

## Eco City Homes Awards Pilot

To meet Alexandria's requirement to reduce pollution by 50% by 2030 to address the Climate Emergency Declared by Council in 2019, we must convert over 50 % of the current housing units from gas to electric for unit heating, hot water, drying clothes and cooking. In addition, we must retrofit them to increase their energy efficiency (use less energy to perform those same tasks via attic insulation energy efficient windows and doors and/or use of Energy Star appliances) as well as create energy locally and enhance resilience during power outages with solar panels and/or backup batteries.

### General Eligibility Criteria –

- For this Pilot only existing single family home or townhome properties in the City of Alexandria are eligible
- Properties that have won previously are not eligible for five years from their award date.
- Properties with substantial EPC /Commissioner involvement are not eligible.
- Individuals may win multiple times within five years for different properties.
- Properties judged on specifics outlined for each category (as applicable).
- EPC members make the final decisions on all award recipients.
- For each nomination, on the online form, please provide a short description of the property and explain, noting the award criteria, why the property is being nominated for the award.
- Suggestion - We could use IRA criteria to determine efficiency level

**Geographic distribution** – # separate awards for 3 separate areas – East, West and Central Divided along School district lines

**Categories of Awards** – Renewable Energy, Energy Efficiency, Transportation, Water Efficiency, Waste Efficiency

**100-point system** based upon each category's effect on reducing pollution based upon ECCAPs overall impact on reducing pollution

**Renewable Energy** – 25 points

Solar Panels that offset at least 75 % of the electrical energy usage for the housing unit

Backup battery – non-fossil fueled battery at least 5Kv or larger

Participant in Dominion's renewable energy program

**Buildings Energy Efficiency** – 40 points

Housing unit is all electric having no fossil fuel for HVAC, water heating, clothes drying, & cooking ( we need efficiency standard here to prevent very old electric with terrible efficiency)

Energy audit performed within the last 2 years along with implementing its recommendations

Ground source heat pump for heating and cooling over 75% of the housing unit

Air source heat pump for heating and cooling over 75% of the housing unit

Super- efficient electric hot water heater – points based upon efficiency

Electric Induction stove or cooktop

Electric dryer – points based upon efficiency

Well Insulated and sealed attic – points based upon R-value or depth of insulation or blower door test from energy audit that shows exchange rate of 5 times / hour or less (need to have exact specifics here)

Owns 3 or more Energy Star large appliances such as dishwasher, refrigerator/freezer, TV, etc.

High performance windows or storm windows and doors on 75% or more of housing unit (need specific ratings here)

LED lighting covering 95% or more of all lights used in or on the housing unit

Energy Star Portfolio Manager Level of X or better (need to define)

Energy Star Smart thermostat

**Transportation – 25 points**

Owns EV, is electric ready with EV charger and does not own gas auto, or does not own auto but walks, uses public transit, bike and/or scooter for transportation (no points for using Lift or Uber)

**Water Efficiency – 5 points**

Low flow fixtures – shower/tub, faucets, toilets (2.5 gallons or better)

Participate or eligible to participate in City's stormwater reduction program achieving at least 25% reduction of fee or greater

**Waste Efficiency – 5 points**

Composts at curbside, farmers market, or onsite

Recycles household waste

Brings glass to purple bin