

Water-Energy

Sustainable Water Resources Roundtable

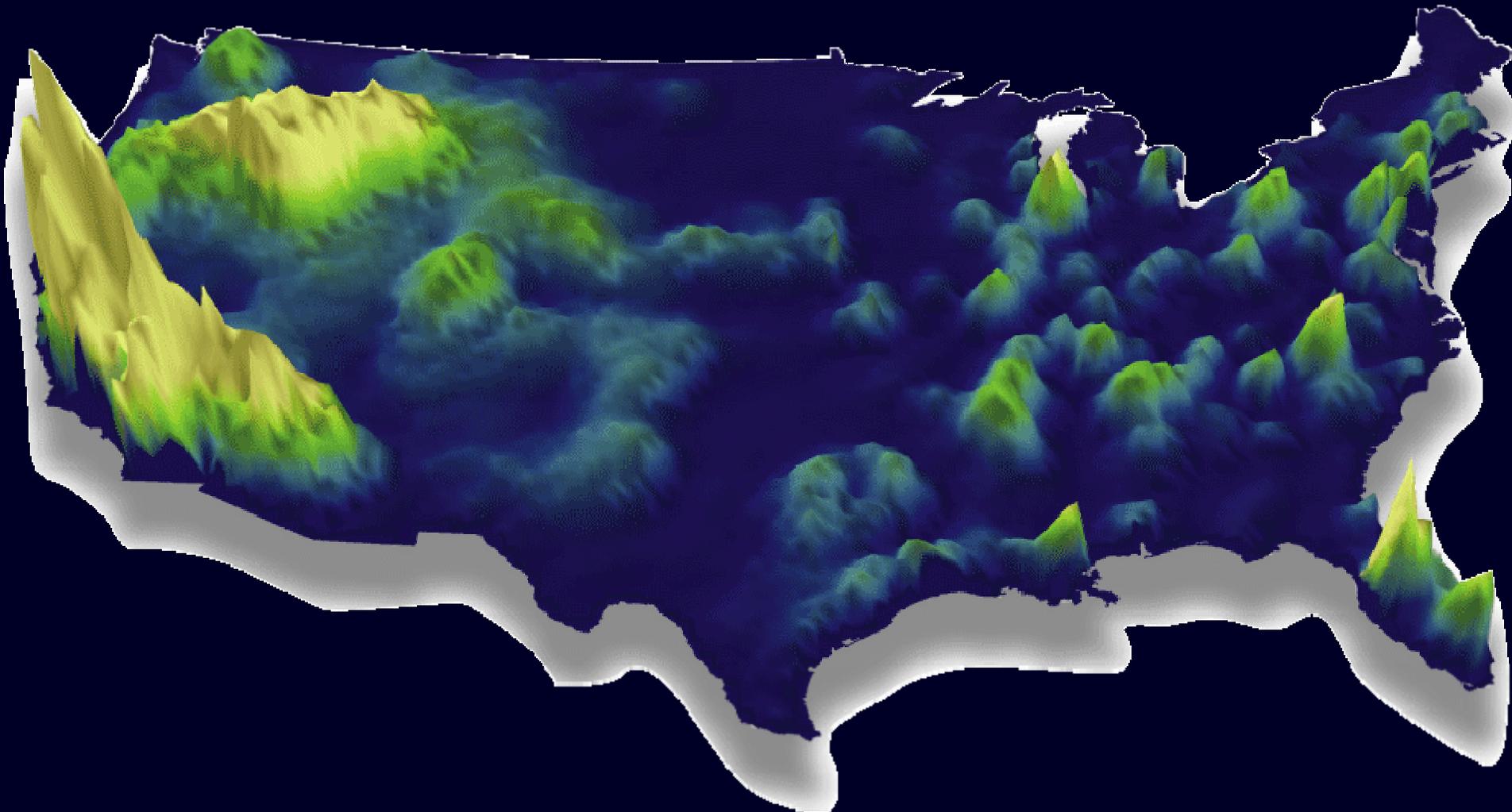
Washington D.C.
January 25-26, 2007

Robert Wilkinson, Ph.D.

