

Energy & Sustainability Program Updates

Climate Change Task Force

August 19, 2019

Environmental Planning and Community Resilience Division

County Electric Vehicles and Infrastructure

▶ Electric Vehicle Purchasing

- ✓ 14 Nissan Leafs and Chevy Bolts purchased.

▶ Charging Infrastructure

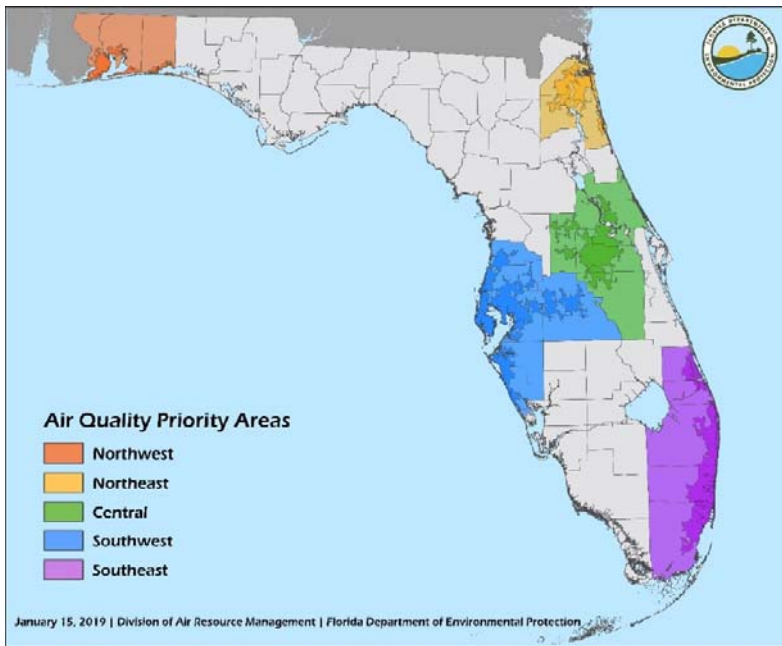
- ✓ 7 level 2 fleet chargers installed at parking facilities throughout the County (4-6 hr. charge time).
- ✓ 1 DC Fast Charger on order (30-45 min. charge time).

▶ Charging Infrastructure Report

- ✓ Covers 4 main fleet parking facilities and will inform future EV infrastructure decision-making.
- ✓ Report expected in early Oct. 2019.



Volkswagen Settlement



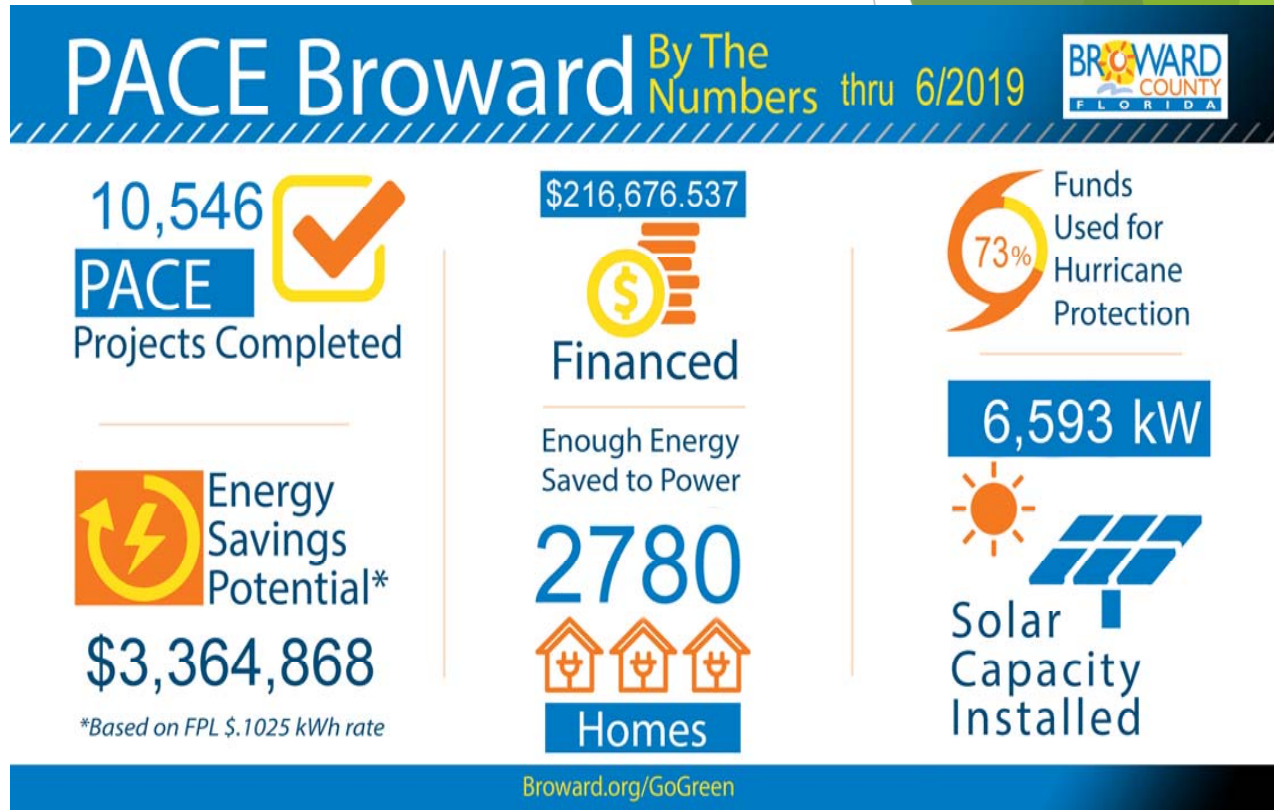
- ▶ FDEP released Beneficiary Mitigation Plan last month.
- ▶ Plan focuses on priority areas and eligible mitigation actions for funding.
- ▶ \$116 million for diesel bus replacement and \$25 million for ZEV charging infrastructure.
- ▶ County submitted comments in coordination with County, MPO, Clean Cities Coalition and SE FL Climate Compact.

