

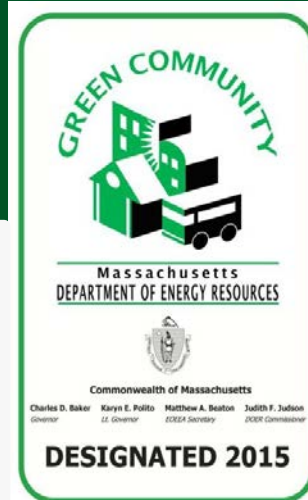
Welcome and Thank You for Your Support

AGENDA

- Presentation
 - What is the **Green Communities Designation & Grant Program?**
 - What are the **benefits?**
 - Where are we in the **Designation process?**
- Audience response, questions, suggestions
- Action items

Green Communities Designation & Grant Program

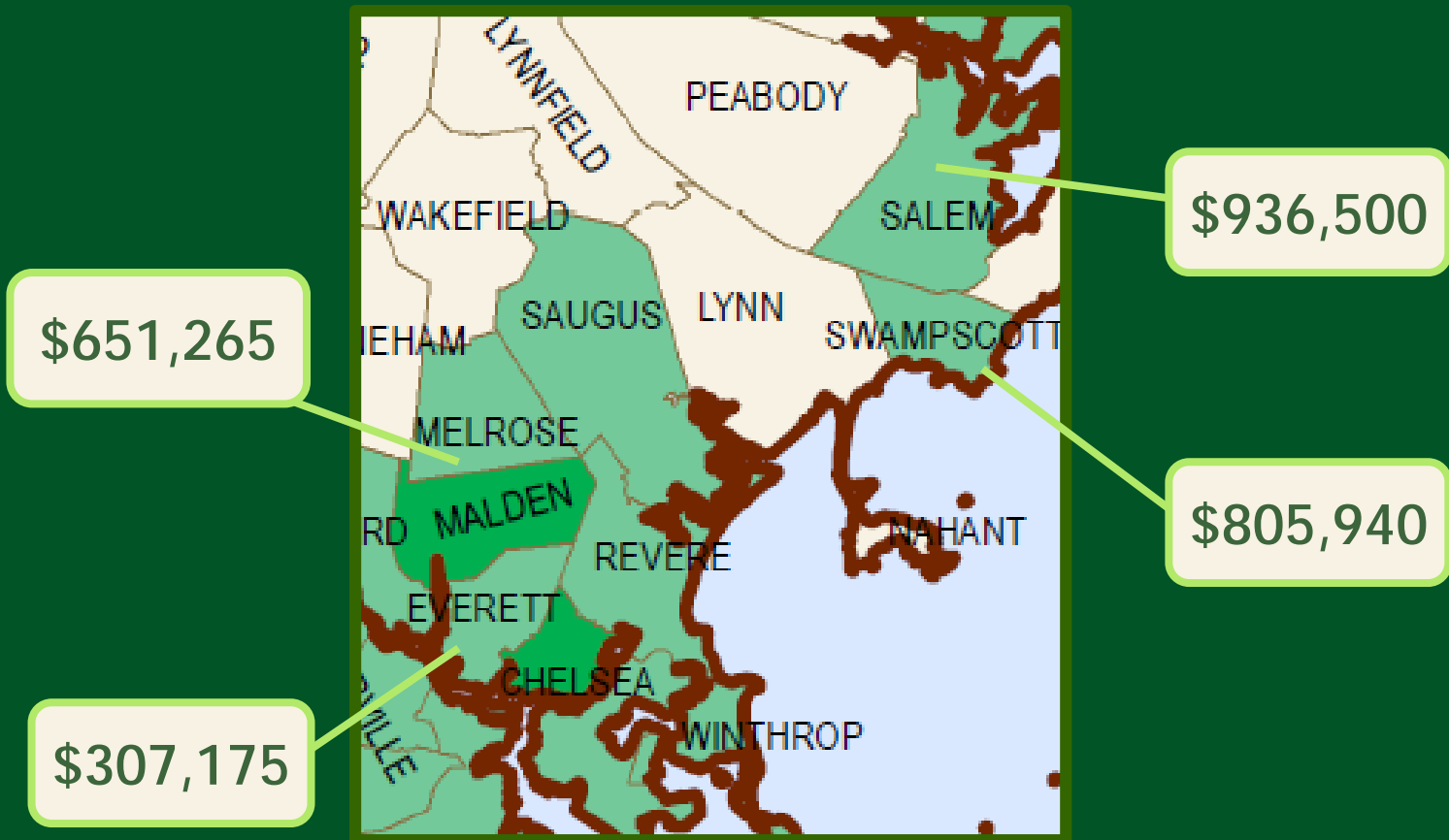
The Massachusetts Department of Energy Resources (DOER) provides up to **\$20M/year** in **grants** and **loans** to **qualifying** MA communities to **fund projects** that **reduce municipal energy usage** and **SAVE TOWNS MONEY!**



