

**PORA Water and Natural Resources Committees**  
**April 5, 2016 @ 9:30 a.m. Minutes**

**Attendees:** Dave Poling/PORA Vice President  
Mike Whiting/Rec Center  
Todd Patty/ Rec Center  
Frank Metzler/EPCOR  
Patrick McDermott/APS  
Dave Hunter/Briarwood

J.B. Wyckoff  
Duane Robinson  
James West  
Ken Weidner/ACHO  
Donn Hollenbeck/HOA  
Jim Heig/HOA

1. Introduction/ Welcome Dave Poling  
2. Approval of the minutes of March 1, 2016 Dave Poling  
**Motion** by James West: to approve March 1, 2016, minutes was seconded  
and approved unanimously.

**3. Current Updates:**

**APS: Patrick McDermott:**

APS Presentation: Bullet points from APS Solar and generation resources presentation:

- APS has over 1000 MW's of utility- scale solar generation in its portfolio
  - o Ahead of requirements of the ACC agreement
- APS has recently completed 10MW (each) utility-scale solar installations in Buckeye and Luke AFB
  - o Is currently embarking a another 10MW's of utility-scale installations via the Solar Partner Program by installing on customer rooftops with a goal of 1500 customers participating in the program
    - The program is designed to meet a required additional 10 MW's but is being done on customers roofs in neighborhoods so research and development can be better understood as more and more customers install their own roof-top solar
    - Currently there are nearly 1400 either installed or in the pipeline
    - Customers receive \$360.00/yr. to "lease" their roof top to APS
    - The customer does not sign a lease and system costs, maintenance and insurance is covered by APS
    - Customers can opt out at any time in the 20 year agreement
- Customer roof top installations (self-generation via lease or purchase through a third party nearly 41,000
- APS is also experimenting with a limited amount of customers (75 total) that have APS installed solar, load control devices and battery storage integrated into the system

- With the increase of solar rooftop in neighborhoods there are opportunities and challenges
  - o Overall relationship with 2-way electrical relations (customer to the utility and vice versa) lessens the need for generation assets from the utilities to a certain degree to deal with expected large growth of customer base in the future
  - o Intermittent generation such as solar and wind from customers requires utility back-up generation as those systems come on and off
  - o Congestion can occur, and does, during non-peak times as customer generation feeds back to the utility at times when not most beneficial to meet peak demand times (typically 4 p.m. to 8p.m.) as solar specifically peaks in generation from the 10 a.m. to 2 p.m. time frame
    - APS via the above mentioned programs is researching the best way to manage this phenomenon as more and more solar comes on line and is expected to continue to grow rapidly as prices decrease in the costs of solar installations by customers
- Battery Storage is continuing to evolve and will greatly change the nature of self-generation in the future and the relationship with utilities
- APS currently has a generation mix is currently:
  - o 32% coal- is forecast to be 16% by 2030 as regulations around coal make it more expensive to operate
  - o 26% nuclear and expected to be 18% in the future as natural gas/solar continue to increase in the generation portfolio to meet growing customer demand and growth- note: this is not a decrease in output by Palo Verde, but in relation to growth in other categories will have a lesser percentage in the over-all
  - o 10% renewables (wind, solar, geothermal) and will grow to 15% by 2030
  - o 21% natural gas and is expected to be 37% by 2030 as customer growth grows and to support the integration of renewable energy resources in the future
  - o 11% energy efficiency to be nearly 15% by 2030 as customers take advantage of energy efficiency rebates and newer homes increase in energy efficiency
    - Energy efficiency is now considered a “generation asset” as it offsets to a degree the for more power plant generation by the utility

**EPCOR: Frank Metzler:**

- We will be filing for the wastewater rate case by the end of the month. Just to remind you, the ACC directed that Epcor submit a rate filing for wastewater and look at a variety of scenarios ranging from full consolidation of all wastewater customers in Arizona to significant deconsolidation.
- Sun City West well 1.3 should be coming back in service by the end of April.
- This year we will continue to replace 2,200 aged manual water meters.
- We will be building a new secondary wastewater force main. Our engineers are designing the new route; the construction should start in a few months.

**Rec Center: Todd Patty**

- Golf course water usage report year to date; we have used 498 acre feet of water for all seven golf courses. That is 131 acre feet more than last year at this time. We are still about 584 acre feet under our water budget for this year.
- We will continue to take out grass and replace it with desert landscaping with water-saving plants on non-play areas.

**Briarwood Golf course: Dave Hunter**

- We are about 10 acre feet over our allotment for the year.
- El Niño hasn't done much for us this year.
- Golf course is in great shape.
- We hope to put different low water usage grasses in the out of play areas this summer.

**4. New Business:**

**Mark Smith:**

I attended TORCH this year; our TORCH team project was water conservation in Sun City West. We noticed no water saving information in the Visitors Center. We would like to see the PORA Water Committee take on a leadership role in communicating with the residents on water conservation.

**Dave Poling:**

I suggest you meet with Epcor to get some water saving brochures in the Visitors Center. The Water Committee will work to get more information and articles in the PORA Insider, PORA Connection email Newsletter that comes out weekly, along with the PORA Insider and Rec Center news.

**Frank Metzler:**

Shaina Shay is EPCOR's Water Resource Analyst: she is normally attends this meeting. She teaches classes and speaks to groups on water conservation. Shaina will be at our next meeting and plans to give a presentation on conservation.

**5. Old Business: None**

**6. Adjournment at 10:43 a.m.**

**7. Next Meeting: Wednesday April 27, 2016, at 9:30 A.M.**