

## Climate Change Adaptation Efforts

- Activities for Water Supply (Water Utility Enterprise)
- Activities on Fluvial and Tidal Flood
  Protection
- Activities on Ecosystem Resiliency
- Knowledge Activities on Adaptation

Date	Topics	Koy Undatos
10/27/2015	Climate Change Mitigation - Update on Progress Towards Achieving Carbon Neutrality by 2020	Key opuales
10/28/14	Climate Change Mitigation - Update on Progress Towards Achieving Carbon Neutrality by 2020	Updated the Board on specific climate change adaptation related efforts in Attachment 2 of the Board Agenda Memo
07/8/2014	Flood Protection and Climate Change	Updated the Board on climate impacts on precipitation and sea level rise and recent flood protection related projects
11/26/2013	<u>Global Climate Change -</u> <u>Adaptation</u>	Updated the Board on climate change impacts and adaptation efforts
1/29/2008	Work Study Session on Climate Change and Water Resources in Santa Clara County	Adopted a resolution on climate change and water resource management in Santa Clara County

### **Board Policies Direction - Adaptation**

## **CEO Interpretation:**

Strategies: S 2.7, 3.4, 4.6

Incorporate climate change mitigation and adaptation into District planning efforts.

Attachment 1

#### Adaptation Activities for Water Supply

Our long term planning continually develops and improves resilient and adaptable water supplies and strategies and considers changing conditions.

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#### Adaptation Activities for Water Supply

# Climate change and long term water supply plans:

- Updating our 2012 Water Supply and Infrastructure Master Plan in 2017, which will continue to develop elements that adapt well to future climate changes
- Addressing water utility infrastructure vulnerability in the Infrastructure Reliability Plan update 2015











#### Adaptation Activities on Ecosystem Resiliency

Restoration and enhancement projects which provide benefits to habitat and local species:

- Improving vegetative communities for local wildlife,
- Increasing native canopy cover and CO2 sequestration to ward off climate change,
- Increasing in-stream shading to lower water temperatures for fish,
- Enhancing habitat connectivity important for migration,
- Utilizing adaptive management strategies to more readily address changing climatic and habitat conditions in the future

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#### Knowledge Activities on Adaptation

#### **Data Acquisition**

- Technical Services Contract with SCU to downscale Global Climate Models (GCM's) to Key Locations in Santa Clara County
  - Preliminary Temperature and Precipitation data provided.
  - SCU and District Staff are Reviewing Final Product
  - Intent is to use downscaled data in District Water Supply and Flood Protection Models to Estimate Potential Future Changes
  - As Predicted, the Models Show Significant Temperature Increases
  - Precipitation Data Under Review



