## **Longmont Sustainability Plan Indicators and Metrics**

			AIR QUALITY: Improve air quality to protect public and environmental health					
Targets	Indicators/ Metrics	Source	Baseline	2017 Data	Related Indicators			
Reduce the number of days out of ozone compliance	*Ground-level Ozone 1) # days out of compliance with national air quality standards	CDPHE	2016: 1) Boulder Reservoir: 1 day out of compliance after 8/16/2016 (no data prior); Rocky Flats North: 13 days out of compliance	1) Boulder Reservoir (5 days no data): 10 days out of compliance; Rocky Flats North: 21 days out of compliance	Link to transportation fuel consumption			
Increase local oversight of emissions from oil and gas operations	*Oil and Gas Monitoring 1) TBD	COL	TBD: Need to determine baseline and process for tracking this metric	TBD: Need to determine baseline and process for tracking this metric				
Reduce oil and gas methane emission leaks 60% by 2027	*Methane leaks from oil and gas development 1) # mtCO2e in leakage from oil and gas development	COL	2016: 1) Estimated 190.31 mt CO2e from 8 wells	1) Estimated 214.10 CO2e from 9 wells				
Increase public access to local air quality information and information on actions the public can take to improve air quality	*Air Quality 1) Compliance with national air quality standards	CDPHE	2016: 1) Denver Metro / North Front Range Region in compliance with all National Ambient Air Quality Standards, except for ozone	1) Denver Metro / North Front Range Region in compliance with all National Ambient Air Quality Standards, except for ozone				
	*Public awareness 1) #information outlets	COL	2016: 1) # info outlets: 1	1) # info outlets: 1	Link to transportation fuel consumption			
BUILDINGS & INFRASTRUCTURE: Adopt policies, programs, and design guidelines for resilient and efficient buildings and community infrastructure to enhance quality of life, reduce costs, and complement the natural environment								
Increase public awareness of potential indoor air quality problems and solutions to the problems	*Public awareness 1) # people checking out radon, carbon dioxide monitors	COL	2016: 1) Carbon dioxide: not yet available; Radon: 136					

Revise City Design Standards and Construction Specifications to incorporate sustainability-related principles by the end of 2018 Increase the number of environmentally certified	N/A - once this is completed, the outcomes will be tracked through other targets and indicators (greenhouse gas, waste diversion, etc.)  *Sustainable building 1) # environmentally certified	USGBC, NGBS, Passivehouse,	N/A 2016: 1) 8 commercial, 154	1) 12 commercial, 178 residential	Link to greenhouse gas, energy savings,
buildings in Longmont	buildings	Living Building Challenge, DOE, GCBI WELL, EnergyStar	residential		waste diversion, water consumption
Increase access to housing efficiency and improvement opportunities through a one-touch program approach	*Housing efficiency and improvements 1) # participants by program	COL	TBD: Need to determine baseline and process for tracking this metric	TBD: Need to determine baseline and process for tracking this metric	Link to utility cost burden (energy, water); Envision (affordable housing, housing cost burden)
Increase equitable access to foundational community assets for all segments of the community	*Equitable Access & Proximity to Foundational Community Assets 1) TBD based on asset mapping	COL	TBD: Need to determine baseline and process for tracking this metric	TBD: Need to determine baseline and process for tracking this metric	Link to transit access, walkability/bikeability; Envision (Parks/Rec ops, greenways/trails/bikeways, connectivity)
All City departments are using life cycle cost and sustainability evaluations for public projects	*Sustainability of public projects 1) # departments actively using the Sustainability Evaluation System	COL	2016: 1) 1 - PWNR	1) 2 - PWNR, PDS	Link to greenhouse gas, energy savings, waste diversion, water consumption

COMMUNITY COHESION AND RESILIENCE: A vibrant community where all residents have equitable access to the opportunities needed to thrive, while preserving and enhancing natural, cultural and financial resources.