Creating a Clean, Affordable and Resilient Energy Future for the Commonwealth



More than ½ of municipalities in MA are Green Communities including our neighbors...



Green Communities Designation & Grant Program

\$129,000

NAHANT ESTIMATED INITIAL DESIGNATION GRANT

Competitive grants available **annually**, up to **\$250,000** per applicant for Green Communities that have expended all prior grant funds

DESIGNATION GRANT = \$125K + POPULATION & PER CAPITA INCOME FORMULA



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Benefits of Being Designated a Green Community

- **SAVE MONEY**

- Access to **grants** for clean, affordable and resilient energy projects
- Reduce municipal energy usage, resulting in **lower operating costs**

- **BUILD A BETTER COMMUNITY**

- Promote **energy-efficient, cost-effective** building construction
- Become a **clean energy** leader and a **better place** to live, work, and play

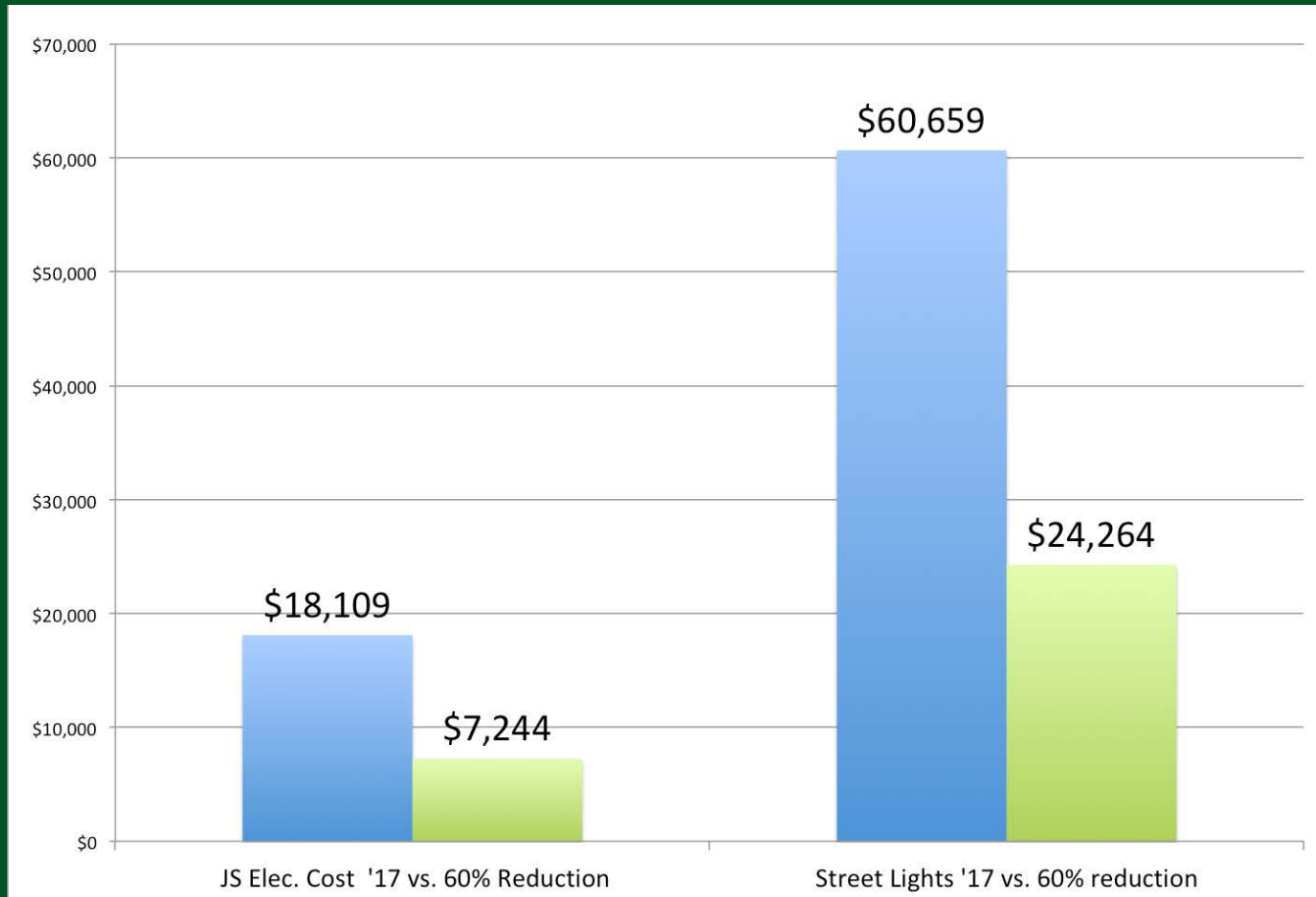
- **PROTECT PLANET**

- Reduce carbon footprint by using less energy and **lowering greenhouse gas emissions**
- Foster renewable energy and clean energy technologies

Targeted Municipal Energy-Efficiency Projects

- Convert Johnson School lights to **LED** and add **controls**
- Convert current town **street lights** to **LED**
- Evaluate existing **municipal heating** systems for potential conversion to natural gas

Projected Cost Savings for LED Lighting Conversion



How Do We Become a Green Community?

- The **Nahant Green Communities Committee** was established in September, 2017 to prepare Nahant to **apply for designation** by October, 2018 deadline
- Application process requires municipalities to meet **FIVE criteria** established by the DOER

5 Criteria for Becoming a Green Community

1. Zoning of renewable/alternative energy generating, R&D, or manufacturing facilities
2. Adopt expedited permitting process of above

Nahant will request that these 2 criteria be waived due to size of town

3. Create an **Energy Reduction Plan** to reduce **municipal** energy use by **20%** in **5** years
4. Adopt a **fuel-efficient** municipal vehicle policy
5. Minimize life cycle cost in new construction by adopting the **Stretch Energy Code**

Establish Energy Baseline & 20% Energy Reduction Plan

- Calculate **municipal energy use baseline** that includes:
 - Municipal buildings and schools
 - All vehicles
 - Municipally owned street and traffic lights
- Develop an energy reduction plan to reduce energy use by **20% in 5 years**



