to file public annual reports with the DPU that include information about rates and products, number of customers, load served, and other information. More information about reporting requirements, as well as historical annual reports from municipal aggregations, are available from the DPU.

Municipal aggregations that purchase voluntary Massachusetts RECs as part of their standard or optional products should also track REC purchases and retirements each year. Municipal leaders can ask the aggregation consultant or supplier to show the GIS certificates for the retired RECs, which that are evidence of the RECs being retired on behalf of the aggregation customers in the regional tracking system (called NEPOOL GIS). The municipality can provide this information to residents so they can be aware of the impact their REC purchases are having on renewable energy in the region.

In addition to required reporting to the DPU, municipal leaders should also continue to provide regular updates to residents and elected leaders about the aggregation, for instance through regular public postings on a municipal webpage and/or with webinars and public meetings. Transparency about the aggregation, including the number of participating residents and participation in any "opt-up" products, is important for residents to see if the municipality is achieving the goals set for the aggregation. A municipal aggregation consultant (if using) can help provide data and information to use in these updates.

## Best Practices for Tracking and Reporting on an Active Aggregation:

- Track voluntary REC retirements and update residents about progress on renewable energy goals (if applicable).
- Provide regular updates to key municipal stakeholders and elected leaders about the status of the aggregation and progress towards aggregation goals.

# 5.5 Amending an Aggregation Plan

As the municipality's goals change over time, municipal leaders may want to make modifications to the municipal aggregation. The municipal aggregation plan as approved by the DPU sets the approved parameters for the aggregation. Some changes to the aggregation require filing an amendment to the plan with DPU for approval. Consult with municipal counsel and the consultant (if using) regarding amending an approved aggregation plan.

Changes that require refiling for DPU approval include: adding a new supply product, adding or changing the amount of an operational adder, and changing how funds from the adder are used. Making amendments to an aggregation plan as narrow and specific as possible can help improve the review timeline when the revised plan is filed with the DPU.

<u>Best Practice</u>: If an amendment to the aggregation plan requires re-filing for DPU approval, make the amendments as narrow and specific as possible to improve the review process.

Municipalities may change their municipal aggregation consultant without amending the aggregation plan, but the municipality must notify the DPU in advance of the change. If the municipality wishes to operate the aggregation without a consultant or licensed electricity broker, the municipality will need to demonstrate to the DPU that it has sufficient technical expertise to operate the aggregation.

# 5.6 Terminating an Aggregation

If the municipality decides that aggregation is no longer serving customers, it can terminate the aggregation.<sup>25</sup> Reasons that municipalities have terminated aggregations include a change in price of basic service that makes the aggregation rate unfavorable, or changes in market conditions that would produce unfavorable supply rates in an ESA solicitation.

If an aggregation is terminated, the municipality must notify customers of the termination. Upon termination, all customers will be moved back to utility basic service for their electricity supply. The municipality must provide 90 days advance notice to the local electric EDC (EDC) regarding the termination of the aggregation. This is to ensure the EDC can plan for the migration of aggregation customers back onto the utility's Basic Service supply.

After terminating an aggregation, the municipality may not restart its municipal aggregation program without reinstituting the full process for implementing a municipal aggregation program. Municipalities must provide the DPU a detailed explanation for why the prior program was terminated and how the municipality has re-designed its municipal aggregation program to avoid future terminations and attempts to reinstitute a new program.

<sup>&</sup>lt;sup>25</sup> Note: the DPU has clarified that there is no suspension of an aggregation and any aggregation that is suspended is thereby terminated (see D.P.U. Order in Docket 12-124).

# **Appendices**

# A. List of Best Practices

# Section 3: Key Considerations for Municipalities Forming or Amending a Municipal Aggregation

- 3.1 Goal Setting for Municipal Aggregations
  - Establish clear goals for aggregation early on in the aggregation formation process, refine goals over time, and use the goals to guide decision-making throughout the process of forming and operating an aggregation.
- 3.2 Increasing Renewable Energy Supply with A Municipal Aggregation
  - <u>Class I RECs</u>: DOER recommends aggregations include voluntary Class I RECs in their aggregation products at a level that maintains affordability for residents. Class I RECs support new renewable energy and contribute to achieving Massachusetts climate goals.
     DOER does not recommend purchasing out-of-region RECs (e.g. National Wind RECs) since it is harder to ensure additionality, and these do not contribute to Massachusetts climate goals.
  - Municipal Aggregation Product Options: Aggregations should consider purchasing an
    affordable amount of voluntary Class I RECs in the standard (default) supply product and a
    higher amount in an "opt-up" optional green product. Aggregations should consider the
    needs and interests of their residents when deciding on the amount of Class I RECs to
    include, weighing the benefits and costs, including affordability.
  - Municipalities Should Consider Green Options Available Outside of a Municipal Aggregation:
     Purchasing additional voluntary Class I RECs through aggregation is not the only way to
     "green" a community. There are a variety of other impactful and cost-effective clean energy
     and energy efficiency programs that municipalities can pursue and participate in to reduce
     their emissions and save residents money that fall outside of the municipal aggregation,
     including weatherization programs, electric vehicle infrastructure, and other key initiatives
     supported by the DOER and other state programs. Discuss options with the municipality's
     Green Communities Regional Coordinator.

