

Monroe County Climate Change Advisory Committee Meeting

Meeting Minutes November 16th, 2015

2798 Overseas Highway

Marathon Government Center

Second Floor

Marathon, FL 33050,

12:30 p.m. – 4:00 p.m.



- I. Review and Approval of Meeting Agenda and Oct. 19th Minutes –Bob
 - a. Approved

- II. Public Comment

- III. Oath signing- bring ID

- a. Complete except Vicki

- IV. 1:00 pm Tom Walker FKAA

- a. SLR and Wellfield Protection and Wastewater Treatment/Reclaimed Water
Notes from presentation-

SWIM: salt water intrusion monitoring.

This year highest of any in terms of pumpage in many years peak day in July over 22 mill gal

What do you foresee as the greatest climate change impact for FKAA? SLR

The line separating salt and fresh has remained fairly stationary; use of wellfield in freshwater area. Saltwater intrusion issue nit new, control in place for a long time- specifically a drainage system (change is surface water elevation = change in groundwater elevation) as SLR continues management will have fewer options for controls and systems will need to adapt- need for use cutbacks. It is believed that hydraulic head of Everglades is elevated enough to be protected in this century. Ghyben-Herzberg relation: 1 ft of freshwater in a confined aquifer above sea level there will be forty feet of freshwater in the aquifer below sea level: overpumping/ drainage combined w/ SLR will accelerate salt water intrusion. FPL plant cool ponds and run off areas control: withdraw hyper saline plume and reinject into a deeper area.

2-6 million gallons per year to replace pipes throughout the water systems bringing water from Florida City to Key West. Current 10-12% water loss to leakage, faulty equipment, meters, consumers who cheat the system. Major issues will arise without any monumental changes in the SFWMD operating protocols: contamination (drinking water/ag water) (Biscayne Aquifer), more interests competing for clean resource (Floridian Aquifer), higher carbon footprint. 25% / 4.9 million people in the US live below 4' mean sea level.

Committee recommendations or supports: conservation support; incentives from FKAA: toilet replacement, septic conversion to cistern, repair or install cisterns; potential of water reclamation in Big Coppitt and Duck Key- increase use of reclaimed water systems; from the committee's pov would we be looking at consumer adaptations (incentives), policy changes, or CIP's from the Aqueduct Authority and local governments

FKAA would like to know the plan of the SFWMD. Speaker believes they may not have a plan and for this reason FKAA does not have their plan.

Consider drafting support for conservation, reclaimed water, investigate counties that have maintained mandatory conservation such a watering days

- V. 2:00 pm Patrick Saty
- a. Energy 3 update
Notes from Presentation-
MoCo as responsible county leader in the state/nation
When will the plant, to be placed in Florida City, which will increase savings and returns, be in place? From the completion of the Feedstock Agreement (to be signed Jan/Feb 2016) 30 month projection for completion of plant.
Final plan with plant is carbon negative! ☺
Plant to be designed to process 50,000 tons annually; expected it will process approx. 30,000 per tons annually; identified additional 20,000 tons source from municipalities within Monroe and neighboring counties.
FL statute 1mw of electric power generated = 1 ton recycling credit; Mo Co gets 100% 1for1 credits for each ton of yard waste processed. Gasification generates 1mw of electricity per ton of waste processed
Support: need for community backing, advocacy support from committee, stress importance of issue and leadership potential from the County,
CLOSED LOOP PROCESS
- Draft new support resolution for Jan/Feb BOCC Agenda**
- VI. Adaptation Action Areas-
- a. Review suggested criteria, develop and finalize suggestions
- II> Bob reviewed last month's presentation for absent members, discussion of adding time criteria. Matt suggested an engineering perspective evaluating measurement and rate of change as criteria; current #'s and rate of change so the criteria has two values. Perry suggested a political perspective such as what makes sense to the individual; length of mortgage, planning horizon for roads and infrastructure. Chris suggested we provide entire list to staff after ranking- to show consideration, he also suggested two lists 2030;2060. Next month's agenda will include time for ranking.
- III> Alicia to send AAA county guidance plan/ case study**
- IV> Next meet: Minimum of two new level two criteria, look at level one as well**
- VII. Break 3:00-3:05
- VIII. Resolutions suggested
- a. ****Newer LIDAR data will be needed for the planning process which can cost \$400,000.
Discussion to recommend the county pursues funding for new LIDAR data
- II> Resolution drafted 11/16 voted affirmative to proceed
- III> The CCAC recommends that the BOCC contract to acquire new digital elevation data based on the best available technology and seek cost sharing opportunities with municipalities and other interested parties. To go on Jan BOCC. Final reso due for agenda Dec 6th**
- b. Discussion to move forward a resolution to address road conditions at Sea Oats Beach
- II> suggestion to consider all vulnerable and low lying sections of Overseas Highway not specifically Sea Oats Beach
- c. Update to Storm-water Master Plan
- d. Require cisterns in new construction
- IX. 3:35 Set 2016 calendar
- a. **Dates Feb 2**, March 7, April 4, May 2, June 6, July 11, August 8, Sept 12, Oct 3, Nov 14, Dec 5

X. New Business

Appointed Members:

Bob Glazer (Chair)
Michelle Robinson
Lisa Kaul
Vicki Boguszewski
(Vice Chair)

Ed Russo (absent)
Perry Johnston
Chris Bergh
Steve Wainstead
Matt Anderson

Michael Larson
Shirley Gun

Advisory Members/Guests;
TJ Patterson, FKEC
Julie Cheon, FCAA

Staff / Office:

Commissioner Carruthers / BOCC Liaison
Alicia Betancourt / Extension Service- Staff Liaison
Rhonda Haag / Sustainable Program Manager
Pedro Mercado / County Attorney
Michael Roberts / Growth Management

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