

UPPER VALLEY COLLECTION AND RECYCLING IMPROVEMENTS (8/17/15)

Item	Value	Required by Current Regulation	Feasibility		Proposed Schedule	Cost	No Extension vs 10 Year Extension Rate Impacts					
			Usage	CUP Modification			No Extension			10 year Extension		
							% Rate Model	Years	Cost/year	Rate Impact	% Rate Model	Dep Years
Trucks												
CNG Fueling Station	NCGP BMP-4; COC T-12B; COSH CC1.K & CC6.A; Supports AB 32	No	Wide spread throughout Bay area	Yes	2016	\$1,000,000	100%	9	\$111,111	1.11%	0%	NA
19 Truck CNG Conversion	NCGP BMP-4; COSH CC1.K; Supports AB 32 goals	No	Wide spread throughout Bay area	No	2016 - 2018	\$772,000	100%	8	\$96,500	0.97%	0%	NA
19 Diesel Trucks	Fleet Replacement	No	Existing use	No	2016 - 2018	\$5,104,000	100%	8	\$638,000	6.38%	100%	8
MRF												
MRF Roof	NCGP BMP-10; Replacement	No	Replacement of existing roof	No	2016	\$100,000	100%	9	\$11,111	0.11%	100%	19
Solar (0.5 MW)	NCGP BMP-1; COC EE-3; Supports AB 32 goals	No	Wide spread throughout Bay area	No	2016	\$1,500,000	100%	9	\$166,667	1.67%	0%	NA
Food Waste Improvements												
Organics Mixing Barn	NCGP BMP-6 & BMP-18; COSH CC3.B; Supports AB 1826 & AB	No	In-use at Napa Recycling	Yes	2018	\$500,000	100%	7	\$71,428	0.71%	100%	19
Retention Pond Liner Retrofit	New Storm water Regulations	Yes	Common retrofit	No	2020	\$500,000	50%	5	\$50,000	0.50%	50%	15
Clover Flat												
Front Entrance Recycling Improvements	NCGP BMP-17; Recommended by Board in 2008	No	Typical Construction Activities	No	2018	\$1,400,000	50%	7	\$100,000	1.00%	50%	17
						\$10,876,000			\$1,244,817	12.45%		

CLOVER FLAT RESOURCE RECOVERY PARK IMPROVEMENTS (8/17/15)

Item	Value	Required by Current Regulation	Feasibility		Proposed Schedule	Cost	Rate Model Impact
			Usage	CUP Modification			
Electric Grinder (Replace Diesel)	COC EE-3; Supports AB 32 goals	No	Wide spread throughout Bay area	No	2016	\$700,000	0%
Biomass Gasification (1.0 MW)	NCGP BMP-1 & BMP-6; COC T-6 & EE-3; COSH CC1.F & CC2.F & CC2.G; Supports AB 32 goals	No	Newer technology, limited in US, wide spread in Europe	No	2019	\$5,500,000	0%
						\$6,200,000	

Value Notes:

1) AB32 - Global Warming Solutions Act of 2006 - Reduce GHG to 15% below 2005 levels by 2020.

2) Napa County has not adopted a Climate Action Plan to comply with AB32

3) Napa County General Plan Policy CON-65(e) and Policy CON-67(d) the consideration of GHG emissions in the review of discretionary projects and to promote and encourage "green Building" design. Best Management Practices (BMPs) to reduce GHG emissions

4) NCGP BMP-1: Napa County General Plan Best Management Practice -1, Generation of on-site renewable energy

5) NCGP BMP-4: Napa County General Plan Best Management Practice-4, Alternative fuel and electric vehicles in fleet

6) NCGP BMP-6: Napa County General Plan Best Management Practice-6, Vehicle Miles Traveled Reduction Plan

7) NCGP BMP-10: Napa County General Plan Best Management Practice-10, Energy Star Roof/Living Roof/Cool Roof

8) NCGP BMP-17: Napa County General Plan Best Management Practice-17, Recycle 75% of all waste

9) NCGP BMP-18: Napa County General Plan Best Management Practice-18, Compost 75% food and garden material

10) City of Calistoga has adopted a Climate Action Plan

11) COC T-6: City of Calistoga Climate Action Plan Objective T-6, Reduce residents vehicles trips outside the community for goods and services

12) COC T-12B: City of Calistoga Climate Action Plan Measure T-12B, Purchase City-owned vehicles powered by renewable energy sources where feasible

13) COC EE-3: City of Calistoga Climate Action Plan Objective EE-3, Support local efforts to utilize renewable energy

14) City of St Helena has adopted General Plan policies and action regarding Climate Change

15) COSH CC1.F: City of St Helena General Plan, Climate Change Implementation Action, establish programs to reduce vehicle miles

16) COSH CC1.K: City of St Helena General Plan, Climate Change Implementation Action, implement programs to assist business and organizations switch from fossil-powered fleet vehicles to renewable energy sources

17) COSH CC2.F: City of St Helena General Plan, Climate Change Implementation Action, support countywide energy generation efforts, increase local renewable energy generation

18) COSH CC2.G: City of St Helena General Plan, Climate Change Implementation Action, remove regulatory impediments associated with the generation and use of renewable energy

19) COSH CC3.B: City of St Helena General Plan, Climate Change Implementation Action, establish programs to achieve 75% organic waste diversion level by 2020

20) COSH CC6.A: City of St Helena General Plan, Climate Change Implementation Action, transition City fleets to vehicles powered by clean, renewable energy source

21) AB1826 Commercial Organics Recycling