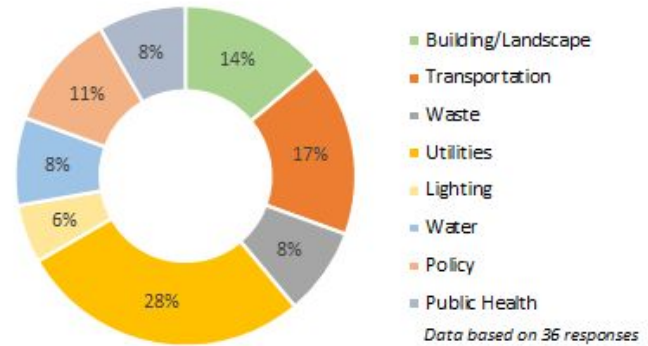**NESEA Future-City Note Card Responses**
March 9, 2018

Themes:
- Expand regional planning efforts and establish net zero plans
- Decrease energy usage and encourage district energy
- Electrify buildings and expand renewable energy usage
- Expand greenscapes
- Include health costs and impacts of fossil fuel use in policy decisions
- Increase staff capacity to focus on sustainability
- Create green jobs in low-income communities of color
- Incentivize recycling
- Track and communicate community projects
- Engage multiple stakeholders, join local advocacy groups
- Increase community education
- Expand access to affordable food
- Expand smart transit and internet of things

Future-City Measure Proposal Breakdown

14% Building/Landscape
17% Transportation
8% Waste
28% Utilities
6% Lighting
8% Water
11% Policy
8% Public Health

Data based on 36 responses

Future-City Measure	Future-City Action
Electrify → heat pumps and solar, move away from gas heating.	1. Provide information about/products to replace traditional heating with heat pumps. 2. Partner with a solar company to drive project cost down/maximize subsidies. 3. Educate the community on how to make more energy efficient buildings so that renewables can provide enough power for the entire electric load.
Microtransit.	1. Communications campaign to explain concept. 2. Pilot in Park Meadows. 3. Track and communicate successes → focus on stories of community connections and stories.

Smart metering (electrical).	1. Lobby at town level. 2. Lobby at state level. 3. Organize to encourage (pressure) Eversource (utility).
Mindset issue: think holistically and across town borders. Physical issue: Improve transportation carbon footprint.	1. Convince and fund MVC and town selectman to go to conferences like this to unify goals. 2. Lobby for designated green person for each town. 3. Contact transportation authority and get involved.
Raise cash for electric school bus painted on side (loud and proud) the town names, equipment, cause, and result. Start with the kids, this is a long game.	1. Meet with energy committee in each town of school district. 2. Town hearing for raising funds/approve any town funding. 3. Buy, paint, drive, charge, talk.
Dorchester, MA: Undertake a long term plan for the development of undeveloped spaces.	1. Community Meeting to define goals and decisions. 2. Engage the vested and potential private sector players. 3. Walk with the municipal players to help to drive the development criteria.
Encourage recycling.	1. Reward people for recycling -- more than the 5 cent machines or charge more per bottle. 2. Make recycling visually rewarding. People seem to like the 'can smashing' machines at the grocery store. There is a glass crushing machine in New Zealand that crushes bottles into construction grade sand. If people don't care about recycling from a moral standpoint, maybe they can be engaged if its entertaining or stimulating. 3. Incentivize people to buy/sell/manufacture products made from recycled goods. The past week there was an article from BBC about turning old bubblegum into plastic and rubber products.
Build dedicated electric bus lines operating at the city and regional level, creating a more cost-effective and flexible public	Bring together government and community leaders.

transportation system compared to a light rail system.	
More multi family homes in new construction.	Promote cultural change? Hmm...
Small town Madison, CT: Implement some sort of downtown sewerage system.	1. Vote out current 1st Selectman. 2. Vote in a progressive 1st Selectman. 3. Have a town planner-- currently none.
Improve air quality.	City - Raise the issue at highest level (mayor) 1. Political action in Ohio. 2. With US steel. 3. Work with the foundations to implement. Me 1. Join local clean air advocacy groups. 2. Develop talking points for government leader discussions. 3. Develop 'selling sustainability'.
District energy through ground-source or air-source heat pumps.	1. Enable lease program (rate-based) for heat pumps. 2. Organize groups. 3. Get word out.
Address water intrusion into Boston.	1. Gather data/model data about water intrusion. 2. Research methods of mitigating water intrusion. 3. Propose/present options for how to address water intrusion.
Rhode Island, the smallest state becomes the first holistically smart, healthy, sustainable state.	1. Help plan a holistic, smart, sustainable conference (hosted by gov, nonprofit, for-profit partners in Rhode Island) with a distinct follow-up plan in place. 2. Recruit. 3. Stand-up comedy
Include the health costs and health impacts of fossil fuel use in policy decisions, development, infrastructure, etc. The reverse: include the health benefits and costs of integrated economics/eco/social decarbonization.	1. Get a handle on the economics eg. health impacts per fossil kWh, therm, etc. 2. Draft language proposing this. 3. Meet with policy makers and activate to decisions, build support.

