TAG	Strategy #	Strategy Category	Actions	Timeframe	Currently in an Adopted City Plan?		Owner of the Action Business	Participating / Active Stakeholders Business	Barriers or Limiting Factors Avoided Emission		Ancillary Benefits Quality life
				2015-2020 2020-2030 2030-2050		<u>C</u> urrent <u>D</u> evelopment <u>P</u> lan	<u>Government</u> <u>MultiFamily</u> <u>Nonprofit, NGOs</u> <u>Residents, All</u>	<u>G</u> overnment <u>M</u> ulti <u>F</u> amily <u>N</u> onprofit, NGOs	<u>F</u> unding <u>P</u> olicy <u>B</u> ehavior <u>C</u> hange <u>T</u> echnology	<u>D</u> irect <u>Indirect</u> <u>Large</u> <u>S</u> mall	Affordabl Health Jobs
MMTAG	OD-1	Organics Diversion	ARR maximizes effectiveness of Universal Recycling Ordinance in diverting organic materials.	2015-2020	ARR Master Plan (adopted 2010)	I—	SF-Single-family	SF-Single-family B, MF	BC, F	<u>C</u> onceptual/ NA	<u>W</u> ater 1, 4,
MMTAG	OD-2	Organics Diversion	ARR expands collection of food residuals and other compostable, non-recyclable materials to all residential	2015-2020	ARR Master Plan (in progress)	D	G	R	F, BC, T	DL	1, 5
MMTAG	OD-3	Organics Diversion	customers. Austin Water's Hornsby Bend compost operation transitions from yard trimmings to other carbon sources and bulking agents, such as clean lumber and tree	2015-2020	ARR Master Plan	P	G	G	P, F	DS	3, !
MMTAG	OD-4	Organics Diversion	trimmings from other City departments and their contractors. Private haulers collect all organics, non-recyclable	2020-2030	Partial	D,P	G, B, N	All	F, P, BC, T	DL	1, 2, 3
MMTAG	OD-5	Organics Diversion	materials from their customers. Urban agricultural operations, from community gardens to regional farmers, produce and use compost from	2020-2030	Tartiar	D	G, B, N	All	F, P, BC, T	DL	1, 2, 3
MMTAG	PU-1	Purchasing	local sources. City refines construction and building specifications to increase use of reclaimed materials.	2015-2020	ARR Master Plan	P	G	G	F, P	IL, C	1, 2
MMTAG	PU-2	Purchasing	City (and Travis County?) adopts specifications for materials reuse, reduced packaging, materials with recycled content, and locally manufactured products and encourages other agencies and enterprises to	2020-2030			G, B, N	G, B, N, R	P, T, F + Analysis	IL	1, 2,
MMTAG	MM-1	Methane Management	follow suit. ARR refines landfill gas capture and combustion system to destroy methane. Area landfill operators refine landfill gas capture and	2015-2020	ARR Master Plan	D	G	G	F, T	DL	Renev
WIWITAG	IVIIVI-T	Wethane Wanagement	combustion system to destroy methane at their landfills. With City encouragement, eligible landfills in Travis	2013 2020	(in progress)		, ,	J	1, 1	JE JE	ene
MMTAG	MM-2	Methane Management	County participate in EPA landfill methane outreach voluntary programs.	2020-2030		N	В	G	F	DL	renev ener innov
MMTAG MMTAG	RE-1 RE-2	Recycling Recycling	ARR expands materials accepted by curbside recycling service, increasing to weekly collection. ARR increases convenience and efficiency of downtown	2015-2020	ARR Master Plan (in progress) ARR Master Plan	D	G G	R, B B, MF	T, BC F, BC	IL IL	3, 1, 3
MMTAG	RE-3	Recycling	trash and recycling alley collection service. City adopts Pay-As-You-Throw rate structure to strengthen financial incentives to reduce disposal.	2015-2020	(in place) ARR Master Plan	Р	G	SF	Р, ВС	DL/IS	3,
MMTAG	RE-4	Recycling	ARR maximizes effectiveness of Universal Recycling Ordinance in diverting recyclable materials.	2015-2020	ARR Master Plan (in progress)	D	G	B, MF, N	F, BC	DL, C	1,
MMTAG	RR-1	Reduction/Reuse	ARR adds four new Reuse Centers, including for hard-to-recycle items.	2015-2020	ARR Master Plan	Р	G	G, B, N, R	P, F	IL	2,
MMTAG	RR-2	Reduction/Reuse	City supports local economic development through the (re)Manufacturing Hub, Austin Materials Marketplace, and reuse enterprises for repairing goods/products.	2015-2020	ARR Master Plan	Р	G	B, R, N	F, BC	IL, DS	2,
			City supports local economic development through the (re)Manufacturing Hub, Austin Materials Marketplace,		ARR Master Plan						
MMTAG	RR-3	Reduction/Reuse	and reuse enterprises for reuse of production byproducts or general reuse of goods.	2015-2020	(in progress)	D	G	В, G	F, BC	IL , DS	2,
MMTAG	RR-4	Reduction/Reuse	City implements policies to reduce the use of single-use products in addition to carryout bags.	2015-2020	ARR Master Plan (adopted 2012)	С	G	B, R	ВС	IL	:
TTAG	EPS-1	Economic and Pricing Systems	Apply a fair market value for parking through demand- based pricing, and research programs that reinvest a portion of the revenue into area improvements/amenities and transport options.	2020-2030		D	G, B	All	Р, ВС, Т	DS	Q
			Continue planning efforts to complete a connected network of high-capacity transit, including intracity and	2015 2022							
TTAG	IS-1	Infrastructure and Service	intercity rail systems, using the major projects identified in the Austin Strategic Mobility Plan and Project Connect to improve Austin's transportation and economic connections with other major cities in Texas.	2015-2020, 2020-2030, 2030-2050	Imagine Austin, 2014 Austin Strategio Mobility Plan	P	G	All	F, BC	DL	A
			Protect the safety of all right-of-way users and increase mobility by managing traffic speeds with regular								
TTAG	IS-2	Infrastructure and Service	synchronizing/retiming all traffic signals along arterials, adjusting speed limits within the urban core as appropriate, adding more volume-count stations to	2015-2020	2013 Austin Mobility	Р	G	All	F	DL	Q, A
			make informed traffic system improvements, installing more roundabouts, using enhanced bicycle signal detection technologies, and installing Pedestrian Hybrid								
TTAG	IS-3	Infrastructure and Service	Beacons. Extend transit service to suburban areas while providing more service interconnections and transit vehicle	2020-2030		C	G	All	F, P	DL	Q,
ITAG	13-3	mnastructure and service	amenities. Prioritize mixed use development integrated with transit	2020-2030			9	All	1, F	DE .	ζ,