| Eligible Mitigation Action | Allocation |
|---------------------------------------|-------------------------|
| School, Transit, and Shuttle Buses | 70% |
| Light-Duty ZEV Supply Equipment | 15% (Maximum Allowable) |
| Diesel Emissions Reduction Act (DERA) | 15% |

Property Assessed Clean Energy

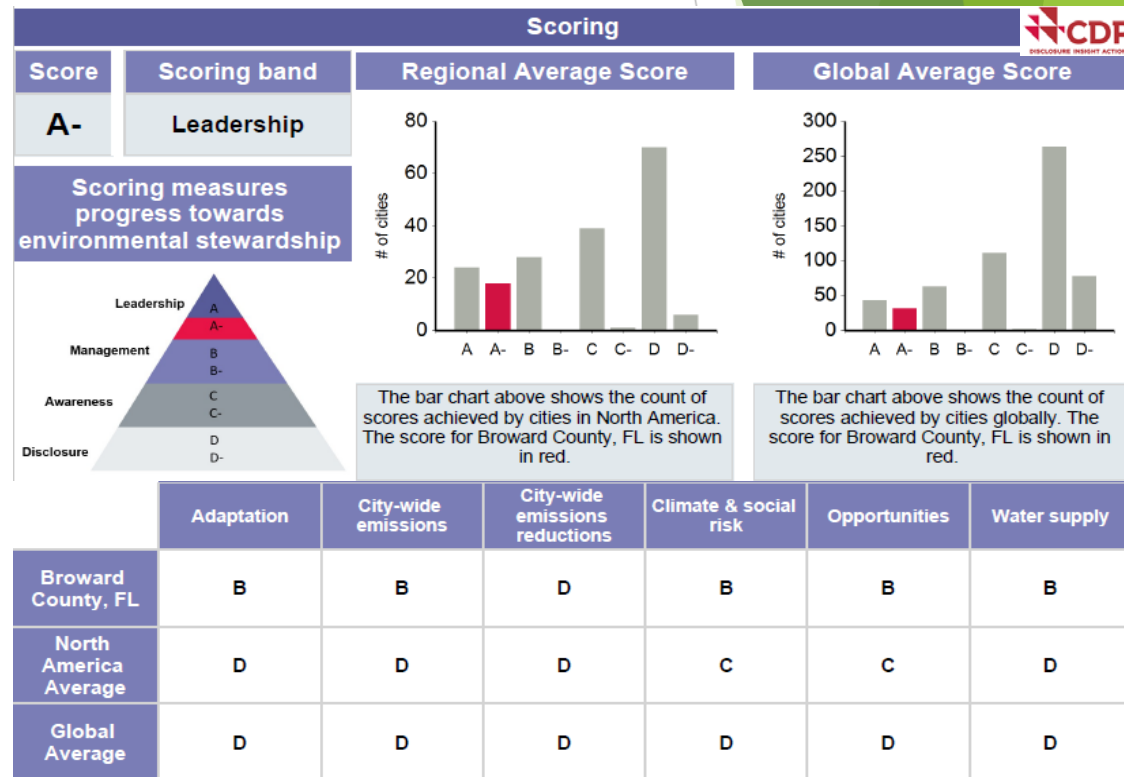
Disclosure Statement Resolution

- ✓ Successful Negotiations with PACE Providers.
- ✓ Agreement on Disclosure Statement.
- ✓ Negotiations largely focused on 3-day cancellation period timing.
- ✓ Public hearing to consider the Resolution on August 20.