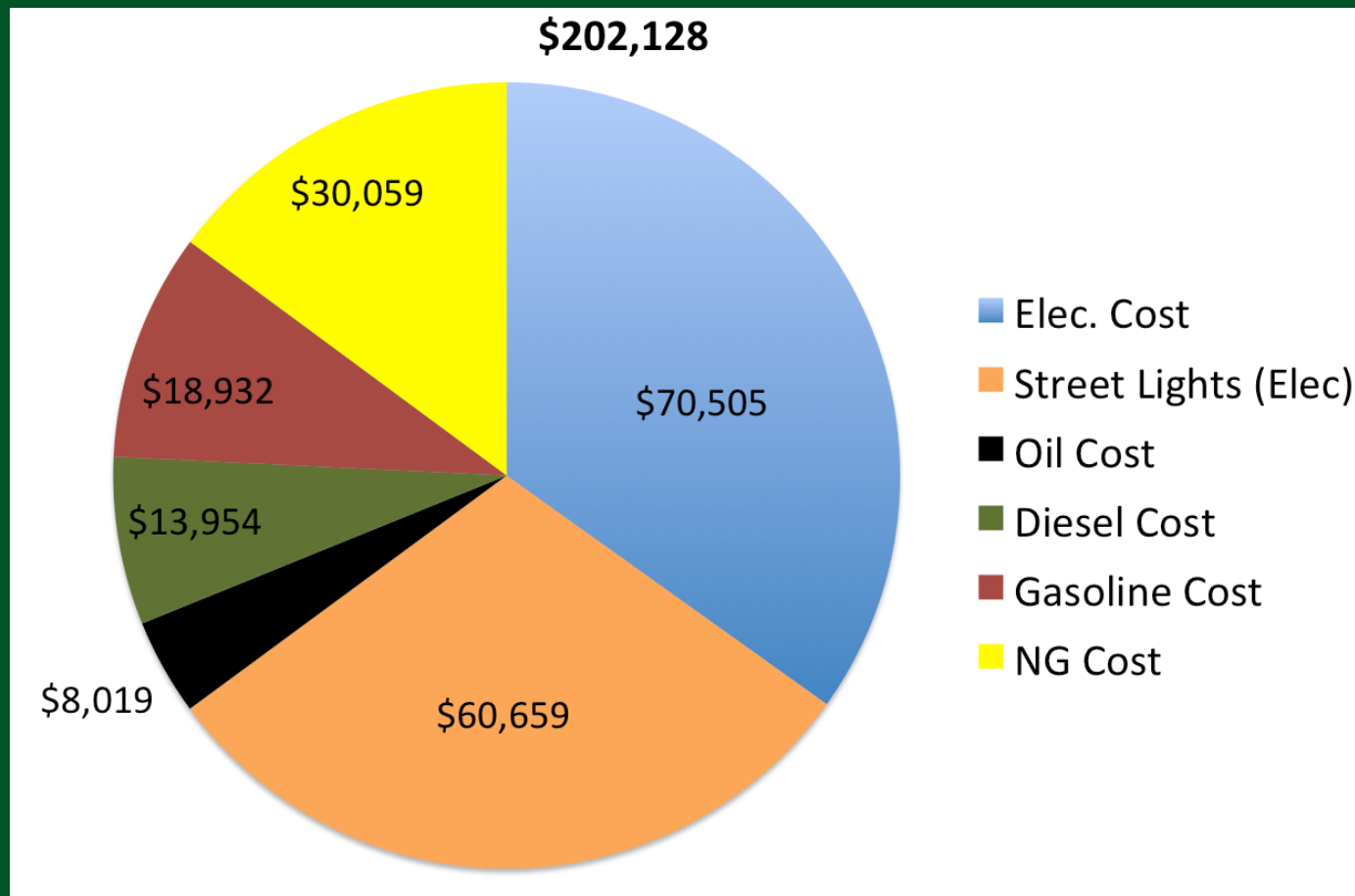
Nahant's Current Status in Designation Application Process

- ✓ Energy use baseline year established (2017)
- ✓ Inventory and actual usage trends captured
- ✓ Developing a **plan*** to reduce municipal energy usage by **20%** over **5** years

