

Presentation # 3

Urban Technical Methodologies and Compliance Year Adjustments

DWR has been assigned the task of developing technical methodologies and compliance year adjustments for the measurements used in calculating urban water use targets. The 6 baseline measures and 3 compliance year adjustments are listed below. DWR through the listening sessions is seeking input on how the technical methodologies and compliance year adjustments should be developed.

- **Gross Water Use**

Defined in SBx7-7 as the total volume of water treated or untreated entering the distribution system of an urban retail water supplier

Gross Water Use= (Total Water)-(Recycled Water)-(Ag Water)-(Storage)-(Transfers)

Questions: Are there water suppliers who are not able to measure their total water production?

Are there instances when the distribution system is not well defined?

- **Service Area Population**

Questions: What definition of population should be used?

What issues have water suppliers had in estimating service area population for urban water management plans?

- **Baseline Daily Per Capita Use:**

(Gross Water Use) ÷ (Service Area Population)

Technical Methodologies specifically for Target Method 2

- **Baseline Commercial Industrial and Institutional Water Use**

Defined as a water supplier's base daily per capita water use for commercial, industrial and institutional water users.

Questions: Are suppliers able to separate their CII meter accounts?

- **Landscape Area Water Use**

- Landscape irrigated through dedicated or residential meters or connections
- Supplier shall use satellite imagery, site visits or other best available technology to develop an accurate estimate of landscape area

*Questions: What are some other technologies that could be used other than imagery or site visits?
Since SBx7-7 requires that landscaped area be calculated only for the area irrigated through dedicated landscape or residential meters, does the estimate of landscape area have to be done on a parcel by parcel basis?*

- **Indoor Residential Water Use**

Calculated on a gallons per capita per day basis

Questions: What are the different methods water suppliers have used to estimate indoor residential water use?

Criteria for Compliance Year Adjustments

- **Differences in ET and rainfall between the compliance year and baseline period**

*Questions: How should the compliance year ET be normalized to the baseline period?
What percentage of rainfall should be considered as effective precipitation?*

- **Substantial changes in CII from increased business output and economic development**

*Questions: What should be considered a substantial change?
What measure should be used to gauge business output and economic development?*

- **Substantial changes in institutional water use due to fire services or other extraordinary events**

Questions: What should be considered a substantial change?

Section 10608.20(h) of the Water Code requires DWR as follows:

(h) (1) The department, through a public process and in consultation with the California Urban Water Conservation Council, shall develop technical methodologies and criteria for the consistent implementation of this part, including but not limited to the following:

(A) Methodologies for calculating base daily per capita water use, baseline commercial, industrial, and institutional water use, compliance daily per capita water use, gross water use, service area population, indoor residential water use, and landscaped area water use.

(B) Criteria for adjustments pursuant to subdivisions (d) and (e) of Section 10608.24.

(2) The department to this subdivision on its Internet Web site, and make written copies available, by October 1, 2010. An urban retail water supplier shall use the methods developed by the department in compliance with this part.

Section 10608.24(d) and (e) are as follows:

(d) (1) When determining compliance daily per capita water use, an urban retail water supplier may consider the following factors:

(A) Differences in evapotranspiration and rainfall in the baseline period compared to the compliance reporting period.

(B) Substantial changes to the commercial or industrial water use resulting from increased business output and economic development that have occurred during the reporting period.

(C) Substantial changes to institutional water use resulting from fire suppression services or other extraordinary events, or from new or expanded operations, that have occurred during the reporting period.

(2) If the urban retail water supplier elects to adjust its estimate of compliance daily per capita water use due to one or more of the factors described in paragraph (1), it shall provide the basis for, and data supporting the adjustment in the report required by Section 10608.40.

(e) When developing the urban water use target pursuant to Section 10608.20, an urban retail water supplier that has a substantial percentage of industrial water use in its service area, may exclude process water from the calculation of gross water use to avoid a disproportionate burden on another customer sector