TTAG	LU-1	Land Use	and the creation of compact, walkable and bikeable places with a commitment to plan transportation systems using objective analysis of environmental consideration, demand models, congestion models, safety, and full life cycle cost/benefit analysis.	2015-2020	Imagine Austin Comprehensive Plan	Р	G, B	All	F	DL	A
			Promote growth within the Desired Development Zone where dense, mixed use development support centers								
TTAG	LU-2	Land Use	and transit corridors, and consider incentives for infill development with long-term affordability for residents and businesses; develop an outreach program for the available incentives and enhanced property locator tools (e.g. location efficient mortgages, tax credits).	2020-2030		Р	G, B	AII	F	DL	A
			Create pedestrian- and bicycle-friendly districts connecting urban centers and transit stops, optimizing safety for people of all ages and abilities through	2015-2020,							
TTAG	LU-3	Land Use	clearly marked, dedicated, and separated urban trails and bike lanes and wayfinding systems that incorporate	2020-2030		Р	G, B	G, B	F, BC	DL	A
TTAG	LU-4	Land Use	national best practices. Ensure that residential neighborhoods are within a quarter mile of transit options.	2015-2020		P	G, B	All	F, BC	DL	Q, A
TTAG	PP-1	Policy and Planning	Establish intergovernmental agreements between municipalities that include commitments to increase density around Centers.	2020-2030		N	G	G	Р	IL	Q, A
TTAG	TDM-1	Transportation Demand Management	Seek opportunities to provide separate dedicated lanes prioritizing public transit, and seek financing to extend service hours and frequency to make public transit services more attractive and increase use of public	2015-2020	Imagine Austin	P	G	All	F, BC	DL	A
TTAG	TDM-2	Transportation Demand Management	Increase bicycle mode share by promoting cycling for workers living near their workplace and children commuting to school. Increase safety and program performance based engineering, enforcement, education, and evaluation. Encourage the development	2015-2020	Urban Trails Master Plan, Austin Bicycle Master Plan	P	G, B	All	F, BC	DL	Q, /
			of web-based tools/mobile applications/other educational materials. Increase the scope and impact of bike promotional events (e.g. Bike to Work Day and VIVA Streets!). Develop programs that help commuters make first and								
TTAG	TDM-3	Transportation Demand Management	last mile transit connections including promotion of first/last mile modes such as free circulator buses, collective zoned vanpool service, flex route system, skateboards, and folding bicycles. Work with major event promoters to establish	2015-2020		C, N	G, B, N	All	F, BC	DL	Q, A
TTAG	TDM-4	Transportation Demand Management	innovative transportation plans that ensure visitors to the City have full information about transportation options. Perform education and outreach to fleet owners on how	2015-2020	2013 Austin Mobility	p	G, B	All		DL	Q,
TTAG	TDM-5	Transportation Demand Management	to conduct a business evaluation of fleet usage, including operation and right-sizing analysis, and identify which incentives are available to replace older, higher-emission vehicles.	2015-2020		N	G, N	В	ВС	DL	A _i
TTAG	TDM-6	Transportation Demand Management	Provide amenities and incentives for programs that support active transportation, such as showers, tree shading, community gardens, neighborhood bike ambassadors, mobile bike repair, and bike cages.	2015-2020	Imagine Austin	Р	G, B	All	F, BC	DS	Q, A
TTAG	TDM-7	Transportation Demand Management	Consider incentive programs that reduce fossil fuel consumption and encourage residents to limit single occupancy vehicle trips by taking alternative modes of transportation (e.g. carpool/vanpool, bus/train, bike/walk); incentives may include, parking at a free or	2020-2030		С	G	All	F, BC	DL	A
			reduced price, free access to toll lanes, tax credits for cyclists, time-of-use pricing for electric vehicle owners. Work with large employers and academic institutions to implement trip reduction programs that include a regular survey of how the workforce commutes,								
TTAG	TDM-8	Transportation Demand Management	explanation of benefits to commuters, and includes promotion of transportation alternatives (e.g. carpool/vanpool, bus/rail, bike/walk, flex/compressed work schedules) to their employees; celebrate successful programs Expand electric/alternative fuel infrastructure and	2020-2030		P	G	B, N	ВС	DL	Q, A
TTAG	VFE-1	Vehicles and Fuel Efficiency	consider incentives for the purchase of electric/alternative fuel vehicles by individuals and fleet	2015-2020		С	G, B	All	F, BC	DL	Q, A,
ENGTAG	BC-1	Behavior Change and Education	Implement time of use / dynamic rates programs, including user educational efforts, supported by smart meters Educational efforts through social media, applications.	2015-2020	N, but in budget docs?	D (Time of use);	G	All	T, BC	DS	Majo savin avoidir pri
ENGTAG	BC-2	Behavior Change and Education	Educational efforts through social media, applications, and exposure/Media campaigns using local celebrities to drive behavior change	2015-2020	N, but AE has programs	C, N	G, N	B,R	F	DS	More ir citiz
ENGTAG	BC-3	Behavior Change and Education Behavior Change and	Promote programs for individuals to manage their own carbon footprint (carbon diet) Neighborhood EE projects -neighbor vs neighbor	2015-2020		D	G,B,N	B,R,N	BC P.R.C	DS	
ENGTAG ENGTAG	BC-4 BIE-1	Education Buildings and Integrated	efficiency challenge. Customized for neighborhoods. Increase funding for energy efficiency rebates; new	2015-2020		N P	G,R	R	P,BC F	DS DL if on a large	
LINGTAG	pic-1	Efficiency	offerings or higher amounts may attract new customers Explore new financing mechanisms: on-bill repayment	2012-Z0Z0		P	G	G, B (Lenders,	F	scale	