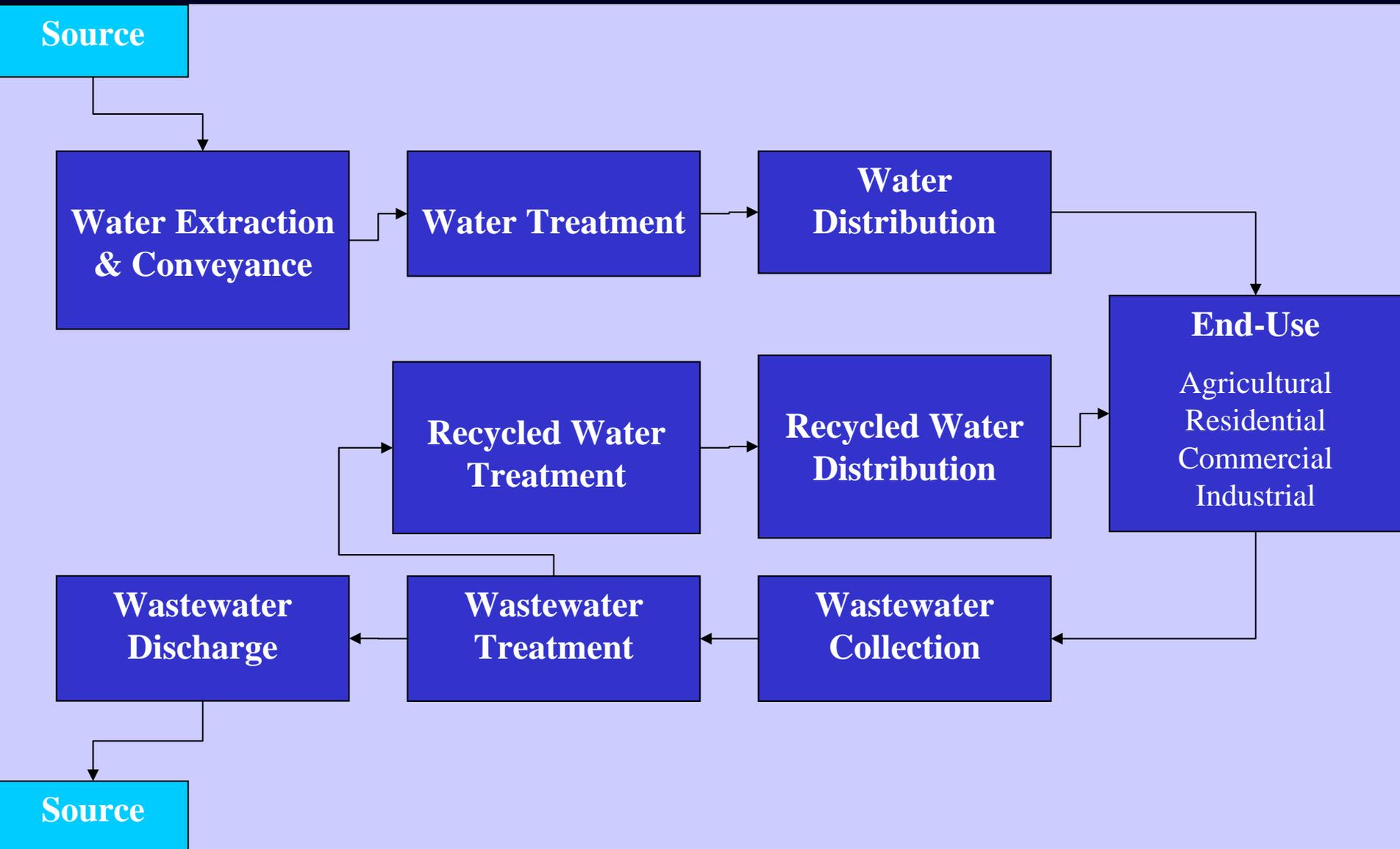
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Total Water Withdrawals, 2000



