



# DC WATER

## Washington DC

### FACTSHEET



#### Plant capacity and expected performance:

- 149 000 metric tonnes DS/year.
- 4 x 17 000 m<sup>3</sup> digester transport.
- 6 x 4 reactor Cambi THP
- 14 MW electricity + cogen steam for THP.
- Pasteurized product.
- Reduced energy for dewatering and transport.
- High performance digestion.
- More than half the original cake volume

[cambi.com](http://cambi.com)





## DC WATER, WASHINGTON DC

The Cambi process will produce biogas and high quality Class A biosolids fertilizer product, all to be built over a minimum area, saving on both investment and operational costs compared to conventional digestion. The biogas will produce green electricity for the plant; reducing its carbon footprint significantly. This is the single largest contribution so far to greenhouse gas reduction in Washington DC. The beauty of it all is that we are investing significantly less than we would for conventional digestion, and this choice will, in addition, save us some 20 million dollars in operational costs every year over many years to come, "said Mr. George S. Hawkins, General Manager of DC Water.

The major contract forming part of DC Water's \$400 million (USD) biosolids management program was signed as a Joint Venture between CDM and PC Construction. This design-build contract includes thickening, pre-dewatering, four trains of the Cambi thermal hydrolysis process and four digesters. In addition, a 14 MW biogas CHP powerplant contract is soon to be awarded, as well as a post dewatering facility contract.

The plant will reduce DC Water's carbon footprint by approximately 60 000 tonnes of CO2 per year. This will be achieved mainly through the generation of green energy, elimination of lime for stabilization, and reduced truck use for solids disposal and transportation.

The project has demonstrated the ability to feed digesters at 2-3 times conventional load and to make high quality fertilizer cake product.

The THP plant for DC Water will have a capacity for some 400 tonnes of dry solids per day, which will make it the largest THP plant in the world.

### The benefits of the Cambi process are:

- Compact digestion plant.
- Reduction in volume of cake to half of before situation.
- Energy consumption for dewatering
- Cost savings from green electricity production.
- Reduction of carbon footprint.



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