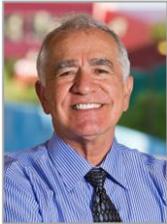
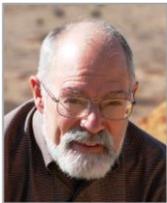


Energy and Water Summit: Advancing an Integrated Master Planning Initiative for Pima County Operations

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| Date | Wednesday Sept. 9, 2015 |
| Time | 8:30-11:30 AM (3 hours) |
| Downtown Location | Board of Supervisors Hearing Room 130 W. Congress, 1 st Floor Tucson, AZ 85701 |
| Purpose | To identify the needs, benefits and risks related to pursuing an Integrated Master Planning Initiative for Pima County Operations and to collect Leadership input on the concept. |

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| Length | Title | Presenter | Details | |
| 0:03 | <i>Assemble and Overview</i> | Julie Robinson, PhD  | Manager of Sustainability Programs, Office of Sustainability and Conservation; Chair SAPCO Steering Committee; Summit Planning Committee | |
| 0:05 | <i>Welcome and Purpose</i> | Mr. John M. Bernal, PE  | Deputy County Administrator for Public Works | |
| I. Big Picture Energy & Water Risks and Opportunities for Pima County | | | | |
| 0:15 | <i>Priming the Productivity Pump to Revitalize Pima County's Economy</i> | <u>John "Skip" Laitner</u>  | Skip will provide an analysis of the economic and energy foundations that underpin Pima County's economy, recent employment growth projections and recommendations on steps planners could undertake to ensure a more robust and sustainable economy in the near- and long-term future. Additionally, he will share some relevant details and anecdotes | Formerly a senior economist with the USEPA, Skip is a Tucson-based international energy and resource economist. He works with governments specifically to integrate energy data and other metrics to build the positive case for the "economic imperative of energy efficiency". Skip and his team have developed a model called "The Energy Stress Test" -- a means of linking energy efficiency to economic resilience and local job creation. |

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| | | | from other Master Energy & Water Planning Initiative efforts. | He is also President of the academic organization, the Association for Environmental Studies and Sciences (AESS). |
| 0:15 | <i>The Energy-Water Nexus, Risks and Opportunities for Pima County</i> | Ardeth Barnhart  | Ardeth will offer an applied research perspective on coupled energy-water systems relevant to Pima County uses and needs. She will present preliminary information on an on-going energy, water and environmental risk assessment with a discussion of implications for planners. | Ardeth directs the Renewable Energy Network at the University of Arizona. The focus of her work is on the interface between technology and society; she specializes in the design and implementation of strategies for the adoption of renewable energy technologies and policies both in Arizona and nationally. |
| 0:15 | <i>Facing an Uncertain Water Future in Pima County</i> | Sharon Megdal, PhD  | Sharon's presentation will cover topics related to expanding the County water resources and use, including water governance and rights issues and the impacts of continued drought on CAP allocations for the County, along with the benefits of improving water efficiency in operations. | Sharon B. Megdal is Director of The University of Arizona Water Resources Research Center (WRRC). From mid-1994 through early 2002, she was a water resources consultant to the Pima County Administrator and the Flood Control District. She is serving a second six-year term representing Pima County on the Central Arizona Water Conservation District Board (CAP) of Directors. Currently, her work focuses on water policy and water resources management challenges and solutions. Sharon, who has lived in Tucson since late 1978, holds a Ph.D. degree in Economics from Princeton University. |
| 0:10 | Break | | | |
| II. Pima County's Successful Energy & Water Strategies, Current Needs and Proposed Solutions | | | | |
| 0:10 | <i>Beneficial Uses of Stormwater</i> | Evan Canfield, PhD PE CFM  | Success: Large-scale stormwater harvesting programs, green infrastructure, calculating costs and benefits and future opportunities. | Civil Engineering Manager, Planning & Development Division Pima County Regional Flood Control District, Summit Planning Committee |
| 00:05 | <i>EnergyCAP 101</i> | Marc Lynn  | Success: EnergyCAP is used by departments to electronically access utility bills in order to explore cost-saving strategies through improved energy and water efficiencies. Additionally, EnergyCAP provides an analytical tool for assessing the County's annual progress towards meeting renewable energy, carbon reduction, and | Energy Manager, Facilities Management; Renewable Energy and Energy Efficiency S-Team Member; SAPCO Steering Committee; Summit Planning Committee |