### 3.3 Funding an Energy Manager Position

Municipalities can consider using an operational adder to fund an Energy Manager staff
position for the municipality. Prior to making this decision, evaluate the cost of any
operational adder to participants of the municipal aggregation over time in comparison to
the proposed benefits. Ensure that plans for an operational adder are explained in the
municipal aggregation plan and meet the DPU's requirements before filing for DPU
approval.

### **Section 4. Forming an Aggregation**

### 4.1 Initiate

- Talk to other municipalities that have aggregated, regional planning agencies, and key
  municipal stakeholders to gain information and different perspectives on the aggregation
  process before deciding to aggregate.
- If considering working with a municipal aggregation consultant, talk with other municipalities that have used a consultant to learn from their experience.

- Meet with more than one consultant where feasible and consider issuing a competitive RFP prior to entering into a contract. DOER's list of recommended questions for prospective consultants may assist in facilitating meetings (see Appendix E).
- Understand the impact of consultant fees on participants of a municipal aggregation by estimating the fees using DOER's sample calculator (see Appendix F). Consider alternative payment structures that do not require a ratepayer fee.

#### 4.3 Review

- Even if a consultant is filing the aggregation plan on behalf of the municipality, municipal leaders should remain engaged in the review process at DPU. Municipal leaders should work with the consultant to provide timely responses to all Information Requests from the DPU to facilitate review and avoid delays.
- Begin an education campaign while the aggregation plan is under review at the DPU to inform residents about electricity supply options and warn residents about the risks of individual competitive supply contracts.
- Host "Bring Your Bill" events or use other outreach methods the municipality has found
  effective to communicate with residents.
- Use diverse outreach methods and tailor communications to at-risk populations (e.g. senior citizens or residents with low English proficiency)

#### 4.4 Launch

- Reach out to the local EDC prior to finalizing plans for the aggregation launch to coordinate
  on timing and reduce the risk for basic service customers. This is especially important for
  larger cities undergoing aggregation. Provide regular updates if required by DPU regarding
  the status of the supply procurement.
- Communicate clearly about the opt-out process to avoid confusion or frustration among residents. Provide multiple, accessible ways to opt-out.
- Ensure official communications about the aggregation include clear indications of the municipality's involvement, for instance the city/town seal or the Mayor's signature, to avoid confusion with marketing materials from competitive suppliers.
- Clarify how aggregation does or does not impact other energy programs (i.e. Mass Save or net metering).
- Ensure all communications are consistent with DPU requirements.
- Create clear points-of-contact for residents to contact municipal staff with questions about the aggregation.

### Section 5. Operating an Aggregation

### 5.4 Ongoing Reporting and Tracking

- Track voluntary REC retirements and update residents about progress on renewable energy goals (if applicable).
- Provide regular updates to key municipal stakeholders and elected leaders about the status of the aggregation and progress towards aggregation goals.

# 5.5 Amending an Aggregation Plan

• If an amendment to the aggregation plan requires re-filing for DPU approval, make the amendments as narrow and specific as possible to improve the review process.

# B. List of Aggregation Formation and Operation Steps

# 1. Initiate (see subsection 4.1)

- 1.1. Information Gathering & Initial Community Input
- 1.2. Identify Goals
- 1.3. Municipal Vote
- 1.4. Evaluate Consultant Options

## 2. Plan (see subsection 4.2)

- 2.1. Develop an Aggregation Plan
- 2.2. Consultation with DOER
- 2.3. Citizen Review of Plan

## 3. Review (see subsection 4.3)

- 3.1. Submit Plan to DPU for Review
- 3.2. Community Outreach and Education About Electricity Supply Prior to DPU Approval