* THE AWARDED GRANTS WILL BE USED TO IMPLEMENT THE ENERGY EFFICIENCY MEASURES PROPOSED IN PLAN

Town of Nahant

2017 Energy Usage Cost



Adopt a Policy for Purchasing Fuel-Efficient Vehicles

- **ADOPT A POLICY** to purchase **fuel-efficient** vehicles for **municipal use** whenever such vehicles are commercially available and practical
 - Police cruisers are exempt until commercially available
 - Heavy duty vehicles such as fire trucks, ambulances and some DPW trucks are exempt

Nahant's Current Status in Designation Application Process

- ✓ Working with relevant department heads
- ✓ Completed **inventory** of all municipal vehicles
- ✓ Drafted a **fuel-efficiency policy** for selectmen review

Nahant Must Adopt a Stretch Energy Code

- The purpose of the stretch energy code is to provide a more **energy efficient** code alternative for **new** buildings
- The stretch energy code **does not apply** to **additions** or **renovations**

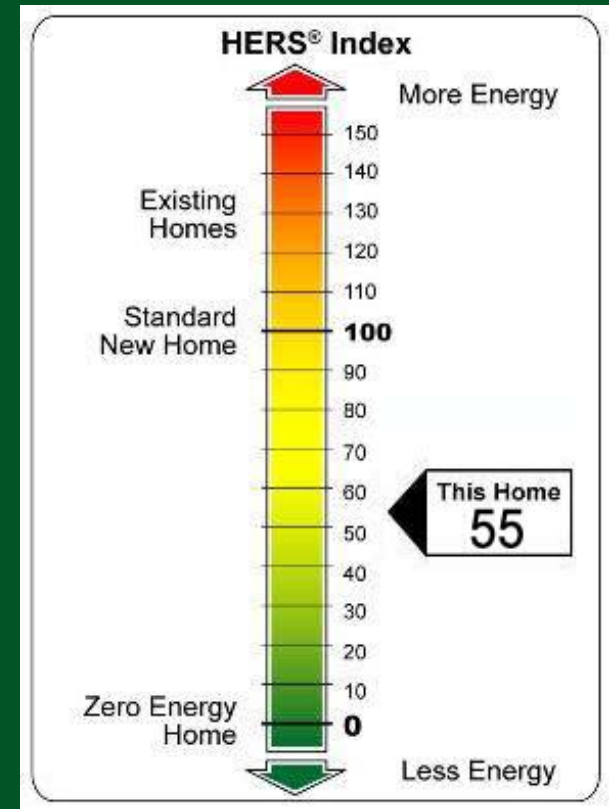
Nahant Must Adopt the Stretch Energy Code

- The **Stretch Energy Code** requires **NEW construction*** to meet a Home Energy Rating System (**HERS**) rating target in order to **minimize life cycle costs for owner**
 - The target rating, which measures a home's total expected energy use and overall efficiency, is calculated by a certified HERS professional "rater."

*** NOT APPLICABLE TO ADDITIONS, RENOVATIONS OR REPAIRS**

What is a HERS Rating?

- Annualized energy analysis
 - Heating, cooling, water heating
 - Lighting and appliances
 - On site power generation-renewable energy
- HERS 55 means about **45% more efficient than a 2006 model home**

