Project Greenhouse Gas Emissions and Reductions Summary - New Wineries

The Napa County Climate Action Plan requires that staff calculate for all projects the GHG emissions in 2020 of all discretionary projects assuming "business as usual" (BAU) conditions, and that applicants reduce those emissions by 38%. The required 38% reduction in GHG emissions can be achieved through a combination of state level policies and programs, County level policies and programs, on-site project level actions and contributions to the Napa County GHG reduction fund. This sheet contains results of calculations completed to demonstrate that the project has achieved the required 38% reduction target in 2020.

Target Build-Out Year:

B Cellars P 12-00371

Project Name:

			ouilding, 2,057 s.f. tasting room,
&	22,950 s.f. caves, 13FTE s; 294,8	340 sf hardscape; 25 average T8	T; 860 pp/yr. marketing events.
			(MT CO2e)
A. PROJECT'S BAU EMI	ISSIONS IN 2020		224
Energy Use, M	obile, Area, Water and Wast	ewater, Solid Waste	208
Fugitive	Emissions from Winery Wast	ewater if applicable	15
Land Use Change (one	time loss in carbon stock + lo	oss in sequestration)	1
B. PROJECT'S TARGET	EMISSIONS IN 2020		139
62% of BAU En	missions (BAU - 38%)		
C. PROJECT'S TARGET	EMISSIONS REDUCTION	IS IN 2020	85
	s - Target Emissions (A-B)	/	
D. GHG REDUCTIONS I	FROM STATE LEVEL PRO	OGRAMS	19
D. GIIG REDUCTIONS	THOM STATE LEVELT NO	Energy	10
		Mobile	9
	* *	Other	TBD
		Land Use Change	
F. GHG REDUCTIONS F	FROM LOCAL PROGRAM	IS AND	25
PROJECT LEVEL ACTIO		Energy	25
THOSE CONTRACTOR	140	Mobile	
		Other	
Total Stock at 100 years (Re	eference): 69.74	Land Use Change	0.70
			*,
G. TOTAL GHG REDUC			44
State + Local +	+ Project (D + E); Compare to	Box C above	
H. PURCHASED IN THE	E NAPA GHG REDUCTIO	N BANK	41
Balance of rea	ductions needed to reach targ	get (C-G)	



Data Requition of Operational Characteristics for Residential, Commercial, or Industrial Projects

The Napa County Climate Action Plan requires that staff calculate the GHG emissions of all discretionary projects assuming "business as usual" (BAU), and that applicants reduce those emissions by 38%. This checklist identifies the data needed to complete the required calculations and allows applicants to select the emissions reduction measures they wish to use. Applicants may retain consultants to prepare their own calculations if desired. Default calculations will be based on the URBEMIS and Bay Area Air Quality Management District's BGM model, as well as standard factors for vegetation removal and retention/replacement.

Contact Information:

Name of project:	B Cellars Winery
Project address & APN:	701 Oakville Cross Road 031-070-026
Project contact name:	Harry (Duffy) Keys
Project contact e/mail:	duffykeys@bcellars.com
Project contact phone:	(858) 756-5614

Part A: Business As Usual (BAU)

1. Input for new construction or operations (or change in land use type)

Land Use Type	Square Feet	# of Units	Total Daily Trips	# of employees
Dwelling unit				
Warehouse				
Light Industrial (Wine Production)	5,989	1	29	11
Tasting Room	2,057	1	6	2
Retail				
Office				
Other (please explain):				
Total	8046	2	35	13

Refer to Table 3-1 of the BAAAQMD CEQA Guildinelines (2011) for other precurser screening levels

2. Site Development

Removal (One Time Emmissions)	Acres removed	Acres planted
Vegetation type		
Coniferous Forest	0 .	
Oak Woodland	0	
Riparian Woodland	0	
Shrub	0	
Vineyard	0.18	
Total acres of land	0.18	
New Site Improvements	Amount	Unit
Caves	22,950	Square feet
Grading	254,330	Square feet
Roads	54,940	Square feet
Parking	17,440	Square feet
Hardscape (anything paved)	17,130	Square feet
Landscape	14,190	Square feet
Total square footage of site improvements		
Size of wastewater lagoons	N/A	Square feet
Amount of groundwater	2,270,000	Gallons per year