ENGTAG	BIE-2	Buildings and Integrated Efficiency	for improvement costs; implement a PACE program and others; mechanisms targeted at promoting/enabling RE and EE	2015-2020		N	G	contractors), R (multi-family), N	Р	DL if on a large scale	
ENGTAG	BIE-3	Buildings and Integrated Efficiency	Identify high energy users in all sectors; target incentives for highest impact	2015-2020		Р	G	All	P,BC	DL	
ENGTAG	BIE-4	Buildings and Integrated Efficiency	Specific strategies: Envelope improvements (biggest impact), Lighting (LEDs), HVAC, Water heating, Plug loads	2015-2020	Y	С	G,B,R	All	P,F,BC,T	DS	
ENGTAG	BIE-5	Buildings and Integrated Efficiency	Programs to reduce energy use and carbon intensity associated with water consumption Coordinated effort with AWLL to reduce energy use and	2015-2020	Y	С	All	All	F,BC	DS	
ENGTAG	BIE-6	Buildings and Integrated Efficiency	Coordinated effort with AWU to reduce energy use and carbon intensity associated with consumption, treatment, and delivery of water, including peak shifting	2020-2030	Y	С	G	G	T,F	DL	
ENGTAG	BIE-7	Buildings and Integrated Efficiency	Automated demand response for all technologies	2015-2020		N	В	All	BC,T	DS	
ENGTAG	BIE-8	Buildings and Integrated Efficiency	Increase meter reading frequency and use the information to identify opportunities for utility action and for user usage choices	2015-2020	Y, smart meter program	Р	G	R, G	F	DS	
ENGTAG	BIE-9	Buildings and Integrated Efficiency	Create a new minimum standard for existing building energy use; enforce the new standard	2020-2030		N	G	All	P	DL	
ENGTAG ENGTAG	BIE-10	Buildings and Integrated Efficiency Generation Technologies	Consider the potential for net-zero new construction of residential and commercial buildings Prioritize investment in zero carbon resources at utility and/or customer scale: Utility-scale and distributed	2020-2030	Y	P C	G G,B	AII G,B,R	P F,T,P	DL DL	
	_		solar, including concentrating solar; Utility-scale wind (inland and coastal) Regular evaluation of generation technologies: Analyze further investment in combined heat and power as a			_	-,5	2,2,11	.,,,		
ENGTAG	GT-2	Generation Technologies	generation option; Analyze whether biomass is a viable generation option; Analyze whether geothermal is a	Perpetual	Υ	С	G	All	F,P,T	DL	

TTAG Tier Ranking	Strategy #	Strategy Category	Actions	Timeframe	Currently in an Adopted City Plan?	Action	Owner of the Action	Participating / Active Stakeholders	e Barriers or Limiting Factors	Avoided Emissions	Ancillary Benefits
				2015-2020 2020-2030 2030-2050		<u>C</u> urrent <u>D</u> evelopmen t <u>P</u> lan <u>N</u> ew	Business Government MultiFamily Nonprofit, NGOs Residents, All SF-Single-family	Business Government MultiFamily Nonprofit, NGOs Residents, All SF-Single-family	<u>F</u> unding <u>P</u> olicy <u>B</u> ehavior <u>C</u> hange <u>T</u> echnology	<u>D</u> irect <u>I</u> ndirect <u>L</u> arge <u>S</u> mall <u>C</u> onceptual/ NA	Quality life Affordable Health Jobs Water
1	OD-1	Organics Diversion	ARR maximizes effectiveness of Universal Recycling Ordinance in diverting organic materials.	2015-2020	ARR Master Plan (adopted 2010)	С	G	B, MF	BC, F	DL	1, 4, 5
1	OD-2	Organics Diversion	ARR expands collection of food residuals and other compostable, non-recyclable materials to all residential customers.	2015-2020	ARR Master Plan (in progress)	D	G	R	F, BC, T	DL	1,5
1	OD-3	Organics Diversion	Austin Water's Hornsby Bend compost operation transitions from yard trimmings to other carbon sources and bulking agents, such as clean lumber	2015-2020	ARR Master Plan	P	G	G	P, F	DS	3, 5
1	OD-4	Organics Diversion	and tree trimmings from other City departments and their contractors. Private haulers collect all organics, non-recyclable materials from their customers.	2020-2030	Partial	D,P	G, B, N	All	F, P, BC, T	DL	1, 2, 3, 4, 5
1	OD-5	Organics Diversion	Urban agricultural operations, from community gardens to regional farmers, produce and use compost from local sources.	2020-2030		D	G, B, N	All	F, P, BC, T	DL	1, 2, 3, 4, 5
2	OD-6	Organics Diversion	ARR offers training and rebates for residential and commercial composting to households and businesses.	2015-2020	ARR Master Plan	Р	G, B	R	F, BC	DS	1, 2, 5
2	OD-7	Organics Diversion	ARR offers training and rebates for residential and commercial composting to households and businesses.	2015-2020	(in place)	С	G	B, R	F, BC	DS	1, 2, 5
2	OD-8	Organics Diversion Organics Diversion	ARR increases efficiency of brush collection. ARR increases preparedness for storm debris management.	2015-2020	ARR Master Plan	P D	G G	R R	P, T F, P	DS DS	Operational efficiency
2	OD-10	Organics Diversion	ARR adds organics collection services to downtown trash and recycling alley collection service.	2015-2020	(in progress) ARR Master Plan (in progress)	D	G	B, MF	ВС	DS	3, 4, 5
2	OD-11	Organics Diversion	City adopts and implements construction materials management ordinance.	2015-2020	(in progress)	D	G	В	P, BC, F	DS	1, 4, 5
2	OD-12	Organics Diversion	ARR ensures special event producers provide diversion services, including for organics. ARR offers training and rebates for residential	2015-2020	ARR Master Plan (in progress) ARR Master	D	G	B, R, N	P, BC, F	DS	1, 4, 5
2	OD-13	Organics Diversion Organics Diversion	and commercial composting to households and businesses. ARR offers training and rebates for residential and commercial composting to households and	2015-2020	(in place) ARR Master	C	G	B, MF	F, BC	C	3,5
3	OD-14	Organics Diversion	businesses. ARR (and Travis County?) and civic organizations encourage the state to ban disposal of yard		(in place)	N	G, N	All	P, BC	DL	3, 4, 5 1, 4, 5
			trimmings. Collection and processing businesses expand		No, however,		G, 14	All	1,50		1, 4, 3
3	OD-16	Organics Diversion	infrastructure for beneficial reuse of FOGs. Haulers implement two-bin wet/dry collection	2020-2030	consideration for Water Plan					С	
