#### MEMORANDUM

Date:	September 16, 2022
То:	John Hester, AICP, Chief Operating Officer, Tahoe Regional Planning Agency
From:	Kamryn Kubose, Long Range Planning Intern
Subject:	Climate Resiliency Code Amendments – Research and Recommendations

#### Purpose:

This memo is a result of extensive research of best practices for increasing climate resiliency in the Tahoe region. Recommendations from this memo promote sustainable development and climate resilience practices. The memo covers the following topics:

- Traffic congestion (VMT reduction)
- Energy conservation
- Energy generation
- Zero-emissions vehicles
- Waste diversion
- Sustainable construction and development
- Water conservation
- Carbon sequestration, forestry practices, and vegetation
- Adaptation and resiliency
- Workforce housing

This memo serves two purposes: 1) To inform TRPA's Climate Action Code Amendments Work Plan, which includes further stakeholder engagement and an organized phased approach to implementation of these recommendations; and 2) To identify strategies and actions for all organizations within the Tahoe region to take towards increasing climate resiliency.

### Methodology:

Methodology included internal and external research to uncover best practices for implementing potential climate code amendments specifically in the Tahoe region. Research was guided with these questions in mind:

- What climate code amendments have been most successful in other jurisdictions?
- What are considered priorities by our stakeholders?
- How can we prioritize our list of amendments to move them forward?

Internal research consisted of gathering input from various TRPA staff, including Long Range Planning, Transportation, Housing, Current Planning, Environmental Improvement Program, Research & Analysis, and External Affairs.

External research encompassed an analysis of best practices by other jurisdictions across the nation. Most of my findings pointed to cities and counties in California, Washington, Colorado, and New York as leaders of climate policies and programs.

Finally, to support and refine my recommendations, an online stakeholder survey was conducted to understand the needs and priorities for these proposed regulatory changes. Each code amendment idea block will indicate whether it was included in the survey and what the results were. The survey was sent to 97 stakeholders, ranging in the following occupations: government, utilities businesses, community-based organizations or nonprofits, developers, contractors, architects, engineers, and consultants. The survey questions and individual results will be added as an attachment to this memo. There were 24 total responses received: 10 from local governments/public services, 3 from nonprofits/community-based organizations, and 11 from private/development organizations. For more details about the methodology for survey analysis, please see Attachment 2.

From this research, some climate code amendment ideas were found to be best proposed as programs, partnerships, or BMP Handbook updates, rather than code amendments. This is reflected in each code amendment idea block.

### Next Steps:

After the survey results, research, and Sustainability Action Plan's goals were taken into consideration, the following areas are highlighted below as next steps for the Tahoe region and TRPA:

- Focus on reducing traffic congestion by increasing and promoting alternative transportation (bus, bike, walk, roll). This would have the most impact on reducing vehicle miles traveled and greenhouse gas emissions. Also, there seems to be a high level of support for this idea as well.
- **Promote water efficient landscaping**. Survey respondents ranked this idea as impactful and supportive. For example, collaboration between local governments and utility providers could offer cheap, but effective, faucet aerators as an easy way for residents to save money and conserve water. TRPA can consider a code amendment to require and enforce water efficient landscaping for all new construction. For example, TRPA can work with local landscape architects to create a list of banned water-intensive grass species and non-native plants.
- **Promote renewable energy.** Organizations in the Bason can work together to educate residents about renewable energy options. TRPA can provide exemptions from standards to better accommodate renewable energy installation. Although there are some concerns about snow in the winter, survey respondents ranked this idea as highly feasible, impactful, and supportive. Exemptions would allow those who want to utilize renewable energy to install systems on their properties.
- Facilitate the transition towards electric vehicles (EVs). Organizations in the Tahoe region can work together to educate residents about the benefits of EVs. TRPA can consider including design guidelines for EV infrastructure and provide coverage exemptions for charging stations.

- **Promote zero waste for temporary events.** Encourage reusables and "Bring Your Own" initiatives. TRPA can work with large event venues to determine how to phase in a zero-waste requirement on temporary event permits.
- **Continue focusing on workforce housing.** Promote increased density. TRPA can work with the counties in the region and architects to determine new height allowances.

### Table of Contents

How to read the Amendment Idea Blocks7
Topic Area: Traffic Congestion
Idea: Require snow clearing on multiuse trails8
Idea: Incentivize reduction of traffic congestion with travel to/from temporary events
Idea: Establish car-free zones in town centers11
Topic Area: Energy Conservation12
Idea: Limited coverage exemption for thick-walled structures resulting from efficient insulation12
Idea: Require all new structures to use tankless water heaters13
Idea: Establish requirements for efficient exterior lighting14
Idea: Provide coverage bonuses or bonus development rights as an incentive for energy-efficient design and use of alternative energy sources15
Idea: Require use of 'cool' materials to reduce heat island effect
Idea: Set a maximum energy budget for new construction and require mitigation for energy use beyond that budget
Idea: Require energy and water efficiency beyond building code requirements
Idea: Require benchmarking, auditing, and retrofitting of existing structures
Idea: Prohibit natural gas appliances in new construction and develop a rebate program to encourage gas-to-electric appliance conversion in existing construction23
Idea: Establish a maximum square footage size for residential units. Alternatively, create an excess square footage mitigation fee based on estimated excess carbon emissions
Topic Area: Energy Generation
Idea: Require parking lots of a certain size to include solar panels over carports
Idea: Provide an additional height allowance for roof-mounted solar and wind generation facilities 26
Idea: Provide a qualified permitting exemption for solar and wind generation installations
Idea: Provide design standard exemptions for roof-mounted solar
Idea: Provide coverage exemptions for ground-mounted solar
Idea: Set parameters for tree removal in support of solar installations
Idea: Provide exemptions from scenic corridor standards for renewable energy installations31
Idea: Identify appropriate locations for solar, wind, and geothermal installations and streamline permitting
Idea: Require Battery Storage33

Topic Area: Zero-Emission Vehicles	ļ
Idea: Exempt EV charging stations from coverage requirements	ļ
Idea: Clarify that electrical vehicle charging is an allowed shore zone use within a marina35	5
Idea: Clarify that electrical vehicle charging can be accessory to commercial, tourist accommodation, and public service uses	5
Idea: Require electric vehicle charging stations for parking lots of a certain size	7
Idea: Clarify design guidelines for EV stations (parking requirements, color, signage, snow, etc.)38	3
Idea: Provide qualified permit exemption for electric vehicle charging stations	)
Idea: Require existing marinas to install watercraft charging stations	)
Idea: Require rental car companies to only rent hybrid or EV vehicles41	L
Topic Area: Waste Diversion	<u>)</u>
Idea: Identify appropriate locations for a food waste digester and ensure that it is a permissible use there42	<u>&gt;</u>
Idea: Require certain uses divert their food waste43	3
Idea: Require or incentivize zero-waste for temporary event permits	ļ
Topic Area: Sustainable Construction and Development	5
Idea: Streamline construction material requirements to allow for the use of recycled materials in construction45	5
Idea: Encourage additional energy and water efficiency standards for buildings (example: LEED certification)47	7
Idea: Require that buildings are solar-ready, use passive solar / Require new construction to be 100% electric	3
Topic Area: Water Conservation	)
Idea: Remove code barriers to greywater systems and rainwater harvesting	)
Idea: Require water-efficient landscaping51	L
Idea: Incentivize retrofit of inefficient plumbing53	3
Idea: Require that water companies meter each connection and charge tiered rates54	ļ
Topic Area: Carbon Sequestration, Forestry Practices, and Vegetation	5
Idea: Allow for community gardens, limited agriculture, and community parks on residential lots55	5
Idea: Require the planting of street trees for development in Town Centers	7
Idea: Streamline code requirements to facilitate forest treatments in stream environment zones and riparian areas	3

Idea: Provide design, height, and/or scenic exemptions for green roofs	
Idea: Develop a mitigation program to offset lost carbon sequestration due to tree removal	60
Topic Area: Adaptation and Resiliency	61
Idea: Allow for fee in lieu of BMPs to fund area-wide BMP green infrastructure	61
Idea: Incentivize energy backup systems (battery, propane generators)	62
Idea: Require home hardening on new construction and major remodels within the WUI	63
Idea: Code amendments adapting to increased flood risk and promoting infiltration through sit area-level infiltration	e- and 64
Workforce Housing	65
Idea: Limited coverage exemptions for workforce housing	65
Idea: Limited increases to density or density exemptions for workforce housing	66
Idea: Additional height allowances for workforce housing	67
Stakeholder Survey Questions	
Stakeholder Survey All Category Results	75
Stakeholder Survey Comments	77
Attachment 1: Methodology for Survey Analysis	
Attachment 2: Reference Links	

### How to read the Amendment Idea Blocks

Idea: This is the amendment idea. It originated from internal TRPA discussions.					
Priority: The priority lev	<b>Priority:</b> The priority level is determined by the ALL Category survey results and research. It will be				
listed as Short-, Medium	n-, or Long-term.				
Examples (Codes,	Examples include	other jurisdictions'	code language, inn	ovative programs,	
Programs, Resources)	and resources that	t may be applicabl	e to the Tahoe regio	on.	
Survey Results	The survey results	s are broken dowr	n into ALL Category	y summarized results,	
	government/publi	c service responde	nt results, nonprofit	ts (NGOs)/community-	
	based organizatio	ons (CBOs) respor	ndent results, and	private/development	
	organizations resp	ondent results. Nu	mbers will be highl	ighted orange, yellow,	
	or green to symbo	olize how it ranke	d compared to oth	er amendment ideas.	
	Some amendment	ideas were not in	cluded in the survey	v and are marked with	
	"N/A." Numbers v	vritten in parenthe	esis indicate the rej	ference, which can be	
	found at the end o	of this memo.			
	Please note tha	it the ALL Cate	egory results are	considered in the	
	recommendations	and priorities. Th	he 3 other stakeho	older breakdowns are	
	included for reference only and are not a fair representation of those				
	stakeholder groups.				
		Ę	00	<u> </u>	
	(ALL)	a a a a a a a a a a a a a a a a a a a	683		
	$F = \frac{12.75}{12.75}$	F =	F =	F =	
	1 = 5.00	=		=	
	$S = \frac{2.90}{2.90}$	S =	S =	S =	
	SCALE	SCALE	SCALE	SCALE	
	F = 0 - 18	F = 0 - 7.5	F = 0 - 2.25	F = 0 - 8.25	
	I = -6 - +6	1 = -2.5 - +2.5	I = -0.75 - +0.75	1 = -2./5 - +2./5	
	S = -6 - +6	S = -2.5 - +2.5	S = -0.75 - +0.75	S = -2.75 - +2.75	
Alternatives	Alternatives will u	sually start with "N	No action", then inc	lude an amendment	
	suggestion to TRP.	A's Code of Ordina	nces, and lastly rec	ommend other	
	regional strategies	s such as developir	ng incentives, streng	gthening	
	partnerships, pron	noting programs, e	etc.		
Alternatives	$I = \frac{5.00}{S}$ $S = \frac{2.90}{S}$ $SCALE$ $F = 0 - 18$ $I = -6 - +6$ $S = -6 - +6$ Alternatives will us suggestion to TRP, regional strategies partnerships, prom	I = $S =$ $SCALE$ $F = 0 - 7.5$ $I = -2.5 - +2.5$ $S = -2.5 - +2.5$ sually start with "NA's Code of Ordinations such as developing programs, eterminations programs, eterminations and the start with	I = S = SCALE F = 0 - 2.25 I = -0.75 - +0.75 S = -0.75 - +0.75 <i>No action", then inc</i> <i>inces, and lastly rec</i> <i>ing incentives, strengetc.</i>	I = S = SCALE $F = 0 - 8.25$ $I = -2.75 - +2.75$ $S = -2.75 - +2.75$ Indee an amendment commend other oth	

# Topic Area: Traffic Congestion

Idea: Require snow clearing on multiuse trails						
Priority: Medium- to Long-	Priority: Medium- to Long-term					
Examples (Codes, Programs, Resources)	<ul> <li>De Pere, WI Municipal Code Section 22.18 – Snow/ice is required to be removed within 48 hours after snow or ice shall have fallen or accumulated thereon. The property owner is responsible to keep the sidewalks free and clear of snow and ice at all times (107)</li> <li>Clayton, DE Section 1.3-2.2 – It shall be unlawful for the owner of any premises in the Town, in front of or by the side of which shall be a sidewalk, pavement, or walkway, to permit or allow snow to remain thereon for a longer period than 48 hours after it has ceased snowingThe Mayor of the Town of Clayton or his/her agent shall have the authority to have snow removed from the sidewalk, pavement, or walkway of the premises of any owner or occupant in violation of this section and such owner or occupant shall pay in addition to the penal fine herein provided, the cost of such removal of snow. (120)</li> </ul>					
Survey Results	<b>ALL</b> F = 11.25 I = 0.75 S = 2.00	F = 5.50 I = -0.50 S = -0.75	F = 1.00 I = 0.25 S = 0.50	F = 4.75 I = 1.00 S = 2.25		
Alternatives	<ol> <li>No action</li> <li>Amend copremises in a sidewalk, longer than owner will penal fine,</li> <li>Facilitate cand build equipment</li> </ol>	<ol> <li>No action</li> <li>Amend code 65.3 to make it unlawful for the owner of any premises in the Region, in front of or by the side of which shall be a sidewalk, pavement, walkway, to permit or allow snow to remain longer than 48 hours after it has ceased snowing. Otherwise, the owner will be in violation, and owner shall pay, in addition to the penal fine, the cost to remove the snow.</li> <li>Facilitate collaboration between counties/cities to enforce code and build partnerships to share costs of snow removal equipment/personnel</li> </ol>				

4.	Create comprehensive snow clearing programs for all public
	multiuse trails in the Region to take into effect after snowfalls.
	Refer to ATP Page 2-36 for Snow Removal Strategies.

Idea: Incentivize reduction of traffic congestion with travel to/from temporary events						
Priority: Short- to Medium	Priority: Short- to Medium-term					
Examples (Codes, Programs, Resources)	<ul> <li>City of LA Bicycle Parking Ordinance - LAMC Section 12.21 - short- and long-term bike parking requirements, design guidelines (113)</li> <li>Sacramento Bike Valet and Bike Santa Cruz – offers bike valet services for events (111 and 112)</li> <li>Seattle includes monitored event bicycle parking in their Bicycle Parking Guidelines and cites the municipal code for requirements, such as required number of bike racks (114)</li> <li>Bike SLO County offers bike valet with a 200-bike max (203)</li> </ul>					
Survey Results	F = 12.75         I = 5.00         S = 4.50	F = 6.25 I = 2.00 S = 1.50	F = <b>1.50</b> I = <b>0.50</b> S = <b>0.50</b>	F = 5.00 I = 2.50 S = 2.50		
Alternatives	<ol> <li>No action</li> <li>Amend code 36.5.5 and 65.3 to require short- and long-term bike parking for commercial, tourist, multi-family buildings. Must incorporate bike parking design standards from the Lake Tahoe Complete Street Resource Guide. (215)</li> <li>Develop agreements/partnerships with transit services and shuttle services for temporary events</li> <li>Update Temporary Uses &amp; Activities permits to require applicants to develop event visitor travel plan, identify estimated number of visitors, and provide bike parking for events</li> <li>Create/strengthen programs and partnerships for bike valets at events</li> </ol>					

Idea: Establish car-free zones in town centers				
Priority: Long-term				
Examples (Codes, Programs, Resources)	•	Portland, OR City Code Chapter 17.43 Pedestrian Plazas (121) – defines pedestrian plazas and what is/isn't permitted; for example, permanent or temporary structures are not allowed San Diego, CA Municipal Code Chapter 8 Article 5 - Special Regulations - Prohibit certain vehicles, like loaded with certain materials or of a certain size, from central traffic districts during certain times; for example, vehicles with loads that extends more than 3 ft in the front or more than 10 ft in the back, freight vehicle with a trailer, or vehicle with crude oil – all are not allowed to drive or park in the central traffic district between 10am and 6pm on any day except Sundays and holidays (122) Williamsburg, VA Code of Ordinances Chapter 11 Article VII Section 11-266 - Operation and parking prohibited during certain hours – defines the Historic Colonial Area by streets, prohibits a person from operating or parking a vehicle, including mopeds and e-bikes, between 8am and 10pm on any day (123)		
Survey Results	N/A			
Alternatives	1. 2. 3. 4. 5.	No action Amend code 65.3 to define car-free zones in town centers (pedestrian plazas), include design standards for proper signage and infrastructure. (121) Add information and design recommendations online for business owners to easily apply for and install bike infrastructure. (TRPA website > Permitting > Resources > Helpful Docs) Establish a car-free day during Tahoe Bike Month. Collaborate with cities/counties/businesses/CBOs to promote car-free day Update temporary event permit application to allow applicants the option to close off a street block for recreation and active transportation.		

# Topic Area: Energy Conservation

Idea: Limited coverage exemption for thick-walled structures resulting from efficient				
insulation				
Priority: Short-term				
Examples (Codes,	•	NYC Zone Green, Zoning Code Section 12-10 - "the floor area of a		
Programs, Resources)		inches" (163)		
Survey Results	N/A			
Alternatives	1.	No action		
	2.	Amend code 30.4.6 to encourage efficient insulation through		
		limited coverage exemption for thick-walled structures, allow up to eight inches.		

Idea: Require all new structures to use tankless water heaters				
Priority: Long-term				
Note: This idea contradicts	prohibit NG code ide	ea; if we continue	propane/NG, then	do tankless. If we
do all-electric, not feasible	to do tankless			
Examples (Codes, Programs, Resources)	<ul> <li>CA Plumbing Code section 501 [chapter 5]- provides regulations on construction, location, installation, and design of alternative water heaters (164)</li> <li>Sunnyvale includes information on tankless water heaters in the permit info (10)</li> </ul>			
Survey Results	ALL		鐕	
	F = <mark>8.75</mark>	F = <mark>4.00</mark>	F = <mark>1.25</mark>	F = <mark>3.50</mark>
	l = <mark>2.25</mark>	I = <mark>1.00</mark>	l = <mark>0.25</mark>	I = <mark>1.00</mark>
	S = <mark>1.75</mark>	S = <mark>1.00</mark>	S = <mark>0.25</mark>	S = <mark>0.50</mark>
Alternatives	<ol> <li>No action</li> <li>Allow but c 65.1.4 to in regulations</li> <li>Include inf information Permitting</li> </ol>	don't require tanklen nclude definition of (164) formation on tan n on the website. > Resources > Help	ess water heaters of tankless water kless water heat (For example, on oful Docs) (10)	by amending code heater and design ers in permitting the TRPA website,

Idea: Establish requirements for efficient exterior lighting					
Priority: Short- to Medium-term					
Examples (Codes, Programs, Resources)	<ul> <li>C</li> <li>T</li> <li>Id</li> <li>a</li> <li>E</li> <li>-</li> <li>C</li> <li>a</li> <li>P</li> <li>O</li> <li>O</li> <li>O</li> <li>C</li> <li>p</li> </ul>	CA 2022 Energy Code - 10-114(a) - exterior lighting allowances; Table 130.5-B minimum requirements for separation of electrical oad; 140.3(d)3 exterior light shelves; Table 140.6-A lighting power adjustment factors (26) Examples of Local Ordinances Exceeding the 2019 CA Energy Code - (216). These local jurisdictions applied to the CA Energy Commission for approval and followed the required process to adopt more stringent standards. Portland has a Dark Skies Project: Strategies for Reducing Light Pollution in Portland; strategies include manage outdoor lighting on public and private property, reduce light pollution from city- powned buildings and facilities, increase public education (74 and 175) City of San Diego installed 3600 adaptive control LED streetlights, participated in demand response programs (93, 176, and 177)			
Survey Results	N/A				
Alternatives	1. N 2. A ru e C li (I 3. F c a 4. V ru c	No action Amend code 36.6 and adopt prescription exterior lighting requirements; include minimum requirements for separation of electrical load, and lighting power adjustment factors. Please see CA 2022 Energy Code Sections 130.2 (mandatory for outdoor ighting), 140.7 (prescriptive for outdoor lighting), 141.0(b)2L prescriptive for outdoor lighting of additions, alterations, and repairs) (219) Facilitate a Dark Skies Project. Collaborate with stakeholders to conduct nighttime lighting audit, reduce unnecessary energy use, and increase energy efficiency of exterior lighting. (74 and 175) Nork with utility companies to increase effectiveness of demand response programs, establish more incentives for energy conservation during peak energy use times.			