## 4. Launch (see subsection 4.4)

- 4.1. ESA Solicitation and Supply Procurement
- 4.2. Coordination with EDCs and Quarterly Updates to DPU
- 4.3. Opt-out Period
- 4.4. Information Campaign About Opt-Out and Enrollment

## 5. Operating an Aggregation (see section 5)

- 5.1. Customer Service
- 5.2. ESA Expiry and Renewal
- 5.3. Ongoing Education and Outreach
- 5.4. Ongoing Reporting and Tracking
- 5.5. Amending an Aggregation Plan
- 5.6. Terminating an Aggregation

# C. Glossary

- **Aggregator**: An entity that groups together electric customers for providing retail electricity supply service.
- Basic Service: The default electricity supply product provided by the investor-owned electric utilities in Massachusetts. Residential electric customers not participating in a municipal aggregation or an individual competitive electric supply contract will receive basic service. Rates are regulated by the Department of Public Utilities and typically change every six months.
- **Broker (Electricity Broker):** An individual or entity that brings buyers and sellers together to facilitate an electricity commodity supply arrangement.
- Community Choice Aggregation (CCA): Another term for municipal aggregation.
- **Consultant**: In this guide, "Consultant" refers to a municipal aggregation consultant that serves as an electricity broker for a municipality and helps to develop, launch, and operate a municipal aggregation.
- **Distribution System**: The portion of an electric system designed and used to deliver electric energy to an end user.
- **Electric EDC (EDC)**: An electric utility that operates the distribution system and provides distribution service to end-users. In Massachusetts, the three investor-owned EDCs are Eversource, National Grid, and Unitil.
- **Electric Service Agreement (ESA)**: A contract with an electricity supplier to provide generation service at an agreed-upon rate and duration.
- **Energy Burden**: The share of household income spent on energy.
- **ISO New England**: The independent electrical grid operator that manages the regional wholesale electricity market and operates the transmission system in New England.
- **Kilowatt-hour (kWh):** A unit for measuring electric power or the rate at which energy is produced or consumed.
- **Load**: The amount of electric power required at any specific point or points on a system. The requirement originates at the energy consuming equipment of the consumers. Load should not be confused with demand, which is the measure of power that a load receives or requires.
- **Load zone**: A geographic area that includes aggregations of wholesale prices for the purchase of market settlement.
- **Municipal Aggregation**: An arrangement where a municipal government contracts for electricity supply service on behalf of interested residents and businesses.
- Municipal Light Plan (MLP): The term used in Massachusetts for municipal electric utilities.
   MLPs own and operate the electricity infrastructure in their jurisdiction and contract for generating service on behalf of their customers.
- Opt-out: The option of not participating in an aggregation with automatic enrollment. In Massachusetts, customers may choose not to participate, without penalty, before either enrollment or 180 after enrollment.
- Rate: The price per unit of electricity (often expressed in cents per kilowatt-hour, or c/kWh).
- Renewable Energy Certificate (REC): A renewable energy certificate (REC) represents the environmental attribute associated with renewable energy production. One REC is created each time a qualified renewable energy facility generates one megawatt hour (MWh) of electricity.

- **Retail Choice**: A competitive market structure where retail electricity customers can choose to receive electricity supply services from competitive entities, instead of only the incumbent utility.
- Supplier (Competitive Supplier): A provider of electricity supply service to retail customers.
- Time-of-Use (TOU) Rates / Time-Varying Rates (TVR): A rate structure where electricity prices vary based on the time of consumption.
- Transmission: The movement or transfer of electric energy over an interconnected group of lines and associated equipment between points of supply and points of delivery over distribution facilities; typically conducted at 69,000 volts and greater.
- **Utility**: A regulated entity that exhibits the characteristics of a natural monopoly.

# D. Renewable Energy Policies and RECs

## **State Policy Requirements for Renewable Energy**

Massachusetts, like many other states, has a Renewable Energy Portfolio Standard (RPS) policy that requires retail electricity suppliers to procure an increasing amount of power from renewable resources in each year. <sup>26</sup> The Massachusetts RPS is split into different "classes" with different obligation levels for specific categories of eligible renewable energy sources (Table D1). In addition to the RPS, Massachusetts also has a Clean Energy Standard, an Alternative Portfolio Standard, a Clean Peak Energy Standard, and other policies that set obligations for electricity providers.