Part B: Emission Reduction Measures

		amount	unit	yes	no
1	Are you a Napa Certified Green Winery?				X
2	Does the facility have alternative fuel vehicles in fleet?				x
3	If yes, what percentage of fleet?		%		
4	Has the facility already installed renewable energy on-site since 2005?				х
5	If yes, how much?		KW hrs.		
6	Do you intend to build to Cal Green* Tier 2				x
7	standards? Do you intend to build to Cal Green* Tier 3 standards?				x
8	Do you have areas such as a cave, or natural cooling, passive solar that will exceed 2005 Title 24 standards? Explain:			X	
9	If so, how many square feet?	22,946	Sq. Ft.		
10	What is the percent reduction of 2005 Title 24 standards for that		%		
11	If the project is a winery, does it propose any energy efficient equipment (i.e.: gravity flow rather than pumping, energy star appliances, etc)? Please list				>
12	If so, how many annual kilowat hours saved?		KW hrs.		
13	Do you intend to recycle more than what the local landfill provides, if so what percentage of reduction? Explain:		%		
14	Does the project intend to restore degraded habitat?				,
15	If so, how many acres?		acres		
16	Does the landscape plan include the planting of more than 6 shade trees within 40 feet of the southside or 60 feet of the westside?			x	
17	If so, how many trees?	28	trees		
18	Will the project replace more than a 2:1 ratio of trees on site, and if so how many additional?			x	
19	What specie?	variety			
20	Does the project connect to a munipical water source?				
21	Will the project rely on an onsite well?			х	
22	How many gallons of water per day is dedicated to domestic water use?		g/day		
23	How many gallons of water per day is dedicated to landscape?		g/day		
24	Will the project connect to municipal sanitary sewer system?				
25	Will the project have an on-site septic system?			x	

26	If so, how big are the proposed lagoons?	sq. ft.		x
27	Will the project have it's own treatment system? If so, explain:		x	
28	Does your project have bicyclce access and parking?		Х	
29	Does your employer have an employee transportation demand management plan with feasible commute incentives? If yes please provide example			х
30	Does the employer sponsor a van/pool shuttle for visitors? If yes, what percentage of visitation will use it?	%		х
31	Is the project requesting a parking reduction, if yes what percentage?	%		х
32	Does the parking lot provide a charging station for electrical vehicles?		x	
33	Other, please explain: Drought tolerant plants, barrel storage within, enhanced insulation	72-3-1-1-2		

Checklist of Voluntary Greenhouse Gas Emission Reduction Measures



An addendum to the Entitlement Application and a supplement for Initial Studies as required by CEQA

			PROJECT NAME	B Cellars Winery				
	C		PROJECT ADDRESS	701 Oakville Cross Road 031-070-026 Harry (Duffy) Keys				
	Sec.	IFORK!	APPLICANT					
		on of Stewardship		duffykeys@bcellars	(858)	614		
	A Comm	litment to Service	CONTACT INFO	email	phone	, , , , ,	.011	
					yes	no	I don't know	
1	Have y		B.C.™ LEED™ or Build It			I X		
2	Do you	ı have an integrated de	ase include a copy of their esign team?	equired spreadsheets.	Γ	ΙX	Ι	
		if yes, plea	ase list:	5.755.555.4500.4000.4000.4000.4000.4000.				
	OITE		de en					
3	3.1	DESIGN Does your design enc	ourage community gatheri	ng and is it pedestrian friendly?	X			ı
		Are you building on ex	xisting disturbed areas?		X			
	3.3	Landscape Design 3.31 native plan	nte?			T	T	i
			lerant plants?		X			
			ease resistant planting?		X]
			ant planting?	L-121-10	X	<u> </u>		
			estoring open space and/or arvesting rain water on site			X	X	1
		to the state of th	arge trees to act as carbon		X	 		
				r drive access and walking surfaces]
			include bicycle parking?		X			
	3.5 3.6	Service Control of the Control of th	Contract and Contract in Land Contract of the	tention/filration methods designed?	X	-	 	civil civil
	3.7	70 to 100		ural features, such as preserving e		s or rock ou	tcroppings?	CIVII
		_			Χ]
	3.8		mize the amount of site dis erall site design (such as ca	sturbance, such as minimizing grad	ing and/or u	sing the exi	sting	1
	3.9			atural cooling and passive solar as	pects?			J ,
		· ·		, , , , , , , , , , , , , , , , , , , ,	X	T	1	1
Λ	ENER	GY PRODUCTION & I	EEEICIENCV		Zan Stillen attack			ti
	4.1		e energy produced on site?		The second second	TX	T	1
		- 12 C	the size, location, and per	centage of off-set:				
	4.2	Does the design inclu	ude thermal mass within the	walls and/or floors?	I X	Т	T	1 cave
	4.3			of the building after it is built to ensu	re it perforn	ns as desig	ned?	Cave
		14.00					I X]
	4.4	Will your plans for co 4.41 High dens	onstruction include: sity insulation above Title 2	4 standards?		TV		7
				vide for maximum efficiency?	X	X	-	
			tar™ or ultra energy efficie		X	1		1
				or a permeable/living roof?		X eva	aborated cla	y tile roof
		4.45 Timers/tir If yes, please explain	me-outs installed on lights (such as the bathrooms)?	X			1
		ii yee, piedee expidiii						-
5		ER CONSERVATION	ingludo high officionou irri	action?	V			
	5.1 5.2	100 pt 10	e include high-efficiency irri e use zero potable water irri	1000-00000	X	 X		-
	5.3			apa Sanitation reclaimed water?	-	+^-	X	1
	5.4	Will your facility use	The same of the sa				X	
				stalling dual pipes and/or purple lin	es?		I X	
	5.5	Will your plans for co	onstruction include: o track your water usage?				ΙY	1
			er efficient fixtures and app	liances?			X	1
			the same of the sa	nethod, such as an on-demand pur	ip?			-
		554 - 15-	. I		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		X	1
		5.54 a timer to	insure that the systems ar	e run only at night/early morning?	X			1