3	OD-17	Organics Diversion	service for the materials left over after maximizing diversion.	2030-2050		N	В	All	Т	DL	1, 2, 3, 4, 5
1	PU-1	Purchasing	City refines construction and building specifications to increase use of reclaimed materials.	2015-2020	ARR Master Plan	Р	G	G	F, P	IL, C	1, 2, 4
1	PU-2	Purchasing	City (and Travis County?) adopts specifications for materials reuse, reduced packaging, materials with recycled content, and locally manufactured				G, B, N	G, B, N, R	P, T, F + Analysis	IL	1, 2, 4, 5
2	PU-3	Purchasing	products and encourages other agencies and enterprises to follow suit. ARR develops public marketing campaign promoting responsible purchasing.	2020-2030			G, B	G, B, N, R	F, BC	С	Butterfly
2	PU-4	Purchasing	ARR encourages groups to purchase items cooperatively to reduce packaging. City (and Travis County?) adopts responsible purchasing policies, including shifting from	2020-2030			B, R	G, B	BC, T	С	5, 2
2	PU-5	Purchasing	purchasing products to purchasing services, and encourages other agencies and enterprises to follow suit. City encourages retailers to consider life cycle	2020-2030			All	All	BC BC L no	IS	1, 2, 4 Better products,
3	PU-6	Purchasing	impacts when choosing products to sell, including favoring durable, long-lasting products. ARR refines landfill gas capture and combustion	2030-2050			R, B	G, N, R	F, BC + no standards	IS	informed consumers
1	MM-1	Methane Management	system to destroy methane. Area landfill operators refine landfill gas capture and combustion system to destroy methane at their landfills.	2015-2020	ARR Master Plan (in progress)	D	G	G	F, T	DL	Renewable energy
1	MM-2	Methane Management	With City encouragement, eligible landfills in Travis County participate in EPA landfill methane outreach voluntary programs.	2020-2030		N	В	G	F	DL	More renewable energy + innovation
2	MM-3	Methane Management	Landfills use daily and interim landfill cover that minimizes methane generation.	2020-2030	ARR Master	N	В	G	F	DS	3, Sequestration
1	RE-1	Recycling	ARR expands materials accepted by curbside recycling service, increasing to weekly collection. ARR increases convenience and efficiency of		Plan (in progress) ARR Master	D	G	R, B	T, BC	IL	3, 4
1	RE-2	Recycling	downtown trash and recycling alley collection service. City adopts Pay-As-You-Throw rate structure to	2015-2020	Plan (in place) ARR Master	С	G	B, MF	F, BC	IL	1, 3, 4
1	RE-3	Recycling	strengthen financial incentives to reduce disposal. ARR maximizes effectiveness of Universal	2015-2020	Plan ARR Master	P	G	SF	P	DL/IS	3, 4
1	RE-4	Recycling	Recycling Ordinance in diverting recyclable materials. ARR increases recycling and reuse of bulky items	2015-2020	Plan (in progress)	D	G	B, MF, N	F, BC	DL, C	1, 2
2	RE-5	Recycling Recycling	collected. City increases convenience of public-area recycling containers and efficiency of servicing	2015-2020	Plan ARR Master	P D	G	SF B, R	P, T F, BC	IS IS	1, 3, 4
2	RE-7	Recycling	them. City adopts and implements construction materials management ordinance.	2015-2020	_	D	G	В	P, BC, F	DS	1, 4, 5
2	RE-8	Recycling	ARR ensures special event producers provide diversion services, including for organics.	2015-2020	(in progress) ARR Master Plan (in progress)	D	G	B, N, R	P, BC, F	DS	1, 4, 5
2	RE-9	Recycling	ARR expands HHW collection by adding a north Austin HHW facility, instituting door-to-door HHW collection, and advocating for CESQGs inclusion.	2015-2020	ARR Master Plan (in progress)	D	G	В	Р, Т	IS	1, 2, 3
2	RE-10	Recycling	City supports local economic development through the (re)Manufacturing Hub, Austin Materials Marketplace, and reuse enterprises.	2015-2020		D	G	B, G, N	F, BC, T	DS, IS	2, 4
2	RE-11	Recycling	ARR adds four new Reuse Centers, including for hard-to-recycle items.	2015-2020	(in progress) ARR Master Plan	P	G	B, R, N, G	F, P, BC	С	1, 2, 3, 4
2	RE-12	Recycling	ARR supports material management aspects of Austin Green Business Leaders and its expansion.	2015-2020	ARR Master Plan (in place)	С	G	B, N	F, BC	С	1, 2
2	RE-13	Recycling	ARR offers commercial recycling rebates, technical assistance, and recognition.	2015-2020	ARR Master Plan (in place)	С	G	B, MF	F, BC	С	1, 2
2	RE-14	Recycling	ARR offers commercial recycling rebates, technical assistance, and recognition. ARR expands production and marketing of	2015-2020	(in place) ARR Master	С	G	B, MF, N	F, BC	С	1, 2
2	RE-15 RE-16	Recycling Recycling	ReBlend. ARR expands HHW collection by adding a north Austin HHW facility, instituting door-to-door HHW collection, and advocating for CESQGs	2015-2020	Plan (in progress) ARR Master Plan	D C	G G	R R	F, BC	С	1, 2
3	RE-17	Recycling	inclusion. City and Travis County develop decentralized community centers for recycling and	2030-2050	Partial	D	G	B, N	NIMBY	DS	4
1	RR-1	Reduction/Reuse	ARR adds four new Reuse Centers, including for	2015-2020	ARR Master	P	G	G, B, N, R	P, F	IL	2, 4
1	RR-2	Reduction/Reuse	hard-to-recycle items. City supports local economic development through the (re)Manufacturing Hub, Austin Materials Marketplace, and reuse enterprises for	2015-2020	Plan ARR Master Plan	P	G	B, R, N	F, BC	IL , DS	2, 4
1	RR-3	Reduction/Reuse	repairing goods/products. City supports local economic development through the (re)Manufacturing Hub, Austin Materials Marketplace, and reuse enterprises for	2015-2020	ARR Master Plan	D	G	В, G	F, BC	IL , DS	2, 4
1	RR-4	Reduction/Reuse	reuse of production byproducts or general reuse of goods. City implements policies to reduce the use of	2015-2020	(in progress) ARR Master Plan	С	G	B, R	BC	IL	1
2	RR-4	Reduction/Reuse Reduction/Reuse	single-use products in addition to carryout bags. City (and Travis County?) encourages state to adopt policies that reduce single-use packaging	2015-2020	(adopted 2012) ARR Master	C	G	B, R B, R, N	BC P,BC, F	C, IL	3, 4
