

## DOCKETED

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## **15-WATER-01 Question Responded**

See Attached Document for Review

*Additional submitted attachment is included below.*



***Input requested by Energy Commission concerning the WET program driven by Order B 29 15***

We are pleased to share a direction of collaboration between Agencies and Customers, be it rural Ag or urban Industrial or remote Disadvantaged. The Seco Sys model allows for real-time, Cloud based measurement of water flow in any pressurized system. Now, landscape firms will communicate with building owners on water use reductions, freeway landscapes can be monitored and reaction to water line breaks will be reported and the system shut off automatically. Ag well water can be measured based on flow or time. Flow data can finally be cataloged for decades to come on the Platform.

Conservation cannot be achieved unless data is available and shared. For the first time, water use after the meter is realized. And low volume leaks are discovered on the customers' side of the meter.

Seco Sys is lining up interested parties to conduct an installation of 500 Seco Sys units to reduce water use with New, Cutting Edge Technologies (developed and manufactured in California). We are soliciting partners such as Water Agencies, national chain operations (coffee shops) that use significant amounts of water as well as government entities that cannot adequately determine their water use in a timely manner. The latter is not uncommon.

***What emerging technologies should be considered that provide direct on-site E, H2O and GHG savings for each sector?***

Real-time, on-site flow reading, Cloud collecting data for cataloging purposes and automatic reaction to water issues will reduce expenditures in man hours to collect field data. In addition to labor cost and fleet savings, specific water users will be able to shut-down their meters as needed or required. Data can be shared between the owner of the well or water meter with the firms using the water for their activities. Interior flood damage will be minimized or totally prevented.

***What rebate levels would be appropriate?***

As the landscape market approaches 2, or maybe 1 day a week allowance for irrigation, sprinkler controllers on rebate lists cannot do justice in making an intelligent water schedule as they were designed to do. Essentially, they are dumb controllers, again.

But active water flow should/must be managed. Rebate: 50% of the cost of the unit and labor to install. The remaining 50% to be borne by the water meter owner at approximately \$900.00 per unit.

***What Grant Amounts would be appropriate for customized projects?***

Working with up to 10 water agencies throughout the state to install 50 units on residences, commercial ventures, and public works roadways in order to catch leaks, react to breaks and assist water managers in understanding real time water use approximately \$1,500,000.

Well water monitoring on wells less than 4" in size, including disadvantaged community wells; TBD.

***How can WET Program bring benefits to disadvantaged communities?***

Seco Sys platform can integrate with well depth, recharge rates and accumulated water flow based on time or GPM / GPH automatically. All of this reported and data stored from here to beyond.

***What are main barriers?***

Historically, the problem has been new technologies take the back seat to conventional programs delivered by same consultants year after year. Thankfully for California innovators, Order B 29 15 specifically calls for New and Cutting Edge Technologies. Seco Sys has been demonstrated to work and has been placed on a water authority's rebate in the last month.

***Broadband or Internet availability?***

This is addressed with the Seco Sys platform. Currently using a GPRS, but inputs for standard Spread Spectrum radio is being uncovered. Seco Sys has ability to work within IEEE standards of communication using other radio to Ethernet technologies. This could be a line item in a disadvantaged community grant program working with local community members to install, program and catalog data.

***Operational / Regulatory / Other Constraints?***

None foreseen.

***Pre & Post Data issues?***

Not a problem, working with water meter owners / water agencies, past year's data is available and new data would be collected from minute one when the Seco Sys Platform is installed.

Note, some large governmental agencies have found it difficult to locate past water use, but that is an internal problem that can be solved with their own research.

Well water use may not be available unless a meter has been tracking water extractions.