THANK YOU FOR JOINING THE MEETING WILL BEGIN AT 1:30 PM

Clean Energy

Multi-Chapter Action Review

Resiliency Coalition Members & Partners

March 19, 2021
Clean Energy

Multi-Chapter Action Review

Resiliency Coalition Members & Partners

March 19, 2021
1. Consider Local Actions and Priorities
2. Briefly Discuss All Chapter Goals and this context
3. Breakout Groups Review and Edit Draft Goals/Objectives/Actions
TODAY’S SCHEDULE

1. WELCOME AND INTRODUCTIONS 1:30 PM – 1:35 PM

2. LOCAL GOVERNMENT UPDATES ACTIONS/PLANS 1:35-1:50 PM
   Brief updates from PSRN, Counties, Cities, Clear Sky, others

3. OVERVIEW OF ALL GOALS: 1:50 PM – 2:00 PM

4. REVIEW GOALS and OBJECTIVES for CHAPTER 2, 3 and 5 2:00 PM – 2:10 PM

5. BREAKOUT DISCUSSION 2:10 PM – 2:45 PM

6. BREAK 2:45 PM – 2:55 PM

7. GOALS AND OBJECTIVES for PLACE CHAPTER 2:55 PM – 3:05 PM

8. BREAKOUT DISCUSSION 3:05 PM – 3:50 PM

9. WRAP UP DISCUSSION 3:50 PM – 4:00 PM
## Upcoming Workshops

<table>
<thead>
<tr>
<th>Subject</th>
<th>Date</th>
<th>Time</th>
<th>Cutoff for Edits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 3, People</td>
<td>Friday, Feb 12th</td>
<td>1:30 PM – 4PM</td>
<td>2 Weeks after Workshop</td>
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<tr>
<td>Chapter 4, Place – Land Use &amp; Housing</td>
<td>Friday Feb 19th</td>
<td>1:30 PM – 4 PM</td>
<td>2 Weeks after Workshop</td>
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<tr>
<td>Chapter 4, Place - Ecosystems and Infrastructure</td>
<td>Feb 25th/26th</td>
<td>1 PM – 4 PM</td>
<td>2 Weeks after Workshop</td>
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<tr>
<td>Chapter 4, Place - Transportation</td>
<td>Friday, March 5th</td>
<td>1 PM – 4 PM</td>
<td>2 Weeks after Workshop</td>
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<tr>
<td>Chapter 5, Prosperity</td>
<td>Friday March 12th</td>
<td>1 PM – 4 PM</td>
<td>2 Weeks after Workshop</td>
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<tr>
<td>Clean Energy</td>
<td>Friday, March 19th</td>
<td>1 PM – 4 PM</td>
<td>2 Weeks after Workshop</td>
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<tr>
<td>Post Integrated Draft</td>
<td>Mid-April</td>
<td>NA</td>
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<tr>
<td>MPC Meeting to Review Draft Plan</td>
<td>April 29th/30th</td>
<td>TBD</td>
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• **Goals appear in 4 chapters** – some reviewed in earlier resilience-focused workshops, need to be tailored to CE/EE and sustainability.

• **Review Process**: look at all goals, objectives and actions – might be in different chapter. Define the keepers and the ones to delete. *Make revisions*. Add new ideas.

• **Additional Time for Edits** Attendees and members are encouraged to edits goals/objectives/actions 2 weeks after workshop
UPDATES ON ACTIONS, PRIORITIES

State and Federal Update and Opportunities
• Susan Glickman, Southern Alliance for Clean Energy

Local Government Updates
• Pinellas Sustainability and Resilience Network – Laura Thomas
• Tampa
• St. Pete
• Clearwater
• Others
UPDATE ON CLEAR SKY TAMPA BAY

Project Overview
• Solar Energy Innovation Network, Round 2
• Solar+Storage for Critical Facilities
• Milestones & Takeaways

What’s Next:
• Review of Toolkit & Case Studies – Hillsborough, Pinellas, Largo, Manatee
• Webinar launch (late May, date TBA), training videos, and online resource library
• Potential collaboration with USF Patel College of Global Sustainability in Fall

www.tbrpc.org/clearsky -> alana@tbrpc.org
CROSS-CUTTING ISSUES

• **Transportation** – 2019 SACE report largest source of emissions for the region

• **Near road pollution**
  • Impacts to human health
  • Impacts to water, habitats

• **Increased housing and development density aligned to Transit Oriented Development is positive**
  • Assessments needed to document “hot spots”
  • Multiple mitigation strategies needed to ensure community health
CROSS-CUTTING ISSUES

- Methane CH$_4$ absorbs/traps heat from the sun 84 x times of CO$_2$.
  - Leaks, mechanical systems,
  - EPA voluntary oil and gas methane program technologies and best practices

- **Food Waste Reduction**
  - Hierarchy of efforts across supply chain reduce emissions, improve food security and reduce costs/increase profits
OVERVIEW OF GOALS

REGIONAL RESILIENCY ACTION PLAN OVERVIEW
CHAPTER 1 & 2 GOALS

• **Goal 1** Resilience is achieved through targeted actions based on sound science by leveraging regionally consistent data use.