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| | | | water conservation targets as mandated through the 2014 Board-adopted Sustainable Action Plan for County Operations. | |
| 0:10 | <i>Water Reuse and Energy</i> | Kathy Chavez, P.E.  | <p>Success: Completion of the Regional Wasterwater Reclamation Department's (RWRD) Regional Optimization Plan (ROMP) is providing Pima County many benefits including improved water quality and energy efficiency.</p> <p>Current Need & Solution: Benchmarking energy use and energy audits can improve efficiency and reduce costs. Improved water quality can open opportunities for direct use of recycled water and aquifer replenishment.</p> | Water Policy Manager, Regional Wastewater Reclamation Department, SAPCP Water Management & Conservation S-Team Lead, SAPCO Steering Committee, Summit Planning Committee |
| 0:05 | <i>Performance Contracting to Improve Energy and Water Efficiency and Cost Savings</i> | Marc Lynn  | <p>Current Need & Solution: Performance Contracting is a type of service agreement to provide energy and water auditing across facilities to benchmark and recommend efficiency upgrades to clients. Many local governments are using Performance Contracting to improve their bottom line. With no upfront costs and associated opportunities to actually generate revenue, Performance Contracting is mechanism, if managed well, has been demonstrated to yield rapid and long-term economic and environmental benefits.</p> | Energy Manager, Facilities Management; Renewable Energy and Energy Efficiency S-Team Member; SAPCO Steering Committee; Summit Planning Committee |
| 0:05 | <i>Advanced Solar Electric and Storage Solutions</i> | Terry Finefrock, CPIM  | <p>Current Need & Solution: Advanced solar electric solutions and energy storage systems have achieved manufacturing-scale production and reliability and are now also within the range of economically feasible alternatives to traditional grid-supplied electricity. Assessing how these tools and technologies might benefit the County through stabilizing and reducing operational costs</p> | Chief Contracts & Procurement Manager, Procurement Department; Renewable Energy and Energy Efficiency S-Team Member; SAPCO Steering Committee Member; Summit Planning Committee |

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| | | | and/or improving the reliability and security of non-discretionary energy and water supplies, should be a component of a Master Energy and Water Planning Initiative. | |
| 0:05 | <i>Extreme Heat and Power Outages: An Extraordinary Disaster</i> | Michele Manos, PhD, MPH, DVM  | Current Need & Solution: Understanding, preventing and preparing for extreme weather and power outages, perspectives from the Health Department. | Sr. Consultant, Pima County Health Department |
| 0:05 | <i>Green Revolving Funds & Financing Efficiency</i> | Alex Oden, MS  | Current Need & Solution: With seed capital, Green Revolving Funds (GRF's) are mechanisms that can be used to fund capital intensive energy efficiency upgrades. As savings are accrued and tracked, they can be applied towards funding the next round of green investments, thus establishing a sustainable funding cycle. | Coordinator, Sustainability Programs; SAPCO Steering Committee Member; Summit Planning Committee |
| 0:30 | <i>Facilitated Discussion (all presenters)</i> | Facilitator, Julie Robinson, PhD  | Panel Session: Staff and Invited Speakers will participate in answering questions from the audience. Audience will be encouraged to write questions on notecards as the presentations are made. | Panel: Skip Laitner, Guest Speaker Ardeth Barnhart, Guest Speaker Sharon Megdal, Guest Speaker Kathy Chavez, Water Policy Manager, RWRD Terry Finefrock, Manager, Procurement Jackson Jenkins, Director RWRD Michael Kirk, Director FMD Marc Lynn, Energy Manager, FMD Michele Manos, Sr. Consultant, Health Dept. Alex Oden, OSC Suzanne Shields, Director RFCD |
| 0:05 | <i>Wrap up & Next Steps</i> | Michael Kirk  | Summary: Issues, Solutions, Next Steps. | Director, Facilities Management Dept.; SAPCO Steering Committee Member; Summit Planning Committee |