

# RSAC Agenda 2/28/2019

Welcome and Moment of Silence

Mayor John Tecklenburg

Atlantic Seismic Testing

Janie Borden

“Ban on Bans”

S. 394 Plastic Preemption Bill

Janie Borden

2019 Green Business Challenge  
and Workshop Series

Katie McKain  
Clay Middleton  
Meg Thompson

Vulnerability Assessment Update

Mark Wilbert

Flooding & Sea Level Rise  
Strategy Website

Katie McKain

USACE Peninsula Flood Risk  
Mitigation Study Update

Mark Wilbert

Public Comment Period

# Charleston Green Business Challenge



# Mission

- ▶ Assist Charleston businesses with lowering energy costs as well as creating more environmentally sustainable facilities.
  - ▶ The workshop series topics will range from energy consumption, sustainable alternatives to lowering environmental impacts from commuters, and water conservation.
  - ▶ Following the workshop series, an Energy Star Battle of the Buildings challenge will kick-off in August.

# Goals & Objectives

## ▶ **Goals:**

- ▶ Educate businesses on environmental issues through workshops series
- ▶ Lower local businesses' environmental impact & energy costs
- ▶ Decrease energy consumption amongst Charleston businesses

## ▶ **Objectives:**

- ▶ Bring together Charleston business community to create effective solutions
- ▶ Prepare for an Energy Star Battle of the Buildings Challenge
- ▶ Creating new partnerships with Charleston business community and City of Charleston

# Workshop Series

- ▶ Monthly meetings targeting different aspects of sustainability
- ▶ Mixture of in-person events and webinars
- ▶ Venues will vary. Examples: 2 George Public Meeting Room, MUSC, and BCDCOG
- ▶ Partners will be brought in to share their expertise
- ▶ Educate the business community and prepare them for the Energy Star Challenge

# Energy Star Battle of the Buildings Challenge

- ▶ Following the workshop series, an Energy Star Battle of the Buildings challenge will kick-off in August.
- ▶ Focused solely on lowering energy consumption
- ▶ Goal of reducing energy consumption towards 15% in six months
- ▶ Data Collection is done by individual businesses uploading data to Portfolio Manager, Energy Star's online platform
- ▶ Tiered system for final results (1-5%, 6-10%, 11-14%, 15% or higher)

# Partners & Sponsors

- ▶ Medical University of South Carolina
- ▶ Charleston Metro Chamber of Commerce
- ▶ Charleston Visitors Bureau
- ▶ Office of Sustainability College of Charleston
- ▶ Sustainability Institute

# Event Calendar

- ▶ Thursday, February 28: Re-launch of Charleston Green Business Challenge
- ▶ Thursday, March 14: Energy Consumption Workshop
- ▶ Thursday, April 4: Commuter Costs
- ▶ Thursday, May 2: Water Conservation
- ▶ Thursday, June 6: Waste Management/Recycling
- ▶ Thursday, July 11: Portfolio Manager and Challenge Training
- ▶ Thursday, August 1: Energy Star Battle of the Buildings Challenge Launch



# Vulnerability and Risk Assessment

- Commences March 2019 – 12 months
- Basis for future actions – Projects, Land Use, Budgets
- Multi-hazard Threats > Assets (Geo/Things) = Vulnerabilities
- Vulnerabilities \* Consequences (Life/Property) \* Probability = Risk
- Social and economic vulnerabilities.
- Adaptive Actions (Solutions) to reduce Risk
  - Cost and Quality of Life = Balance

Websites

[www.charleston-sc.gov/resilience](http://www.charleston-sc.gov/resilience)

[www.charleston-sc.gov/slr](http://www.charleston-sc.gov/slr)

# ACOE 3 x 3

1 Threat, 1 Geo Area, 1 Action

- Flooding from Coastal Storm = Threat
- Asset = Peninsula (Geo and Things)
- Vulnerability > Consequence (economic, social) \* probability = risk
- Tentative Selected Plan (Adaptive action)
- Cost of doing nothing vs Cost of TSP (Protective Measures) 50 year look
- Cost Benefit
- 2 Tests = Federal Interest and Cost Benefit
- 12 mos TSP, 2 years review, critical path to ACOE construction funding
- Deliverable = TSP fully Vetted – considered for federal funding.

# Dutch Dialogues

## Adaptive Solutions for Specific Geo Areas

- New way of looking at Adaptive Actions through Design
- Design, Land use, building techniques & engineering
- 4 Project Areas known vulnerabilities and risks
  - Peninsula (Lockwood Corridor)
  - Vardell's Creek (eastside)
  - John's Island
  - Church Creek
- Colloquium (May 1,2) sets up the 4 areas by teams
  - Prepares for workshops, study, research and explore
- Workshop (July 15-19)
  - 4 days of design workshops and 1 day of presentations
- Deliverables = 4 Project Concepts w/design & minimal engineering & costs to reduce & prevent future risk

# How Do They Fit?

- **Define Risk – City Wide and Multi-Hazard**
  - **Vulnerability Assessment**
- **Reduce Risk**
  - ACOE 3x3 – 1 solution for 1 risk and 1 geo area
- **Prevent Future and mitigate current**
  - Dutch Dialogues – 4 problem areas (possible solutions = reduce risk/costs)