Idea: Provide coverage	bonuses or bonus	s development r	rights as an ince	ntive for
energy-efficient design	and use of alterna	ative energy sou	urces	
Priority: Short- to Medium	-term			
Examples (Codes, Programs, Resources)	<ul> <li>McCall, ID Code of Ordinances § 3.10.024(A) (2006) "The City provides a 10% bonus to density, if 50% of the total energy needs of the development are provided by "solar, wind, geothermal, or [an] alternative renewable energy source." (165)</li> <li>Orlando, FL Code of Ordinances § 58.1104 (2015) - "providing developer bonuses for a number of public policy practices including a site design that considers energy efficiency, stormwater design, solar or other renewable energy sources" (166)</li> </ul>			
Survey Results	Written in the stakeholder survey as: "Limited coverage exemption or design requirement exemptions for building sustainability improvements"			exemption or ty improvements"
	ALL		<u> </u>	
	F = <mark>8.50</mark>	F = <mark>3.75</mark>	F = <mark>1.00</mark>	F = <mark>3.75</mark>
	l = <mark>2.75</mark>	l = <mark>0.75</mark>	I = <mark>0.00</mark>	I = <mark>2.00</mark>
	S = <mark>2.75</mark>	S = <mark>0.75</mark>	S = <mark>0.00</mark>	S = <mark>2.00</mark>
Alternatives	<ol> <li>No action</li> <li>Amend code 30.4.6 to provide coverage exemption for alternative energy sources. Model code after bear box coverage exemptions. Define and list electric vehicle charging stations/equipment as "exempt support facilities", like trash receptacles in 84.6.3.A.1.a.</li> <li>Amend code 50.4 to provide bonus development rights for energy- efficient design and use of alternative energy sources – implementing energy reach codes</li> </ol>			

Idea: Require use of 'cool' materials to reduce heat island effect				
Priority: Short- to Medium	-term			
Examples (Codes, Programs, Resources)	<ul> <li>Denver, Co Code of Ordinances Chapter 10 Article XIII Section 10 - Establishes green/cool roof requirements for new and existing buildings: New construction of 25,000 sf or more must have a cool roof; Existing buildings of 25,000 sf or more must have a cool roof if there is going to be a roof replacement of more than 5% of either total roof area or individual roof section (167)</li> <li>LA Ordinance No. 183149 – Requires new construction and building alterations with a building permit valuation of \$200,000 or more to comply with solar reflectance, thermal emittance, and solar reflectance index standards (210)</li> <li>CA Building Energy Efficiency Standards Title 24 Part 6 Section 110.8 - mandatory requirements for roofing products - solar reflectance and thermal emittance standards (168)</li> </ul>			
Survey Results	<b>ALL</b> F = 11.50 I = 2.75 S = 1.50	F = 5.75 I = 1.50 S = 0.75	F = 1.25 I = 0.25 S = 0.00	F = 4.50 I = 1.00 S = 0.75
Alternatives	<ol> <li>No action</li> <li>Establish cool roof standards in code 36.6. Please see CA green building code Section 110.8 for requirements of solar reflectance and thermal emittance. Work with TRPA Current Planning and stakeholders to determine reflectivity standards of cool roofs and roof-mounted solar panels.</li> <li>Amend code 36.6 to require new construction and building alteration with a building permit valuation of \$ or more to comply with cool roof standards. Ask TRPA Current Planning for their suggestion of permit valuation amount. Please see below for screenshot of (210, table 4.106.5).</li> </ol>			

ROOF MINIMUM 3-YEAR AGED THERMAL SOLAR							
SLOPE	SOLAR REFLECTANCE	EMITTANCE					
			SRI				
< 2:12	0.63	0.75	75				
<u>&gt; 2:12</u>	0.20	0.75	16				

TABLE 4.106.5

	iergy budget for i		n and require if	illigation for
energy use beyond that	t budget			
Priority: Medium-term				
Examples (Codes, Programs, Resources)	<ul> <li>San Luis Ol Code Section There are designs for known as the Berkeley all Electric Bud occupied to complies with calculated to is no greated Design Buill</li> <li>Telluride Con R406 - "Tell use and he by either renewable the activity annual fee</li> </ul>	bispo Code - adop on 140.1 - Perfor energy budgets o buildings, with tex he San Luis Obispo lso amended Sect ilding or a newl for laboratory, i vith the performa for the Proposed I er than the energy ding under Subsec o, Energy Mitigati lluride therefore r ated garages mitig the provision of energy system to o r, or to make a pay schedule adopted	pted and amender mance Approach: putlined for stands at on how to calcula p Reach Code (169) tion 140.1 - "newl y constructed M industrial, or ma nce approach if t Design Building un y budget calculated tion (a)" (170) on Program - Buil requires that certa gate or offset thes an on-site or a offset the energy u yment in-lieu in ac by the Town Coun	d CA 2019 Energy Energy Budgets - ard and proposed ate energy budget, y constructed All- ixed-Fuel Building anufacturing uses he energy budget der Subsection (b) d for the Standard ding Code Section in exterior energy a e adverse impacts n eligible off-site use as specified for cordance with the pcil." (171)
Survey Results	ALL       F = 12.00       I = 3.25       S = 0.50	F = <mark>6.25</mark> l = <mark>1.25</mark> S = <mark>0.25</mark>	F = 0.75 I = 0.50 S = 0.25	F = 5.00 I = 1.50 S = 0.00
Alternatives	<ol> <li>No action</li> <li>Adopt a reach code in 36.6 and establish energy budgets. Please see San Luis Obispo Code - adopted and amended CA 2019 Energy Code Section 140.1 (169); and Los Gatos Energy Reach Code (217). Provide code examples with energy budgets to stakeholders to determine what is best for Tahoe.</li> <li>Amend code 65.2.4 to require mitigation or offsets for excess energy use outside of energy budget. Exclude garages. Mitigation includes a provision of an on-site or an eligible off-site renewable</li> </ol>			

Idea: Set a maximum energy hudget for new construction and require mitigation for

energy system to offset the excess energy use as specified for the
activity, or to make a payment in-lieu in accordance with an annual
fee schedule. Work with TRPA Current Planning to determine
where and how to add this fee.

Idea: Require energy and water efficiency beyond building code requirements				
Priority: Medium-term				
Examples (Codes, Programs, Resources)	<ul> <li>San Anselm sections of compliance adopted CA</li> <li>Seattle, Wa facilities, r building of and addition Uniform PI</li> <li>Citrus Heig Lighting - t energy, h 106.35.080 submitted</li> <li>Washingto the 2017 efficient bu construction to meet operations</li> <li>Washingto and renova LEED, scho new and re silver, scho</li> <li>CA Energy G lays out re shut-off co Section 14 occupant-s</li> </ul>	no, CA Code of Ord for standards for e to encourage hi A Green Building St A Sustainable Buil equires all new ca 5000 sf or more ta onal standards lik umbing Code (125) thts, CA Code of O to promote lighting as recommendat 0, outlines outdo in planning permit n DC defines a net- DC Energy Conse uilding that produc on of new renewab or exceed the a " (98) n DC's Green Build ated privately-owr ols must meet gol renovated publicly ools must meet silve Code Section 130.1 equirements with ontrols, countdown 40.6 Prescriptive tensing controls, al	inances Title 9 Cha r compliance an igher levels of gra- andards Title 24 Pa dings and Sites Po onstruction and re o meet a minimum e 2009 Seattle Ei ) rdinances Chapter g practices and sy ions for energy or lighting plans applications (128) zero energy buildin rvation Code as ces on-site, or pro le energy generation nual energy co ling Act of 2006 (12 ned buildings mus d or higher given y-owned buildings er or gold given su Mandatory Indoor various options, a timers, multileve Requirements for lowed indoor light	apter 19 - there are ad incentives for een building, also art 11 (124 and 16) blicy for municipal enovations of city in LEED Gold rating nergy Code, 2009 a 106.35 - Outdoor stems to conserve conservation in a which shall be ing in Appendix Z of a "highly energy- cures through the on, enough energy nsumption of its 26 and 178) – new at meet or exceed sufficient funding; a shall meet LEED fficient funding r Lighting Controls, separate controls I lighting controls; indoor Lighting, ing power (26)
Survey Results	Written in the stake in new construction	eholder survey as: n and incentives to	"Require full build convert existing d	ing electrification evelopment"
	F = <mark>11.50</mark>	F = <mark>5.50</mark>	F = <mark>0.75</mark>	F = <mark>5.25</mark>

	I = <mark>3.25</mark> S = <mark>0.75</mark>	I = <mark>1.75</mark> S = <mark>0.50</mark>	I = <mark>0.50</mark> S = <mark>0.25</mark>	I = <mark>1.00</mark> S = <mark>0.00</mark>
Alternatives	1. No action			
	<ol> <li>Amend c renovation minimum and archite</li> <li>Amend con flow defin technology Please see Fixture Fitt</li> </ol>	<ul> <li>No action</li> <li>Amend code 36.6 and require all new construction at renovations of buildings of 5,000 square feet or more to meet minimum LEED Gold rating. Ask stakeholders, such as develope and architects, what a reasonable square footage would be.</li> <li>Amend code 36.9 for water conservation standards to specify log flow definition or rated maximum flows to the best of curre technology for all new facilities or renovated existing facilities Please see CA Plumbing Code Chapter 4 Plumbing Fixtures at Fixture Fittings for low-flow standards (220).</li> <li>Amend 65.2 and require full-building commissioning on existing nonresidential buildings. They shall comply with the applicate requirements in the building design and construction processes Please see CA 2022 Building Energy Efficiency Standards Section 120.8.</li> </ul>		construction and or more to meet a such as developers ge would be. ards to specify low- ne best of current existing facilities. abing Fixtures and
	4. Amend 65 nonresider requireme Please see 120.8.			sioning on existing with the applicable rruction processes. Standards Section

Idea: Require benchma	rking, auditing, ar	nd retrofitting o	f existing struct	ures
Priority: Long-term				
Examples (Codes, Programs, Resources)	<ul> <li>Seattle Mu multifamily energy perf annually p visualizatio</li> <li>Seattle Mu required ev excluding p size, and th water effici</li> <li>Washingtor energy per "Buildings H energy perf take other p</li> <li>City of LA C frame soft mostly for e</li> </ul>	inicipal Code 22.9 buildings of 20,0 formance and ann bublishes the da n site (85) nicipal Code 22.93 very 5 years for con barking. Complianc nere are qualified iency. (86) n DC Clean Energe formance for con below the thresho formance by 20% prescriptive action Drdinance 183893 -story buildings a earthquake retrofi	920 - owners of r 100 sf or larger are 100 sf or larger are 100 sf or larger are 100 sf or transparer 100 The Building Tur 101 mercial buildings 102 Act - estab 103 mercial and mu 103 pc Act - estab 104 will be required 104 will be required 105 ver the 5-year con 105 (130) 105 requires retrofit 106 and non-ductile c 107 mercial and set of the 107 mercial and set of the	nonresidential and e required to track city. Then the city ncy using a data ne-Ups Ordinance - 50,000 sf or larger ased in by building ts. For energy and lished a minimum ltifamily buildings. d to improve their mpliance period or of pre-1978 wood oncrete buildings,
Survey Results	F = 14.00         I = 2.75         S = -0.50	F = 5.50 I = 1.25 S = -0.75	F = 2.00 I = 0.50 S = 0.25	F = 6.50 I = 1.00 S = 0.00
Alternatives	<ol> <li>No action</li> <li>Amend 60.4 track energing gaming, tou</li> <li>Establish a multifamily the minimu from the error</li> </ol>	4.4 to require con gy performance ar urist, resorts). Tune-Ups ordin buildings (includ um energy perforn nergy reach codes	nmercial and multi nd report to TRPA a nance to require ing gaming, tourisi nance measures th	family buildings to annually (including commercial and t, resorts) to meet at will be set forth

Idea: Prohibit natural gas appliances in new construction and develop a rebate			
program to encourage	gas-to-electric appliance conversion in existing construction		
Priority: Long-term			
Note: Contradicts tankle	ss heater amendment idea		
Examples (Codes, Programs, Resources)	<ul> <li>Berkeley Municipal code 12.80 - bans natural gas infrastructure in new buildings of all types (131)</li> <li>San Francisco All Electric New Construction, Building Code Section 106A 1.17 - all new buildings, res and non-residential must have all electric appliances and bans installation of infrastructure for natural gas/propane appliances (133)</li> <li>California 2022 Building Energy Efficiency Standards Section 160.9 Mandatory Requirements for Electric Ready Buildings - "systems using gas or propane furnaces, cooktops, and/or clothes dryers, to service individual dwelling units shall include the followingcircuit wiring, electrical service panel" (134)</li> </ul>		
Survey Results	N/A		
Alternatives	<ol> <li>No action</li> <li>Amend code 36.6 and require new buildings to be electric-ready; systems using gas or propane furnaces, cooktops, and/or clothes dryers, to service individual dwelling units shall include the followingcircuit wiring, electrical service panel, etc. Please see CA 2022 Building Energy Efficiency Standards Section 160.9</li> <li>Amend code 36.6 and ban natural gas appliances and installation of infrastructure in all new buildings.</li> <li>Develop a rebate program to upgrade nonelectric appliances</li> </ol>		

Idea: Establish a maximum square footage size for residential units. Alternatively,				
create an excess square footage mitigation fee based on estimated excess carbon				
emissions				
Priority: Medium- to Long-	term			
Examples (Codes, Programs, Resources)	<ul> <li>LA Municipal Code Sec 12.08 R1 One-Family Zone - sets square footage limits for residential zones, encourages more usable space, and discourages high ceiling heights (15)</li> <li>Austin, TX Code of Ordinances Title 25 Subchapter F Section 2.1-2.7 - regulates size of houses in certain districts, new developments are subject to a FAR ratio of 0.4-1.0 sf of lot size (174)</li> <li>Citrus Heights, CA has Development Impact Fees for residential construction of 500 sf or more OR an increase of existing living space by 50% or more; and commercial construction with any amount of increased square footage (136)</li> </ul>			
Survey Results	N/A			
Alternatives	<ol> <li>No action</li> <li>Amend code 36.6 to set square footage limits (Stakeholders: Question for TRPA Housing, architects, developers – what square footage is a reasonable limit?)</li> <li>Amend 65.2.4 and establish development impact fee for any new construction to offset increase in demand for city services, infrastructure, and public facilities. Please see impact fee schedule (136).</li> <li>Amend 50.4 and require an additional development right for single-family homes beyond 5,000 sf (Stakeholders: Question for TRPA Housing, architects, developers – what square footage is reasonable?)</li> </ol>			

# Topic Area: Energy Generation

Idea: Require parking lots of a certain size to include solar panels over carports				
Priority: Medium- to Long-	term			
Examples (Codes, Programs, Resources)	<ul> <li>LA Municipal Code sec. 2. Subparagraph (1) of Paragraph (a) of Subdivision 5 of Subsection A of Section 12.21 - provides exception for parking stall dimensions to accommodate solar energy systems (172)</li> </ul>			
Survey Results	ALL		<u> </u>	
	F = <mark>11.25</mark>	F = <mark>5.25</mark>	F = <mark>1.25</mark>	F = <mark>4.75</mark>
	l = <mark>3.75</mark>	l = <mark>1.50</mark>	l = <mark>0.50</mark>	l = <mark>1.75</mark>
	S = <mark>2.75</mark>	S = <mark>1.25</mark>	S = <mark>0.25</mark>	S = <mark>1.25</mark>
Alternatives	<ol> <li>No action</li> <li>Amend cod</li> <li>Amend cod carports a standards</li> <li>Amend coc certain size architects,</li> <li>Incentivize energy cost</li> </ol>	e 36.5 to define so de 36.5 to provie nd promote inst e 36.5 and requir to include solar of engineers, and dev solar carports; co t savings	lar carports and se de permitting exe allations, given t e new and existin carports (Stakehol velopers – what siz reate info sheets	et design standards ceptions for solar hey meet design g parking lots of a ders: Question for ce parking lots?) for tax breaks or

idea. Frovide all additio		ight allowance for foor-mounted solar and white
generation facilities		
Priority: Short-term		
Examples (Codes, Programs, Resources)	•	Seattle Municipal code 23.44.046 - "allows solar collectors specifically to exceed height restriction by several feet and provides unique setback for solar collectors" (41) Kent, CT Zoning Regulations 3131.7 - solar panels when flush mounted to a roof surface are permitted by right - no additional zoning authorization required (45) Laramie, WY Code of Ordinances Title 15 Chapter 15.14.030 Alternative Energy - solar energy systems are allowed in all zoning districts, may exceed maximum height limits by 3 feet, and may extend required setbacks by 3 feet (179)
Survey Results	N/A	
Alternatives	1.	No action
	2.	Amend code 13.6 and specify allowance of solar and wind systems in all zoning designations
	3.	Amend code 37.6 and allow solar and wind systems to exceed maximum height limits by 3 feet
	4.	Amend code 36.5.4 and allow solar and wind systems to extend required setbacks by 3 feet

Idea: Provide an additional height allowance for roof-mounted solar and wind

Idea: Provide a qualifie	d permitting exen	nption for solar	and wind gener	ation
installations				
Priority: Short-term				
Examples (Codes, Programs, Resources)	• Please see previous amendment idea block for examples, "Provide an additional height allowance for roof-mounted solar and wind generation facilities"			
Survey Results	Written in the stakeholder survey as: "Provide exemptions from standards to better accommodate renewable energy installations"			
	ALL		<u> </u>	
	F = <mark>8.50</mark>	F = <mark>4.25</mark>	F = <mark>0.75</mark>	F = <mark>3.50</mark>
	l = <mark>4.50</mark>	l = <mark>1.50</mark>	I = <mark>0.50</mark>	I = <mark>2.50</mark>
	S = <mark>3.75</mark>	S = <mark>1.25</mark>	S = <mark>0.25</mark>	S = <mark>2.25</mark>
Alternatives	<ol> <li>No action</li> <li>Amend connection</li> <li>equipment,</li> <li>requirement</li> </ol>	de section 2.3.6 , facilities, and d nts	to define solar evices as exempt	and wind energy t from permitting

Idea: Provide design standard exemptions for roof-mounted solar			
Priority: Short- to Medium	erm		
Examples (Codes, Programs, Resources)	<ul> <li>White Plains, NY Zoning Ordinance Section 4.4.15.5, 4.4.2 10.3.5.2, 10.3.7 - establishes standards allowing solar esystems through variances and special exceptions, the solar must be approved by the Design Review Board (44)</li> <li>CA Title 7 Division 1 Chapter 4 [65800 - 65912] - "local agenciadopt ordinances that create unreasonable barriers to insta of solar including design review for aesthetic purposes" (47)</li> <li>CA Energy Code Section 110.10(c): The construction docu shall indicate a location reserved for inverters and me equipment and a pathway reserved for routing of conduit from solar zone to the point of interconnection with the element of solar intercent of the point of interconnection with the element of the point of the</li></ul>	1, 9.1, energy arrays es not llation ments etering om the ectrical	
Survey Results	N/A		
Alternatives	<ol> <li>No action</li> <li>Amend code to prevent local agencies from adopting ordina and design standards that create unreasonable barriers to installation for solar (Stakeholders: Question for solar comp – are there any barriers in our code that limit rooftop solar installations? What issues have come up in their work?) (Question for TRPA Forester: 36.6.1C is vague – has TRPA encountered this in any projects?)</li> </ol>	nces anies	

Idea: Provide coverage	exemp	tions for ground-mounted solar
Priority: Short-term		
Examples (Codes, Programs, Resources)	•	New Jersey Title 13:19-5.4 "the department shall not include solar panels in any calculation of impervious surface or impervious cover that may be requiredto constructin the coastal area" (48 and 49) Placer County Code Chapter 17 Article 17.56.350 Ground-mounted residential solar electric generating systems - "The ground area occupied by the solar electric generating system shall not be counted towards the permissible site coverage for any parcel, except for parcels located within the Tahoe region where the Tahoe Regional Planning Agency may enforce maximum site coverage requirements applicable to solar electric generating systems." (183) Sonoma County Ordinance 6064 Section 26.88.206 Solar Energy Facilities – Special Use Standards – has a subsection for parcel coverage for solar: "Minor commercial solar facilities shall cover less than 15% of the parcel and no more than 5 acres. The area covered by panels shall be the lesser of 50% of the maximum lot coverage allowed by the zone, or if applicable, 50% of the allowable building envelope as designated on a final map." (187)
Survey Results	N/A	
Alternatives	1. 2.	No action Amend code 36.6.1C and 30.4.6 to provide coverage exemptions for ground-mounted solar

