Nexus eWater

- Integrated, Whole-Home solution
- Treats water for wider uses (non-potable)
- NSF-350 certified - for above-ground use and toilet flushing
- Add-on Energy Recycler to reduce GHG emissions

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A brief history of grey water in California

1. **Pre-2008: Guerilla Greywater use rampant**

2. **2008 - Lowenthal bill**
   - OK’ed residential/SFH reuse of untreated grey water
   - Incorporated in 2010 Building Code
   - Must use grey water within 24 hours
   - Sub-surface irrigation only

3. **2013 - Building Standards Code**
   - Created new water: “On-site residential treated grey water”
   - Must certify to NSF-350
   - Any kind of irrigation - spray, veggies ok; + toilets

4. **2015 - Drought Imperatives and Mandates!**
   - **Draft CalGreen Building code** -
     - Defines on-site water recycling and promotes Zero Potable Water for Irrigation
     - Creates stretch goal of “Zero Potable Water Use” in Landscapes
   - **Draft Model Landscape Ordinance - Exempts many landscapes if they use on-site water reuse**
NEXtreater

HOW IT WORKS
Foam removes most of the contaminants

50 min

Recirculation

Removal of hair & solids

Bubbles

Ozone

$O_3$
New batch begins

Carbon contact

.35 micron filter

UV bulb

O₃
Energy use equivalent to a refrigerator
Monitor in real time!
Side view of Recycle Ready
Keys to Installation & Retrofitting

- Plumb grey water discharge lines and tanks during trenching and rough plumbing
  - Need access to plumbing (raised foundation best)
- Grey water and sewer line must exit in proximity
  - Need room for in-ground tanks
- Install and commission NEXtreater as final step
- Cleaned water tank becomes sole source of water to irrigation
  - Site in proximity to irrigation valves
  - Irrigation and toilets not connected to drinking water supply
- Multiple installation locations
  - In garage
  - In side yard
Next Steps

- Would you build a new home without grey water system?
- Would you do a major retrofit to implement grey water in your home?
- How much would you be willing to pay per month for a whole-home grey water solution?
  - $10 /month
  - $50 /month
  - $100 /month
  - $200 /month
- Let bob@nexusewater.com know your answers