• **Goal 2** The region becomes more resilient and equitable by defining and addressing community vulnerability and housing vulnerability.
CHAPTER 3 PEOPLE

Goal 3 Local and regional responses to the effects of climate change will be advanced through organizational and fiscal management at the local government level, and community-led preparedness and recovery.
CHAPTER 4 PLACE GOALS

• **Goal 4** The region solves the housing affordability crisis and grows resiliently and sustainably through innovative and equitable planning, investment and construction.

• **Goal 5** Thriving habitats and abundant wildlife

• **Goal 6** Infrastructure and Services that support resilient and healthy community environments, where residents and businesses thrive.
• **Goal 7** The Region has a connected multimodal transportation network that is resilient to extreme weather, reduces local emissions and enhances equitable mobility and public safety.

• **Goal 8** The region supports food system resilience which increases equitable access to healthy, locally grown foods and economic opportunity.
• **Goal 9** Businesses can recover quickly from the impacts of current and future climate hazards.

• **Goal 10** Key economic sectors and local businesses maintain services and grow.
GOALS and OBJECTIVES
Ch. 2 Community Vulnerability, Ch. 3 People, Ch. 5 Prosperity

REGIONAL RESILIENCY ACTION PLAN OVERVIEW
Chapter 2 Goal: The region becomes more resilient and equitable by addressing community vulnerability and housing vulnerability.

Objective 1: Vulnerabilities are identified, and recommendations are integrated into all planning functions to address the needs of all residents, public health, and improvements to municipal operations and infrastructure.

Action: Conduct vulnerability assessments for infrastructure and publicly owned community assets.

Action: Conduct community vulnerability assessments: develop plan for assessing specific Community Lifelines and for conducting community-neighborhood level assessments and define disparities associated with income, age and race.

Action: Define community health metrics to support targeted vulnerability assessments and strengthen climate resilience planning.

Action: Obtain a grant to support a region-wide study to quantify and visualize greenhouse gases emitted by source, identify areas with poor air quality that impact nearby by communities and enable decision making to reduce emissions.
Objective 2: The region uses science-based assessments to improve housing planning, mitigation and construction outcomes.

Action: Develop a framework, process and metrics to evaluate community vulnerability and affordable housing risks. Create an "all hazard" matrix for housing TBRPC

Action: Conduct housing vulnerability assessments using standardized, science-based methods to quantify and map inundation risks to current and future sea level rise. TBRPC/Local Governments

Action: Conduct affordable housing stock "windshield or walking tour" assessments to define energy and weather mitigation needs in LMI communities. Local Governments

Action: Develop new construction goals which include potential housing stock losses and specific income categories.
Chapter 3 Overarching Goal: Local and regional responses to the effects of climate change will be advanced through organizational and fiscal management at the local government level, and community-led preparedness and recovery.

Goal 1: Local governments maximize their efforts to implement climate adaptation and mitigation activities through an expanded internal capacity and cross-departmental coordination.

Objective 1: The Region will strengthen local government organizational capacity by implementing best practices.

Action 1: Develop resilience and sustainability plans and synchronize with other plans, including the strategic plans, the Comprehensive Plan, OMB annual plan, and others.

Action 2: Resilience and sustainability objectives are integrated into departmental programs, budgets, positions and performance metrics.

Action 3: Local governments establish greenhouse gas reduction goals, strategies and monitoring programs for municipal operations and public facilities. Local governments

Action 4: Local governments establish renewable energy goals, strategies and target dates for municipal operations and public facilities
Chapter 3 Overarching Goal: The regional economy is protected through integrated disaster preparedness and supports growth through resilience innovation in existing industries and new sectors.

Action: Encourage collaboration with Commerce's and business associations to support energy efficiency retrofits and improvements for businesses

Goal 2: Key economic sectors and local businesses increase capacity to provide resilience and sustainability services and grow.

Objective 1: Create a coordinated economic and workforce development plan to support growth for higher wage clean energy and resilience-focused construction, engineering and technology jobs.