Increase neighborhood-based sustainability initiatives  Increase diversity of members in community leadership roles at the neighborhood, local, and/or regional level	*Sustainability Education & Awareness 1) # neighborhood sustainability projects implemented through neighborhood programs *Diversity in leadership roles 1) Demographics of City staff 2) Demographics of board/commission members	COL	1) Baseline TBD  1) Baseline TBD 2) Baseline TBD	1) Baseline TBD  1) Baseline TBD  2) Baseline TBD	Link to greenhouse gas, energy savings, waste diversion, water consumption  Link to Envision (City staff language skills)
ECONOMIC VITALITY: Supp	 ort a diverse economy that is al innovativ		 and environmental goals of pr nesses and business practices.		es, and encouraging
Increase number of	*Green/clean tech industries	LEDP	2016:	1) 19 Clean Tech Primary	
green/clean tech industries	1) # green/clean tech industries (primary employers)		1) 17 Clean tech Primary Employers	Employers	
Increase cost savings and	*Pollution prevention and	PACE;	2016:	1) Trash: 1.7 Tons	Link to greenhouse
resource efficiency for	associated cost savings	Future tracking	1) Trash: No data available	2) Water: 1,33,148 gallons	gas, energy savings,
businesses through pollution	1) Trash avoided or diverted	through ReTRAC	2) Water: 93,732 gallons	3) Energy: 58,451 kWh	waste diversion, water
prevention and other	(tons)	and Longmont	3) Energy: 91,482 kWh	4) Cost Savings from Energy	consumption
sustainable practices	2) Water conserved (gallons)	Sustainable	4) Cost Savings from Energy	(PACE does not track water	
	3) Energy savings (kWh)	Business	(PACE does not track water	savings): \$5,275	
	4) Cost savings (\$)	Program	savings): \$8,060		
Expand business opportunities	*Underutilized, under-	COL	TBD: Need to determine	TBD: Need to determine	
for minority-owned and	represented, multi-cultural		baseline and process for	baseline and process for	
disadvantaged businesses	businesses		tracking this metric	tracking this metric	
(baseline to be defined)	1) # Underutilized, under-				
	represented, multi-cultural				
	businesses				

Supporting data:	1) # of programs & resources available	COL, Economic Development organizations	1) TBD	1) TBD	
Increase number of recognized sustainable businesses	*Sustainable businesses 1) # recognized sustainable businesses	PACE; Future tracking through Longmont Sustainable Business Program	2016: 1) 7 PACE-certified businesses	1) 8 PACE-certified businesses	Link to cost/resource savings for businesses, greenhouse gas, energy savings, waste diversion, water consumption
Adopt an internal City sustainable purchasing policy by 2018	N/A - once this is completed, the outcomes will be tracked through other targets and indicators (greenhouse gas, waste diversion, etc.)				
	rove the community's energy e	•			energy and decrease
Decrease the utility cost burden for low-income households through energy efficiency measures	*Energy utility cost burden 1) % households spending more of their income than average utility cost burden	DOE	2015: 1) 33.4% households; average energy utility cost burden currently 3.5%	Data not yet available	
	*Energy savings for low- income households 1) Annual energy and cost savings through for low- income energy efficiency program (MWh)	COL	1) Baseline TBD - pilot year 2017	1) Baseline TBD - pilot year 2017	
Increase electric energy savings to 1% annually through energy efficiency measures by 2020	*Energy savings 1) % Annual energy savings 2) Annual energy savings through Efficiency Works (MWh)	COL	2016: 1) .5% Energy savings 2) Commercial: 5027 MWh; Residential: 480 MWh; Total: 5507 MWh	1) .7% Energy savings 2) Commercial: 5401 MWh; Residential: 301 MWh; Total: 5702 MWh	Link to greenhouse gas indicator/metric

Supporting data:	*Energy consumption 1) Energy consumption by sector (MWh)	COL	2016: 1) Residential: 295,270 MWh Commercial: 347,426 MWh Industrial: 117,865 MWh Street lighting: 7,075 MWh	'	Link to greenhouse gas indicator/metric
Increase renewable energy to 100% of Longmont's energy mix by 2030	*Renewable energy 1) Renewable energy generation (kW) 2) # Renewable installations, generation capacity (kW) 3) # Renewable subscriptions and KWh	COL	2016: 1) 138 residential solar installations, 694 KW; 5 commercial installations, 172 KW 2) 516 residential GreenE Subscriptions, 2,641,00 kWh; 26 commercial GreenE Subscriptions; 2,046,000 kWh	1) 70 residential solar installations, 397 KW; 0 commercial installations, 0 KW 2) 535 residential GreenE Subscriptions, 2,699,032 kWh; 28 commercial GreenE Subscriptions, 2,093,363 kWh	Link to Envision energy portfolio mix
Reduce Longmont's core greenhouse gas emissions by 66% from the 2016 baseline by 2030, and 69% by 2050	*Greenhouse gas emissions 1) Total MTCO2E Core Greenhouse gas Emissions 2) % greenhouse gas emissions by sector	COL	2016: 1) 1,081,173 mt CO2e 2) Commercial & Industrial: 37.7% Residential: 30.7% Oil Wells: 0.2% Transportation: 29.2% Industrial Processess and Product Use: 0.1% Waste: 1.9% Wastewater Treatment: 0.1% Agriculture: 0.1%	N/A - data collected every 3 years	

