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Pump Station Location	Electric Utility	Total Load kW	Annual MW-hrs	GHG Intensity Factors (lbs/MW-hr)				Indirect CO ₂ e Emissions	
				CO ₂	CH ₄	N ₂ O	CO ₂ e	lbs/yr	MT/yr
Las Flores	SCE	378	3,311	702.44	0.029	0.00617	705.00	2,334,452	1,059
Gaviota	SCE	666	5,834	702.44	0.029	0.00617	705.00	4,113,083	1,866
Sisquoc	PG&E	1,237	10,836	641.35	0.029	0.00617	643.91	6,977,486	3,165
Russel Ranch	PG&E	864	7,569	641.35	0.029	0.00617	643.91	4,873,523	2,211
TOTALS								18,298,544	8,300

NOTES		
1. GHG Intensity Factors from CalEEMOD Version: 2016.3.1		
2. Global Warming Potentials (IPCC 2007, 100 years):		
CO ₂	CH ₄	N ₂ O
1	25	298
3. Calculations:		
lbs CO ₂ e =	Annual MW-hr x [Intensity Factor (CO ₂) x GWP (CO ₂) + Intensity factor CH ₄ x GWP (CH ₄) + Intensity Factor N ₂ O x GWP (N ₂ O)]	
Metric Tons =	lbs CO ₂ e / (2,204.6 lbs/MT)	

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Pump Station	480 Volt Line					4,100 Volt Line					Total Load (kW)
	Continuous		Intermittent		Average	Continuous		Intermittent		Average	
	(kW)	(%)	(kW)	(%)	(kW)	(kW)	(%)	(kW)	(%)	(kW)	
Las Flores	10	70%	56	30%	23.8	354	100%	0	0%	354	378
Gaviota	10	70%	61	30%	25.3	641	100%	0	0%	641	666
Sisquoc	119	70%	119	30%	119	1118	100%	0	0%	1118	1,237
Russel Ranch	10	70%	60	30%	25	839	100%	0	0%	839	864

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