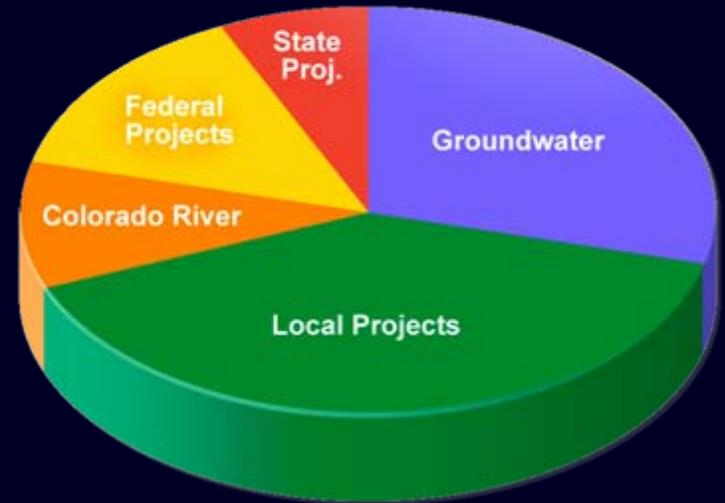
Energy Inputs to Water Systems



Pumping

Pumping water in each of these four stages is the primary energy input.

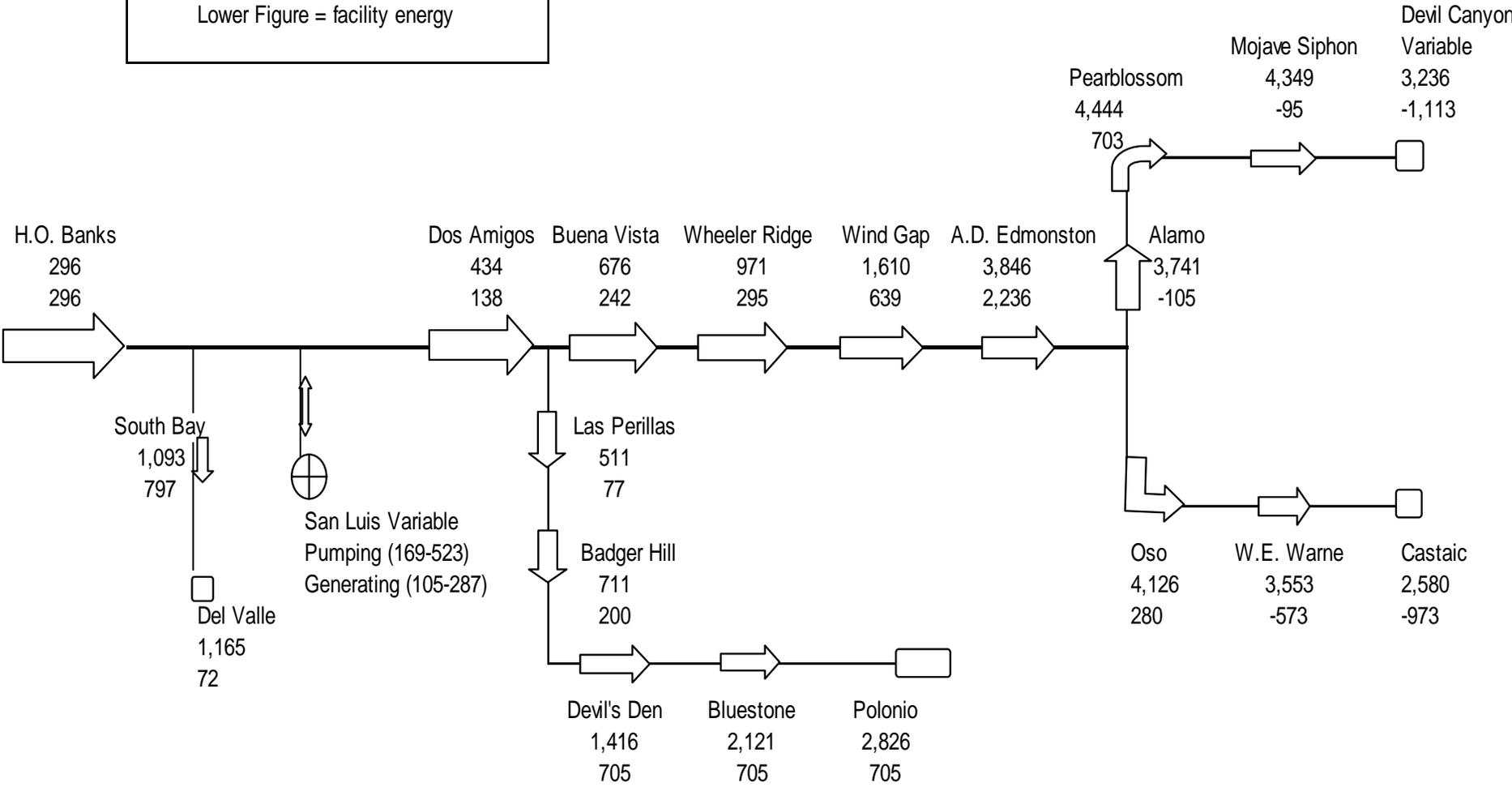