2	RR-6	Reduction/Reuse	and product stewardship, such as container deposits and retail take-back. Promote COA Recycled Reads	2020-2030	ARR Master Plan	С	G	в, к, N G, N	BC	C, IL	1, 2
2	RR-7	Reduction/Reuse	City departments conduct waste audits to promote waste reduction opportunities in City operations.	2015-2020	(in place) ARR Master Plan	Р	G	G	P, F	DS, IS	2, 4
2	RR-8	Reduction/Reuse	City supports local economic development through the (re)Manufacturing Hub, Austin Materials Marketplace, and reuse enterprises.	2015-2020	Plan	Р	G	N, G, B	F, BC	DS, IS	2, 4
2	RR-9 RR-10	Reduction/Reuse Reduction/Reuse	ARR increases recycling and reuse of bulky items collected. City (and Travis County?) encourages state to adopt policies that reduce single-use packaging and product stowardship, such as container.	2015-2020	ARR Master Plan ARR Master	P P	G G	R, N B, R	P, F, BC P,BC, F	DS, IS C, IS	2, 4
2	RR-10	Reduction/Reuse	and product stewardship, such as container deposits and retail take-back. ARR incentivizes deconstruction and construction material reuse.	2020-2030	Plan	D, P	G, B, N	в, к G, B, N, R	F, P, BC	DS, IS	1, 2, 3, 4
2	RR-12	Reduction/Reuse	City incentivizes reducing the generation of fats, oils, and grease and their beneficial reuse.	2020-2030	for the Water		G, B, N	G, B, N, R	F, P, BC	DS, C	1, 2, 3, 4, 5
2	RR-13	Reduction/Reuse	City promotes products and packaging with multi-uses and purposes as alternatives to single-use products.	- 2020-2030	Plan Partial	D, N	G, B, N	G, B, N, R	BC, P, T, F	IS, C	1, 2, 4
2	RR-14	Reduction/Reuse	Transfer station and landfill operators establish methods to pre-sort items at their facilities. ARR and Travis County expand reuse and sharing opportunities by supporting existing reuse.	2020-2030		C, N	B, G	G, B, N	F, BC	DS	1, 3, 4
2	RR-15	Reduction/Reuse	opportunities by supporting existing reuse centers and fostering development of additional community centers for recycling and composting.	2020-2030		C, D	G, B, N	G, B, N	F	DS, C	1, 2, 4
3	RR-16 RR-17	Reduction/Reuse Reduction/Reuse	City promotes efficient material use in home construction and in the design of durable goods. ARR promotes consumer support for durable, long lasting products.	2020-2030		N N	G, B, N G, B, N	G, B, N, R G, B, N, R	F, P, BC, T BC, P, T, F	DS, IS	1, 2, 3, 4, 5
3	1/		long lasting products.	.550-2050		14	Ο, υ, IN	ο, υ, Ν, Κ	50,1,1,5	.5, C	±, ∠, 4

Ranking	Strategy #	Strategy Category	Proposed Actions	Timeframe	Currently in an Adopted City Plan?	Action Status		Stakeholders	Factors	Avoided Emission	Ancillary Benefits
		EPS Economic and Pricing System LU Land Use PP Policy and Planning TS Technology Solutions TDM Trans Demand Mangmt VFE Vehicles and Fuel Efficiencies		2015-2020 2020-2030 2030-2050	Imagine Austin 2013 Austin Mobility 2014 Austin Strategic Mobility Plan Ozone Advance 2035 CAMPO	<u>C</u> urrent <u>D</u> evelopment <u>P</u> lan <u>N</u> ew	<u>B</u> usiness <u>G</u> overnment <u>M</u> ulti <u>F</u> amily <u>N</u> onprofit, NGOs <u>R</u> esidents, All	<u>Business</u> <u>Government</u> <u>MultiFamily</u> <u>Nonprofit, NGOs</u> Residents, All	Funding Policy Behavior Change Technology	<u>D</u> irect <u>I</u> ndirect <u>L</u> arge <u>S</u> mall	Quality life Affordable Health Jobs
1	EPS-1	<u>IS</u> Infrastructure and Service Economic and Pricing Systems	Apply a fair market value for parking through demand-based pricing, and research programs that reinvest a portion of the revenue into area improvements/amenities	2020-2030	Best Practice	D	SF-Single-family G, B	SF-Single-family All	P, BC, T	<u>C</u> onceptual/ NA DS	<u>W</u> ater
		Economic and Pricing	Encourage more funding to replace older, more polluting cars with newer vehicles								
3	EPS-2	Systems Economic and Pricing	that meet the current vehicle emissions standard, and partner with non-governmental organizations where appropriate to implement programs. Work with private developers to facilitate unbundling the cost of renting parking	2015-2020		N	G	B, R	F, P	DS	A, H
3	EPS-3	Systems	from rented building space, where appropriate, to reduce the number of free, City-controlled parking spaces within or near Centers and Corridors.	2020-2030		D	G, B	G, B, N, R	P, BC	IS	Q, A
3	EPS-4	Economic and Pricing Systems	Research and analyze programs in other cities using congestion pricing to reduce congestion in downtown areas and limit the number of vehicles on the road at peak travel times on specified days.	2030-2050		N	G	B, G, R	P, BC	С	Q, A
1	IS-1	Infrastructure and Service	Continue planning efforts to complete a connected network of high-capacity transit, including intracity and intercity rail systems, using the major projects identified in the Austin Strategic Mobility Plan and Project Connect to improve Austin's transportation and economic connections with other major cities in Texas.	2015-2020, 2020-2030, 2030-2050	Imagine Austin, 2014 Austin Strategic Mobility Plan	Р	G	All	F, BC	DL	А, Ј
1	IS-2	Infrastructure and Service	Protect the safety of all right-of-way users and increase mobility by managing traffic speeds with regular synchronizing/retiming all traffic signals along arterials, adjusting speed limits within the urban core as appropriate, adding more volume-count stations to make informed traffic system improvements, installing more roundabouts, using enhanced bicycle signal detection technologies, and installing Pedestrian Hybrid Beacons.	2015-2020	2013 Austin Mobility	P	G	All	F	DL	Q, A, H, J
1 2	IS-3 IS-4		Extend transit service to suburban areas while providing more service interconnections and transit vehicle amenities. Explore an expansion of new HOV lanes on existing freeways Continue to expand upon programs that use smoother street pavements to	2020-2030		C N	G G, N	All	F, P F, P	DL DS	Q, A, J Q
2	IS-5		increase fuel efficiency in vehicles and provide safer road conditions for all road users. Enhance movement on existing freeways thru operational improvements,	2015-2020		C D	G	All	P, BC	DS DS	Q, A, J