FOOD SYSTEM: A vibrant local food system that provides healthy food to all residents, creates economic opportunities, and contributes to the health of the environment.

Increase access to healthy	*SNAP participation in local	<b>Boulder County</b>	2016:	1) \$11,036	Link to Envision (food
foods through a variety of	food	Farmers Market	1) \$22,421		access)
initiatives such as the Double	1) SNAP + Double up Food				
up Food Bucks and other	Bucks spent at Longmont				
programs	farmers market				
Supporting data:	*Local food production within	SVVSD, COL,	2016:	2) School gardens: 8,	Link to Envision (acres
	the LPA	USDA	1) School gardens: 12;	community gardens: 5, urban	of land irrigated for
	1) # School/community		community gardens: 4; urban	farms: 1 (Food Farm Project)	agriculture in St. Vrain
	gardens		farms: 1 (Food Farm Project)	2) Ag Leases: Data not yet	Valley Planning Area)
	2) # Longmont open space ag		2) Ag Leases: 9	available	
	leases		3) Crop yields: 15,892 tons	3) Crop yields: Data not yet	
	3) Crop yields on open space			available	
	(tons)				
Ag research Targets TBD based	*Indicator/metric TBD				
Carbon sequestration Targets	*Indicator/metric TBD				
NATURAL ENVIRONMENT: I	Minimize the negative effects o	f development an	d human activities on natural	systems by identifying, protec	ting, enhancing, and
	restorin	g critical environ	mental resources at all scales.		
Increase public knowledge of	*Knowledge of regenerative	COL, CRC	2016:	1) Baseline TBD	Link to water
regenerative land	land management		1) Baseline TBD	2) Garden in a Box - 175	conservation,
management practices	1) # residents reached		2) Garden in a Box - 120	gardens sold (single family	watershed quality
	2) CRC program participation		gardens sold (single family	residential); Water Wise	
	#s		residential); Water Wise	Seminars - 104 participants	
			Seminars - 113 participants	(residential); Slow the Flow	
			(residential); Slow the Flow	Irrigation Audits - 80	
			Irrigation Audits - 62	(residential, commercial);	
			(residential, commercial);	PRSV Program - 5	
			PRSV Program - 15	(commercial)	
			(commercial)		
Increase tree canopy to 18%	*Tree canopy	COL	2008:	1) N/A - Not tracked annually	
or more of the Longmont	1) % tree canopy coverage		1) 8%		

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Increase the community's	*Volunteer participation	COL	2016:	1) 1779	
contribution to meeting its	1) # volunteers, annually		1) 1817	2) Baseline TBD - Will be	
demands for managing costs	2) # volunteer hours and \$		2) Baseline TBD - Will be	tracked through new	
and maintaining and	equivalent, annually		tracked through new	volunteer coordinator hired	
improving parks and open			volunteer coordinator hired	in 2018	
space			in 2018		
Open space targets TBD based	*Indicator/metric TBD				
Wildlife management targets	*Indicator/metric TBD				
Ecological restoration and	*Indicator/metric TBD				
TRANSPORTATION: Inve	st in an efficienttransportation	system that enha	ances mobility, equitably supp	orts multiple modes of transpo	ortation, reduces
	environme	ntal impacts, and	supports a healthier communi	ity.	
Increase equitable access to	*Transit access	COL, Walkscore	2016:	1) Data not yet available	Link to Envision
transportation infrastructure	1) % of households within 1/4		1) 53%	2) TBD	(mode split,
for all segments of the	mile transit stop		2) TBD		congestion, ridership,
community	3) Transit Score				greenway/trails/bikew
	*Walkability/ Bikeability	Walkscore, COL	2016:	1) 39.20	ays, connectivity,
	1) Walk Score		1) 39.21	2) Baseline TBD	VMT)
	2) % arterial road miles with		2) Baseline TBD	3) Baseline TBD	
	marked bike lanes		3) Baseline TBD	4) Baseline TBD	
	3) % population living within ¼		4) Baseline TBD		
	miles of a bike lane/trail				
	4) Sidewalk coverage - % of				
	roads with sidewalk or miles				
	of sidewalk				
Reduce transportation fuel	*Transportation fuel	COL	2016:	1) Data not yet available	Link to Air Quality
consumption by 33% by 2020	consumption		1) Gasoline: 14,757,864		indicator/metric
	1) # gallons of transportation		Diesel: 3,315,708		
	fuel by vehicle type		Ethanol: 1,639,763		
			Public Transit (Diesel):		
			112,181		
			Public Transit (Gasoline): TBD		
10/10	 ASTE: Increase opportunities for	waste diversion	education, and rouse to reduc	e environmental impacts	
VV P	13 I L. Illulease oppolituilities loi	waste diversion,	education, and reuse to reduc	e environmental impacts.	