	New resources categories				Existing resource categories		
Year	CES*	RPS-I	APS	CPS	RPS-II RE	RPS-II W2E	CES-E
2021	22%	18%	5.3%	3.0%	3.5634%	3.70%	20.0%
2022	24%	20%	5.5%	4.5%	3.6000%	3.70%	20.0%
2023	26%	22%	5.8%	6.0%	3.4721%	3.70%	21.0%
2024	28%	24%	6.0%	7.5%	TBD	3.70%	TBD
2025	30%	27%	6.3%	9.0%	TBD	3.70%	TBD
2026	32%	30%	6.5%	10.5%	TBD	3.5%	TBD
2027	34%	33%	6.8%	12.0%	TBD	3.5%	TBD
2028	36%	36%	7.0%	13.5%	TBD	3.5%	TBD
2029	38%	39%	7.3%	15.0%	TBD	3.5%	TBD
2030	40%	40%	7.5%	16.5%	TBD	3.5%	TBD

\*RPS Class I contributes to meeting the CES standard

Acronyms					
RPS-I	Renewable Energy Portfolio Standard for Qualified Class I Resources				
CES	Clean Energy Standard				
APS	Alternative Portfolio Standard				
CPES	Clean Peak Energy Standard				
RPS-II RE	Renewable Energy Portfolio Standard for Qualified Class II Renewable Energy Resources				
RPS-II W2E	Renewable Energy Portfolio Standard for Qualified Class II Waste Energy Generation Units				
CES-E	Clean Energy Standard for Qualified Existing Resources				

Table D1. Portfolio Standard Obligations in Massachusetts

More information about the RPS, APS, and CPS is available at <u>DOER's webpage</u>. The Massachusetts Department of Environmental Protection (DEP) administers the CES and CES-E programs; more information is available from the <u>DEP webpage</u>.

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<sup>&</sup>lt;sup>26</sup> https://www.mass.gov/service-details/program-summaries

All retail electricity suppliers in Massachusetts, including those serving municipal aggregations, must comply with the RPS and other portfolio standard policies. That means that whether Massachusetts residents are getting their electricity from their utility's basic service, from a municipal aggregation, or from an individual competitive supply contract, their electricity supplier contains these required amounts of renewable energy. Residents served by a Municipal Light Plant (MLP), however, are not subject to the same regulations.

In order for retail electricity suppliers in Massachusetts to meet their annual compliance obligations established by the RPS, they must purchase a number of RECs equal to the percentage for that particular compliance year. Resources are only eligible for compliance with the Massachusetts RPS if they are geographically located in New England, or in an adjacent region (such as New York or Québec), and export their electricity into ISO New England (the wholesale electricity market that serves the six New England states). DOER qualifies renewable energy facilities that produce Massachusetts-eligible RECs.

### **Massachusetts Class I RECs**

A Massachusetts "Class I" REC is a specific type of REC that meets the standards in the Massachusetts Class I RPS policy. They can only be produced by a qualified renewable energy facility that is either located in Massachusetts or in an adjacent area and only from new renewable energy facilities that began commercial operation after 1997 and generate electricity using one of the following technologies:

- Solar photovoltaic
- Solar thermal electric
- Wind energy
- Small hydropower
- Landfill methane and anaerobic digester gas
- Marine or hydrokinetic energy
- Geothermal energy
- Eligible biomass fuel

#### **REC Prices**

RECs are a market product and the price of RECs varies over time. While REC values are generally determined by market supply and demand in a given year, state policies also play a role in determining REC prices. In Massachusetts, DOER plays a role in establishing a parameter on market prices for Massachusetts-qualified RECs by setting an Alternative Compliance Payment (ACP) Rate. Suppliers may pay the ACP in lieu of purchasing a qualified REC. The ACP Rate therefore incentivizes retail electricity suppliers to purchase RECs from qualified facilities at an amount lower than the ACP Rate in order to meet their compliance obligations. Revenue collected from ACPs is used by DOER to support new renewable energy, energy efficiency, and other clean energy projects throughout the Commonwealth.

Massachusetts Class I REC prices fluctuate over time and in 2019 was estimated between \$10 to \$44 per REC, based on DOER analysis.<sup>27</sup> The price is effectively capped by the ACP rate, because it is economically rational for suppliers to pay ACP anytime the REC price exceeds the ACP rate. The ACP rate was set at \$50 per MWh in 2022. Because of the specific eligibility requirements and the strict tracking

<sup>&</sup>lt;sup>27</sup> https://www.mass.gov/doc/rps-aps-annual-compliance-2019-report/download (Table 14)

and accounting system, the price of Massachusetts-qualified RECs is typically higher than RECs from outside the region.

# E. Illustrative Questions to Ask Prospective Consultants

The following is a list of illustrative questions that municipal leaders may consider asking prospective consultants.

