

Brenda Garcia

From: Angie Gelsinon [angie@kaneenpr.com]
Sent: Wednesday, December 02, 2009 12:44 PM
To: Nicole Ewing-Gavin
Subject: FW: E-mail from TucsonPimaWaterStudy.com - Comments

-----Original Message-----

From: noreply@tucsonpimawaterstudy.com
[mailto:noreply@tucsonpimawaterstudy.com]
Sent: Wednesday, November 11, 2009 8:56 AM
To: info@tucsonpimawaterstudy.com
Subject: E-mail from TucsonPimaWaterStudy.com - Comments

Email Address: tlfinefrock@comcast.net

Comments/Questions: Would like to see simple "major" regional user statistics, will be required to define what actions will provide most effective/productive solutions. Also agree that most behavior modifications are driven by economics, trade-offs in costs and values, that some form of "reward/penalty" system will need to be created.

I did not see and would strongly suggest that the Study identify and discuss the connection between existing Brown electricity generation technology and water usage; 1/2 to 3/4 gallon of water now used to generate one kilowatt-hour of electricity; TEP 2010 one-year generation plan will consume from 5 to 7 million gallons of water(each year will increase).

Solutions for water and environmental and cost issues involved with the generation of electricity will create many undesirable conflicts and seemingly mutually exclusive choices and significantly burden the capacity for local economy to fund the solutions; the solution costs will be significant.

I would also suggest that the Study develop and support a Project I recently proposed to County Supervisors Elias and Day and Rep. Giffords office that they collaborate and lead an effort with Tucson Electric Power Company, U of AZ Technology Park(Bruce Wright), City of Tucson, Az Corp. Commission, Western Governors Assoc.,etc., to acquire Federal funding, such as ARRA and pending carbon tax legislation revenues, to design/construct a Hybrid Solar & Natural Gas electricity generating plant w/solar thermal storage utilizing Dry-Cooling(Heller)technology of sufficient size to provide most of Tucson/TEP electricity requirements. The dry cooling technology uses only 2% of the water used by existing technology. The Solar thermal storage would enable generation of electricity for 20 or so hours of a day, use the Natural Gas to augment the thermal energy reservoir during early morning hours or rare cloudy days. This Project and technology would also solve Brown power environmental issues, reduce associated air pollution, global warming and healthcare costs, and create recurring local economic stimulus via the provision of jobs, higher wages, AND stabilization of the cost of electricity for residential & business users for many decades, avoid the significant and recurring cost increases that will be required by Brown Power generation including the pending carbon penalty legislation.

The "prototype" Project and Partners would also provide the knowledge and foundation needed to develop improved/cost effective components and

allow replication by other Western States/Utilities w/water conservation & Brown power issues.

Either the City of Tucson or County could create a Power District, own the assets on behalf of taxpayers, and contract w/TEP for design, implementation, management, operation and maintenance of the facilities, said contract would contain appropriate cost and environmental continuous improvement performance goals and metrics with profit and compensation directly related to performance to those metrics.

As above, reliance on local funds to solve these issues will significantly burden local funding capacity, result in argumentative discussions regarding priorities, "who doesn't get what first", and reductions in other needed services.

The first new technology projects are rarely the most cost effective, however, we should not wait, further discussions in meeting rooms will not provide tangible solutions within the timeframe of our requirements, nor additional data required for better decisions. Our Federal Government and US DOE are promoting and funding these type of Projects now and the Western Governors Association is meeting this month to develop/consider solutions for these issues. The timing is right for aggressive Leadership and actions to acquire necessary consensus, collaboration and Federal & Western States funding of this or a version of this Project that will provide significant and tangible diverse benefits to our community and other western state communities.

Mr. Terry Finefrock
Long term Tucson Area Resident
520-444-9225

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Yes