'Community' = major cities and or state of MA.	
80% Energy production using renewables by 2030 (achievable goal at a community level).	1. Installation of solar (mandatory). 2. EV's.
Building community farms specifically in lower income areas to provide affordable nutrition.	1. Talk to hospital and other community health leaders for funding possibilities. 2. Poll areas to see if people are interested.
City measure for my community (East Boston): Smart (or smarter) waste collection/management: 1. Trash cans that 'report' when full. 2. Photographic surveys of litter to see what areas need more collection. 3. Community engagement: education about recycling, survey about practices.	1. Discuss with City's Zero Waste Action Committee. 2. Engage with my neighborhood association. 3. Write to mayor's office.
Stormwater management at UMass Amherst: 1. Green roofs. 2. Wetland gardens. 3. Use different road material (not asphalt/concrete, porous material) to prevent always having to repair it. Water drains through the road, into a sewer/drainage system that collects it in a central area--can reuse water?	
Solar.	1. Start the conversation. 2. Collect data and supporting info. 3. Set example by implementing the idea/practice.
"Smart" multimodal public transit integrating electric bus, bike-share, small shuttles and demand-responsive parking fees to reduce automobile use in town.	1. Expand bike share. 2. Experiment with parking pricing and radio frequency network. 3. Map current bus demand to understand optimization.
Establish a net zero plan as part of the town-wide master plan.	1. Street light LED retrofit. 2. Electric car accommodation. 3. Better coordination of town agencies.
Pittsburgh: Improve air quality.	

1. Work with existing buildings. 2. Ready for electrification. 3. Mostly shell issue.	1. Advocate. 2. Professional consulting (my business). 3. Increase renewables to run the electrification.
Reduce energy consumption by 50%.	1. Encourage Mass Save energy audits. 2. Encourage renewable energy. 3. Encourage non-car transportation. 4. City-wide analyses of energy use -- house by house.
Networked LED city street lights.	1. Join town energy committee. 2. Find other nearby towns that have networked streetlights. 3. Have energy committee develop plan to implement networking of city streetlights.
Integrate district energy at 'campus' to support local neighborhood.	1. Identify areas. 2. Research laws. 3. Engage with 'campus' property owner.
Town of Marblehead: Advocate for the town to create a climate action/sustainability plan.	1. Recommend to Town Board of Selectmen. 2. Put recommendation on the town meeting warrant. 3. Research/secure funding.
District energy in dense area around Kendall Square (renewable heat + storage + CHP + controls).	1. Volunteer for Cambridge Sustainability Advisory Committee (I am a Cambridge resident). 2. Coordinate activities for Northeast CHP Technical Assistance Partnership (they provide free technical assistance to businesses). 3. Connect with Ramboll and others to offer 3rd party measurement and verification for district energy concepts.
Transportation - solar canopy on top of Portsmouth parking garage to support net zero goals (which include EVs).	1. Learn more about radio-frequency hardware, how it can improve operations and maintenance, take that to sustainability committee. 2. Study Copenhagen's holistic approach to identify additional avenues for sustainability not covered in resiliency report or net zero policy. 3. Identify solutions for snow shed.
Intentional neighborhoods with co-op solar.	1. Talk to landlord about solar incentives. 2. Pursue job with town government? 3. Join local community organizing.

Lighting as a connectivity platform!	
Create green infrastructure related jobs in low-income communities of color.	1. Reach out to city agencies and partners to determine interests and steps needed to make this happen. 2. Get folks certified in green infrastructure. 3. Line up long-term work with city through private sector.
Putting in pollinator friendly (and beautiful) landscaping and solar farms.	1. Introduce it to local advocacy groups residents forward. 2. Plan an event describing the process of local library - bring in experts? 3. Introduce it to local neighborhood associations for traffic islands.
Milton: How could our town support a regional wake-up call to taking action on sea level rise preparedness?	1. Ongoing tracking of carbon footprint and shift to renewables. 2. Outreach to negatory communities to plan for sea level rise surges. 3. Support regional groups like MAPC to get more involved.
	1. Encourage regulation/trees at municipal parking areas -- less run-off reduce heat island effects. 2. Encourage microgrid resiliency among key community infrastructure. 3. Labor community to reduce local CO_2.