Idea: Set parameters for tree removal in support of solar installations		
Priority: Short- to Medium-term		
Examples (Codes, Programs, Resources)	<ul> <li>Del Mar, CA Municipal Code §§ 23.51.010-23.51.120 (2019) – citizen dispute resolution process to restore and preserve sunlight access that is unreasonable obstructed by trees or vegetation within 300 ft of the applicant's property boundariesthere's an admin fee (184)</li> <li>CA Public Resources Code (Solar Shade Control Act) - Sections 25980-25986 - CA balancing trees for shade with solar energy (18) - prohibits trees or shrubs to shade an existing solar energy system given that they were planted AFTER the solar was installed</li> <li>"The Solar Shade Control Act applies only to fixed solar collection devices installed on the roof of a building, or on the ground if rooftop installation is impossible. If installed on the ground, very specific height and set-back restrictions apply. Improperly installed solar devices are not protected by this law. Under this law, property owners are prohibited from allowing their trees or shrubs to shade more than 10% of a neighbor's existing solar energy system between the hours of 10am and 2pm." (19) - can then be considered a nuisance if tree owner does not remove/alter tree</li> </ul>	
Survey Results	N/A	
Alternatives	<ol> <li>No action</li> <li>Collaborate with partners to create more outreach materials to educate public on tree removal for solar panels</li> <li>Work with TRPA Forester and Current Planning to determine common issues and possible solutions</li> </ol>	

Idea: Provide exemptio	ns from scenic corridor standards for renewable energy
installations	
Priority: Short- to Medium	-term
Examples (Codes, Programs, Resources)	<ul> <li>LA County Renewable Energy Ordinance - scenic limitations, but if small-scale wind energy system or ground-mounted utility-scale solar energy facility is placed in a scenic area, it will be assessed for its visual effects and appropriate conditions relating to siting, buffers, and design of the system shall be applied (117)</li> <li>Butte County has a Utility-scale solar guide: "Possible approaches to minimize impacts to scenic highway areas include avoiding ridgelines and locating the solar facility behind natural topography, existing vegetation, or additional landscaping to screen the facility from public view" (116)</li> <li>Vermont has list of municipalities that that enacted solar screening ordinances or bylaws and for what type of solar is allowed and where; example: Cornwall - Interim solar screening bylaw (&gt; 15 kW). Sets percentage visibility allowed. Includes municipality-specific setback requirements. Also includes decommissioning requirement (118)</li> </ul>
Survey Results	N/A
Alternatives	<ol> <li>No action</li> <li>Amend code to allow for exemption on scenic threshold standards or screen for reasonable aesthetic mitigation measures (Note: 36.6.1C is vague but already allows for alternative energy equipment "if a project level assessment demonstrates that scenic threshold standards will not be adversely impacted." If stakeholders are concerned, we can add an assessment process - assess equipment for its visual effects, siting, buffers, and design)</li> <li>Work with stakeholders for opinions on modifying scenic corridor standards for any type of renewable energy equipment.</li> </ol>

Г

		Jiai, willu, allu g		
streamline permitting				
Priority: Short-term				
Examples (Codes,	<ul> <li>Orange Co</li> </ul>	ounty Code of (	Ordinances Section	on 7-1-81(d)(1) -
Programs, Resources)	expedites a	and streamlines p	ermit process for	r small residential
	solar ener	gy systems, perm	nit is available or	nline and will be
	reviewed w	vithin 3 business da	ays of submittal (1	85)
	<ul> <li>Yuba Count</li> </ul>	y Code of Ordinan	ces Section 10.10.	300 - an individual
	can be an	expedited permit	applicant if they	are a current CA
	licensed co	ntractor specialize	d in solar energy	systems, permit is
	available in	person and onlin	e, their applicatio	n takes priority in
	the review	process (186)		
	Γ	Γ	Γ	1
Survey Results		Ę	22	<u> </u>
	(ALL)		<u>Á</u> SA	
		رمدبعوا		
	F = <mark>13.25</mark>	F = <mark>6.75</mark>	F = <mark>1.50</mark>	F = <mark>5.00</mark>
	l = <mark>4.75</mark>	l = <mark>1.50</mark>	l = <mark>0.75</mark>	l = <mark>2.50</mark>
	S = <mark>3.00</mark>	S = <mark>0.75</mark>	S = <mark>0.25</mark>	S = <mark>2.00</mark>
Alternetiuse				
Alternatives	1. No action		allow licensed on	ntuantausha aus
	2. Expedite pe	in a lan analysis and		ntractors who are
	specialized in solar energy systems to qualify as an expedited			
	permit applicant. Review permits within 3 business days of			
	Submittai.			
	3. Refer to or develop tool like EPA's RE-Powering Mapper to identify			
	sites for rer	newable energy de	velopment	

Idea: Identify appropriate locations for solar, wind, and geothermal installations and

Idea: Require Battery S	torage			
Priority: Short- to Medium-term				
Examples (Codes, Programs, Resources)	<ul> <li>New York Battery Energy Storage System Law - establishes and regulates battery storage systems but does not require (138)</li> <li>LA Code of Ordinances Title 32 Section 1206.2.10 Storage batteries and equipment - establishes design and installation standards</li> <li>CA Energy Code Section 140.10 Prescriptive Requirements for Photovoltaic and Battery Storage Systems – Requires PV and battery storage on newly constructed buildings (with some exceptions), lays out energy capacity and power capacity for various building types in various climate zones</li> <li>Town of Los Gatos New Energy Reach Codes, all electric codes and prewire for battery storage codes (217)</li> </ul>			
Survey Results	F = 8.50         I = 1.25         S = 1.00	F = <b>3.50</b> l = <b>0.00</b> S = <b>0.00</b>	F = <b>0.75</b> I = <b>0.25</b> S = <b>0.00</b>	F = 4.25 I = 1.00 S = 1.00
Alternatives	<ol> <li>No action</li> <li>Amend code 36 and establish design and installation standards for battery storage. Follow the prescriptive requirements for Photovoltaic and Battery Storage Systems CA Energy Code Section 140.10 (168) and Los Gatos Energy Reach Code (217).</li> <li>Provide online submittal requirements and information about the battery storage design and installation standards for existing buildings</li> </ol>			

## Topic Area: Zero-Emission Vehicles

Idea: Exempt EV charging stations from coverage requirements		
Priority: Short- to Medium	-term	
Examples (Codes, Programs, Resources)	<ul> <li>Chelan Code dedicates a whole section to EV charging stations with these subsections (23):         <ul> <li>Purpose.</li> <li>Designation of electric vehicle charging stations.</li> <li>Where permitted.</li> <li>Standards for electric vehicle charging stations.</li> <li>Minimum parking requirements.</li> </ul> </li> <li>A guide was published for Washington State and a model ordinance included: "Allow charging infrastructure to be exempt from site coverage requirements." (188)</li> </ul>	
Survey Results	N/A	
Alternatives	<ol> <li>No action</li> <li>Amend 36 code and define EV charging stations</li> <li>Amend 30.4.6 and exempt EV charging station from coverage requirements</li> <li>TRPA can consider creating separate sections for EVs and solar panels in Chapter 36 to lay out the design standards</li> </ol>	

Idea: Clarify that electr	ical venicle charging is an allowed shore zone use within a
marina	
Priority: Medium-term	
Examples (Codes, Programs, Resources)	<ul> <li>Currently an option for required improvement for major marina projects (84.6.2)</li> </ul>
	<ul> <li>Required findings for major projects include (xiii) "Installation of an electric charging station for cars" and (xv) "Implementation of a green infrastructure project"</li> </ul>
Survey Results	N/A
Alternatives	<ul> <li>No action</li> <li>Clarify and amend code 21.3 and 84.6 to allow electrical watercraft charging in shore zone use within a marina</li> <li>Amend code 21.3 and 84.6 and allow electric watercraft charging in shore zone outside of marinas (public and private piers); establish design and scenic standards</li> </ul>

accommodation, and public service uses		
Priority: Short-term		
Examples (Codes, Programs, Resources)	•	Escondido, CA Municipal Code Section 33-1124 - An EVCS for non- commercial (no service fee) or private use shall be permitted as an accessory use within any legal commercial, industrial, or other non-residential parking space in a parking lot or in a parking garage or carport; subject to all applicable city, state, and federal code requirements An EVCS for commercial (service fee) and/or public use shall be permitted as a primary or accessory use through the approval of a minor use permit, subject to all applicable city, state, and federal code requirements; except that the director of community development, or designee, is authorized to designate parking spaces or stalls in an off-street parking facility owned and operated by the City of Escondido for the exclusive purpose of charging and parking a vehicle that is connected for EVCS purposes. (189) Redmond, WA Code Section 21.40.030 - An electric vehicle charging station equipped with Level 1 or Level 2 charging equipment is permitted outright in all zones as an accessory use to any principal use. (190)
Survey Results	N/A	
Alternatives	1. 2.	No action Amend code 21.3 and clarify that electrical vehicle charging can be accessory to commercial, tourist accommodation, and public service uses

Idea: Clarify that electrical vehicle charging can be accessory to commercial, tourist
Idea: Require electric vehicle charging stations for parking lots of a certain size						
Priority: Short- to Medium-term						
Examples (Codes, Programs, Resources)	<ul> <li>Arcadia, CA Code of Ordinances Article IX Ch 1 Division 3 Section 9103.07.140 Parking for Electric and Alternative Fuel Vehicles - requires EV charging stations for parking lots with 100 spaces or for redesign of existing parking lots with 150+ spaces (22)</li> <li>Oakland, CA Ordinance No. 13419 - all new multi-family and nonresidential buildings are required to have certain number of plug-in electric vehicle infrastructure (139 and 25)</li> <li>Chelan, WA Municipal Code Section 17.63 - encourages EV charging stations: smaller charging stations are allowed in all zoning districts, while larger stations are either permitted or are granted approval upon a conditional permit in commercial or industrial zones. Furthermore, such clarification no longer requires charging stations to have the same safety infrastructure as traditional gas stationsThe City also incentivizes the use of EV charging stations by allowing developers to include charging stations in the calculation for minimum parking requirements. " (21)</li> </ul>					
Survey Results	ALL		888 888			
	F = <mark>11.50</mark>	F = <mark>5.25</mark>	F = <mark>1.50</mark>	F = <mark>4.75</mark>		
	l = <mark>5.00</mark>	l = <mark>2.25</mark>	l = <mark>0.75</mark>	I = <mark>2.00</mark>		
	S = 3.25 S = 1.50 S = 0.50 S = 1.25					
Alternatives	<ol> <li>No action</li> <li>Amend code 36.5.2 to require EV charging stations for parking lots of commercial, tourist accommodation, public service, and multi- residential projects; require EV charging stations for parking lots with 100 spaces or for redesign of existing parking lots with 150+ spaces (Stakeholders: Question for architects, engineers, and developers – how large of a parking lot?)</li> </ol>					

,	
snow, etc.)	
Priority: Short-term	
Examples (Codes, Programs, Resources)	<ul> <li>Chelan Municipal Code 17.63.040 standards for EV charging stations, including signage, accessibility, site lighting, equipment, and design (23)</li> <li>Lacey Municipal Code 16.73.040 Design Criteria and Guidelines, signage to identify, maintenance, accessibility, public streets (140)</li> <li>New Orleans Code of Ordinances Chapter 146 Article VI Division 4A Section 146-561 Electric Vehicle Chargers - definition, operating permit, approved equipment, authorized and prohibited locations, penalties (141)</li> </ul>
Survey Results	N/A
Alternatives	<ol> <li>No action</li> <li>Amend code to clarify and define design guidelines. Please see New Orleans Code of Ordinances Chapter 146 Article VI Division 4A Section 146-561 Electric Vehicle Chargers - definition, operating permit, approved equipment, authorized and prohibited locations, penalties (141)</li> </ol>

Idea: Clarify design guidelines for EV stations (parking requirements, color, signage,

Idea: Provide qualified permit exemption for electric vehicle charging stations						
Priority: Short- to Medium-term						
Examples (Codes, Programs, Resources)	<ul> <li>Redlands, CA Municipal Code Title 15, Section 15.58 – "The electric vehicle charging system permit process and checklist shall substantially conform to recommendations contained in the most current version of the Plug-In Electric Vehicle Infrastructure Permitting Checklist contained in the Zero-Emission Vehicles in California: Community Readiness Guidebook adopted by the Governor's Office of Planning and Research." (191)</li> <li>Novato, CA Ordinance 1620 Exhibit A 4-19.3 Expedited Permit Process. The Chief Building Official shall adopt a checklist of all requirements with which electric vehicle charging stations shall comply with in order to be eligible for expedited review. The City's adopted checklist shall be published on the City's website." (192)</li> <li>California "AB 1236 (2015) and AB 970 (2021), codified in Government Code Sections 65850.7 and 65850.71, require cities and counties to adopt streamlined permitting procedures for electric vehicle charging stations (EVCS), including a streamlining ordinance and checklist." (193)</li> </ul>					
Survey Results	Written in stakehol	der survey as: "All	ow coverage exem	ptions for electric		
	vehicles charging st	ations"				
	F = <mark>9.25</mark>	F = <mark>4.00</mark>	F = <mark>1.50</mark>	F = <mark>3.75</mark>		
	I = <mark>4.25</mark> I = <mark>1.75</mark> I = <mark>0.50</mark> I = <mark>2.00</mark>					
	S = 3.25 S = 1.00 S = 0.25 S = 2.00					
Alternatives	<ol> <li>No action</li> <li>Amend code 2.3 and list electric vehicle charging stations as exempt</li> </ol>					

Idea: Require existing marinas to install watercraft charging stations						
Priority: Medium- to Long	-term					
Examples (Codes, Programs, Resources)	Homewood     Tahoe (20)	d Resort's Marina i	s the first charging	station on Lake		
Survey Results	Written in the stak watercraft charging	eholder survey as g stations"	: "Require existing	g marinas to install		
	F = <mark>11.75</mark>	F = <mark>5.25</mark>	F = <mark>1.25</mark>	F = <mark>5.25</mark>		
	l = <mark>3.25</mark>	l = <mark>1.50</mark>	I = <mark>0.00</mark>	l = <mark>1.75</mark>		
	S = <mark>1.75</mark>	S = <mark>1.00</mark>	S = <mark>0.25</mark>	S = <mark>0.50</mark>		
	Written in the stake stations to be insta	eholder survey as: lled outside of ma	"Allow electric bo rinas"	at charging		
	ALL		<u> </u>			
	F = <mark>9.00</mark>	F = <mark>4.00</mark>	F = <mark>0.75</mark>	F = <mark>4.25</mark>		
	I = <mark>2.50</mark>	l = <mark>0.50</mark>	I = <mark>0.00</mark>	I = <mark>2.00</mark>		
	S = 2.25 S = 0.50 S = 0.00 S = 1.75					
Alternatives	<ol> <li>No Action</li> <li>Work with local marinas to gauge how popular electric watercraft are and if there is a demand for charging stations in the near-term</li> </ol>					

Idea: Require rental car companies to only rent hybrid or EV vehicles						
Priority: Long-term	Priority: Long-term					
Examples (Codes,	• "In June 20	19, Washington Du	Illes International	Airport announced		
Programs, Resources)	that contra	acts with rental c	ar concessionaires	s would include a		
	"Green Ver	nicle Requirement,	" requiring each su	uccessful bidder to		
	maintain ar	n annual average r	number of green v	ehicles (EV, PHEV,		
	HEV) of at	least 2 percent of	total vehicles duri	ng the second and		
	third contr	act year, and 3 p	percent of total v	ehicles during the		
	fourth and remaining years." (195)					
Survey Results						
	F = <mark>12.75</mark>	F = <mark>6.50</mark>	F = <mark>1.25</mark>	F = <mark>5.00</mark>		
	I = 3.75     I = 1.50     I = 0.50     I = 1.75					
	S = 1.75 S = 1.00 S = 0.25 S = 0.50					
Alternatives	<ol> <li>No action</li> <li>Collaborate with partners to develop educational materials to inform the public about the benefits of EVs</li> </ol>					

## Topic Area: Waste Diversion

Idea: Identify appropriate locations for a food waste digester and ensure that it is a					
permissible use there					
Priority: Medium- to Long-	term				
Examples (Codes,	Cleveland,	OH Code of Ordina	nces Part iii(B) Tit	VII Ch. 337 Section	
Programs, Resources)	337.25 and	d Ch. 345 Section	345.04 - compo	sting facilities are	
	allowed in	industrial districts	and composting of	operations may be	
	performed	as an accessory	use on ag land	d and they have	
	specificatio	ons for how the fac	ility must be desig	ned (72)	
	Altoona, W	I Municipal Code C	h. 8 Section 8.34.2	0-8.34.040 - allows	
	for backyar	d and small site co	mposting with des	sign standards (72)	
	<ul> <li>Chicago, IL,</li> <li>(2015): Chi</li> </ul>		b 11-4 Art XX &	$11_{-28} \ 9 \ 7_{-28} \ 7_{-28} \ 7_{-28} \ 7_{-15} \ 11_{-4_{-25}} \ 7_{-5} \ 7_{-15} \ 7_{-$	
	Chicago II	Tit 11 Ch 11-4	$\Delta rt XX = 4 A 11. A 3$	11-4-2545 (2015), 0 (2017) - allows	
	gardening	and urban farm	ing operations to	compost under	
	separate re	gulations (196, 19	7, 198)		
	•	<b>.</b> . ,	. ,		
Survey Results		Ę	22	Ē	
		a a a a a a a a a a a a a a a a a a a	888		
	F = <mark>9.75</mark>	F = <mark>3.50</mark>	F = <mark>0.75</mark>	F = <mark>5.50</mark>	
	I = <mark>3.00</mark>	I = <mark>1.00</mark>	l = <mark>0.25</mark>	l = <mark>1.75</mark>	
	S = <mark>2.50</mark>	S = <mark>1.25</mark>	S = <mark>0.00</mark>	S = <mark>1.25</mark>	
Alternatives	1. No action				
	2. Amend cod	e 21.3 and allow fo	or backyard and sm	all site composting	
	given desig	n standards. Please	e see Altoona, WI N	Aunicipal Code Ch.	
	8 Section 8.34.20-8.34.040 (204). Allow for backyard (125 cubic				
	feet maximum) and small site composting (50 cubic yard				
	maximum) with design standards to discourage pets and odors.				
	3. Amend coc	e 21.4 and allow		mosting facilities	
	collaborate	with cities/counti	es/private		
	conaborate with ones, countes, private				

Idea: Require certain uses divert their food waste				
Priority: Short- to Medium-term				
Examples (Codes, Programs, Resources)	<ul> <li>New York State Food Donation and Food Scraps Recycling Law - requires businesses and institutions that generate an annual average of two tons of wasted food per week or more must donate excess edible food and recycle all remaining food scraps - explicitly says where this law does not include, like NYC which has their own law (55)</li> <li>Austin, TX Universal Recycling Ordinance - requires food-permitted businesses to provide their employees convenient access to diversion options that keep organic material out of the landfill. Business owners must submit an organics plan every year (56)</li> <li>Oregon Metro Council Resolution No. 20-5067 - requiring largest food service businesses to separate their food scraps from other garbage - businesses that generate 1,000 lbs. or more of food scraps per week must collect their food scraps (57 and 142)</li> </ul>			
Survey Results	<b>ALL</b> F = <b>8.50</b> I = <b>3.75</b> S = <b>3.00</b>	F = 3.75 I = 1.50 S = 1.50	F = <b>0.50</b> I = <b>0.50</b> S = <b>0.25</b>	F = 4.25 I = 1.75 S = 1.25
Alternatives	<ol> <li>No action</li> <li>Amend code 65.2.4 to require large commercial, tourist accommodation, public service, and multi-residential projects that generate a certain amount of waste to donate excess edible food and recycle remaining scraps. Implement in phases to then require multi-family residential (Stakeholders - Question for waste facilities - How much waste do different categories of generators generate? Who should we require to participate in this food diversion ordinance?)</li> <li>Amend 65.2.4 code to require all buildings (including commercial, nonresidential, and multifamily) to create an organics plan. Please see Austin, TX Universal Recycling Ordinance for information needed to submit an organics plan (56).</li> </ol>			

Idea: Require or incentivize zero-waste for temporary event permits					
Priority: Short- to Medium	-term				
Examples (Codes, Programs, Resources)	<ul> <li>San Francisco Composting and Recycling Ordinance - every event is required to offer recycling and composting at events (65)</li> <li>City of Sebastopol requires event vendors to submit a zero-waste plan as part of the event permit application, per state laws AB 341 and AB 1826 (66)</li> <li>Santa Clara - requires events with 400+ attendees to have a special event waste management plan or a signed contract with an approved zero waste special event service provider (67 and 143)</li> </ul>				
Survey Results	<b>ALL</b> F = 11.25 I = 4.75 S = 3.75	F = 5.75 I = 1.75 S = 1.50	F = 1.00 I = 0.75 S = 0.50	F = 4.50 I = 2.25 S = 1.75	
Alternatives	<ol> <li>No action</li> <li>Amend code 22.7 and require large events to submit an event waste management plan or sign with an approved zero waste special event service provider. Please see the following for an example zero waste plan: City of Sebastopol requires event vendors to submit a zero-waste plan as part of the event permit application, per state laws AB 341 and AB 1826 (66). (Stakeholders – Question for event venues - Get a gauge for the various size of events and what would be feasible to require.)</li> <li>Amend code 22.7 and require every event that applies for a permit to offer recycling and composting</li> </ol>				

# Topic Area: Sustainable Construction and Development

Idea: Streamline construction material requirements to allow for the use of recycled					
materials in constructio	'n				
Priority: Short- to Medium	-term				
Examples (Codes, Programs, Resources)	<ul> <li>City of Brea - Green Building Standards Code and Chapter 8.29 of the City Code - permit applicant is required to identify materials that will be reused, recycled, or disposed from construction and demolition projects (62)</li> <li>Half Moon Bay 14.50.040 Recycling, reuse, and salvage procedures - "Based on the contractor's C&amp;D waste management plan, estimated quantities of available materials, and determined availability of recycling facilities, contractor shall develop and implement during construction of the project procedures to reuse, salvage, and recycle materials to the greatest extent feasible." (63)</li> <li>Portland, Or Chapter 17.106 Deconstruction of Buildings Law - sets deconstruction requirements for specific building types (primary dwelling structures that were built in 1916 or earlier), making the reuse of materials easier (60)</li> </ul>				
Survey Results	ALL				
	F = 7.75 I = 3.00	$I = \frac{1.25}{1.25}$	I = 0.00	F = <mark>4.00</mark> I = <mark>1.75</mark>	
	S = <mark>4.25</mark>	S = <mark>1.75</mark>	S = <mark>0.25</mark>	S = <mark>2.25</mark>	
Alternatives	<ol> <li>No action</li> <li>Amend code 36 to require permit applicant for C&amp;D to identify materials that will be reused, recycled, or disposed (Stakeholders - question for architects and engineers - Is the structural integrity of recycled materials similar to new materials? Are recycled materials currently popular in the industry?)</li> <li>Amend code 36.6 and add deconstruction requirements of older buildings (Stakeholders - What is the building age makeup of the region? Is it reasonable to have deconstruction requirements for buildings built before a specific year?)</li> </ol>				

4.	Require permit applicant to use a certain percentage of recycled
	materials in construction projects, increment percentage of
	recycled materials in phases (Stakeholders - question for
	developers and engineers - Is requiring recycled materials
	feasible? Is there enough in the market to require its use in new
	construction projects?)

