

SUSTAINABILITY & RESILIENCE

WHAT ARE THE BENEFITS OF INCORPORATING SUSTAINABLE DESIGN FEATURES?

- ◆ **Reduced construction costs***
 - *With rebates (e.g. MSBA Bonuses, MassSave/Eversource incentives, federal incentives)
- ◆ **Reduced operating costs**
 - Solar arrays, geothermal, and battery storage would dramatically lower utility costs
- ◆ **Safe, healthier, and cleaner environment for students and staff**
 - Fewer pollutants, toxins, viruses, and allergens
 - Fewer sick days & higher productivity rates
- ◆ **Increased resilience**
 - Cleaner, quieter, and more reliable backup power source
 - Heating, cooling, and technology remains operational during outage
- ◆ **Zero operational greenhouse gas emissions**
 - Eliminates the carbon footprint of what is currently the Town's most energy intensive building

WHAT LAWS & POLICIES ARE GUIDING THE PROJECT'S SUSTAINABILITY FEATURES?

- ◆ **State Building Energy Codes**
 - Requires a high standard of energy efficiency
 - Requires all-electric buildings OR solar to offset fossil fuel use
- ◆ **Lexington's Fossil Fuel Free Bylaw**
 - Requires all-electric buildings
- ◆ **Lexington's Integrated Building Design & Construction Policy**
 - Guides municipal construction to require:
 - Life cycle cost analysis
 - Maximize onsite solar
 - Battery energy storage
 - Higher ventilation and air filtration standards
 - Avoiding 'Red List' toxic materials

WHAT DO THESE SUSTAINABILITY FEATURES LOOK LIKE?



Battery Storage



Ground/Air source heat pumps



Solar arrays



**Electric Vehicle
Chargers**



**High-efficiency
ventilation systems**