State Water Supply Systems



Lester Snow, California
Department of Water Resources



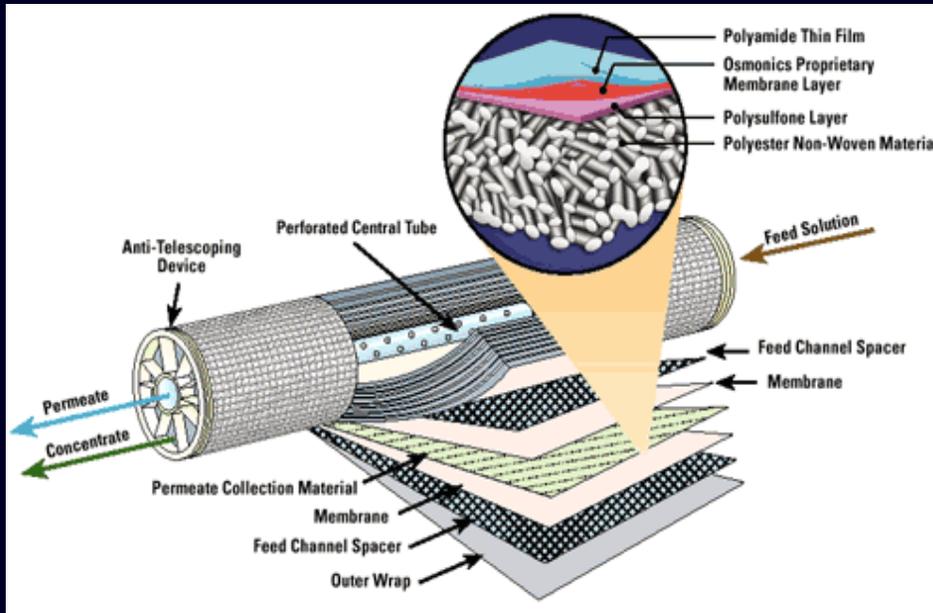
All figures: kWh/AF
 Top figure = cumulative energy
 Lower Figure = facility energy