2	IS-7	Infrastructure and Service	coordinated network management, and other strategies Encourage shared worksites (hotel workstations) close to where employees live.	2020-2030		D	G, B, N	G,B,N	BC,F	DS	H, J
			Plan, finance, design and build toll and/or managed lanes to include construction								
3	IS-8	Infrastructure and Service	or operations necessary to increase transportation efficiencies including park&ride facilities, transit, higher occupancy vehicles, and freight distribution.	2020-2030		N	G	B, N	F, P, BC	IS	Q, H, J
3	IS-9	Infrastructure and Service	Consider mode separation for safety and mobility when considering building new highways, railways, and bicycle/pedestrian facilities; explore dedicated guideways/rights-of-way as reasonable and feasible.	2030-2050		N	G	G, B, R	P, F	IS	Q, A, H, J
1	LU-1	Land Use	Prioritize mixed use development integrated with transit and the creation of compact, walkable and bikeable places with a commitment to plan transportation systems using objective analysis of environmental consideration, demand models, congestion models, safety, and full life cycle cost/benefit analysis.	2015-2020	Imagine Austin Comprehensive Plan	Р	G, B	All	F	DL	All
1	LU-2	Land Use	Promote growth within the Desired Development Zone where dense, mixed use development support centers and transit corridors, and consider incentives for infill development with long-term affordability for residents and businesses; develop an outreach program for the available incentives and enhanced property locator tools (e.g. location efficient mortgages, tax credits).	2020-2030		P	G, B	All	F	DL	All
1	LU-3	Land Use	Create pedestrian- and bicycle-friendly districts connecting urban centers and transit stops, optimizing safety for people of all ages and abilities through clearly marked, dedicated, and separated urban trails and bike lanes and wayfinding	2015-2020, 2020-2030		P	G, B	G, B	F, BC	DL	All
1 2	LU-4	Land Use	Ensure that residential neighborhoods are within a quarter mile of transit options. Plan the location and design of new school campuses to encourage students to	2015-2020		P N	G, B G, N	All R	F, BC F, P, BC	DL DS	Q, A, H, J Q, A, H
2	LU-6	Land Use	Promote the redevelopment of brownfields and grayfields into compact, walkable places by revising parking requirements that result in more permeable areas and promoting walking, biking, and alternative transit	2020-2030	Imagine Austin Comprehensive Plan	Р	G, B	All	P, BC	DS	Q, A, H, .
		Land Use Land Use	PLACEHOLDER FOR GREEN INFRASTRUCTURE PLACEHOLDER FOR GREEN BUILDING (NON-ENERGY)								
2	PP-1	Policy and Planning Policy and Planning	Establish intergovernmental agreements between municipalities that include commitments to increase density around Centers. Consider development of regulations to reduce the number of vehicular parking spaces and to allow parking requirements to be met through alternative	2020-2030		N C	G	G G, B, R	P, BC	IL IS	Q, A, H, Q, A, H,
2	PP-3	Policy and Planning	approaches demonstrated to reduce parking demand and GHG emissions (e.g. on-site car-sharing, bicycle parking, transit passes) Advocate for implementation of higher federal fuel efficiency standards.	2020-2030		N	G	5,2,	P	IL	Q, A, J
2	PP-4	Policy and Planning	Establish "tier parking requirements based on context of the site, travel demand management activities, and other factors. 1) In TOD's, Downtown, Core Transit Corridors and other transit-rich locations, remove parking minimums altogether/or put in place parking maximums. 2) Establish a process with defined approval criteria where a developer can adjust parking minimum based on results of a TIA or demonstrated implementation of travel demand management strategies. 3) Define types of parking and set different standards by type. For example, differentiate between long-term and short-term parking and allow higher levels of short term parking in office settings."	2020-2030	Code Next Recommendation	N	G	All	P, BC	IS	А
3	PP-5	Policy and Planning	Develop and implement strategies that address spillover parking from commercial districts into adjacent residential areas that include increased public transportation, better pedestrian and bicycling amenities, improved signs, and parking management.	2015-2020	Imagine Austin Comprehensive Plan	С	G	All	ВС	С	Q
2	TS-1	Technology Solutions	Promote trip management technologies (e.g. apps, websites, electronic services) that provide the user with real-time travel information as well as amenities along travel routes as long as the technology shares user data related to GHG performance tracking.	2015-2020		С	G, B	All	F, BC	DS	Q, A,H
2	TS-2	Technology Solutions Technology Solutions	Develop an interactive website where residents and employers can monitor their GHG emissions against others. Utilize crowdsourcing to collect ideas and develop 3rd party technology solutions.	2015-2020		N N	G, B	All B, R	F, BC	IS IS	All
2	TS-4	Technology Solutions	Implement regenerative braking technology into the public transit system to provide power to the transit vehicle and the energy grid (e.g. train system in Philadelphia).	2020-2030		N	G	G, N	F, T	DS	W
3	TS-5	Technology Solutions	Deploy travel time data collection equipment along key arterial streets and regularly collect travel time data. Use data on travel times to: (1) influence travel behavior by disseminating traveler information on dynamic message signs and the web; (2) improve traffic flow.	2015-2020	2035 CAMPO Plan	P	G	All	F	IS	Q, A, H,
3	TS-6	Technology Solutions Technology Solutions	Research sensors for motor vehicles that provide bike detection and/or motion heat detection to improve bike safety and awareness. Install Smart Parking systems (identifies open spots and directs drivers to them) for compact and connected areas, including on-street parking.	2015-2020		N N	G, B, R G, B	All B, R	F, T F, T	IS DS	Q, H Q
