



meline engineering specialists in sustainable energy systems

Meline Engineering Newsletter

April 2012

Meline Engineering Making the News!

Sustainable energy projects have been a hot topic recently. In the April 2, 2012 issue of the North Bay Business Journal, Meline Engineering was noted in an article featuring the rise in the use of geexchange systems in the North Bay. To view the article please visit:

[North Bay Business Journal](#)

Sacramento Habitat for Humanity and Meline Engineering were featured in the April 13, 2012 issue of the Sacramento Business Journal for their work on the LEED certified homes built on 21st Avenue in Sacramento. To view this article please visit:

[Sacramento Business Journal](#)

Meline Engineering is also mentioned in the April 2012 issue of Contractor Magazine, which features the Sunnylands Center and Gardens project in Rancho Mirage, CA. To view this article please visit:

[Contractor Magazine](#)

Updates:

IGSHPA Closed Loop/Geothermal Heat Pump Systems Design and Installation Standards - 2011 Edition



The biggest change in the standard is the requirement to pressure test all ground heat exchangers with water at 100 psi for a minimum of 1 hour with a change in pressure of no more than +/- 10%. This brings the standard into alignment with the International Mechanical Code requirement for pressure testing ground heat exchangers. It also gives contractors and engineers a specific pressure and allowance to work with since the change in pressure of exposed HDPE (high-density polyethylene) pipe is greatly influenced by the ambient air temperature since the pressure test is

performed BEFORE the ground heat exchanger is buried. For colder climates, an exception is provided allowing a 45 psi minimum air pressure be maintained in the ground heat exchanger pipe during backfilling. Once buried, the system must be filled with water and pressure tested to 100 psi as described above.

Meline Engineering Open House

Meline Engineering's Open House was a great success! Thank you to everyone who was able to attend and tour our new office. We are also happy to announce that a \$1,000 donation was made to Sacramento Habitat for Humanity on behalf of everyone who attended the Open House. For those who were not able to attend, we hope to see you at the next event!

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