Increase internal waste	*Internal waste diversion	COL	TBD: Need to determine	TBD: Need to determine	
diversion for all City	1) % waste diverted from		baseline and process for	baseline and process for	
operations	municipal operations annually		tracking this metric	tracking this metric	
Decrease household trash	*Household trash	COL	2016:	1) 2 pounds/capita/day	
landfilled to less than 2	1) Pounds of household trash		1) 2.2 pounds/capita/day		
pounds/capita/day by 2018	landfilled/ capita/ day				
Increase residential waste	*Residential Waste diversion	COL	2016:	1) 38%	
diversion to 50% by 2025	1) % residential waste		1) 35%		
	diverted annually				
Increase commercial waste	*Waste diversion	Boulder County	1) Baseline TBD	1) Baseline TBD	
diversion - baseline TBD	1) % commercial waste				
	diverted annually				
WATER: Preserve	the natural environment in our	watershed and p	rovide a reliable, high quality	water supply that protects pub	lic health.
Reduce customer and City raw	*Raw water demand	COL	2016:	1) Total: 13,670 acre-feet;	Link to Envision
water demands by 10% by	1) Total metered water use,		1) Total: 14,312 acre-feet;	Residential: 7097, Multi-	(water)
community buildout	and by customer class (acre-		Residential: 7614, Multi-	Family: 2410, Small	Link to Water Quality
(estimated at 3,500 acre-feet	feet)		Family: 1613, Small	Commercial: 2507, Mixed	Report
by 2048) through water			Commercial: 2591, Mixed	Use: 19, Large Commercial: 0,	
conservation efforts			Use: 20, Large Commercial: 0,	Irrigation: 1185, Lyons: 378,	
			Irrigation: 1238, Lyons: 304,	Hydrants: 102, City: 957	
			Hydrants: 90, City: 928		
	*Outdoor irrigation	COL	1) Baseline TBD	1) Baseline TBD	
	*Outdoor irrigation	COL	1) baselille 1BD	1) baselille IBD	
	1) # gallons used for outdoor				
	irrigation	COL	1) Data available mid-2018	1) Data available mid-2018	
	*Water Balance (leakage rate)	COL	1) Data avallable IIIu-2018	1) Data avallable IIIIu-2018	
	1) Water loss out of total				
	water delivered (%)				

Decrease the utility cost burden for low-income households through conservation measures	*Water utility cost burden 1) Number of minimum wage hours needed to afford average monthly water utility bill for essential water usage for a single family home	COL	2016: 1) 5.4 hours	1) 5.2 hours
Increase/maintain watershed health	*Water quality of watershed 1) Meeting all state water quality standards 2) Others TBD once watershed program is in place	COL	2016: 1) Standard needs to be developed 2) TBD	1) Standard needs to be developed 2) TBD
Continue to ensure safe drinking water for all households in Longmont's water service areas by developing a plan addressing consecutive systems	*Drinking water quality 1) Number consecutive systems within city limits tied to City system 2) Meet all safe drinking water standards	COL	2016: 1) TBD: Need to determine baseline and process for tracking 2) Met all safe drinking water standards	1) TBD: Need to determine baseline and process for tracking 2) Met all safe drinking water standards