Action 1: Support the formation of the Tampa Bay Resilience and Economic Development Initiative (REDS) to engage business, finance markets and civic sector

Action 2: Climate resilience and risk mitigation is integrated into the region’s Comprehensive Economic Development Strategies (CEDS).

Action 3: Engage business sectors to develop recommendations for supporting resilience investment to address the TBP "Business Case for Resilience" study. Tampa Bay Partnership, TBRPC
Ch 5 PROSPERITY
GOALS/OBJECTIVES/ACTIONS

Action 4: Establish partnerships with universities to create Resilience Accelerator(s) to catalyze growth for new resilience-oriented business services and technologies to address the region’s challenges.

Action 5: The TBRPC will work with USF, UF Seagrant, NOAA and St. Pete Ocean Team to engage fishery management councils, scientists, and other stakeholders to define impacts to regional fisheries and aquaculture businesses and define potential strategies to increase economic resilience to extreme weather and climate change.

Action 6: The TBRPC will collaborate with IFAS and others to study risks to the agriculture sector and support development of plans to adapt to and mitigate the effects of climate change.

Action 7: Collaborate with Universities and Colleges to create updated regional jobs analysis to support regional clean energy goals and actions (i.e. municipal and private sector); define specific workforce skills needed to meet growth for solar, storage, data management and other tasks.

Action 8: Support clean energy and energy efficiency workforce training programs and pathways to transition workers from low-wage jobs.

Action 9: Goals for green economies, jobs and STEAM workforce development goals are updated and integrated into existing workforce programs new Promote development of green (sustainability) and blue (resilience) economic clusters.
Instructions for Breakout Groups

- Click on link in Chat Box.
- Click your group tab.

- 35 minutes
- Add your names.
- Select an editor/note taker(s).
- Enter edits on the row below the draft language.
- What are we missing?
BREAK
Return at 3:00 PM
PLACE CHAPTER

GOALS, OBJECTIVES, ACTIONS
Ch 4 HOUSING

GOALS/OBJECTIVES/ACTIONS

Housing/Land Use Overarching goal: The region solves the housing affordability crisis and grows resiliently and sustainably through innovative and equitable planning, investment and construction.

Goal 1: The region increases the number of resilient, safe, affordable and attainable homes.

Objective 1: Establish and implement regionally consistent Resilient Green Housing Construction and Site standards, using FGBC and other frameworks, for a wide range of housing types including smaller multi-family properties to support housing affordability goals.

Action 1: Green and resilience standards for buildings and sites into Land Development Regulations/Code Local Governments

Action 2: Develop incentives for developers to build outside vulnerable areas, and in vulnerable areas, adopt resilient/sustainable building standards.

Action 3: Develop policies and strategies to reduce heat island effects in new development or redevelopment.
Goal 2: Development and redevelopment is more resilient to current and future flooding, heat, wind and other disasters.

Action 1: Enhance/implement requirements to encourage property owners and government facilities to use green design and cooling strategies to reduce carbon emissions.

Action 2: Apply HUD energy efficiency requirements for new construction to all multi-family properties.

Action 3: Support robust, ongoing housing retrofit programs and strategies targeting LMI communities and ALICE populations for rental, owner, and supported living housing.

Action 4 Adopt best practices for building design and HVAC to mitigate near-road air pollution to support community health.
Buildings/Infrastructure Overarching goal: Enhance the capacity of natural systems and infrastructure for climate mitigation and adaptation

Goal 1: Infrastructure and services support resilient and healthy community environments, where residents and businesses thrive.

Objective 1: Reduce methane and other emissions caused by gas systems and food waste.
   Action 1: Encourage companies to collect data, conduct systems audits and measure their contribution to methane emissions.
   Action 2: Companies producing, distributing and using oil and gas implement technologies and practices to cut methane emissions, reduce strategic and operational risk, and demonstrate their commitment to the environment.
   Action 3: Increase communications and awareness of need to reduce food loss and improve waste diversion.
   Action 4: Develop collaborations with grocery stores, restaurants, universities, schools and hospitals to encourage implementation of programs that support the Food Recovery Hierarchy.
   Action 5: Implement and or incentivize innovative waste reduction programs to reduce landfill.
Objective 2: Increase post-disaster power resilience for long-duration outages

Action 1: Conduct Black Sky Planning for Community lifelines for long-duration, widespread power outages.

Action 2: Conduct energy and power-resilience assessments for municipal operations, emergency systems to understand essential equipment energy needs.

