

- (1) What is the deadline for submitting applications for grants described in your webinar on February 6? I would like to obtain a grant to demonstrate a beneficial reuse for WTE fly ash. Thanks.

- Dominic

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- (2) At your February 6 presentation, you announced a grant program to demonstrate improvements in our recycling infrastructure for glass, fibers and plastics. Please consider expanding the grant program to include recycling WTE fly ash in the production of a "low-carbon" cement.

DMI in Oxnard, California has developed a cement additive called NeoPozz, which includes WTE fly ash. NeoPozz can be used to reduce the amount of Portland cement normally used to make concrete. For this reason, concrete made with NeoPozz is called low-carbon (LC) concrete. When LC concrete is used instead of conventional concrete, the GHG emissions associated with the construction project are reduced. Because the amount of NeoPozz used in the concrete is known, it is easy to calculate the avoided GHG emissions.

CalRecycle should seriously consider supporting a demonstration project in which LC concrete is used instead of conventional concrete. The reasons for doing so include:

- CalRecycle wants to end the practice of using WTE ash as alternative daily cover (ADC) at landfills, and up until now, there has been no demonstrated alternative beneficial reuse for this material.
- The size of the grant needed for a demonstration project is in the range of \$50,000 to \$100,000, which is a relatively modest investment when compared to your maximum grant amount of \$3,000,000.
- The demonstration project would provide a financial incentive to disadvantaged communities to use LC concrete instead of conventional concrete for non-structural uses such as repairs to streets, gutters, curbs and parking lots.
- These projects would provide jobs for contractors and city employees as they perform long-deferred maintenance projects while reducing GHG emission associated with concrete construction projects.
- Because cement and concrete formulations are tightly controlled, the avoided GHG emissions are easy to quantify, and they are permanent.
- The positive results of the demonstration project could be used to convince other communities throughout California to begin using LC concrete, and there would be a significant reduction in GHG emissions.
- Cement kilns in California, which are subject to the state's cap-and-trade program, would be able to reduce GHG emissions by using NeoPozz in their cement formulations.

Additional information may be found on the DMI website at  
<http://www.dmireadymix.com/products/view/dmi-low-carbon-concrete>.

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- (3) Back in June of last year, CalRecycle updated their AB 32 Scoping Plan for the Waste Management Sector. In several locations within the PowerPoint presentations and technical reports, CalRecycle pointed out the need for a way to beneficially reuse the ash produced by burning either municipal solid waste (MSW) or straight biomass. A summary of these comments is attached for your review.

Now that CalRecycle has money to provide grants and loans needed to facilitate improved recycling in California, the state has a significant opportunity to support a novel way to recycle the fly ash produced by combusting MSW. For this reason, I am hoping you will expand your support for recycling plastics, fibers and glass to include recycling WTE fly ash in cement.

Because the recycling process is more complicated than standard production procedures, it costs more to produce cement using WTE fly ash. Our goal is to use a grant to offset this additional cost so that concrete made with WTE fly ash is no more expensive than concrete made with standard Portland cement.

The greenhouse gas (GHG) reduction from using concrete made with WTE fly ash is significant, while the cost associated with promoting its use is relatively minor. This means that the cost per metric ton of avoided GHG reduction is very cost-effective.

Thanks again for your consideration.

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