3	TS-8	Technology Solutions	Explore emerging technologies such as an induction charging system inside City streets for fast charging of electric vehicles.	2030-2050		N	G, B	G, B	F, BC, T	DS	A, H, J, V
1	TDM-1	Transportation Demand Management	Seek opportunities to provide separate dedicated lanes prioritizing public transit, and seek financing to extend service hours and frequency to make public transit services more attractive and increase use of public transit.	2015-2020	Imagine Austin	P	G	All	F, BC	DL	All
1	TDM-2	Transportation Demand Management	Increase bicycle mode share by promoting cycling for workers living near their workplace and children commuting to school. Increase safety and program performance based engineering, enforcement, education, and evaluation. Encourage the development of web-based tools/mobile applications/other educational materials. Increase the scope and impact of bike promotional events (e.g. Bike to Work Day and VIVA Streets!).	2015-2020	Urban Trails Master Plan, Austin Bicycle Master Plan	P	G, B	All	F, BC	DL	Q, A, H
1	TDM-3	Transportation Demand Management	Develop programs that help commuters make first and last mile transit connections including promotion of first/last mile modes such as free circulator buses, collective zoned vanpool service, flex route system, skateboards, and folding bicycles.	2015-2020		C, N	G, B, N	All	F, BC	DL	Q, A, J,I
1	TDM-4	Transportation Demand Management Transportation Demand	Work with major event promoters to establish innovative transportation plans that ensure visitors to the City have full information about transportation options. Perform education and outreach to fleet owners on how to conduct a business	2015-2020	2013 Austin Mobility	P	G, B	All		DL	Q, A, J
1	TDM-5	Management Transportation Demand	evaluation of fleet usage, including operation and right-sizing analysis, and identify which incentives are available to replace older, higher-emission vehicles. Provide amenities and incentives for programs that support active transportation, such as showers, tree shading, community gardens, neighborhood bike	2015-2020	Imagine Austin	N P	G, N G, B	All	BC F, BC	DL	A, J Q, A, H,
1	TDM-7	Management Transportation Demand Management	ambassadors, mobile bike repair, and bike cages. Consider incentive programs that reduce fossil fuel consumption and encourage residents to limit single occupancy vehicle trips by taking alternative modes of transportation (e.g. carpool/vanpool, bus/train, bike/walk); incentives may include, parking at a free or reduced price, free access to toll lanes, tax credits for	2020-2030		С	G	All	F, BC	DL	All
1	TDM-8	Transportation Demand Management	cyclists, time-of-use pricing for electric vehicle owners. Work with large employers and academic institutions to implement trip reduction programs that include a regular survey of how the workforce commutes, explanation of benefits to commuters, and includes promotion of transportation alternatives (e.g. carpool/vanpool, bus/rail, bike/walk, flex/compressed work	2020-2030		P	G	B, N	BC	DL	Q, A, H,
2	TDM-9	Transportation Demand Management	schedules) to their employees; celebrate successful programs Support widespread telecommunication connectivity (e.g. broadband service, gigabit service) to enable more telework, teleconference, webinar, and e-commerce options.	2015-2020		С	G, B	All	ВС	DS	Q, A, J
2	TDM-10	Transportation Demand Management	Collaborate with community partners to develop community-based engagement campaigns that inform the public of the various ways to reduce emissions using alternative transportation or making more informed choices for trips within a 3 mile radius of their home or office, and track the success of the campaign through	2015-2020		N	G, B, N	R	F, BC	DS	Q, A, H,
2	TDM-11	Transportation Demand Management	Encourage larger employers to establish commute reduction programs (that integrate mobile work, commute programs, and incentives such as parking cashout programs). The City of Austin should become a lead employer with a model commute reduction program and phase out the practice of providing free parking spaces to City employees working in transit-rich locations.	2015-2020		C, N	G,B	B,G	BC	DS	A, H, J
2	TDM-12	Transportation Demand Management	Explore best practice programs and work with local political delegations to revise state laws to allow for revenue/tax/fee mechanisms that could support local low-carbon transportation infrastructure and planning: 1) Set vehicle registration cost based on miles driven 2) Adopt a transportation impact fee 3) Levy a motor vehicle excise tax 4) Implement feebate system 5) Tradeable credit scheme 6) Direct toll	2020-2030		N	G	All	P, BC	DL	
1	VFE-1	Vehicles and Fuel Efficiency	Expand electric/alternative fuel infrastructure and consider incentives for the purchase of electric/alternative fuel vehicles by individuals and fleet owners.	2015-2020		С	G, B	All	F, BC	DL	Q, A, J, V
2	VFE-2	Vehicles and Fuel Efficiency	Work with community partners to develop a freight plan that reduces emissions within the region from the trucking industry, fosters more efficient freight movement, and provides assistance to freight companies to help them identify	2020-2030		N	G,B	B, G, N	F, BC, P	DL	Q, J
2	VFE-3	Vehicles and Fuel Efficiency	how to reduce emissions from their vehicles. Implement photovoltaic systems that may be imbedded in roadways or shade canopies that provide electric vehicle charging.	2030-2050		N	G	B, R	F, P	DS	Q, A, W
		Well-lead of Edition	Research and analyze the notential for self-parking vehicles, driverless vehicles								
3	VFE-4	Vehicles and Fuel Efficiency	and other future car models.	2020-2030		N	G	B, R	T, BC	С	Q

Tier	Strategy #	Strategy Category	Actions	Timeframe	Currently in an Adopted City Plan?	Action Status	Owner of the Action	Participating / Active Stakeholders	Barriers or Limiting Factors	Avoided Emissions	Ancillary Benefits