Action 3: Develop plan for energy hardening upgrades and reduce reliance on diesel generators for backup power

Action 4: Re-assess power requirements to determine if additional generator capacity, battery banks or on-site renewable energy

Action 5: Use ClearSky tools and resources to identify critical municipal systems and facilities which are candidates for solar and backup battery and micro-grids

Action 6: Encourage utility implementation and expansion of Clean Energy Connection programs to support local government renewable energy goals
CH 4 TRANSPORTATION

GOALS/OBJECTIVES/ACTIONS

Overarching transportation Goal: The Region has a connected multimodal transportation network that is resilient to extreme weather, reduces local emissions and enhances equitable mobility and public safety and health.

Objective 1: Prioritize transportation infrastructure investments that mitigate or adapt to a changing climate

Action 1: Use data from regional emissions study to update transportation plans and policies to define targets for transportation electrification strategies to reduce emissions.

Action 2: Prioritize alternative modes of transportation other than single-occupancy vehicles (e.g., transit, walking, biking, etc.) through comprehensive plan policies, such as Complete Streets, Vision Zero.

Action 3: Adopt transportation planning best practices to reduce road air pollution to support community health, with special emphasis for nearby housing, schools and neighborhoods with concentrations of vulnerable populations.

Action 4: Document costs of protective measures needed to reduce roadway air pollution near housing, schools and neighborhoods with concentrations of vulnerable populations.
Objective 2: Accelerate the Transition to Clean, Accessible, Resilient, and Equitable Transportation Systems

Action 1: Convene a Resilient Transportation working group to review, provide input and update the Regional Rapid Transit Plan and define assessments.

Action 2: Host a regional workshop focused on creating greener transportation infrastructure and multimodal transportation strategies.

Action 2A: Prepare coordinated request(s) for funding opportunities from federal government.

Action 3: Collaborate to assess financial needs and feasibility of county-wide transportation tax referenda to support future resilience and sustainable transportation projects.

Action 4: Increase technical training on fleet fuel consumption assessments, fuel reduction goals and conducting cost-benefit analysis.

Action 5: Conduct green house gas and energy assessments for municipal fleet and transportation systems.
Action 6: Develop local plans for transitioning municipal vehicles, fleets and school buses to fuel efficient hybrid or electric vehicles.

Action 7: Utilize local data to define charging infrastructure needs, develop plan and set goals to increase the electrification of transportation and mobility

Action 8: Define and eliminate policy barriers to expand and accelerate plug-in electric vehicle adoption

Action 9: Develop policies/incentives to encourage inclusion of EV, solar+storage infrastructure in new multi-family buildings and commercial buildings.

Action 10: Assess feasibility of coordinated procurement strategies for renewable energy and EV to support smaller local governments
BREAKOUT DISCUSSION
Instructions for Breakout Groups

- Click on link in Chat Box.
- Click your group tab.

- 45 minutes

- Add your names.
  Select an editor/note taker(s).

- Enter edits on the row below the draft language.

- What are we missing?
WRAP UP DISCUSSION

CLEAN ENERGY
Regional Resiliency Action Plan

Regional Action Plan

The Tampa Bay Resilience Coalition Memorandum of Understanding tasks members with developing a Regional Resiliency Action Plan (RRAP). The MOU states that the Plan "shall include strategies for coordinated regional preparation for and adaptation to a rapidly changing global environment based on mapping of projected sea-level rise and resulting amplification of localized impacts of hurricanes and tropical storms, and which shall identify funding strategies at the local, state and federal levels for mitigation and adaptation actions to deal with those impacts."

Science Based The Regional Resiliency Action Plan will include strategies and actions that are based on sound science and technical data. The planning team will work together to identify experts for guidance and will use the regional recognized sea-level rise projections as produced by the Tampa Bay Climate Science Advisory Panel to assess sea-level rise vulnerability, inform planning efforts, and provide guidance on what sea-level rise projections should be incorporated into local planning efforts.

Community Involvement The Regional Resiliency Action Plan process will recognizing the importance of involvement by all members of the community. The Coalition Members will engage and involve local businesses, organizations, associations and individuals in developing policies and recommendations which will have the support and commitment of community members and organizations. Community involvement is essential for successful implementation.

2020 Leadership Summit
Plan Purpose and Scope
Planning Timeline and Meetings

Provide input draft chapter:
- Provide input on Chapter 3 People Goals

Meeting Date | Audience | Documents
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Option 1: Use the Suggesting feature
Option 2: Download, Revise and Upload your version to the Folder.
THANK YOU!

WWW.TBRPC.ORG/RESILIENCYPLAN

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