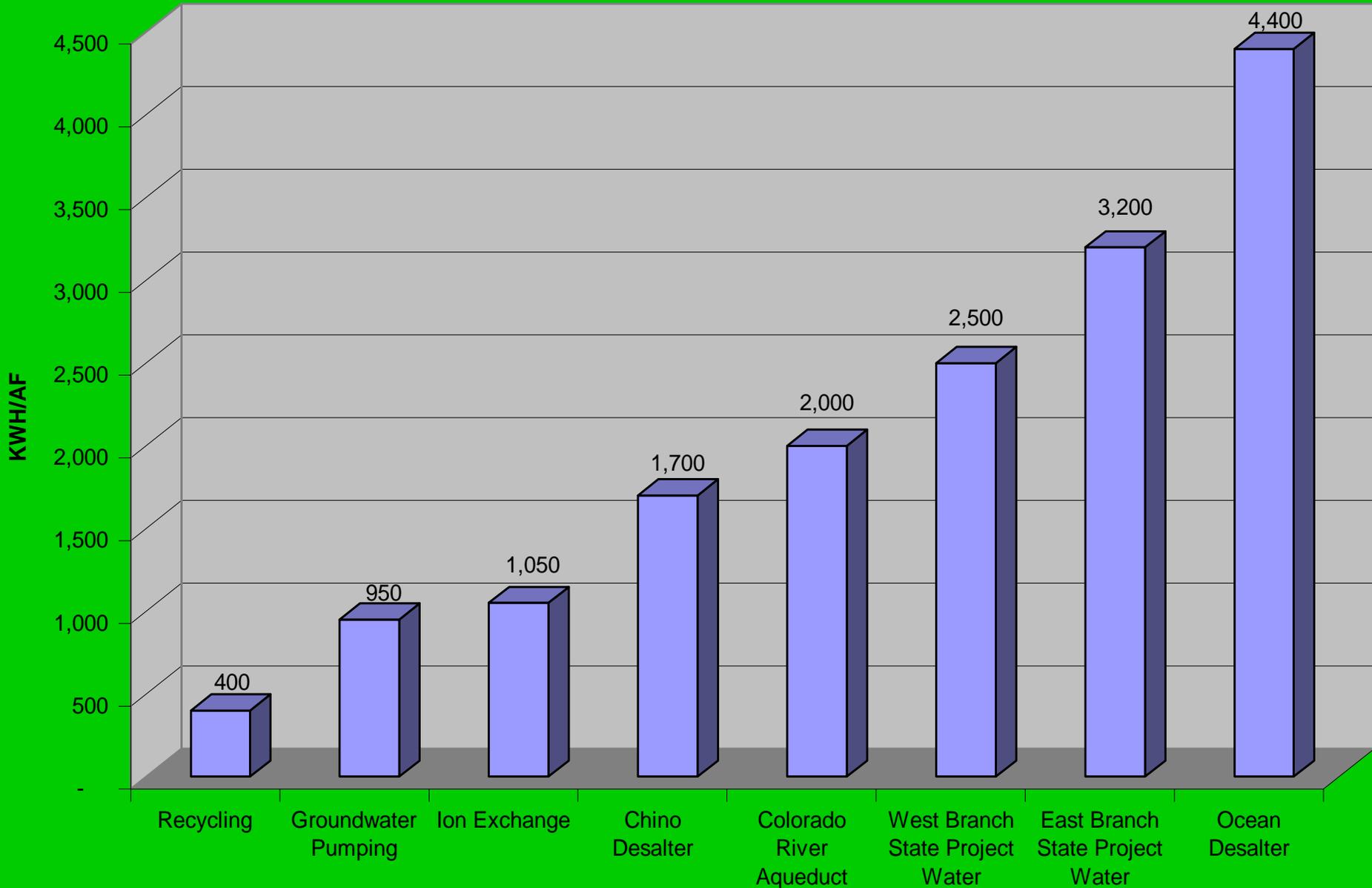
Energy requirements for marginal (e.g. imported) supplies of water in Southern California are 3,519 kWh/acre-foot.

(= 0.01 kWh/gallon).

Advanced Water Treatment



Energy Use by Source



California Water Supply Options