Idea: Encourage addition	onal energy and w	vater efficiency s	standards for bu	uildings	
(example: LEED certification	ation)				
Note: This idea is a combination	ation of Amendment	t #s 14, 17, and 20	in the Amendmen	t Spreadsheet	
Priority: Medium-term					
Examples (Codes,	Please see	"Require energy a	nd water efficiend	cy beyond building	
Programs, Resources)	code requ	uirements" Ame	ndment Idea E	3lock in Energy	
	Conservation Section				
Survey Results		Ę	22	ه	
			666		
	F = <mark>11.00</mark>	F = <mark>5.25</mark>	F = <mark>1.50</mark>	F = <mark>4.25</mark>	
	I = <mark>3.75</mark>	l = <mark>1.75</mark>	l = <mark>0.50</mark>	I = <mark>1.50</mark>	
	S = <mark>3.75</mark>	S = <mark>1.75</mark>	S = <mark>0.25</mark>	S = <mark>1.75</mark>	
Alternatives	1. No action	•		· · · · · · · · · · · · · · · · · · ·	
	2. Please see "Require energy and water efficiency beyond building				
	code requ	uirements" Ame	ndment Idea E	Block in Energy	
	Conservatio	on Section			

Idea: Require that buildings are solar-ready, use passive solar / Require new							
construction to be 100	% electric						
Priority: Medium- to Long-	term						
Examples (Codes, Programs, Resources)	<ul> <li>El Paso, TX Code of Ordinances §§ 18.10.366, 18.32.010 (2016); 2015 Int'l Residential Code, Int'l Code Council App. U § U103.1 (2016); Recommended Requirements to Code Officials for Solar Heating, Cooling and Hot Water Systems, Council of American Building Officials 19 (1980) adopted solar-ready provisions of the 2015 International Residential Code: "The IRC provision states that new townhomes and detached one or two-family homes aligned between 110 and 270 degrees of true north, which contain 600 or more square feet of roof space, comply with the solar-ready requirements." (43)</li> <li>Long Beach, CA Municipal Code Section 21.45.400(I)(3) - "requiring roofs be solar ready by being able to bear an additional eight pounds of dead load per square foot. A conduit must also be provided from the electrical panel to the roof" (144)</li> <li>Pinecrest, FL Code of Ordinances Ch. 30 Art. 5 Div. 5.27(a)(3)(a-c) - "Pinecrest requires developers of new construction or remodeling that exceeds 50 percent of the appraised building value to set forth a design indicating how the roof will be built to accommodate a PV or SWH system. The ultimate owner is responsible for the eventual installation of either a PV or SWH system." (145)</li> </ul>						
Survey Results	Written in the stal ready or utilize pas	keholder survey as sive solar"	s: "Require that b	uildings are solar-			
	ALL		<u> </u>				
	F = <mark>11.25</mark>	F = <mark>5.25</mark>	F = <mark>1.50</mark>	F = <mark>4.50</mark>			
	I = 3.25 I = 1.25 I = 0.25 I = 1.75						
	S = 2.25 S = 0.75 S = 0.25 S = 1.25						

	Written in the stakeholder survey as: "Require new construction to be 100% electric"				
	ALL		<u> </u>		
	F = <mark>12.25</mark>	F = <mark>5.50</mark>	F = <mark>1.25</mark>	F = <mark>5.50</mark>	
	l = <mark>2.25</mark>	l = <mark>1.00</mark>	l = <mark>0.25</mark>	l = <mark>1.00</mark>	
	S = <mark>0.25</mark>	S = <mark>0.50</mark>	S = <mark>0.25</mark>	S = <mark>-0.50</mark>	
Alternatives	<ol> <li>No action</li> <li>Amend cod forth a root energy syst</li> <li>Amend cod and able to from the el</li> <li>Amend cod require res degrees of</li> </ol>	le 36.6 to require of f design for how it tem, the owner wil de 36.6 to require b bear 8 lbs. of dea ectrical panel to th de 36.6 and adop idential buildings true north	levelopers of new will be built to acc I then be responsi new construction ad load per sf, and he roof t the provisions o to be aligned betw	construction to set commodate a solar ble for installation to be solar ready provide a conduit f the 2015 IRC to ween 110 and 270	

# Topic Area: Water Conservation

Idea: Remove code barriers to greywater systems and rainwater harvesting				
Priority: Short- to Medium	term			
Examples (Codes, Programs, Resources)	<ul> <li>Albuquerque Code of Ordinances Section 6-1-1-8 Water Budgets and Planting Restrictions - prohibits restrictive covenants barring rain barrels (32)</li> <li>Carrboro, NC Land Use Ordinance, Section 15-83.3 - final development approval by the town's land use administrator will not be granted where restrictive covenants bar, among other things, the use of rain barrels. (146)</li> <li>Colorado House Bill 16-1005 - "permitting use of rain barrels statewide and restricting ability of homeowners' associations to ban use of rain barrels" (3)</li> </ul>			
Survey Results	N/A			
Alternatives	<ol> <li>No action</li> <li>Amend code 30.4.6 and provide a coverage exemption for rainwater harvesting systems in California</li> <li>Since this is illegal in Nevada, make changes to BMP Handbook rather than amend code. Refer to (148, 149, and 150) for design checklists, operations &amp; maintenance guidelines, storage recommendations</li> </ol>			

Idea: Require water-efficient landscaping					
Priority: Short-term					
Examples (Codes, Programs, Resources)	<ul> <li>Santa Fe, NM Code of Ordinances 14.8.4E - Landscape design shall apply the principles of xeriscaping and achieve the highest industry standards for irrigation efficiency. Alternative sources of irrigation water shall be developed, including harvested water from roof and site runoff. Gray water use is recommended where appropriate. Potable water shall be used only as a back-up or temporary irrigation water source to the greatest extent possible. The purpose of these strategies is to develop drought tolerant landscapes and to reduce the demand on the potable water system. (205)</li> <li>Tucson, AZ, Tucson Code § 6-182,183 (2008) requires commercial properties to harvest rainwater for landscaping use (152)</li> <li>Las Vegas, Nevada recently passed a ban on nonfunctional, ornamental grasses (206)</li> <li>San Diego Ch 6 Article 7 Division 38 – Emergency Water Regulations, banning wasteful water practices, including: no runoff from outdoor landscape watering onto adjacent areas to the property, customers must repair water leaks, no washing paved areas without a shutoff nozzle, serving drinking water only upon request</li> </ul>				
Survey Results	F = 11.50         I = 5.00         S = 4.00	F = 5.50 I = 2.00 S = 1.50	F = 1.50 I = 0.75 S = 0.75	F = 4.50 I = 2.25 S = 1.75	
Alternatives	<ol> <li>No action</li> <li>Amend coc projects</li> <li>Amend cod no runoff fr the proper paved area upon reque</li> </ol>	le 36 to require > le 36.7 to prohibit rom outdoor landso ty, customers mu s without a shutof est. Please see San	eriscaping for all wasteful water p cape watering onto ust repair water l f nozzle, serving d Diego code (207).	new construction practices, including padjacent areas to leaks, no washing rinking water only	

4.	Amend code 36.7 to ban cool season or non-functional grasses
	(Stakeholders – question for landscapers – What types of grasses
	are water-intensive or cool season grasses?)

Idea: Incentivize retrofit of inefficient plumbing					
Priority: Short- to Medium	-term				
Examples (Codes, Programs, Resources)	<ul> <li>San Luis Obispo Municipal Code - 13.06.040 Retrofit upon sale -         "Before the close of escrow for any change of ownership, defined         by this chapter, of real property within the city, the selling owner(s)         or an authorized agent shall certify compliance with the retrofit         requirements of this chapter by obtaining a water conservation         certificate in accordance with Section 13.06.050." (153)</li> <li>Santa Cruz County Code 7.69.040 - "All existing residential,         commercial, and industrial buildings, shall, at the time of sale, be         retrofitted, if not already so, exclusively with high efficiency         plumbing fixtures. Pre-existing toilets that use not more than one         and six-tenths of a gallon per flush shall be considered to meet the         requirements of this chapter." (156)</li> </ul>				
Survey Results	F = 15.50         I = 4.25         S = 1.75	F = 7.00 I = 1.50 S = 0.75	F = 2.00 I = 0.75 S = 0.50	F = 6.50 I = 2.00 S = 0.50	
Alternatives	1. No action 2. Amend cod 3. Work with free aerato	le 60.4.5 to require local utilities to pr rs and educational	e retrofit upon sale ovide a water effic l brochures	e of property ciency kit including	

Idea: Require that water companies meter each connection and charge tiered rates				
Priority: Short- to Medium	-term			
Examples (Codes, Programs, Resources)	•	Denver, CO Section 401.3.2 - "each dwelling unit will be metered" (156) City of San Diego updated the water billing rates and added an additional tier to its rate structure (0-400 cubic feet) to encourage water conservation (92 and 158)		
Survey Results	N/A			
Alternatives	1. 2. 3.	No action Amend code 36.9 and require all new multi-family dwelling units to be metered. Work with local utilities Work with utilities to add additional tier to rate structure to encourage water conservation. For example, update the water billing rates and add an additional tier to its rate structure (0-400 cubic feet) to encourage water conservation (see 92 and 158)		

## Topic Area: Carbon Sequestration, Forestry Practices, and Vegetation

Idea: Allow for community gardens, limited agriculture, and community parks on						
residential lots						
Priority: Medium- to Long-	Priority: Medium- to Long-term					
Examples (Codes, Programs, Resources)	<ul> <li>Fitchburg, WI, Code of Ordinances § 22-6(d) (2010) Plantings in community gardens are limited to "fruits, vegetables, herbs, plants and flowers." The site must have an adequate supply of water to sustain all gardening activityAdditional structures to support the gardening operation are allowed. Storage sheds of 100 square feet or less may be installed, but must comport with applicable setback rules (199)</li> <li>Highland Park, MI, Code of Ordinances §1229 (2011) Regulations are in place to protect the well-being of residents, preserve property values, and help prevent groundwater pollution. The use of organic growing practices strongly encouragedcommunity gardens may not interfere with, or encroach upon, any setback area requirements of the parcel on which they are located. (200)</li> <li>Chicago, Ill., Zoning Ordinance and Land Use Ordinance, §§ 17-2-0207, 17-03-0207, 17-4-0207, 17-5-0207, 17-9-0103.5(A-B), 17-17-103(F)(1) - Community gardens are defined as those that are developed in neighborhoods with "the primary purpose of providing space for members of the community to grow plants for beautification, education, recreation, community distribution or personal use. Allows community gardens in all zoning districts</li> </ul>					
Survey Results	Written in stakeho limited agriculture o	older survey as: " on residential and	'Allow for commu public lots"	inity gardens and		
	<b>ALL</b> F = 8.00 I = 3.00 S = 4.00	F = <b>3.50</b> I = <b>0.75</b> S = <b>1.75</b>	F = 1.25 I = 0.50 S = 0.25	F = <b>3.25</b> I = <b>1.75</b> S = <b>2.00</b>		
Alternatives	1. No action					

2. 3. 4.	Amend code 21.3 to allow for community gardens in certain zoning districts, with specifications for types of gardens. For example, community gardens are limited to fruits, vegetables, herbs, plants, and flowers. Encourage organic growing practices. Community gardens may not interfere with, or encroach upon, any setback area requirements of the parcel on which they are located. (200) Amend 21.3 to allow for limited residential agriculture and sale of produce. Resident must obtain a small business license and comply with list of allowed foods and organic growing practices. Work with CTC/Forest Service to create a program to grow food for the community. Question for stakeholders and legal experts to interpret the Santini Burton Act: Is it possible to do a conservation easement to allow for community gardens and parks? Or is it considered development?
	considered development?

Idea: Require the planting of street trees for development in Town Centers					
Priority: Medium- to Long-	-term				
Examples (Codes, Programs, Resources)	•	Research has shown that "urban trees live fast, die young compared to those in rural forests" (214)			
Survey Results	N/A				
Alternatives	1. 2. 3.	No action Work with USFS and fire authorities for their expert opinion on urban trees and wildfire risk. Research has revealed discourse on how urban trees die young. Forest officials might know whether urban trees are feasible for town centers and can specify which species would survive. Work with TRPA Environmental Improvement Department to determine whether street trees would help with flooding, be a fire risk, or reduce heat island effect.			

Idea: Streamline code requirements to facilitate forest treatments in stream							
environment zones and	l riparian areas						
Priority: Medium- to Long-term							
Examples (Codes,							
Programs, Resources)							
Survey Results	ALL		ÊÊÊ				
	F = 10.00     F = 4.25     F = 1.50     F = 4.25						
	I = <mark>4.00</mark>	l = <mark>2.00</mark>	l = <mark>0.75</mark>	l = <mark>1.25</mark>			
	S = <mark>3.50</mark>	S = <mark>1.75</mark>	S = <mark>0.50</mark>	S = <mark>1.25</mark>			
Alternatives	<ol> <li>No action</li> <li>Work with TRPA Stormwater to determine what has been done and what is needed.</li> </ol>						

Idea: Provide design, height, and/or scenic exemptions for green roofs						
Priority: Short- to Medium-term						
Examples (Codes, Programs, Resources)	<ul> <li>Denver, CO Section 4.02 - The Green Buildings Ordinance requires new and existing buildings to comply with new requirements, encouraging green roofs; for existing buildings: "Green space equal to 2% of GFA of building, 18% of total roof area, or available roof space on building, whichever is least" (1); cash-in-lieu at \$50 per square foot of total green space req, character-defining roof may be exempted from green roof requirement, campus-wide compliance options for multi-building projects" (159 and 161)</li> <li>Chicago, IL, Municipal Code of Chicago § 17-4-1015 - "incentivizes the construction of green roofs on buildings in the Chicago downtown mixed used district to reduce the stress rainwater runoff places on storm water management systems. The ordinance provides that developers building in the downtown mixed-used districts may receive a Floor Area Ration (FAR) bonus when green roof is applied into the developers building." (160)</li> <li>Model Code Provision for Green Roof Incentives - Capitol Region Council of Governments - incentives, code compliance, height waiver (162)</li> </ul>					
Survey Results	<b>ALL</b> F = 8.00 I = 2.50 S = 2.50	F = <mark>3.25</mark> l = <mark>0.25</mark> S = <mark>0.25</mark>	F = 1.50 I = 0.75 S = 0.25	F = <b>3.25</b> I = <b>1.50</b> S = <b>2.00</b>		
Alternatives	<ol> <li>No action</li> <li>Amend coor Please see</li> <li>Amend cod</li> <li>Amend cod</li> <li>Amend cod</li> <li>green root specificatio</li> </ol>	de 36.6 to provide Denver code (159 de 37.4 to include h de 36.6 to require fs and comply v ons	e design standard and 161). neight specificatior new and existing vith design stand	s for green roofs. ns for green roofs. buildings to install dards and height		

Idea: Develop a mitigat	ion program to of	fset lost carbon	sequestration of	due to tree
removal				
Priority: Medium- to Long-	term			
Examples (Codes, Programs, Resources)	<ul> <li>City of Palo Alto purchases carbon offsets - has list of their projects (69)</li> <li>CURB Tool - cool tool that uses local data to provide tailored analyses to help evaluate low carbon actions (68)</li> </ul>			
Survey Results	F = 12.75         I = 3.50         S = 2.00	F = 6.00 I = 1.75 S = 1.00	F = 2.00 I = 0.50 S = 0.25	F = 4.75 I = 1.25 S = 0.75
Alternatives	<ol> <li>No action</li> <li>Develop a mitigation program to offset lost carbon sequestration due to tree removal.</li> <li>Reference CURB tool or create a similar tool for Tahoe. Please see CURB tool (68).</li> <li>Collaborate and create education-based programs to promote individual and business actions, like those listed in the TRPA Sustainability Action Plan.</li> </ol>			

Г

٦

## Topic Area: Adaptation and Resiliency

Idea: Allow for fee in lieu of BMPs to fund area-wide BMP green infrastructure									
Priority: Medium- to Long-term									
Examples (Codes,	N/A								
Programs, Resources)									
Survey Results	Written in the stakeholder survey as: "Promote the use of comprehensive coverage management in area plans"								
	ALL		<u> </u>						
	F = <mark>8.25</mark>	F = <mark>3.25</mark>	F = <mark>1.75</mark>	F = <mark>3.25</mark>					
	l = <mark>1.50</mark>	l = <mark>0.75</mark>	l = <mark>0.25</mark>	l = <mark>0.50</mark>					
	S = <mark>0.25</mark>	S = <mark>0.00</mark>	S = <mark>0.00</mark>	S = <mark>0.25</mark>					
Alternatives	<ol> <li>No action</li> <li>Check with TRPA Housing and Stormwater to see what work is already being done on this.</li> </ol>								

Idea: Incentivize energy backup systems (battery, propane generators)							
Priority: Short-term							
Examples (Codes, Programs, Resources)	<ul> <li>New York City has code for emergency backup power systems with links to their code (70)</li> <li>Fire risk - Fire Safe Marin says: Fire Safe Marin does not recommend the operation of standalone, gas-powered generators during Red Flag Warnings or other fire weather events. A permanently (professionally) installed, propane or natural gas- powered generator is safer and less likely to spark a fire or expose residents to dangerous combustion gasses. (71)</li> </ul>						
Survey Results	N/A						
Alternatives	<ul> <li>No action</li> <li>Amend code 36.10 and 65.1.4 to establish design standards for energy backup systems (battery and propane generators) and define when they are prohibited (ex: during fire warnings).</li> </ul>						

