

## Reporting Proposal for Energy-Water Nexus Measures Work Paper

Energy Division’s Energy Efficiency Data Management and Reporting team was asked to work with Water-Energy stakeholders, including IOU program managers, to propose a method for reporting savings claims for “embedded” energy savings derived from water-savings measures. The overarching goals were to:

1. Minimize changes to the current EE program tracking claims reporting structure;
2. Minimize unnecessary fields which result in excessive 'blank' values for non-water measures;
3. Allow very clear alignment of the resource measure (i.e. low-flow showerhead) and the water-energy measure.

After a discussion with the water energy working group, where the team learned details about an upcoming work paper submission by PG&E, it was determined that an appropriate reporting approach would be to create a secondary measure for the embedded savings associated with the water measure. While the water measure reports on-site energy savings, this secondary measure would solely report embedded savings.

To capture the relationship between the on-site savings and embedded savings from a water measure, the team created a WaterMeasure table, which, like the CustomMeasure and DeemedMeasure tables, has a 1-to-1 relationship with the Claim table.

Table 1. Proposed Water Measure Table

WaterMeasure	
	ClaimID: nvarchar(255)
	WaterMeasCode: nvarchar(255)
	WaterSavingsProfile: nvarchar(255)
	HydrologicRegion: nvarchar(255)
	WaterSector: nvarchar(255)
	WaterUseCategory: nvarchar(255)
	Gallons: float(53)
	AvgAnnualIOUkWh: float(53)
	AvgAnnualNonIOUkWh: float(53)
	AvgAnnualTherm: float(53)

Each Claim requires either a CustomMeasure or a DeemedMeasure record, and water-saving measures can be either Deemed or Custom measures. Claims that are water-saving measures also need a WaterMeasure 'sister' record, linked by the ClaimID. The WaterMeasure table contains the key inputs and outputs from Navigant's Water-Energy Calculator.

The process of adding this table to the EE program tracking specification would follow adopted change management guidelines, and the reporting team already has a list of proposed specification modifications for 2017 claims to which this would be added once agreed upon by the working group.

## Questions for stakeholder consideration

Before adding this WaterMeasure table to the EE program tracking specification, the team has some threshold questions for energy water stakeholders:

1. Does this approach seem reasonable; if not, what modifications should be considered?
2. Does the table capture all of the appropriate fields?
3. Is there a reason why the calculator does not produce kW savings;
  - a. Should kW be added to the table? Are kW savings available for reporting?
4. Is there a reason why the water calculator provides AvAnnualTherms as a savings field for embedded water/energy savings?
  - a. This question will not impact the proposal necessarily; just informational.

Please send comments to this proposal Rory Cox at [rory.cox@cpuc.ca.gov](mailto:rory.cox@cpuc.ca.gov) by COB November 30.