Carbon Disclosure Project

- ▶ Last year Broward County received an A- score
- ▶ Expect improvements within the areas of adaptation and city-wide emissions
- ▶ 162 U.S. municipalities submitted for 2018
- ▶ 179 U.S. municipalities submitted for 2019
- ▶ Will submit again in 2020 with the updated GHG inventory data



CDP 2018 'A List Cities'

World-wide A scores for 2018 disclosures

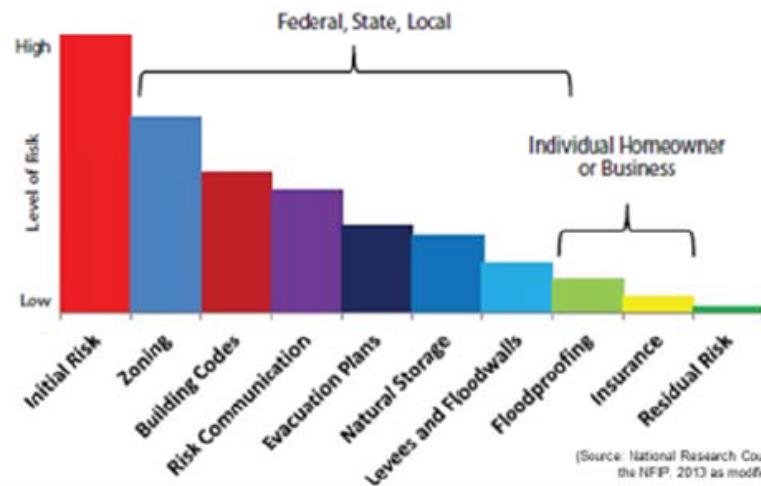


Flooding Hazards FEMA Class

- ▶ National class on Flooding Hazards: Science and Preparedness
- ▶ They recommend that local governments
 - ▶ Enforce higher standards
 - ▶ Closely issue/deny floodplain development permits
- ▶ Key takeaways for trainees:
 - ▶ 100 year floods can happen back to back
 - ▶ Do not have to be in a floodplain to experience a flood

| Recurrence intervals and probabilities of occurrences | | |
|---|---|--|
| Recurrence interval, in years | Probability of occurrence in any given year | Percent chance of occurrence in any given year |
| 500-year flood | 1 in 500 | 0.2% |
| 100-year flood | 1 in 100 | 1% |
| 50-year flood | 1 in 50 | 2% |
| 25-year flood | 1 in 25 | 4% |
| 10-year flood | 1 in 10 | 10% |
| 5-year flood | 1 in 5 | 20% |
| 2-year flood | 1 in 2 | 50% |

Buying Down Flood Risk



Climate Change and Florida's Sea Turtles

- ▶ Reach maturity in 25-30 years
- ▶ Earliest impacts to today's hatchlings would be observed in 2050
- ▶ Beginning to track air temperatures as nesting begins
 - ▶ Potential seasonal shift in nesting
 - ▶ Depends on foraging migrations
- ▶ Potential climate change charismatic fauna

ENVIRONMENT

Climate change is turning Florida's sea turtles female. How long can these species survive?

BY ADRIANA BRASILEIRO

AUGUST 12, 2019 06:00 AM, UPDATED AUGUST 12, 2019 11:08 PM



Legislative Update

- ▶ Dr. Julia Nesheiwat named State Chief Resilience Officer
 - ▶ Background in energy security, international diplomacy
 - ▶ Compact partners and many others signed letter offering support
- ▶ Gov. DeSantis signed several bills with climate implications
 - ▶ HB 7103 - Growth Management - requires comprehensive plans be based on developers' growth plans, not local input; those who challenge development proposals and lose must pay other party's legal fees; forbids local govts from requiring affordable housing in new developments
 - ▶ HB 1159 - Private Property Rights - effectively preempts local tree regulations
 - ▶ SB 7068 - three new toll rolls to be built through mostly-undeveloped parts of Florida