Idea: Require home ha	rdening on new co	onstruction and	major remodels	s within the					
WUI									
Priority: Short- to Medium	-term								
Examples (Codes, Programs, Resources)	<ul> <li>Washington DC has a Climate Ready DC Resilient Design Guidelines resource (96)</li> <li>Fire Safe Marin is a nonprofit supported by the Marin Wildfire Prevention Authority – has a website dedicated to information about how to harden homes, create a fire-safe yard, and more (211)</li> </ul>								
Survey Results	Written in stakeholder survey as: "Require home hardening on new construction and major remodels within the wildlife-urban interface (retrofit with fire resistant building materials, clear vegetation near the structure)"								
	ALL		鐕						
	F = <mark>13.25</mark>	F = <mark>6.50</mark>	F = <mark>1.75</mark>	F = <mark>5.00</mark>					
	l = <mark>4.25</mark>	l = <mark>2.25</mark>	l = <mark>0.50</mark>	l = <mark>1.50</mark>					
	S = <mark>3.50</mark>	S = <mark>1.75</mark>	S = <mark>0.25</mark>	S = <mark>1.50</mark>					
Alternatives	<ol> <li>No action</li> <li>Amend cod on new con ratings of e barriers. Ple</li> <li>Amend cod exceed the Insurance I stakeholder Prepared H</li> <li>Create a "F to harden y cafiresafecc</li> <li>Work with current req</li> </ol>	S = 3.50S = 1.75S = 0.25S = 1.501. No action2. Amend code 36.6 and require fire and smoke protection features on new construction and major remodels, including fire-resistance ratings of exterior bearing walls, structural members, and smoke barriers. Please see CA Building Code Chapter 7 (212).3. Amend code 36 and require new single-family homes to meet or exceed the Wildfire Prepared Home designation from the Insurance Institute for Business & Home Safety (221). Work with stakeholders to find ways to mitigate equity issues – a Wildfire Prepared Home has added initial costs.4. Create a "Fire Safe Tahoe" webpage with information about how to harden your home. Direct CA residents to websites including the cafiresafecouncil.org, readyforwildfire.org, and wildfirerisk.org.5. Work with defensible space assessors to identify any gaps in							

Г

٦

idea. Code amenuments adapting to increased nood risk and promoting innitiation									
through site- and area-level infiltration									
Priority: Medium- to Long-term									
Examples (Codes, Programs, Resources)	<ul> <li>Ground floor of homes can be designed to allow water to flow through with minimal damage (1)</li> <li>Reassess and adjust required primary building setbacks to be measured from FEMA floodplain boundaries rather than property lines (1)</li> <li>Clustering and development rights pooling - where property size would allow for multiple single-family lots, require clustering of smaller lots away from flood risks; allow lots closer to flood risk to transfer building potential (units or floor area) to adjacent lots located further from flood risks (1)</li> <li>Allow automatic adjustment of side and rear lot lines to allow homes to be built on the same lot but further from flood risk (1)</li> <li>Construction size limits - reduce maximum size of allowed structures near flood risk areas to reduce maximum occupancy (and perhaps frequency of occupancy) (1)</li> </ul>								
Survey Results	N/A								
Alternatives	1. No action								
	2. Work with states on legislation aimed at insurance companies								
	<ol> <li>Check with TRPA Stormwater program to see what is needed and what work has already been done. Identify where flooding poses a risk.</li> </ol>								

# Workforce Housing

Idea: Limited coverage exemptions for workforce housing										
Priority: Short- to Medium-term										
Examples (Codes,	N/A									
Programs, Resources)										
Survey Results	ALL		888 888							
	F = <mark>8.75</mark>	F = <mark>3.50</mark>	F = <mark>1.75</mark>	F = <mark>3.50</mark>						
	l = <mark>3.75</mark>	l = <mark>1.50</mark>	l = <mark>0.50</mark>	l = <mark>1.75</mark>						
	S = <mark>3.00</mark>	S = <mark>1.25</mark>	S = <mark>0.00</mark>	S = <mark>1.75</mark>						
Alternatives	<ol> <li>No action</li> <li>Continue working with TRPA Housing to see what is needed in the code. Reach out to counties in the region for their input.</li> </ol>									

Idea: Limited increases to density or density exemptions for workforce housing											
Priority: Short- to Medium-term											
Examples (Codes,	N/A										
Programs, Resources)											
Survey Results	ALL		888 888								
	F = <mark>8.75</mark>	F = <mark>3.75</mark>	F = <mark>1.50</mark>	F = <mark>3.50</mark>							
	l = <mark>3.50</mark>	l = <mark>1.50</mark>	l = <mark>0.50</mark>	l = <mark>1.50</mark>							
	S = <mark>2.75</mark>	S = <mark>1.00</mark>	S = <mark>0.25</mark>	S = <mark>1.50</mark>							
Alternatives	<ol> <li>No action</li> <li>Continue working with TRPA Housing to see what is needed in the code. Reach out to counties in the region for their input.</li> </ol>										

Idea: Additional height allowances for workforce housing									
Priority: Short- to Medium-term									
Examples (Codes,	N/A								
Programs, Resources)									
Survey Results	ALL		888 888						
	F = <mark>7.75</mark>	F = <mark>2.75</mark>	F = <mark>1.50</mark>	F = <mark>3.50</mark>					
	l = <mark>1.75</mark>	l = <mark>0.25</mark>	l = <mark>0.25</mark>	l = <mark>1.25</mark>					
	S = <mark>1.25</mark>	S = <mark>0.00</mark>	S = <mark>0.00</mark>	S = <mark>1.25</mark>					
Alternatives	<ol> <li>No action</li> <li>Continue working with TRPA Housing to see what is needed in the code. Reach out to counties in the region for their input.</li> </ol>								

### Stakeholder Survey Questions

### Survey Platform Used: Qualtrics



#### Lake Tahoe Regional Climate Resiliency Code Survey

#### Help us build a more resilient Tahoe!

TRPA, in collaboration with partners like you, is exploring possible amendments to the regional Code of Ordinances to encourage climate resilient building practices. We are in the initial stages of this work. Responses to this survey will help TRPA define priority amendment areas. Concepts in this survey are based on best practice research and do not necessarily reflect what TRPA will implement.

This survey should take no longer than 10-15 minutes to complete and works best on a computer or laptop. Please do not share this survey link. Results of the survey are anonymous. An aggregated summary of survey results will be made available to participants. As work on the potential amendments progress, there will be additional opportunities for input.

Learn more about sustainability and climate resilient strategies at TRPA.gov. Thank you for your time and dedication to protecting Lake Tahoe!

Deadline: 8/19/22

Please enter your information.

Name		
Title		
Organization		
Email		

Rank the following categories from most urgent (1) to least urgent (10) to incorporate into TRPA's climate resilient code amendments. Drag and rearrange.

Traffic Congestion
Energy Conservation
Energy Generation
Zero-Emission Vehicle Infrastructure
Waste Diversion (e.g. food scrap recycling)
Sustainable Construction and Development
Water Conservation
Carbon Sequestration, Forestry Practices, and Vegetation
Adaptation and Resiliency (benchmark, audits, and retrofits for existing buildings)
Housing

#### **Topic Area: Traffic Congestion**

The Regional Transportation Plan (RTP) and Regional Plan include strategies to reduce traffic congestion. Code amendments may address some additional strategies that have been identified since the last RTP update.

#### Rate each idea on feasibility, impact, and level of support.

	How much effort and resources will this idea require to implement?			If implemented, what type of climate resilience impact will this idea have on the region?				What is your/your organization's level of support for this idea?			
	Not sure	Little	Moderate	Significant	Not sure	Negative	Insignificant	Positive	Do not support	Neutral	Support
Require snow clearing on multi-use trails	0	0	0	0	0	0	0	0	0	0	0
Incentivize reduction of traffic congestion with travel to/from temporary events	0	0	0	0	0	0	$\circ$	0	0	0	0

Any thoughts or suggestions for mitigating negative impacts from traffic congestion?

#### **Topic Area: Energy Conservation**

Current technology allows for increased energy efficiency. TRPA can encourage new technology to help build climate resiliency.

#### Rate each idea on feasibility, impact, and level of support.

	How much effort and resources will this idea require to implement?			If implemented, what type of climate resilience impact will this idea have on the region?				What is your/your organization's level of support for this idea?			
	Not sure	Little	Moderate	Significant	Not sure	Negative	Insignificant	Positive	Do not support	Neutral	Support
Require use of 'cool' materials on roofing to reduce heat island effect	0	0	0	0	0	0	0	0	0	0	0
Set a maximum energy budget for new residents and require mitigation for energy use beyond that budget	0	0	0	0	0	0	0	0	0	0	0
Require full building electrification in new construction and incentives to convert existing development	0	0	0	0	0	0	0	0	0	0	0

Any thoughts or suggestions for energy conservation code amendments?

#### **Topic Area: Energy Generation**

Remove barriers and encourage renewable energy generation, including solar, wind, and geothermal.

### Rate each idea on feasibility, impact, and level of support.

	How much effort and resources will this idea require to implement?			If implemented, what type of climate resilience impact will this idea have on the region?				What is your/your organization's level of support for this idea?			
	Not sure	Little	Moderate	Significant	Not sure	Negative	Insignificant	Positive	Do not support	Neutral	Support
Require parking lots of a certain size to include solar panels over carports	0	0	0	0	0	0	0	0	0	0	0
Provide exemptions from standards to better accommodate renewable energy installations	0	0	0	0	0	0	0	0	0	0	0
Identify appropriate locations for solar, wind, and geothermal installations and streamline permitting	0	0	0	0	0	0	$\bigcirc$	0	0	0	0
Establish design standards for battery storage	0	0	0	0	0	0	0	0	0	0	0

Any thoughts or suggestions for energy generation code amendments?

#### **Topic Area: Zero-emission Vehicles**

Anticipate increases in zero-emission vehicles (cars and watercraft) in the region by encouraging installation of EV charging stations, and promoting hybrid and electric vehicles at rental car companies.

#### Rate each idea on feasibility, impact, and level of support.

	How much effort and resources will this idea require to implement?				If implemer	nted, what type this idea ha	of climate resilienc ve on the region?	What is your/your organization's level of support for this idea?			
	Not sure	Little	Moderate	Significant	Not sure	Negative	Insignificant	Positive	Do not support	Neutral	Support
Require electric vehicle charging stations for parking lots of a certain size	0	0	0	0	0	0	0	0	0	0	0
Allow coverage exemptions for electric vehicle charging stations	0	0	0	0	0	0	0	0	0	0	0
Require rental car companies to only rent hybrid or electric vehicles	0	0	0	0	0	0	0	0	0	0	0
Require existing marinas to install watercraft charging stations	0	0	0	0	0	0	0	0	0	0	0
Allow electric boat charging stations to be installed outside of marinas	0	0	0	0	0	0	0	0	0	0	0

Any thoughts or suggestions on zero-emission vehicle code amendments?

#### **Topic Areas: Water Conservation**

Promote water conserving practices, including rainwater harvesting, water-efficient landscaping, and efficient plumbing.

Rate each idea on feasibility, impact, and level of support.

	How much effort and resources will this idea require to implement?			If impleme	nted, what type this idea ha	of climate resilien we on the region?	What is your/your organization's level of support for this idea?				
	Not sure	Little	Moderate	Significant	Not sure	Negative	Insignificant	Positive	Do not support	Neutral	Support
Require water-efficient landscaping	0	0	0	0	0	0	0	0	0	0	0
Require retrofit of inefficient plumbing	0	0	0	0	0	0	0	0	0	0	0

Any thoughts or suggestions on water conservation code amendments?



#### **Topic Areas: Waste Diversion**

Decrease waste and encourage waste diversion by considering food waste digesters, zero-waste for temporary events, and requirements for businesses.

#### Rate each idea on feasibility, impact, and level of support.

	How much effort and resources will this idea require to implement?			If implemer	nted, what type this idea ha	of climate resilience ve on the region?	What is your/your organization's level of support for this idea?				
	Not sure	Little	Moderate	Significant	Not sure	Negative	Insignificant	Positive	Do not support	Neutral	Support
Identify appropriate locations for a food waste digester and ensure it is a permissible use	0	0	0	0	0	0	0	0	0	0	0
Encourage food waste diversion	0	$\circ$	0	0	0	0	0	0	0	0	0
Require or incentivize zero-waste for temporary event permits	0	0	0	0	0	0	0	0	0	0	0

#### Any thoughts or suggestions on waste diversion code amendments?

#### Topic Area: Sustainable Construction and Development

Promote the use of recycled construction materials, incentivize environmentally beneficial redevelopment in town centers, and encourage construction of solarready buildings.

#### Rate each idea on feasibility, impact, and level of support.

	How much effort and resources will this idea require to implement?				If implemer	ited, what type this idea ha	of climate resilience ve on the region?	What is your/your organization's level of support for this idea?			
	Not sure	Little	Moderate	Significant	Not sure	Negative	Insignificant	Positive	Do not support	Neutral	Support
Allow the use of recycled materials in construction	0	0	0	0	0	0	0	0	0	0	0
Require new construction to be 100% electric	0	$\circ$	0	0	0	0	$\circ$	$\circ$	0	$\circ$	0
Require that buildings are solar-ready or utilize passive solar	0	0	0	0	0	0	0	0	0	0	0
Encourage additional energy and water efficiency standards for buildings (example: LEED certification)	0	0	0	0	0	0	0	0	0	0	0
Limited coverage exemption or design requirement exemptions for building sustainability improvements	0	0	0	0	0	0	0	0	0	0	0
Require new structures to be built with tankless water heaters	0	0	0	0	0	0	0	0	0	0	0

Any thoughts or suggestions on sustainable construction and development code amendments?

#### **Topic Area: Adaptation and Resiliency**

Transition toward a Code of Ordinances that better supports climate adaptation and resiliency.

Note: Comprehensive coverage management is a tool that jurisdictions may use as part of an area plan to address coverage limitations at the area-wide rather than parcel scale. Comprehensive coverage management does not increase the total allowable coverage in an area.
#### Rate each idea on feasibility, impact, and level of support.

	How much effort and resources will this idea require to implement?			If implemented, what type of climate resilience impact will this idea have on the region?			What is your/your organization's level of support for this idea?				
	Not sure	Little	Moderate	Significant	Not sure	Negative	Insignificant	Positive	Do not support	Neutral	Support
Require benchmarking, auditing, retrofitting of existing buildings by a certain date	0	0	0	0	0	0	0	0	0	0	0
Promote the use of comprehensive coverage management in area plans	0	0	0	0	0	0	0	0	0	0	0
Require home hardening on new construction and major remodels within the wildlife-urban interface (retrofit with fire resistant building materials, clear vegetation near the structure)	0	0	0	0	0	0	0	0	0	0	0

Any thoughts or suggestions for how TRPA could promote environmental redevelopment of town centers?

Topic Area: Carbon Sequestration, Forestry Practices, and Vegetation

Encourage practices that promote healthy forests.

Rate each idea on feasibility, impact, and level of support.

	How much effort and resources will this idea require to implement?			If implemented, what type of climate resilience impact will this idea have on the region?			What is your/your organization's level of support for this idea?				
	Not sure	Little	Moderate	Significant	Not sure	Negative	Insignificant	Positive	Do not support	Neutral	Support
Allow for community gardens and limited agriculture on residential and public lots	0	0	0	0	0	0	0	0	0	0	0
Provide design, height, and/or scenic exemptions for green roofs	0	0	0	0	0	0	0	0	0	0	0
Develop a mitigation program to offset lost carbon sequestration due to tree removal	0	0	0	0	0	0	0	0	0	0	0
Streamline code requirements to facilitate forest treatments in stream environment zones and riparian areas	0	0	0	0	0	0	0	0	0	0	0

Any thoughts or suggestions for carbon sequestration, forestry practices, and vegetation code amendments?

#### **Topic Area: Workforce Housing**

Support more workforce housing in the region and address the affordable housing shortage with a range of climate benefits.

Rate each idea on feasibility, impact, and level of support.

	How much effort and resources will this idea require to implement?			If implemented, what type of climate resilience impact will this idea have on the region?			What is your/your organization's level of support for this idea?				
	Not sure	Little	Moderate	Significant	Not sure	Negative	Insignificant	Positive	Do not support	Neutral	Support
Limited coverage exemptions for workforce housing	0	0	0	0	0	0	0	0	0	0	0
Limited increases to density or density exemptions for workforce housing	0	0	0	0	0	0	0	0	0	0	0
Additional height allowances for workforce housing	0	$\bigcirc$	$\circ$	0	0	$\circ$	$\circ$	0	0	0	0

Any thoughts or suggestions on workforce housing code amendments?

#### All categories

Please add any additional thoughts, comments, or suggestions concerning climate resiliency strategies as a whole.



 $\rightarrow$ 

# Stakeholder Survey All Category Results







To view all results and individual stakeholder responses, please see separate "TRPA Climate Code Survey" spreadsheet.

## Stakeholder Survey Comments

Traffic congestion (VMT reduction)

- Implementing better access to, mapping of, and accurate timing of public transit would be great. The current apps tend to be way off, and buses uses the same roads as cars so traffic isn't really helped. Could there be a dedicated bus lane, at least during the highest traffic times? Maybe use the middle lane? Could we look at trolley cars on dedicated tracks like in larger metro areas?
- Tolls have been considered.
- Prioritize concentrated development patterns, regional transit and trail connections, and viable transit from the Bay Area and other major population centers
- There need to be stricter fines and increased enforcement (towing of vehicles). The increased traffic is causing significant disturbances and parking needs to be enforced. There also needs to be an increase in public transportation and some sort of incentives for doing so (i.e. you should have to pay for parking everywhere and should probably be charged for leaving your hotel and then driving back). We could give all proceeds to the Washoe Tribe. We need to stop building and expanding parking cause this is only adding to the traffic problem. Public Transportation is sorely needed.
- Serious efforts need to be put in to reduce the amount of traffic and cars in the basin, parking is also a huge problem, more enforcement is needed.
- Requiring bike racks, loading/unloading zones for transit, Commute Tahoe Code changes
- Traffic police support, designated venue parking and shuttle transportation, stateline parking garage project
- Public Perception outreach important, offer incentives!
- develop public transportation to reduce negative effects of vehicles and occupants
- Provide water based transportation around the lake. Use the model of the early 1900's.
- Basin Entry Fee and TRPA needs to support and stop undermining TTD/One Tahoe
- Stop advertising for Lake Tahoe, enough tourism exists without further promotion.
- Electrify an expanded micro transit program. Requiring snow clearing on trails would be a significant staff/equipment burden for the city for likely few users during the winter. Open to changing my mind with data, though.
- Better develop parking and bikeways along Hwy 50 in Nevada to ensure safety and reduce vehicle usage.
- Increase Tart Connect and resolve connectivity to each area to reduce connection times
- Create safe lanes for E bikes and scooters
- Regarding human behavior more traffic congestion = less driving, as driving becomes less convenient compared to other modes of transportation. Thus tactics to make driving less convenient could include: reduce parking/downsize parking lots/increase parking fees, drop lanes to make alternative forms of mobility more attractive); help transit become free, frequent & convenient; support/add more alternative mobility options. (Need more info to provide a guess on the effort/resources needed are you asking about TRPA's implementation or community's implementation? In other words: enforcement or actions needed for project achievement?)

- Removing snow on multi-use trails is unlikely to reduce traffic, except for in urban areas (South Lake) along pathways to/from places of business. Otherwise, it is highly unlikely to have any impact on traffic, and the plows needed to clear the trails will contribute to air pollution. When it's cold, snowy, and icy, people are going to drive, and tourists are going to drive regardless of conditions. Measures that promote, encourage, and incentivize public transportation will have a much larger impact on traffic congestion.
- Would like to explore opportunities to minimize the amount of ICE cars coming into the basin

#### Energy conservation

- Does new residents mean new construction? I'm not sure how this would could be checked. I'm
  guessing it would generate lawsuits and potentially reduce new construction as people find ways
  around the regulation. For full electrification, our electrical grid would need to be more reliable
  and potentially undergrounded. This would be a major cost who would pay for it? Solar is not
  great here due to snow and tree cover, so full electrification (though a nice idea) sounds like an
  exceptional burden for most buildings, particularly residential.
- There is very little confidence in our power grid with full transition to electric. Also fire mitigation shut downs make this a concern.
- require or incentivize electrification of construction and maintenance equipment, increase insulation requirements for buildings
- No more building. no more new housing. no part time residents.
- due to orientation and tree cover may be impossible in some areas.
- education/public outreach to ensure public is informed of the amount of resources they use, and why they might need to cut back
- I do not know enough on this topic.
- Need to look at Living Building Challenge and encourage new builds to be off grid and off water and sewer with new technology. Take a hard look at roadway requirements County and Fire all too much pavement.
- By 'new residents' do you mean 'new construction'? That was unclear. I like the idea of electrification of new construction, but with heating backup systems (wood stove or batteries or generators if need be). I am not a pro in this. I would consult New Buildings Institute. Equity concerns are important.
- 100% electrification is very costly and will be met with great resistance. I would propose a significant move toward this but allow for some NG use for fireplaces, ranges, and back up generators. Over time battery tech will replace back up generators, but a diverse grid is in our interest.
- Apply cool pavement technology for parking lots; expand cool roofs to include green roofs; (Side note: it's a little difficult to guess what the amount of effort is needed to implement these ideas, because we don't know the parameters are you asking for effort to change all existing roofs to cool roofs, or change only new construction projects are you asking about effort to enforce the code or effort to change the roof itself?)

