

From: [Tony Laliotis](#)
To: [Smith, Laura](#)
Subject: RE: Energy Intensity for Homewood Water Supply/Conveyance
Date: Tuesday, November 24, 2009 10:11:26 AM

Laura,

The actual average annual energy requirements for the McKinney Quail Water Service area calculates to 2,320 kWh/MG. This is based on actual production and energy consumption data from the two different water sources supplying the system. Let me know if you need anything else.

Tony Laliotis
Director of Utilities
Tahoe City Public Utility District
(530) 583-3796, ext. 36
(530) 583-1475 Fax

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From: Smith, Laura [mailto:lsmith@jsanet.com]
Sent: Tuesday, November 17, 2009 8:00 AM
To: Tony Laliotis
Subject: RE: Energy Intensity for Homewood Water Supply/Conveyance

Oops, I sent that last email off without the attachment. Here it is.

From: Tony Laliotis [mailto:tlaliotis@tcpud.org]
Sent: Monday, November 16, 2009 9:37 PM
To: Smith, Laura
Subject: RE: Energy Intensity for Homewood Water Supply/Conveyance

Laura,

Currently, only the South Lodge facilities are served by TCPUD. The north lodge area is served by a private water purveyor.

As far as the McKinney Well for snow making goes, my understanding is they are installing a 125 HP pump to reach a capacity of 1000 gpm.

For domestic, the District pumps approximately 500 gpm from a 60 HP pump in the service area which serves HMR's South Lodge. This source accounts for about 55% of the service area total annual production. The remaining 45% of production comes from a secondary 60 HP pump with a capacity of 300 gpm pumping from lake level.

Based on .746 kW per horsepower, the theoretical kWh/MG would be quite a bit higher than 896. I am in and out of the office this week, but I will try to review our actual kWh/MG for both sources using actual power bills and production data. Let me know if you need anything else.

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From: Smith, Laura [mailto:lsmith@jsanet.com]
Sent: Friday, November 13, 2009 4:33 PM
To: tlaliotis@tcpud.org
Cc: jleroy@tcpud.org
Subject: Energy Intensity for Homewood Water Supply/Conveyance

Hi Tony,

I was referred to you by John at the PUD. I am currently working on the GHG analysis for the Homewood Mountain Resort EIR. I understand that the resort's consumptive water is supplied by TCPUD. Do you have any information on the energy intensity required to convey/distribute the water from the outlet? It is my understanding that consumptive water will originate from the McKinley/Quail Sub-district. Typically, I calculate GHG using the following equation:

Total Water Usage (25.6 MG/Year) * **Energy Intensity of Outlet (e.g. 896 kWh/MG)** * pounds CO2/kWh (information from NV Energy).

Water for snow making activities will originate from the McKinley well. Do you have any statistics on the energy required to pump water from this well?

Thank you in advance. If you have any questions, you can contact me at the number below.

Laura Smith
Air Quality and Climate Change Specialist

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