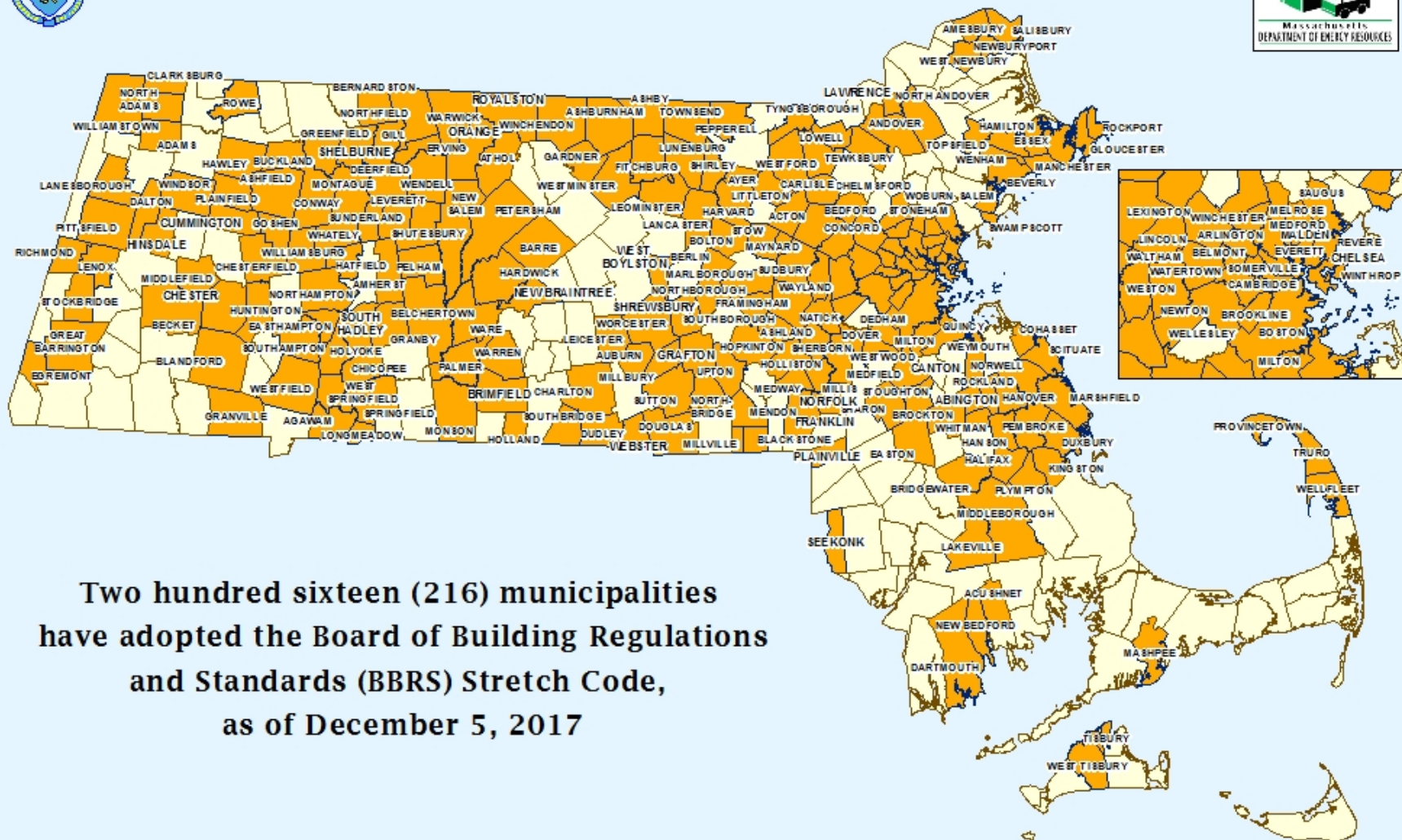


What Does a HERS Rating Mean for New Construction?

- Results in **annual energy savings**
- Higher **energy efficiency**
- The cost of the HERS rater (\$700–\$1,300 fee) can typically be recouped by the builder through the MassSave Program



Stretch Code Adoption, by Community



DOER, 12-21-17, jptster



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Nahant's Current Status in Designation Application Process

At the upcoming town meeting on **April 28**,
Article 29 (BY-LAW AMENDMENT-STRETCH ENERGY CODE)
will be on the **Warrant** for a vote by the town to
adopt a stretch energy code as a general bylaw

YOU are urged to **ATTEND** this **TOWN MEETING** and

VOTE YES to Adopt the
Stretch Energy Code!

Action Items

April 28, 2018: Vote **YES** on **Article 29** to adopt the **Stretch Energy Code**

October 2018: Submit completed application to become designated as a **Green Community**

December 2018: Designation notification

Early 2019: Begin projects