- Many of the homes and buildings in Tahoe are old; encouraging the retrofitting of older buildings to be more energy and heat efficient would likely make a sizeable impact on energy usage in the Basin. Given how frequent power outages are throughout CA and NV due to intentional (shut off to prevent or reduce wildfires) and unintentional (weather, trees, damage to powerlines) causes, full building electrification seems unwise at this time as it would to require buildings to rely on a single source of power. Use of energy efficient appliances and fixtures should be strongly encouraged and is a more feasible goal.
- rather than reducing energy use, may be easier to reduce new building size

### Energy generation

- All of this sounds great! Additionally, incentivizing people to have solar, heat pumps, generators, etc. by exempting equipment for these things from coverage calculations would be amazing.
- Solar can be tricky in heavily tree populated/shade areas with heavy snowfall.
- Renewable energy generation is likely more viable "off the hill" particularly in the Carson Valley. WOrk with regional energy suppliers to increase renewable investments for utility providers that serve Tahoe. Incentivize rooftop solar on new buildings
- Require preparation for renewable generation in new construction (conduit, engineering, roof pitch and building orientation)
- streamline permitting needs oversight, moreover to discourage nepotism.
- Stop parking minimums, allow biomass to thermal in the basin
- Not sure if design standards would help or hinder battery installation. And, being familiar with Liberty Utilities and the challenges of managing an energy grid, I hope that any intermittent RE could be coupled with storage (hope to see costs come down soon). Also, I heard that TRPA dings RE installations on aesthetic grounds. Maybe considering RE aesthetically pleasing, something to be proud of, would be productive. Consult LU about large scale 'requirements' for solar before implementing.
- Provide incentives for home generation of renewable power and require the power grid to buy this energy.
- The best bang for the buck is efficiency. Starting with this will reduce energy emissions quicker and more effectively than any other approach.
- Title 24 currently provides exemptions for shaded buildings, thus the parking lot solar concept may also want to employ a similar eligibility requirement, so as to not have inefficient PV systems. Unclear what "establish design standards for battery storage" entails why is this needed? Is it already in place for RE options? Instead can there be some sort of incentive for battery storage, esp when partnered with RE? Can RE be required as a reach code beyond new construction impacts, but to existing buildings of a certain size must invest or implement RE, which is sized based on the percent of energy they currently use?
- I am unable to support exemptions from standards for renewable energy installations until I have an understanding of what those exemptions would be. Further, the disturbance and destruction of habitat for power-generating facilities would outweigh the benefit of having such a minimal amount of energy generated within the basin.

### Zero-emissions vehicles

- Though all sound good, I think some are getting ahead of themselves. It makses sense to incentivize and require new EV charging stations, but I think the infrastructure needs to be there before requiring all rentals to be hybrid or full electric. The boating will likely have little impact since most boats are not yet electric. Maybe with the next round of amendments in a few years?
- We should remove all motorized boats from Tahoe. End of story. Other places have already done this and why wouldn't we do this at one of the most beautiful lakes in the world?
- What is the trade off for lithium batteries and mining opposed to gas powered vehicles, are we just creating a similar situation for 50 years down the line? I would rather focus on reduction of vehicles in the basin in general then green alternatives. Like public transportation.
- Require EV charging stations for new development and retrofit (not just parking lot size), require
  PEV-ready wiring in new construction, reduce parking requirements in exchange for installation
  of charging units or allowing PEV charging spaces to count toward minimum parking requirements
  that charging is an allowed land use such as an accessory or a principal use in as many types
  of zoning classifications as possible, reduce parking requirements in exchange for installation of
  charging units or allowing PEV charging spaces to count toward minimum parking requirements
- water clarity is paramount to Tahoe
- Issuing mandates is not as effective as providing incentives.
- charge those who emit instead of subsidizing zero emission. Trails should be zero emission. Zero emission should mean very little to no noise. TRPA needs to enforce noise and black smoke emissions from diesel trucks now instead of building ev infrastructure.
- I like the idea of coverage exemptions for charging stations. Parking lots were not originally designed for them, so the exemption might be important. I am thinking of a certain project right now where coverage might be an issue for deployment of 12 chargers.
- Reach codes beyond CALGreen T24 requirements for EV charging stations be added to new construction, or perhaps push to include this in existing buildings that are of a certain size (casinos, hotels, mutifamily residential buildings).
- Would like to see a program that helps lower income households purchase EVs and fleet electrification standards for larger companies

### Water conservation

- It'll be a hard sell for updating existing plumbing, especially for residential. Might be a condition of new construction and remodels/additions over a certain size for now?
- Ban use of fertilizers that contribute to algal blooms
- Lawns should be illegal!!!
- These are good ideas but, TRPA and Counties have some much garbage code layered over each other that robs projects from doing actual good work. How about looking at all this tired language eg mobility fees that assess property owners instead of users?
- STPUD is the largest electric customer in SLT. Every gallon of water is pumped with electricity. A given yard uses 2-4x the household's use. Landscape water pumping is a significant GHG source.

STPUD has a great natural experiment on this last year when they had to mandate no landscape water in the Keys. Easy GHG calc.

- Strategize better opportunities for reuse of wastewater generated in the basin.
- Funding support for inefficient plumbing should be considered for household at or below certain income thresholds

### Waste diversion

- This would be a good addition.
- Add additional fines for events that due not comply. Enforcement is incredibly important.
- composting, start a composting program.
- Don't allow plastic water bottles for temporary event permits, and even more widely if possible
- How about shared garbage facilities in Town Centers and food waste drop off at local areas. TRPA and County allow dumpsters everywhere without screening or recycling.
- STR has stellar food waste diversion numbers already. I am helping implement SB1383. Call me:)
- Instead of 'encourage food waste diversion', requiring it will be truly impactful over a voluntary program. Isn't Tahoe subject to SB 1383 mandatory organics waste collection? Not really sure how many temporary event permits are used each year, thus that idea might yield an insignificant impact, if events are infrequent.
- There should be stricter requirements to limit trash generation within the basin, and compostable/reusable packaging, utensils, etc. should be encouraged. Additionally, public or retail/restaurant compost bins and info/education should be strongly encouraged (ex: at restaurants, at the resorts, at marinas/beaches, etc). Banning styrofoam and single-use plastic waterbottles across the basin would have a significant impact on waste reduction, particularly in terms of impacts on Lake Tahoe. Encourage or require installation of easily accessible waterbottle refill stations in all new public/commercial buildings and beaches (where applicable). Further information about the byproducts of food waste digesters are needed before it is a permissible use within the basin.

Sustainable construction and development

- The solar question is a big one; it's great, but tough to implement in our area. This makes going 100% electric really challenging in most instances.
- The construction industry is already highly regulated in CA. Impacts need to be thoroughly examined at all climates to be justified.
- All electric homes relying on solar in this region is not a realistic solution with the winters we have. During the winter, panels will be covered with snow and when the power goes out during snow storms only gas appliances still work for heating.
- limits should be set on new construction.
- The majority of the world's electricity still comes from the burning of fossil fuels. So, what will be accomplished by mandating that new construction be 100% electric?

- It is my understadning tankless water heaters do not work well in our environment, at least that is what my plumber told me. ast
- These are greenwashing categories. Trpa needs to be triple bottom line
- Require this of \*new\* buildings? or existing? Very different feelings. Consider heat pump water heaters as an option. I don't know anyone pushing electric tankless.
- Efficiency is the key element. The more this is imposed, the greater the cost. Creating financial offsets or other value based incentives will be important to the roll out. Going 100% electric on a new structure can double the cost of heating and cooling. TO being this cost down requires super insulation and air tight construction which then requires air exchange systems, adding a new cost to construction. It's the best way to build but it costs more. Efficient windows might be the lowest lying fruit.
- Language adjustments to the above concepts: Require the use of recycled materials in construction. Require that buildings are solar-ready AND utilize passive solar. REQUIRE additional energy and water efficiency standards for buildings. Are tankless water heaters really the best or only EE option to include ? What about heat pump water heaters? If the key purpose is energy efficiency, heat pumps are typically more efficient.
- Many of the homes and buildings in Tahoe are old; encouraging the retrofitting of older buildings to be more energy and heat efficient would likely make a sizeable impact on energy usage in the Basin. Given how frequent power outages are throughout CA and NV due to intentional (shut off to prevent or reduce wildfires) and unintentional (weather, trees, damage to powerlines) causes, full building electrification seems unwise at this time as it would to require buildings to rely on a single source of power. Use of energy efficient appliances and fixtures should be strongly encouraged and is a more feasible goal.
- Would like to explore feasibility of grey water reuse for on site irrigation purposes

### Adaptation and resiliency

- Not sure what comprehensive coverage management means or would do. WUI requirements are already present for all new construction, it's a good idea for remodels/additions but rules would need to be clear whether it includes just the new portions of the structure or everything. This will be an expensive regulation to implement if it includes everything
  - 1st step is acknowledging partial responsibility for blight and deterioration of town center. 2nd step is managing STR impacts and returning homes to community members
  - New construction requirements seem fair, but there is so little of it in our city that it will have little impact. I am very unsure about what to do about our existing building stock. Major equity concerns.
  - Revise traffic patterns and roadways to better promote pedestrian usage of key areas.
  - Create more pedestrian based areas, divert traffic, provide parking, bicycle and E transportation lanes
  - I tend to think of benchmarking, facility audits, and retrofits for existing buildings better aligned with the Energy Conservation section, rather than Adaptation and Resiliency section. Though I suppose Resiliency is kind of an umbrella catch-all for climate action. Need more

details regarding what comprehensive coverage management in area plans entails. Given we have more existing infrastructure rather than new construction/renovations, would home hardening requirements be more impactful if it applied to all structures - existing and new?

• Encourage more open, green, and natural spaces. Promote public transportation.

Carbon sequestration, forestry practices, and vegetation

- How would the mitigation for tree removal work? Just a fee? Or a requirement to plant new trees? Or a donation to an established reforestation program?
- Promote the use of small scale or portable biomass energy generators, as well as air curtain burners
- support biomass to thermal projects and implement one tahoe
- Green roofs in Tahoe?! I think that's a Valley thing:) I am pretty sure we need to reduce the number of trees in the basin, at least in the city (especially considering drought), so requiring offsets seems the wrong approach.
- Provide better enforcement of red flay days and prohibition of fires in recreation areas aroung the lake.

Workforce housing

- Make sure there is a realistic AMI% used for definition of workforce housing before implementing.
- Some jurisdictions offer incentives for long term rentals. Why not give the people currently renting long-term some incentives or tax credits for having done the right thing? Why not reward GOOD behavior. It's like the vaccinations
- Support incremental redevelopment, big ticket projects that send our local wealth to outside the basin cannot fix housing they only displace one problem for another. Learn how to invest in communities and make them strong. As an agency you have been against the small developer and small business. Why do you think our towns and communities are fragile?
- If we can house our workers here instead of them driving from Carson, it seems there would be a GHG benefit. But I would defer to data and experts in all these things.
- We are in desperate need of adequate (eg: includes in-unit or building heaters, kitchen facilities, etc.) workforce and non-tourist housing.
- EV infrastructure at time of construction for all multifamily housing, work with community partners to develop lower income EV ride share program

Additional thoughts, comments, or suggestions concerning climate resiliency strategies as a whole

- Keep up the good work
- Please focus on fixing the algae problem by limiting or banning fertilized lawns that drain directly into the lake (such as the Tahoe Keys development).

- We need to give Lake Tahoe personhood so that it is treated as a living being and not a resource. This included the Tahoe Basin as a whole. If we are able to significantly shift our perspective on the land and the lake through a lens that values land/water above profits then we can start to move forward in a better direction. We are still only placing band aids on a bigger issue and that is we do not respect the land or the lake as anything more than a resource to be developed and place to use for our own pleasure and benefit.
- A lot of these questions don't seem to address climate resiliency as a whole. It seems like putting
  a limit on building, vehicles emissions, etc would be more beneficial then finding other supposed
  "green" ways to continue to expand development in the Basin. For Example, The Washoe Tribe
  would rather see limits set on the amount of boats allowed in the lake rather than requiring Echarging stations at marinas. Any changes to codes or ordinances should be putting limits/caps
  on vehicles, boats, development, etc, rather than trying to find "green alternatives" that will still
  allow more boats, more development, etc.
- Da'aw is the heart of our people, and we deserve a continued presence is and around the lake. This body of water deserves the same recognition as a sacred member of all of our families and everything should be done to preserve the land and water
- Join the Strong Towns movement. Support One Tahoe. Stop undermining TTD, we need a transit authority. Push back on parking and road standards. Reduce cost for and incentivize incremental redevelopment.
- Support a triple bottom line that retains local wealth and invests in the community. Modify coverage rules in town center and write policies that encourage innovation. Manage STRs to return homes to residents, TRPA needs to be accountable to what has happened to communities by allowing unchecked STRs.
- We must remain equity focused. The City of South Lake Tahoe is in the middle of a contract with a consultant and will be hosting stakeholder engagement meetings to discuss the development of a reach code for new and existing building stock. I'm sure TRPA will be represented. Also, thinking about retrofits, etc, our lack of trained licensed contractors is an issue in SLT. We don't want to inadvertently push people to do things without permits. Thanks for the opportunity to chime in.
- I believe there are additional amendments to made to the TRPA Code of Ordinances. 1 The maximum allowable height table needs to be revised to account for modern designs with shed roofs. Example: A 4:12 shed roof reaches the exact same height as an 8:12 gable roof, and yet the gable roof is allowed approximately 5' additional height. This makes no sense and needs to be revised to meet the current designs of modern times. 2 IPES parcels need to be allowed to challenge the land capability. Baileys parcels are being given high land capability scores, whereas an adjacent IPES parcel with identical soil properties is considered low land capability due to an inaccurate score that was given 40 years. We need to have the right to challenge the IPES. I understand it was a legal agreement that IPES cannot be challenged, but I'm sure an amendment could be made that would allow exceptions to the code. Please consider amending the above items ASAP. Thank you
- Hard to do the category ranking in a vacuum one suggestion is that question should be located last, after the participant has a better idea of what concepts TRPA was considering for each section. But really, it doesn't matter what we think should be ranked first it should be dependent

on what sectors contribute the highest GHG emissions and prioritized in terms of biggest impact for the action. Given energy is 66% of emissions, followed by transportation at 37%, shouldn't those be the top categories to focus on?

In addition to traffic congestion, parking congestion is a huge and dangerous problem. This could be eased by the enforcement of no-parking signs (especially near Sand Harbor and Emerald Bay), and through the increase in public transportation. TRPA could look into requiring mitigation for any new project that would increase visitation or number of people in the Basin by requiring developers to support or encourage access to public transportation (prevent additional vehicles on the road). While this is usually considered and required for construction of buildings, as evidenced by the congestion and traffic, current practices are not working. Further, we would like to see more measures and amendments that protect the Lake and Basin, in addition to those proposed to reduce the impact of increased visitation and development to/in the Basin. The Basin is still being degraded, and mitigating the cause will only solve part of the problem. To weather the upcoming climate change and challenges, the basin needs to be better able to pivot to respond to degradation and unexpected and sudden changes to the landscape (fire, species loss, habitat loss, beach degradation, etc.). A more proactive strategy is needed, in addition to mitigating measures.

# Attachment 1: Methodology for Survey Analysis

Question # 1: Rank All Categories

- Took the average of the rankings for each category
- Ranked in order of least to highest number

Questions #2 – 10: Feasibility, Impact, Support

- Feasibility
  - The responses were weighted as so:
    - Not Sure = 0
    - Little = 1
    - Moderate = 2
    - Significant = 3
  - o Then the average was taken
  - Formula: [ (# Not Sure responses \* 0) + (# Little responses \* 1) + (# Moderate responses \* 2) + (# Significant responses \* 3) ] / 4
  - A lower score means the idea is more feasible to implement; a higher score means the idea is less feasible to implement
  - For all 24 respondents, the scale ranges from 0 to 18
- Impact
  - The responses were weighted as so:
    - Not Sure = 0
    - Negative = -1
    - Insignificant = 0
    - Positive = +1
  - Then the average was taken
  - Formula: [ (# Not Sure responses\*0) + (# Negative responses\*-1) + (# Insignificant responses\*0) + (# Positive responses\*+1) ] / 4
  - A higher score means a more positive impact; a lower score means a more negative impact
- Support
  - The responses were weighted as so:
    - Do Not Support = -1
    - Neutral = 0
    - Support = +1
  - Then the average was taken
  - Formula: [ (# Do Not Support responses\*-1) + (# Neutral responses\*0) + (# Support responses\*+1) ] / 4
  - o A higher score means more support; a lower score means less support

- Each category had a text box for respondents to write any comments. The end of the survey had a text box for any final comments about the survey content in general.
- All category analysis
  - The average was taken of all the ideas to result in the Overall Average Feasibility, Impact, and Support for each category
  - An average was taken of each category's feasibility, impact, and support numbers. Then the standard deviation was taken
  - Colors were assigned to each category compared to its ranking against other categories
    - Feasibility
      - The Average + 1 Standard Deviation and the Average 1 Standard Deviation = YELLOW
      - Below average and standard deviations = GREEN
      - Above average and standard deviations = ORANGE
    - Impact
      - The Average + 1 Standard Deviation and the Average 1 Standard Deviation = YELLOW
      - Below average and standard deviations = ORANGE
      - Above average and standard deviations = GREEN
    - Support
      - The Average + 1 Standard Deviation and the Average 1 Standard Deviation = YELLOW
      - Below average and standard deviations = ORANGE
      - Above average and standard deviations = GREEN
- Each amendment idea analysis
  - The same analysis was conducted for each amendment idea as the All Category analysis above
    - The average was taken for all amendment ideas
    - The standard deviation was taken
    - Ideas that were near the average or above/below 1 standard deviation were assigned YELLOW
    - Feasibility: ideas that were below the average and standard deviations were assigned GREEN; above were assigned ORANGE
    - Impact: ideas that were below the average and standard deviations were assigned ORANGE; above were assigned GREEN
- Stakeholder category analysis
  - The same analysis was taken for each stakeholder category as the All Category analysis above
    - Government/Public Service
      - Feasibility ranged from 0.00 7.50
      - Impact ranged from -2.50 2.50

- Support ranged from -2.50 2.50
- NGO/CBO
  - Feasibility ranged from 0.00 2.25
  - Impact ranged from -0.75 0.75
  - Support ranged from -0.75 0.75
- Private/Development Organizations
  - Feasibility ranged from 0.00 8.25
  - Impact ranged from -2.75 2.75
  - Support ranged from -2.75 2.75

#	Source	Reference	Source Link
1	University of Denver Sturm College of Law	Planning for Climate Change - Practical Strategies for Local Governments - Rocky Mountain Land Use Institute - March 6, 2020 - Slideshow	https://www.law.du.edu/documen ts/rmlui/conference/powerpoints/ 2020/ConnollyBPlanningForClimate Change- PlanningForClimateChange.pdf
2	City of Glendale, Arizona	Landscape Rebate - Webpage	https://www.glendaleaz.com/live/c ity_services/water_services/water_ conservation_and_sustainable_livin g/landscape_rebate
3	University of Denver Sturm College of Law	Addressing Climate Change through Implementation of Local Programs, Policies, and Incentives - Sarah Fox, Assistant Professor, Northern Illinois University College of Law - Slideshow - Slide 10	https://www.law.du.edu/documen ts/rmlui/conference/powerpoints/ 2020/FoxSarahAddressingClimateC hange- HotTopicsInWaterAndLandPlanning ForClimateAdaptation.pdf
4	U.S. Department of Energy - Energy Efficiency & Renewable Energy	Alternative Fuels Data Center - California Laws and Incentives - Webpage	https://afdc.energy.gov/laws/all?st ate=CA
5	Transit Wiki	Special Event and Game Day Services - Webpage	https://www.transitwiki.org/Transi tWiki/index.php/Special_Event_an d_Game_Day_Services
6	Washington State Department of Transportation - Office of Research & Library Services	WSDOT Research Report: Impacts of VMT Reduction Strategies on Selected Areas and Groups - Page 47 - Report	https://www.wsdot.wa.gov/researc h/reports/fullreports/751.1.pdf
7	CSU Monterey Bay	Vehicle Miles Traveled Impact Analysis for the	https://csumb.edu/media/csumb/s ection-editors/facilities/Appendix-