noted to but	open to a data		yes	no	I don't know
5 N		RIAL RECYCLING			
	6.1	Are you using reclaimed materials?		I X	
	6.2	If yes, what and where: Are you using recycled construction materials-			
	0.2	6.21 finish materials?		ΙX	T
		6.22 aggregate/concrete road surfaces?		_ ^\	X
		6.23 fly ash/slag in foundation?			X
		,			
	6.3	Will your contractor be required to recycle and reuse construction materials as part of	f your conf	ract?	ΤX
	6.4	Does your facility provide access to recycle-			
		6.41 Kitchen recycling center?	Χ		
		6.42 Recycling options at all trash cans?	X		
		6.43 Do you compost green waste?	Χ		
		6.44 Provide recycling options at special events?	X		
	NATU	RAL RESOURCES			
	7.1	Will you be using certified wood that is sustainably harvested in construction?			l X
	7.2	Will you be using regional (within 500 miles) building materials?		l X	
	7.3	Will you be using rapidly renewable materials, such as bamboo?		X	
		Will you apply optimal value engineering (studs & rafters at 24" on center framing)?	X		
	7.5	Have you considered the life-cycle of the materials you chose?	X		
	INDO	DR AIR QUALITY			
		Will you be using low or no emitting finish and construction materials indoors-	reconstructive (News)		Television of Decknops
		8.11 Paint?	X		
		8.12 Adhesives and Sealants?	X		
		8.13 Flooring?	X		
		8.14 Framing systems?	X	1	
		8.15 Insulation?	X		
	8.2	Does the design allow for maximum ventilation?	X		
		Do you plan for a wood burning fireplace (US EPA Phase II certified)?		1 X	
	8.4	Does your design include dayling, such as skylights?	X		
	TRAN	SPORTATION DEMAND MANAGMENTMENT			
	9.1	After your project is complete, will you offer your employees incentives to carpool, b	ike, or use	transit?	
					I X
	9.2	After your project is complete, will you allow your employees to telecommute or have	e alternativ	ve work so	
					1 X
	9.3	Does your project include design features that encourage alternatives modes of tran	sportation.	such as	T V
		preferred parking for carpooling, ridesharing, electric vehicles?		-	X
		secured bicycle parking, safe bicycle access?		-	
	91	loading zones for buses/large taxi services? How close is your facility to public transportation?			
	3.4	Tiow close is your racinty to public transportation?			
0	Are th	ere any superior environmental/sustainable features of your project that should be no	ted?		
		ve - naturally climate controlled barrel storage			
1	What	other studies or reports have you done as part of preparing this application?			
		1			
		3			
		4			
2	16	r project involves on addition or modification in the building of modification in the building of the building	to im===		00000101100 -1
1		r project involves an addition or modification to an existing building, are you planning	to improve	energy c	
		ng space (such as insulation, new windows, HVAC, etc.)?			X
	if yes	, please describe:			
13	Once	your facility is in operation, will you:			
		13.1 calculate your greenhouse gas emissions?		1	I X
		13.2 implement a GHG reduction plan?			ĺχ
		13.3 have a written plan to reduce your vehicle miles traveled of your operation	ons and er	nployee's	commute?
		* 15% 3.* Well			I X
	_				
14		your project provide for education of green/sustainable practices? s, please describe:			I X
15	Any	comments, suggestions, or questions in regards to the County's efforts to reduce greer	nhouse gas	ses?	
		Form filed out by: <u>Jeff Redding</u>			

Please feel free to include additional sheets of paper as necessary.