Additional Data to Accompany "Hidden Potential," November 2008 WE&T

Carbon Canyon Recycled Water Energy Profile

Facilities	Energy per Delivery (kWh/AF)
Carbon County Water Reclamation Facility (a)	500
Local pumping to storage and distribution	100
Total Energy Required (kWh/AF)	600
Recycled Water Use (AF)	2,600
Estimated Energy Used (MWh)	1,560

⁽a) Source: CCWRF energy data obtained from personal communication with J.R. Dira (Jan 2008) Average for 2005-2007. City of Chino Hills energy data obtained from personal communication with Cheryl Yeamans (Jan 2008) Average for 2006-2007.

2004 Southern California Edison Electric Co. Emission Factor (lb CO₂/MWh)^(a)

Source	MWh	%	lb CO₂/ MWh	Total lb CO₂	Proportional
Hydro & Nuclear	18,784,000	25%	0	0	0
Coal	10,819,000	14%	2,000	21,638,000,000	282
Renewables	465,000	1%	0	0	0
System Purchases	46,554,000	61%	1,100	51,209,400,000	668
TOTAL	76,622,000	100%		72,847,400,000	
				950	

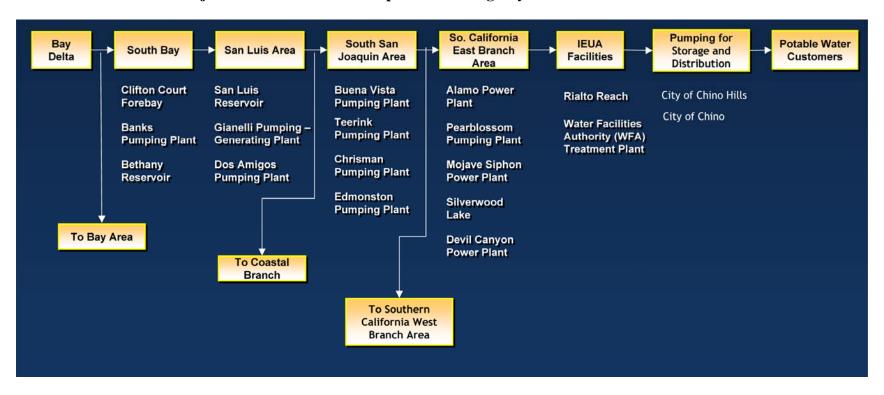
⁽a) At the time of this paper the 2005 energy and emissions data for SCE were not published.

2004 California State Water Project Emission Factor (lb CO₂/MWh)

Source	MWh	%	lb CO₂/ MWh ^(a)	Total lb CO ₂	Proportional
Hydro	5,072,000	52%	0	0	0
Coal	1,605,000	16%	2,965	4,758,825,000	483
System	1,866,000	19%	1,100	2,052,600,000	208
SCE Exchange	1,316,000	13%	950	1,250,200,000	127
TOTAL	9,859,000	100%		8,061,625,000	
Emission Factor =				818	

⁽a) Source: Coal emissions factor derived from: Clearing California's Coal Shadow From The America West, CEERT & Environmental Defense & Western Resources Advocates, 2005, page 3 table 2.1; and Management of the State Water Project, Bulletin 132-03 and 32-04, Table 10.2)

California State Water Project Facilities to Inland Empire Utilities Agency



Recycled Water Facilities to Carbon Canyon