# Attachment 2: Reference Links

		Monterey Bay Football Club	DVMT-Impact-Analysis-
		- Page 25-28 - Memorandum	Compressed-compressed.pdf
8	BBC	Five of the most radical car- free city experiments - Stephen Dowling - Article	https://www.bbc.com/future/articl e/20140318-five-car-free-city- experiments
9	City of San Jose - Planning, Building and Code Enforcement	Bulletin #290 Tankless Water Heater Requirements - Infosheet	https://www.sanjoseca.gov/home/ showpublisheddocument/26027/6 37693068749200000
10	Sunnyvale, CA - Building and Planning Division	Residential Water Heaters - Infosheet	https://www.sunnyvale.ca.gov/ho me/showpublisheddocument/1424 /637820676092970000
11	California Energy Commission	2022 Building Energy Efficiency Standards Summary - Infosheet	https://www.energy.ca.gov/sites/d efault/files/2021- 08/CEC_2022_EnergyCodeUpdateS ummary_ADA.pdf
12	CNN	Cities tried to cut natural gas from new homes. The GOP and gas lobby preemptively quashed their effort - Ella Nilsen - Article	https://www.cnn.com/2022/02/17 /politics/natural-gas-ban- preemptive-laws-gop- climate/index.html
13	CalMatters	Restricting natural gas in California is a recipe for blackouts - Lance Christensen - Commentary	https://calmatters.org/commentar y/2022/03/restricting-natural-gas- in-california-is-a-recipe-for- blackouts/
14	Sustainable Development Code	Chapter 7.5 Energy Conservation and Efficiency: Establish Maximum Size of Single-Family Residences - Webpage	https://sustainablecitycode.org/bri ef/establish-maximum-size-of- single-family-residences-7/
15	Perma.cc	Los Angeles Municipal Code Sec. 12.08 "R1" One-Family Zone	https://perma.cc/YUZ6-ZYJL

16	Sustainable Development Code	Chapter 7.5 Energy Conservation and Efficiency: Third-Party Certification	https://sustainablecitycode.org/bri ef/third-party-certification- requirements-3/
17	Sustainable	Requirements - Webpage	https://sustainablosity.codo.org/bri
17	Development Code	Process to Resolve Tree Interference with Solar Access	ef/process-to-resolve-tree- interference-with-solar-access/
18	University of San Diego School of Law - Energy Policy Initiatives Center	California's Solar Shade Control Act: A Review of the Statutes and Relevant Cases -	https://www.sandiego.edu/law/do cuments/centers/epic/100329_SSC A_Final_000.pdf
19	Sacramento County Public Law Library	Trees and Plants in the Neighborhood - Webpage	https://saclaw.org/articles/trees- plants-neighborhood/
20	Sierra Sun	1st electric boat charging station installed at Tahoe; Rides offered - Article	https://www.sierrasun.com/news/ 1st-electric-boat-charging-station- installed-at-tahoe-rides-offered/
21	Sustainable Development Code	Chapter 4.5 Electric Vehicles: Priority Parking for Hybrid & Electric Vehicles	https://sustainablecitycode.org/bri ef/priority-parking-for-hybrid- electric-vehicles-2/
22	Perma.cc	Arcadia, California Code of Ordinances Article IX Division and Use of Land Ch. 1 Division 3 Section 9103.07.140	https://perma.cc/6L38-HVR4
23	Perma.cc	Chelan, WA Municipal Code Title 17 Chapter 17.63 Electric Vehicle Charging Station	https://perma.cc/P3K3-HM68
24	Transportation & Climate Initiative	Siting and Design Guidelines for Electric Vehicle Supply Equipment - Report	https://www.transportationandcli mate.org/sites/default/files/EV_Siti ng_and_Design_Guidelines.pdf

25	City of Oakland	Electric Vehicle	http://www2.oaklandnet.com/oakc
	Planning & Building Department	Infrastructure Requirements for New Multi-Family and Nonresidential Buildings - Infosheet	a1/groups/pwa/documents/report/ oak063669.pdf
26	California Energy Commission	2022 Energy Code	https://www.energy.ca.gov/publica tions/2022/2022-building-energy- efficiency-standards-residential- and-nonresidential
27	Douglas County, Colorado Department of Community Development	Exterior Residential Lighting Guidelines for Communities - Infosheet	https://www.douglas.co.us/docum ents/exterios-residential-lighting- guidelines-for-communities.pdf/
28	Sustainable Development Code	Chapter 7.5 Energy Conservation and Efficiency	https://sustainablecitycode.org/bri ef/energy-benchmarking-auditing- and-upgrading-2/
29	City of Los Angeles Department of Building and Safety	Mandatory Retrofit Programs - Webpage	https://www.ladbs.org/services/co re-services/plan-check- permit/plan-check-permit-special- assistance/mandatory-retrofit- programs
30	C40 Knowledge	How to set energy efficiency standards for existing buildings - Implementation Guide	https://www.c40knowledgehub.or g/s/article/How-to-set-energy- efficiency-standards-for-existing- buildings?language=en_US
31	Sustainable Development Code	Chapter 1.4 Water Supply Quality and Quantity - Rainwater Harvesting	https://sustainablecitycode.org/bri ef/rainwater-harvesting-3/
32	Perma.cc	Albuquerque Code of Ordinances Section 6-1-1-8 Water Budgets and Planting Restrictions	https://perma.cc/6QSQ-7ZGN

33	County of San Luis Obispo, California Department of Planning and Building Permit Center City of San Luis	Free Plumbing Retrofit Program - Webpage Plumbing Retrofit	https://www.slocounty.ca.gov/Dep artments/Planning- Building/Department- Services/Agriculture,-Water,-and- Energy/Water-Programs/Programs- and-Services/(Free)-Plumbing- Retrofit-Program.aspx https://www.slocity.org/governme
	Obispo, California Utilities Department	Verification Program - Webpage	nt/department-directory/utilities- department/conservation/toilet- retrofit-information
35	Santa Cruz County, California	Code Section 7.69 Water Conservation	https://www.codepublishing.com/ CA/SantaCruzCounty/html/SantaCr uzCounty07/SantaCruzCounty0769. html
36	Sustainable Development Code	Chapter 3.3 Mixed-Use - Community Gardens on Private Property as a By- Right or Permitted Use	https://sustainablecitycode.org/bri ef/community-gardens-on-private- property-as-a-by-right-or- permitted-use-3/
37	Yale Environment 360	Why Putting Solar Canopies on Parking Lots Is a Smart Green Move - Article	https://e360.yale.edu/features/put ting-solar-panels-atop-parking-lots- a-green-energy-solution
38	University of Massachusetts Amherst Center for Agriculture, Food, and the Environment - Clean Energy Extension	Dual-Use: Crop and Livestock Considerations - Infosheet	https://ag.umass.edu/clean- energy/fact-sheets/dual-use-crop- livestock-considerations
39	ResearchGate	Solar Parking Requirements - Book Chapter	https://www.researchgate.net/pub lication/345050840_Solar_Parking_ Requirements

40	Washington Post	The best idea in a long time: Covering parking lots with solar panels - Article	https://www.washingtonpost.com/ news/energy- environment/wp/2015/01/28/the- best-idea-in-a-long-time-covering- parking-lots-with-solar-panels/
41	Development Code	Change Height & Setbacks to Encourage Renewables	ef/change-height-setbacks-to- encourage-renewables-2/
42	Sustainable Development Code	Chapter 7.2 Solar Energy: Property Tax Exemptions for Renewable Energy Systems	https://sustainablecitycode.org/bri ef/property-tax-exemptions-for- renewable-energy-systems-2/
43	Sustainable Development Code	Chapter 7.2 Solar Energy: Solar-Ready Construction	https://sustainablecitycode.org/bri ef/solar-ready-construction/
44	Sustainable Development Code	Chapter 7.2 Solar Energy: Solar Energy Systems as Special Use Exceptions	https://sustainablecitycode.org/bri ef/solar-energy-systems-as-special- use-exceptions/
45	Perma.cc	Kent, Connecticut Zoning Regulations - Planning & Zoning Commission - Section 9140 Exceptions to Height Limitation	https://perma.cc/5TEU-UT8Y
46	Perma.cc	A Comprehensive Review of Solar Access Law in the United States: Suggested Standards for a Model Statue and Ordinance - Report	https://perma.cc/R445-NHDT
47	California Legislative Information	Title 7 Division 1 Chapter 4 Article 2 65850.5 (a)	https://leginfo.legislature.ca.gov/fa ces/codes_displaySection.xhtml?la wCode=GOV&sectionNum=65850.5
48	Legiscan	New Jersey Senate Bill 427	https://legiscan.com/NJ/text/S427/ id/2095039

49	Justia US Law	New Jersey Revised Statutes Title 13 Section 13:19-5.4 - Solar panels not included in certain calculations relative to coastal development	https://law.justia.com/codes/new- jersey/2021/title-13/section-13-19- 5- 4/#:~:text=Notwithstanding%20the %20provisions%20of%20any%20rul e%20or%20regulation,the%20provi sions%20of%20P.L.1973%2C%20c.1 85%20%28C.13%3A19- 1%20et%20seq.%29.
50	Sustainable Development Code	Chapter 7.2 Solar Energy - Streamline Solar Permitting and Inspection Processes	https://sustainablecitycode.org/bri ef/streamline-solar-permitting-and- inspection-processes/
51	U.S. Environmental Protection Agency	How to Identify Sites - RE- Powering Mapper - Webpage	https://www.epa.gov/re- powering/how-identify-sites
52	American Cities Climate Challenge	Solar and Storage for Cities - Report	https://cityrenewables.org/wp- content/uploads/2020/11/Solar- and-Storage-for-Cities.pdf
53	City of Irvine	Battery Storage System - Webpage	https://www.cityofirvine.org/com munity-development/battery- storage-system
54	Waste Dive	Landfills emerge as promising battery storage sites to back up renewable energy - Article	https://www.wastedive.com/news /landfills-promising-sites-battery- storage-solar-renewable- energy/577898/
55	New York State Department of Environmental Conservation	Food Donation and Food Scraps Recycling Law - Webpage	https://www.dec.ny.gov/chemical/ 114499.html
56	City of Austin, TX	Commercial Organics Diversion Requirements - Webpage	https://www.austintexas.gov/bizor ganics

57	Oregon Metro	Starting in 2020, many	https://www.oregonmetro.gov/ne
	Agency	businesses must keep food out of the garbage - Article	ws/starting-2020-many-businesses- must-keep-food-out-garbage
58	O'Melveny & Meyers LLP	California's New Organic Waste Diversion Rules Take Effect - Article	https://www.omm.com/resources/ alerts-and- publications/alerts/californias-new- organic-waste-diversion-rules-take- effect/
59	RTS	What are cities doing about food waste? - Article	https://www.rts.com/blog/what- are-cities-doing-about-food-waste/
60	Perma.cc	City of Portland Chapter 17.106 Deconstruction of Buildings Law	https://perma.cc/H75E-KQGH
61	U.S. Environmental Protection Agency	Best Practices for Reducing, Reusing, and Recycling Construction and Demolition Materials - Webpage	https://www.epa.gov/smm/best- practices-reducing-reusing-and- recycling-construction-and- demolition-materials
62	City of Brea	Construction and Demolition Recycling Requirements - Infosheet and Form	https://www.ci.brea.ca.us/Docume ntCenter/View/1859/Waste- Management-Plan-Form?bidId=
63	Code Publishing	Half Moon Bay Municipal Code Chapter 14.50 Requirement for Construction and Demolition Waste Recycling	https://www.codepublishing.com/ CA/HalfMoonBay/html/HalfMoonB ay14/HalfMoonBay1450.html#14.5 0.040
64	Sunnyvale, CA	Special Event Application - Infosheet and Form	https://www.sunnyvale.ca.gov/ho me/showpublisheddocument/3026 /637822827219670000
65	City and County of San Francisco	San Francisco Outdoor Event Planning & Permitting Guide - Infosheet	https://sfgov.org/entertainment/sit es/default/files/Permit%20Applicat ion%20Process%20for%20Outdoor

			%20Special%20Events%20-
			%2007.19.pdf
66	Sebastopol, CA	Special Event Permit	https://www.ci.sebastopol.ca.us/ge
		Application - Infosheet and	tattachment/Our-
		Form	Community/Parks-Open-
			Space/Barlow-Green/Special-Event-
			Permit-Application-
			2021.pdf.aspx?lang=en-US
67	Santa Clara, CA	Special Event Application -	https://www.santaclaraca.gov/hom
		Infosheet and Form	e/showdocument?id=66683
68	The World Bank	The CURB Tool: Climate	https://www.worldbank.org/en/to
		Action for Urban	pic/urbandevelopment/brief/the-
		Sustainability - Webpage	curb-tool-climate-action-for-urban-
			sustainability
69	Palo Alto, CA	Carbon Offsets Projects -	https://www.cityofpaloalto.org/De
		Webpage	partments/Utilities/Sustainability/C
			arbon-Neutral-Electricity-and-
			Natural-Gas/Carbon-Offsets-
			Projects
70	New York City	Design Professional	https://www1.nyc.gov/site/buildin
	Buildings	Requirements: Emergency	gs/industry/project-requirements-
		Backup Power Systems -	design-professional-emergency-
		Webpage	backup.page
71	Fire Safe Marin	Backup Power & Generators	https://firesafemarin.org/prepare-
		- Webpage	yourself/backup-power-
			generators/
72	Sustainable	Chapter 1.6 Solid Waste	https://sustainablecitycode.org/bri
	Development	Management and Recycling	ef/composting-in-agricultural-
	Code		residential-and-commercial-
			districts/
73	Portland, OR	Garbage, Recycling, and	https://www.portland.gov/bps/gar
		Compost - Webpage	bage-recycling
74	Portland, OR	Dark Skies Project:	https://www.portland.gov/bps/pla
		Strategies for Reducing Light	nning/dark-skies

		Pollution in Portland -	
		Webpage	
75	Portland, OR	Resources for affordable housing development in Portland - Webpage	https://www.portland.gov/bps/pla nning/ah-grant/resources- affordable-housing-development- portland
76	Portland, OR	About the Green Loop - Webpage	https://www.portland.gov/bps/pla nning/green-loop/about
77	Jacobs	Closing the Gap - LA River Path Will Link Underserved Communities to Provide a Sustainable, Regional Active Transportation Corridor - Article	https://www.jacobs.com/newsroo m/news/closing-gap-la-river-path- will-link-underserved-communities- provide-sustainable
78	Portland, OR	Biking - Webpage	https://www.portland.gov/transpo rtation-and-roads/biking
79	Portland, OR	What is a Healthy Blocks permit? - Webpage	https://www.portland.gov/transpo rtation/safestreetspdx/pbot- healthy-blocks
80	Portland, OR	Get a free water efficiency kit - Webpage	https://www.portland.gov/water/ water-efficiency- programs/watersavingkit
81	Portland, OR	Sunday Parkways Frequently Asked Questions 2022 - Webpage	https://www.portland.gov/sunday- parkways/faq
82	Portland, OR	Green business certification - Webpage	https://www.portland.gov/sustaina bilityatwork/green-business- certification-0
83	Seattle, WA	Transportation Electrification - Webpage	https://www.seattle.gov/environm ent/climate- change/transportation- /transportation-electrification

84	Seattle, WA	Exploring Road Pricing - Webpage	https://www.seattle.gov/environm ent/climate- change/transportation-/exploring- road-pricing
85	Seattle, WA	Energy Benchmarking - Webpage	https://www.seattle.gov/environm ent/climate-change/buildings-and- energy/energy-benchmarking
86	Seattle, WA	About Building Tune-Ups - Webpage	https://www.seattle.gov/environm ent/climate-change/buildings-and- energy/building-tune-ups/about- building-tune-ups
87	Seattle, WA	Seattle Energy Code	https://www.seattle.gov/environm ent/climate-change/buildings-and- energy/seattle-energy-code
88	Seattle, WA	City Facilities - Webpage	https://www.seattle.gov/environm ent/climate-change/buildings-and- energy/city-facilities
89	Seattle, WA	Sustainable Buildings & Sites - Webpage	https://www.seattle.gov/environm ent/climate-change/buildings-and- energy/city-facilities/sustainable- buildings-and-sites
90	Seattle, WA	Waste Prevention - Webpage	https://www.seattle.gov/utilities/p rotecting-our- environment/sustainability- tips/waste-prevention
91	Seattle, WA	About the P-Patch Program	https://www.seattle.gov/neighbor hoods/programs-and-services/p- patch-community- gardening/about-the-p-patch- program
92	San Diego, CA	Energy and Water Efficiency - Webpage	https://www.sandiego.gov/sustain ability/energy-and-water-efficiency

93	San Diego, CA	Clean and Renewable	https://www.sandiego.gov/sustain
		Energy - Webpage	ability/clean-and-renewable-
			energy
94	San Diego, CA	Mobility and Land Use -	https://www.sandiego.gov/sustain
		Webpage	ability/mobility-and-land-use
95	San Diego, CA	Zero Waste - Webpage	https://www.sandiego.gov/sustain
			ability/zero-waste
96	Washington DC	Climate Ready DC: Resilient	https://doee.dc.gov/sites/default/fi
	Department of	Design Guidelines - Report	les/dc/sites/ddoe/service_content/
	Energy &		attachments/CRDC%20resilient%20
	Environment		ed.pdf
97	Washington DC	Green Building Act of 2006 -	https://doee.dc.gov/node/7882
	Department of	Webpage	
	Energy &		
	Environment		
98	Washington DC	Green Building in the	https://doee.dc.gov/service/green
	Department of	District - Webpage	building
	Energy &		
	Environment		
99	Washington DC	District Sustainability	https://doee.dc.gov/service/district
	Department of	Awards - Webpage	-sustainability-awards
	Energy &		
	Environment		
100	Washington DC	Recycling, Waste and	https://doee.dc.gov/node/23872
	Department of	Hazards - For Businesses -	
	Energy & Environment	webpage	
	Environment		
101	Washington DC	Energy Related Regulations -	https://doee.dc.gov/service/energy
	Department of	Webpage	-related-regulations
	Energy &		
102	Washington DC	Sustainable Materials	https://doee.dc.gov/service/sustai
	Department of	Management - Webpage	nable-materials-management

	Energy & Environment		
103	The Municipal	Clearing a path: Snow removal on non-motorized transportation routes - Article	https://www.themunicipal.com/20 16/02/clearing-a-path-snow- removal-on-non-motorized- transportation-routes/
104	University of Delaware - Complete Communities Toolbox	Winter Maintenance of Pedestrian Facilities - Webpage	https://www.completecommunitie sde.org/planning/complete- streets/winter-maintenance/
105	University of Delaware - Library, Museums & Press	Winter Maintenance of Pedestrian Facilities in Delaware: A Guide for Local Governments - Report	https://udspace.udel.edu/handle/1 9716/10385
106	Wisconsin Department of Transportation	Wisconsin Pedestrian Policy Plan 2020 - Report	https://wisconsindot.gov/Documen ts/projects/multimodal/ped/2020- plan.pdf
107	De Pere, WI	Snow Plowing & Winter Sidewalks - Webpage	https://www.deperewi.gov/topic/i ndex.php?topicid=275&structureid =16
108	U.S. Department of Transportation Federal Highway Administration	A Guide for Maintaining Pedestrian Facilities for Enhanced Safety - Report	https://safety.fhwa.dot.gov/ped_bi ke/tools_solve/fhwasa13037/fhwas a13037.pdf
109	Minnesota Department of Transportation	Pedestrian Snow Removal Best Practices and Lessons Learned - Report	https://www.dot.state.mn.us/rese arch/TRS/2013/TRS1306.pdf
110	Gothamist	New Bike Lane Plows Could Offer Cyclists a Snowstorm Reprieve - Article	https://gothamist.com/news/new- bike-lane-plows-could-offer- cyclists-snowstorm-reprieve
111	Sacramento Area Bicycle Advocates	Bike Valet - Webpage	https://sites.google.com/sacbike.or g/bikevalet/home

112	Bike Santa Cruz	Valet Bike Parking -	https://www.bikesantacruzcounty.
	County	Webpage	org/valet-bike-parking
113	City of Los Angeles Bureau of Engineering	Guide to the City of Los Angeles Bicycle Parking Ordinance - Report	https://engpermitmanual.lacity.org /sites/default/files/documents/Bik e%20Parking%20Ordinance%20Gui de_Final%20Draftr.pdf
114	Seattle, WA	Bicycle Parking Guidelines and Application of Bicycle Parking Development Standards - Report	https://www.seattle.gov/Documen ts/Departments/SDOT/BikeProgra m/SDOT%20Bicycle%20Parking%20 Guidelines%20(2020).pdf
115	Municode	Seattle, Washington Municipal Code 24.40.007	https://library.municode.com/wa/s eattle/codes/municipal_code?node Id=TIT23LAUSCO_SUBTITLE_IIILAUS RE_CH23.40COREREXC_23.40.007R EREBUMASTCODWUN
116	Butte County	Butte Utility-Scale Solar Guide - Report	https://www.buttecounty.net/Port als/33/SolarZone/03_Development _and_Design_Guidelines.pdf
117	Los Angeles County	Los Angeles County Code Title 22 Amendment	http://file.lacounty.gov/SDSInter/b os/supdocs/109934.pdf
118	Vermont General Assembly	Act 56 Report: A Report to the Vermont General Assembly on Municipal Adoption of Solar Screening Regulations - Report	https://legislature.vermont.gov/ass ets/Legislative-Reports/Act-56- Report-DPSACCD-Final.pdf
119	California Department of Transportation	Route Restriction Procedures - Webpage	https://dot.ca.gov/programs/traffic -operations/legal-truck- access/restrict-process
120	Municode	Clayton, Delaware Code of Ordinances Section 1.3.2 Snow emergency route and snow removal	https://library.municode.com/de/cl ayton/codes/code_of_ordinances? nodeId=TIT1BUPUUTSIST_ART1.3SI _S1.3-2SNEMROSNRE

