

Water - Energy Calculator



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Agenda

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- Current Water – Energy Calculator
 - Background
 - Development process
- Update
 - Goal(s)
 - Process
 - Questions to Consider
- Next Steps

Current Water – Energy Calculator

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- Background

- ❑ Commission-adopted the Water-Energy Calculator in 2015
- ❑ Developed by Navigant Consulting and GEI Consultants
- ❑ Calculator for estimating embedded energy savings associated with water efficiency measures
- ❑ Calculator is based on regional (not water utility-specific) default marginal water supply (and thus energy intensity estimate) but allows for customization

Current Calculator: Development Process

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- Process began with a water-energy Project Coordination Group (PCG) with invited stakeholders convened by the CPUC
 - Provided feedback on Navigant team's methodology and marginal supply analysis.
- CPUC hosted two formal public workshops in April and July 2014 to get feedback on the Water-Energy Calculator and the Avoided Cost Model

Update Process

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- Group D EM&V consultants
 - SBW Consulting (Bing Tso, former Cal TF member)
 - Pacific Institute (Heather Cooley et al)
- CPUC lead: Jessica Allison
- Goal is to improve the utility and function of the Water-Energy Calculator
 - GIS overlay for the IOU service areas and hydrologic regions;
 - Make model more user friendly by, for example, eliminating two-stage calculations;
 - Simplify changing resource balance year and marginal supply while addressing other known issues;
 - Connect Calculator to DEER; and
 - Update user manual and documentation.

Current Status

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- Working with CPUC to develop a detailed work plan and timeline
- Stakeholder engagement will be an important element of update

Questions for Cal TF Consideration

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- How can this process be coordinated with CEC/POUs so result can be used by and supported by all (statewide consistency)?
- Who are other stakeholders and experts in state who should be involved?
- How else can Cal TF support process and/or the consulting team (SBW and Pacific Institute)?