



California Energy Commission

DOCKETED

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TN 73350

JUL 10 2014



CEC Staff Workshop

"CHP to Support California's Energy & Environmental Goals"

July 14, 2014





HOUWELING'S HISTORY



Family-owned and operated

Greenhouse Farm Acreage

- Delta, BC – 50 acres
- Camarillo, CA – 125 acres
- Mona, UT – 28 acres ,





HOUWELING'S HISTORY



Houweling Innovations

- Pioneered large scale North American greenhouse production
- Designed and patented Ultra Clima greenhouse system
- Integrated sustainability technologies into regular business practices, including solar, water conservation and CHP technologies





CAMARILLO CHP INSTALLATION



USA's first greenhouse farm CHP installation

3 engine installation generates 13.2MW of electricity and 15.9MW of Thermal Energy

CO2 exhaust utilized for plant fertilization





CAMARILLO CHP INSTALLATION



Project Timeline

- January 2010 to July 2010 concept review & analysis
- March 2011 purchase decision
- August 2012 engine installation
- June 2013 interconnection
- July 2014 final billing from SCE on interconnection





THANK YOU!



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