



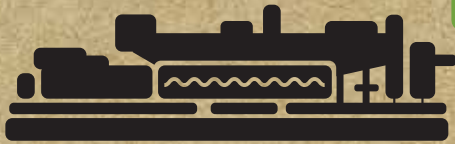
# GROWING A GREENER TOMATO

One of North America's largest greenhouse tomato growers, Houweling's Tomatoes, built the first combined heat and power (CHP) greenhouse project in the U.S. that captures carbon dioxide (CO<sub>2</sub>) for use in plant fertilization. Having successfully installed 3 engines with 13.2MW output in Camarillo, CA, Houweling's Tomatoes, Delta, BC facility will bring 2 engines (8.7MW) online in April 2014.

## NATURAL GAS



## JENBACHER J624



Two GE ecomagination-qualified Jenbacher J624 gas engines

## CO<sub>2</sub> FERTILIZATION PROCESS

CO<sub>2</sub> from the engine's exhaust is purified and piped into the greenhouse as fertilizer, diverting 21,400 tons of CO<sub>2</sub> yearly, equal to **yearly CO<sub>2</sub> emissions of more than 4,000 cars.**

## FROM WASTE TO VALUE

The process provides power, heat and CO<sub>2</sub> fertilization for Houweling's Tomatoes' 50-acres in Delta, BC.



## HEAT

Heat produced from the engines during power generation — more than 10.6 MW of thermal power — is captured in thermal storage tanks and used to heat the greenhouses.

## POWER

The gas engines provide 8.7 MW of electrical power — **enough for approx. 8,800 average homes** — to meet greenhouse needs and supply energy back to the community grid.



COMMUNITY POWER GRID



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