121	Portland, OR	City Code Chapter 17.43 Pedestrian Plazas	https://www.portland.gov/code/17 /43#toc17-43-070-structures-in- pedestrian-plazas-
122	San Diego, CA	San Diego Municipal Code Chapter 8 Article 5 Special Regulations	https://docs.sandiego.gov/municod e/MuniCodeChapter08/Ch08Art05 Division00.pdf
123	Municode	Williamsburg, VA Code of Ordinances Section 11-266 Operation and parking prohibited during certain hours; exceptions; erection of signs and markers	https://library.municode.com/va/w illiamsburg/codes/code_of_ordinan ces?nodeId=PTIITHCO_CH11MOVE TR_ARTVIISPREHICOAR_S11- 266OPPAPRDUCEHOEXERSIMA
124	Municode	San Anselmo, CA Code of Ordinances Section 9-19.010 Green Building Requirements	https://library.municode.com/ca/s an_anselmo/codes/code_of_ordina nces?nodeId=TIT9BURE_CH19GRB URE
125	Seattle, WA	Seattle City Council Resolution 31326 Sustainable Buildings and Sites Policy	http://clerk.seattle.gov/search/res ults?s1=sustainable+building+polic y&s3=&s2=&s4=&Sect4=AND&l=20 &Sect2=THESON&Sect3=PLURON& Sect5=RESNY&Sect6=HITOFF&d=RE SF&p=1&u=%2F%7Epublic%2Fresn y.htm&r=1&f=G
126	Washington DC Department of Energy & Environment	Green Building Act of 2006	https://doee.dc.gov/sites/default/fi les/dc/sites/ddoe/publication/attac hments/Green_Building_Act_of_20 06_B16-515.pdf
127	Hill County Alliance	Sample Texas Ordinance - Lighting Ordinance	http://www.hillcountryalliance.org /uploads/HCA/SampleOrdinance.p df
128	Municode	Citrus Heights, CA Code of Ordinances Chapter 106.35 Outdoor Lighting	https://library.municode.com/ca/ci trus_heights/codes/code_of_ordin ances?nodeId=COOR_CH106ZO_CH 106.35OULI

129	Boulder, CO	Energy Conservation Code - Webpage	https://bouldercolorado.gov/servic es/energy-conservation-code
130	Washington DC Department of Energy & Environment	Clean Energy DC Act	https://doee.dc.gov/service/clean- energy-dc-act
131	Berkeley Municipal Code	Chapter 12.80 Prohibition of Natural Gas Infrastructure in New Buildings	https://berkeley.municipal.codes/B MC/12.80
132	Legal Pathways to Deep Decarbonization	City and County of San Francisco File No. 200701 Mandating New Construction Be All-Electric	https://lpdd.org/wp- content/uploads/2020/11/SF-NG- Ban-Legislation.pdf
133	America Legal Publishing	San Francisco Building Inspection Commission Code AB-112 Implementation of All Electric New Construction Regulations	https://codelibrary.amlegal.com/co des/san_francisco/latest/sf_buildin g/0-0-0-100198
134	California Energy Commission	2022 Building Energy Efficiency Standards for Residential and Nonresidential Buildings - Webpage and Publication	https://www.energy.ca.gov/publica tions/2022/2022-building-energy- efficiency-standards-residential- and-nonresidential
135	Sacramento Municipal Utility District	Residential Go Electric - Webpage	https://www.smud.org/en/Rebates -and-Savings-Tips/Go- Electric/Residential-Go-Electric
136	City of Citrus Heights	Development Impact Fees - Infosheet	http://www.citrusheights.net/Docu mentCenter/View/105/Developme nt-Impact-Fees-Brochure- PDF?bidId=
137	Vermont	Town of Cornwall, Vermont Interim Bylaw Regarding Screening and Siting Requirements for Ground-	https://outside.vermont.gov/agenc y/ACCD/bylaws/Bylaws%20and%20 Plans%20Approved/Cornwall_Adop

		Mounted Solar Electric	ted_InterimBylaw_SolarScreening_
		Generation Projects over 15 kW	December_2015.pdf
138	eCode360	New York Battery Energy Storage System Law	https://ecode360.com/MO1094/la ws/LF1246263.pdf
139	Municode	City of Oakland, CA Code of Ordinances Ordinance No. 13419	https://library.municode.com/ca/O akland/ordinances/code_of_ordina nces?nodeId=820158
140	City of Lacey Municipal Code	Code 16.73.040 Design Criteria and Guidelines	https://lacey.municipal.codes/LMC /16.73.040
141	Municode	New Orleans, LA Code of Ordinances Chapter 146 Article VI Division 4A Electric Vehicle Chargers	https://library.municode.com/la/n ew_orleans/codes/code_of_ordina nces?nodeId=PTIICO_CH146STSIOT PUPL_ARTVIOBCUINUSST_DIV4AEL VECH
142	Oregon Metro Agency	Resolution No. 20-5067 Food Waste	https://www.oregonmetro.gov/site s/default/files/2020/06/29/Metro- Resoltuion-No-20-5067-Signed.pdf
143	Santa Clara, CA	Special Event Application - Infosheet and Form	https://www.santaclaraca.gov/Ho me/ShowDocument?id=61481
144	Perma.cc	Long Beach, CA Municipal Code Section 21.45.400 Green building standards for public and private development	https://perma.cc/72VX-3RHZ
145	Perma.cc	Pinecrest, FL Code of Ordinances Chapter 30 Article 5 Division 5.27 Alternative energy systems and environmental conservation	https://perma.cc/Z9Z2-KBEX
146	Perma.cc	Town of Carrboro Article IV Section 15-83.2 Signs Posted	https://perma.cc/3UZZ-SHTJ

		to Disclose Development Plan	
147	Perma.cc	State of Colorado House Bill 16-1005 Rooftop Precipitation Collection	https://perma.cc/9QUL-NKQR
148	Flows to Bay	Rain Barrels and Cisterns - Infosheet	https://www.flowstobay.org/wp- content/uploads/2020/04/BASMAA _Rain-Barrel-Cistern-Information- Sheet.pdf
149	Montgomery County, MD	RainScapes - Infosheet	https://www.montgomerycountym d.gov/DEP/Resources/Files/downlo ads/rainscapes/fact- sheets/rainbarrelsCisterns.pdf
150	Southwest Florida Water Management District	Rain Barrels: A Homeowner's Guide - Infosheet	https://www.swfwmd.state.fl.us/si tes/default/files/store_products/ra in_barrels_guide.pdf
151	Perma.cc	Santa Fe, NM Section 7.13.11.7 Water Harvesting	https://perma.cc/5GYK-Y4FL
152	Perma.cc	Tucson, AZ Code of Ordinances Section 6-182 Rainwater harvesting plan	https://perma.cc/98JT-XXNH
153	San Luis Obispo, CA	Municipal Code 13.06.040 Retrofit upon sale	https://sanluisobispo.municipal.co des/Code/13.06.040
154	City of Watsonville	Transfer of Responsibility to Retrofit Form - Infosheet and Form	https://www.cityofwatsonville.org/ DocumentCenter/View/15937/City- of-Watsonville-Transfer-of- Responsibility-to-Retrofit-Form
155	City of Watsonville	Water Conservation Certification - Infosheet and Form	https://www.cityofwatsonville.org/ DocumentCenter/View/15938/City- of-Watsonville-Water- Conservation-Certification

156	Code Publishing	Santa Cruz County Code Section 7.69.40 Plumbing fixtures retrofit regulations	https://www.codepublishing.com/ CA/SantaCruzCounty/html/SantaCr uzCounty07/SantaCruzCounty0769. html#7.69.040
157	Denver, CO	2019 Denver Amendments to the 2018 International Plumbing Code Chapter 4 Fixture, Faucets and Fixture Fittings	https://denvergov.org/files/assets/ public/community-planning-and- development/documents/ds/buildi ng-codes/2019_dbc.pdf
158	San Diego, CA	Public Utilities - Water Billings Rates - Webpage	https://www.sandiego.gov/public- utilities/customer-service/water- and-sewer-rates/water
159	Denver, CO	Article IV Section 4.01 Green Building Requirements - Compliance Options	https://www.denvergov.org/files/a ssets/public/community-planning- and- development/documents/ds/gbo/g bo_rules_regs.pdf
160	Perma.cc	Chicago Zoning Ordinance Chapter 17	https://perma.cc/H3BC-UPR6
161	Perma.cc	Denver, CO Code of Ordinances Chapter 10 Article XIII Division 1 Section 10-300 Green Building	https://perma.cc/TV97-64LG
162	Perma.cc	Capitol Region Council of Governments - Model Regulations: Green Roof Incentives	https://perma.cc/4ZN7-BP6L
163	New York City	Zone Green Article I Chapter 2 Subsection 12 exterior wall thickness	https://www1.nyc.gov/assets/plan ning/download/pdf/plans/zone- green/adopted_text_amendment.p df#page=3
164	International Association of Plumbing and	2022 California Plumbing Code	https://epubs.iapmo.org/2022/CPC /

	Mechanical Officials		
165	Perma.cc	McCall, ID Chapter 10 Planned Unit Development	https://perma.cc/X39R-3W2G
166	Perma.cc	Orlando, FL Code of Ordinances Chapter 58 Part 6C Section 58.1118 Availability of Reductions	https://perma.cc/ETL2-US7J
167	Municode	Denver, CO Code of Ordinances Chapter 10 Article XIII Division 1 Section 10-300 Green Building	https://library.municode.com/co/d enver/codes/code_of_ordinances? nodeId=TITIIREMUCO_CH10BUBUR E_ARTXIIIGRBU
168	California Energy Commission	2022 Building Energy Efficiency Standards for Residential and Nonresidential Buildings - Webpage and Publication	https://www.energy.ca.gov/publica tions/2022/2022-building-energy- efficiency-standards-residential- and-nonresidential
169	San Luis Obispo, CA	Municipal Code 15.04.110 Amendments California Energy Code	https://sanluisobispo.municipal.co des/Code/15.04.110
170	Berkeley Municipal Code	Section 19.36.040 Amendments to the California Energy Code	https://berkeley.municipal.codes/B MC/19.36.040
171	Telluride, CO	Ordinance No. 1502 Amendments to Building Regulations	https://telluride- co.civicweb.net/filepro/documents /144931/?preview=112404
172	Los Angeles Department of Building and Safety	Ordinance No. 182110 Solar Energy Systems, Parking Lots	https://ladbs.org/docs/default- source/publications/ordinances/sol ar-zoning-ordinance- 182110.pdf?sfvrsn=9d03eb53_11
173	Transportation & Climate Initiative	Menu of Plug-In Electric Vehicle Incentives	https://www.transportationandcli mate.org/sites/default/files/Menu %20of%20Plug- In%20EV%20Incentives_Final.pdf
174	Perma.cc	Austin, TX Title 25 Chapter 25 Subchapter F Article 2 Development Standards	https://perma.cc/Z7KZ-VN9H
-----	--	--	--
175	Multnomah County, Oregon	Ordinance No. 1236 Amending Code Section 2 11.15.9205 Dark Sky Lighting Standards	https://multco-web7-psh-files- usw2.s3-us-west- 2.amazonaws.com/s3fs- public/1236.pdf
176	Better Buildings - U.S. Department of Energy	San Diego: More Efficient Street Lighting with Smart Technologies and Utility Support - Report	https://betterbuildingssolutioncent er.energy.gov/node/5464/pdf
177	San Diego, CA	City of San Diego Honored as an Energy Efficiency Grand Champion - Article	https://www.sandiego.gov/sites/de fault/files/newsrelease150622.pdf
178	Council of the District of Columbia	Code Chapter 14A Green Building Requirements	https://code.dccouncil.us/us/dc/co uncil/code/titles/6/chapters/14A/
179	Perma.cc	Laramie, WY Code of Ordinances Section 15.14.030 Alternative energy	https://perma.cc/F6VY-WF4H
180	Perma.cc	Pearisburg, Virginia Ordinance No. 16-05	https://perma.cc/EMZ8-L48C
181	Perma.cc	Winder, GA Code of Ordinances Section 29-10 Solar energy tax exemption	https://perma.cc/HWA3-9M7H
182	Perma.cc	Kenai Peninsula Borough, Alaska Code of Ordinances Section 5.12.101 Real property tax - Exemptions - Residential renewable energy systems	https://perma.cc/9Q4N-KNT2
183	Quality Code Publishing	Placer County, CA Code of Ordinances Section	https://library.qcode.us/lib/placer_ county_ca/pub/county_code/item/

		17.56.350 Ground-mounted residential solar electric generating systems	chapter_17-part_2-division_viii- article_17_56-17_56_350
184	Perma.cc	Del Mar, CA Trees, Scenic Views and Sunlight Application - Infosheet and Form	https://perma.cc/RZZ8-QGDS
185	Perma.cc	Yuba County, CA Code of Ordinances Article 3 Solar Energy System Requirements for Eligibility for Expedited, Streamline Permit Process, Reviews and Inspections	https://perma.cc/V58F-62CL
186	Perma.cc	Yuba County, CA Code of Ordinances Article 3 Solar Energy System Requirements for Eligibility for Expedited, Streamline Permit Process, Reviews and Inspections	https://perma.cc/V58F-62CL
187	County of Sonoma County Administrator's Office	26.88.206 Solar Energy Facilities - Special Use Standards	https://sonomacounty.ca.gov/admi nistrative-support-and-fiscal- services/county-administrators- office/ordinance-6064-exhibit-f
188	Puget Sound Regional Council	Electric Vehicle Infrastructure: A Guide for Local Governments in Washington State - Report	https://www.psrc.org/sites/default /files/2022-03/electric-vehicle- guidance.pdf
189	Quality Code Publishing	Escondido CA, Municipal Code Section 33-1124 Electric vehicle charging stations	https://library.qcode.us/lib/escondi do_ca/pub/municipal_code/item/c hapter_33-article_57-sec_33_1124
190	Redmond, WA	Municipal Code Section 21.40.020 Bicycle Parking	https://redmond.municipal.codes/ RZC/21.40.020

		Requirements and	
		Standards	
191	CA Governor's Office of Business and Economic Development	Section 15.58.050(C) Duties of the City's Chief Building Official	https://static.business.ca.gov/wp- content/uploads/2020/02/Redland s-Ordinance.pdf
192	Novato, CA	Ordinance No. 16.20 Exhibit A 4-19 Electric Vehicle Charging Systems	https://www.novato.org/home/sho wdocument?id=25779
193	CA Governor's Office of Business and Economic Development	Permitting Electric Vehicle Charging Stations: Best Practices - Webpage	https://business.ca.gov/industries/ zero-emission-vehicles/plug-in- readiness/permitting-electric- vehicle-charging-stations-best- practices/
194	Stockholm Environmental Institute	The feasibility of heavy battery electric trucks - Webpage	https://www.sei.org/publications/f easibility-heavy-battery-electric- trucks/
195	Auto Rental News	Operational and Legal Challenges to Electrify Car Rental Fleets - Article	https://www.autorentalnews.com/ 10143155/operational-and-legal- challenges-to-electrify-car-rental- fleets
196	Perma.cc	Chicago, IL Municipal Code Section 7-28-715 Composting standards	https://perma.cc/TGY8-YHAN
197	Perma.cc	Chicago, IL Municipal Code Section 11-4-2545 Urban farm accessory composting operation	https://perma.cc/5F7A-WXH6
198	Perma.cc	Chicago, IL Municipal Code Section 11-4-2510 Definitions	https://perma.cc/5XLT-F55X
199	Perma.cc	Fitchburg, WI Section 22-6 General provisions and exceptions	https://perma.cc/4PQG-3W9Y

200	Perma.cc	Highland Park, Michigan Zoning Ordinance	https://perma.cc/GV8U-PAXJ
201	American Legal Publishing Code Library	Chicago, IL Zoning Ordinance Section 17-2- 0200	https://codelibrary.amlegal.com/co des/chicago/latest/chicagozoning_i l/0-0-0-48923#JD_17-2-0200
202	Sustainable City	Bicycle Transit Enhancement Plan - Amendment	http://sustainablecity.org/legislatio n/bikelaw.htm
203	Bike SLO County	Bike Valet - Webpage	https://bikeslocounty.org/program s/valet/#tab-id-1
204	Perma.cc	Altoona WI Municipal Code Chapter 8.24 Public Nuisances	https://perma.cc/TX5V-66ZS
205	Municode	Santa Fe, NM Section 14-8.4 Landscape and Site Design	https://library.municode.com/nm/s anta_fe/codes/code_of_ordinances ?nodeId=CH14LADE_ART14- 8DEDEST_14-8.4LASIDE
206	Denver 7 News	Nevada enacts ban on 'non- functional grass' in an effort to conserve water - Article	https://www.thedenverchannel.co m/news/national/nevada-enacts- ban-on-non-functional-grass-in-an- effort-to-conserve- water#:~:text=Steve%20Sisolak%20 has%20signed%20legislation,grass %20so%20they%20conserve%20wa ter.
207	San Diego, CA	Section 67.3803 Water Waste Prohibitions	https://docs.sandiego.gov/municod e/MuniCodeChapter06/Ch06Art07 Division38.pdf
208	CA Department of Food and Agriculture	California Small Farm Food Safety Guidelines - Webpage	https://www.cdfa.ca.gov/is/i_&_c/ sffsg.html
209	University of CA Agriculture and Natural Resources	Selling Locally Grown Produce - Webpage	https://ucanr.edu/sites/CESonoma AgOmbuds/Produce_Farming/

210	Los Angeles	Section 99.04.106.5.3 Solar	https://www.ladbs.org/docs/defaul
	Department of Building and	Reflectance Index	t- source/publications/ordinances/co
	Safety		ol-roof-ordinance-
	Surcey		183149.pdf?sfvrsn=b003eb53 11
211	Fire Safe Marin	Harden Your Home -	https://firesafemarin.org/harden-
		Webpage	your-home/
212	International Code	2022 CA Building Code Title	https://codes.iccsafe.org/content/
	Council	24 Part 2 Chapter 7 Fire and	CABC2022P1/chapter-7-fire-and-
		Smoke Protection Features	smoke-protection-features
213	Reliance Foundry	11 Benefits of Street Trees	https://www.reliance-
		in Urban Spaces - Article	foundry.com/blog/11-benefits-
			street-trees
214	ScienceDaily	Urban trees 'live fast, die	https://www.sciencedaily.com/rele
		young' compared to those in	ases/2019/05/190508142450.htm
		rural forests - Report	
215	Tahoe Regional	Lake Tahoe Complete Street	https://www.trpa.gov/wp-
	Planning Agency	Resource Guide	content/uploads/documents/LakeT
			ahoe_Design-
			Guidelines_FINAL_Web.pdf
216	CA Energy	Local Ordinance Exceeding	https://www.energy.ca.gov/progra
	Commission	the 2019 Energy Code -	ms-and-topics/programs/building-
		Webpage	energy-efficiency-standards/2019-
			building-energy-efficiency-3
217	Los Gatos, CA	New Energy Reach Codes -	https://www.losgatosca.gov/Docu
		Infosheet	mentCenter/View/24369/Reach-
			Code-Handout
218	University of CA	Title 24: Residential Lighting	https://cltc.ucdavis.edu/title24-
	Davis California	- Webpage and Publications	residential-lighting
	Lighting		
	Technology		
	Center		

219	University of CA Davis California Lighting Technology Center	Nonresidential Lighting and Electrical Power Distribution - Report	https://energycodeace.com/downl oad/36047/file_path/fieldList/App Guide.NR.Lighting.EPD.2019
220	International Association of Plumbing and Mechanical Officials	2022 CA Plumbing Code	https://epubs.iapmo.org/2022/CPC /
221	Wildfire Prepared	Wildfire Prepared - Homeowner Guide	https://wildfireprepared.org/wp- content/uploads/WFPH-Standard- 2022-Homeowner-Guide.pdf