## **Electric Supply Rates**

- 1. What will likely determine the electric supply rates we will receive as a municipal aggregation?
- 2. What characteristics of our municipality will be important in determining the electric supply rates we receive?
- 3. How do you help municipal aggregations to secure competitive electric supply rates for municipal aggregations?
- 4. How can we ensure affordable rates for low-income and environmental justice residents in an aggregation and reduce the energy burden for residents?

# **Supply Product Options**

- 5. How can we best pursue clean energy and climate goals through aggregation, and what is the likelihood that DPU will approve the options that we have discussed?
- 6. What types of RECs do you recommend to municipal aggregations interested in increasing the share of renewable energy, and why? How can we ensure the additionality of the RECs we are purchasing?
- 7. How do you work to secure competitive rates for RECs?

## **Outreach and Communications**

- 8. How do you tailor your outreach and communications based on the specifics of the local community you're working with?
- 9. How do you work to promote participation in "opt-up" green products for communities you work with?
- 10. What common challenges do you encounter with communications and outreach on aggregations, and how do you address them?

### **Administrative**

- 11. How much effort will aggregation require for town administrators? How much staff should we plan to allocate for aggregation during the development, launch, and operations periods?
- 12. What has been the timeline from initiation to launch for recent municipal aggregations that you've worked with?
- 13. What do you do to ensure municipal aggregation plans comply with all DPU requirements and what steps do you take to help improve the DPU's review timeline of a plan?

## **Payment & Contracting**

- 14. How do you structure payment for municipal aggregation services?
- 15. If using an administrative fee on aggregation sales to fund consulting services, could you explain your fee? Does it change over time?
- 16. How long typically does a contract for consultant services last? What services and contract length would you recommend for a municipality like mine?
- 17. What elements of ongoing operations and customer service will the municipality be responsible for after launch?

### Referrals

18. Can you put us in touch with other municipal aggregations that you've worked with?

# F. Calculating Consultant Fees

An average consultant fee is \$0.001 per kilowatt-hour (kWh) on all electricity billed to aggregation customers. Municipal leaders can make "back-of-the-envelope" calculations to understand how this fee would add up for aggregation customers over time:

- Step 1. Determine the number of households in the municipality, or use the number of electric customers (if known). If the number of households is unknown, divide the population by 2.5, which is an average household size.
- Step 2. Determine average electricity consumption. Average electricity consumption for residential households in Massachusetts is about 600 kWh per month. If the actual consumption in the municipality is known, use that figure.
- Step 3. Calculate an estimate of the total consultant fee that would be paid by residential customers over the course of a year, for example:

$$600 \frac{kWh}{mo} * \frac{\$0.001}{kWh} * 5,000 households * 12 months = \$36,000 per year$$

# G. Additional Resources

- For general questions on this guide or about municipal aggregation, please contact your DOER
   Green Communities Regional Coordinator. Contact information available here:
   <a href="https://www.mass.gov/service-details/contact-gc-coordinator">https://www.mass.gov/service-details/contact-gc-coordinator</a>
- The Massachusetts Department of Public Utilities (DPU) has information about the municipal aggregation process and current aggregations in Massachusetts available on their webpage: https://www.mass.gov/info-details/municipal-aggregation
  - To view recent DPU dockets for review of municipal aggregation plans, visit the DPU File Room and select "Municipal Aggregation Plan" under "Case Type": <a href="https://eeaonline.eea.state.ma.us/DPU/Fileroom/dockets/bycasetype">https://eeaonline.eea.state.ma.us/DPU/Fileroom/dockets/bycasetype</a>
- DOER provides data on the number of customers on Basic Service, Competitive Supply, and Municipal Aggregation in the monthly Customer Choice dataset, available at: <a href="https://www.mass.gov/service-details/electric-customer-choice-data">https://www.mass.gov/service-details/electric-customer-choice-data</a>
- Regional Planning Agencies (RPAs) serving Massachusetts may be able to provide additional resources regarding municipal aggregation. List of RPAs available here: <a href="https://www.apa-ma.org/resources/massachusetts-regional-planning-agencies/">https://www.apa-ma.org/resources/massachusetts-regional-planning-agencies/</a>
- The National Renewable Energy Laboratory (NREL) issued a report in 2019 on Community Choice Aggregation trends in the United States, available at: <a href="https://www.nrel.gov/docs/fy19osti/72195.pdf">https://www.nrel.gov/docs/fy19osti/72195.pdf</a>