		-			2015-2020 2020-2030 2030-2050	<u>C</u> urrent <u>D</u> evelopment <u>P</u> lan <u>N</u> ew	Business Government MultiFamily Nonprofit, NGOs Residents, All SF-Single-family	Business Government MultiFamily Nonprofit, NGOs Residents, All SF-Single-family	<u>F</u> unding <u>P</u> olicy <u>B</u> ehavior <u>C</u> hange <u>T</u> echnology	<u>D</u> irect <u>I</u> ndirect <u>L</u> arge <u>S</u> mall <u>C</u> onceptual/ NA	Quality life Affordable Health Jobs Water
1	BC-1	Behavior Change and Education	Implement time of use / dynamic rates programs, including user educational efforts, supported by smart meters	2015-2020	N, but in budget docs?	D (Time of use);	G	All	T, BC	DS	Major cost savings by avoiding peak prices
1	BC-2	Behavior Change and Education	Educational efforts through social media, applications, and exposure/Media campaigns using local celebrities to drive behavior change	2015-2020	N, but AE has programs	C, N	G, N	B,R	F	DS	More informed citizenry
1	BC-3	Behavior Change and Education	Promote programs for individuals to manage their own carbon footprint (carbon diet)	2015-2020		D	G,B,N	B,R,N	ВС	DS	
1	BC-4	Behavior Change and Education	Neighborhood EE projects -neighbor vs neighbor efficiency challenge. Customized for neighborhoods.	2015-2020		N	G,R	R	P,BC	DS	
2	BC-5	Behavior Change and Education	Utilize meter reads and bill format/presentation to influence behavior. Present energy use in actionable and more timely formats/ways to customers.	2015-2020		N	G	B, R	P,BC	С	
2	BC-6	Behavior Change and Education	Increase transparency of energy cost information to tenants and prospective tenants in multi-family and commercial dwellings	2015-2020		N	G,B	G,B,R (multi-family)	P,BC	С	
1	BIE-1	Buildings and Integrated	Increase funding for energy efficiency rebates; new offerings or higher amounts may attract new customers	2015-2020		Р	G	All	F	DL if on a large scale	
1	BIE-2	Efficiency Buildings and Integrated Efficiency	Explore new financing mechanisms: on-bill repayment for improvement costs; implement a PACE program and others; mechanisms targeted at promoting/enabling RE and EE	2015-2020		N	G	G, B (Lenders, contractors), R (multi- family), N	. Р	DL if on a large scale	
1	BIE-3	Buildings and Integrated Efficiency	Identify high energy users in all sectors; target incentives for highest impact	2015-2020		Р	G	All	P,BC	DL	
1	BIE-4	Buildings and Integrated Efficiency	Specific strategies: Envelope improvements (biggest impact), Lighting (LEDs), HVAC, Water heating, Plug loads	2015-2020	Y	С	G,B,R	All	P,F,BC,T	DS	
1	BIE-5	Buildings and Integrated Efficiency	Programs to reduce energy use and carbon intensity associated with water consumption	2015-2020	Y	С	All	All	F,BC	DS	
1	BIE-6	Buildings and Integrated Efficiency	Coordinated effort with AWU to reduce energy use and carbon intensity associated with consumption, treatment, and delivery of water, including peak shifting	2020-2030	Y	С	G	G	T,F	DL	
1	BIE-7	Buildings and Integrated Efficiency		2015-2020	N	N	В	All	BC,T	DS	
1	BIE-8	Buildings and Integrated Efficiency	Increase meter reading frequency and use the information to identify opportunities for utility action and for user usage choices	2015-2020	Y, smart meter program	Р	G	R, G	F	DS	
1	BIE-9	Buildings and Integrated Efficiency	Create a new minimum standard for existing building energy use; enforce the new standard	2020-2030		N	G	All	Р	DL	
1	BIE-10	Buildings and	Consider the potential for net-zero new construction of residential and commercial buildings	2020-2030		Р	G	All	Р	DL	
2	BIE-11	Buildings and Integrated	Educate designers, builders, code inspectors, and plan reviewers to gain higher compliance with new energy codes as they're implemented every 3 years	2015-2020	Y	С	G, N	All	F,BC	DS	
2	BIE-12		Transition the AE Energy Efficiency program and codes to a performance model + measurement and verification; program customers would be incentivized to meet targets. (includes passive design elements)	2020-2030		N	G	All	P,BC	DS	
2	BIE-13	Efficiency	Enhanced sub-metering for demand response	2020-2030		N	G,B	G,B,R	P,BC,T,F	DS	
2	BIE-14	Buildings and Integrated Efficiency	Require submetering in new commercial office space	2020-2030		N	G	G,B	Р	DS	
2	BIE-15	Buildings and Integrated Efficiency	Incorporate recommendations for passive solar subdivision and street/lot orientation into the land development code	2020-2030		N	G	All	Р	DS	
1	GT-1	Generation Technologies	Prioritize investment in zero carbon resources at utility and/or customer scale: Utility-scale and distributed solar, including concentrating solar; Utility-scale wind (inland and coastal)	2015-2020	Y	С	G,B	G,B,R	F,T,P	DL	
1	GT-2		Regular evaluation of generation technologies: Analyze further investment in combined heat and power as a generation option; Analyze whether biomass is a viable generation option; Analyze whether geothermal is a viable generation option; Analyze whether nuclear is a viable generation option	Perpetual	Y	С	G	All	F,P,T	DL	
1	GT-3	Technologies	Expand community solar	2015-2020	Y	C,D	G,R	G,R,N	F,P,BC	DS	
2	GT-4	Generation Technologies	Explore and pilot storage options with grid functionality	2015-2020		С	G,B	G,B	F,T	С	
2	GT-5	Generation Technologies	Prioritize development and evolution of Smart Grid/Intelligent Energy Management Systems to further enable intermittent resources and use of EVs for storage/demand shift	2015-2020		C,D,P	G,B	G,B	F,P,T	С	
3	GT-6	Generation Technologies	Explore incentives for electrification of carbon-fueled consumer products: hot water heater extended reservoirs, larger pads for battery-powered lawn mowers, weed wackers, chainsaws, etc.	2020-2030		N	G	G,R	F,BC	С	
3	GT-7	Generation Technologies	Explore micro-grids as a carbon reduction strategy. Consider tradeoffs	2030-2050		N	G,B	G,B	F,P,T	С	