Sample Metrics Chart for ALX Dashboard - How is ALX doing when it comes to addressing the Climate Emergency Declaration?

#	What	Chart – where we are and then the goal
A	**TARGET** - Reduce GHG pollution by 50% by 2030	MWCOG numbers – can we get raw data yearly vs. every 3 years? (COG)
B	% Electric Grid Renewables + nuclear or % of FF	Info from DOM or their IRP
1		Per Capita energy use MW per person. How do we get this number?
2	Energy – reduce via efficiency, reduce gas pollution	Amount of Gas used in ALX, reduce from * current number % to 50% by 2030 (Washington Gas) – will WG provide?
3	Energy	Renewable on-site energy installations / year – City should be able to provide this or Dominion
4	Energy	REC purchase rates / community solar program usage – Dominion provide?
5	Energy	Amount of Electricity used in ALX (# of housing units using less electricity on year over year basis?) – Is this something Dominion could give us? (DOM) Would show increase in energy efficiency if it goes down and might be possible to show decrease overall even if number of units goes up
6	Equity/energy/buildings	# of affordable housing units retrofitted for EE, and/or solarized or equipped with EE appliances via incentives (MWCOG – prioritize energy sustainability for all) – Goal = 100% - Can City provide this number via Office of Housing/ARHA/ Housing Alexandria, etc. Can we incentivize them to collect and share this data?
7	Energy	2.1.2 - Renewable energy supply strategy – how does this reduce GHG emissions?
8	Energy	2.1.3 - Direct purchasing of offsite renewable energy accounts for at least 50% of City energy usage – How much does this reduce GHG emissions when City is only 3% of total?
	BUILDINGS	
9	Buildings - existing	3.1.8 - By 2023 establish incentive programs to encourage green building renovations in existing buildings – how do we measure success and GHG emission reduction by program?
10	Buildings – residential	Number of retrofits in ALX (furnace to heat pump, upgrade insulation) – Goal 53,000 by 2030 (ECCAP) Can Code enforcement provide this / can we incentives residents to report this?
11	Buildings – new residential	* how many units in pipeline to be built and then goal is 95% of those by 2030 are high performance/high efficiency units – **need to define HP/HE (ECCAP) P&Z provide**

	12	Buildings – Commercial **	* How many commercial square feet currently exist in ALX - goal is 13 million square feet retrofitted (ECCAP) can we determine this? Can we incentivize reporting of this?
	13	Buildings – new	LEED certifications for new builds – How does this reduce GHG emissions? Seems like metric that doesn't really tell us much
	14	Buildings - Public	Percentage of converted public buildings – 2 categories: city and ACPS – how does this metric help us keep track of reduction in GHG emissions?
C	**TRANSPORTATION - TARGET** – Reduce total Vehicle miles traveled (VMT) by 1 % per year	EAP2040 – Do we want to shoot for higher percentage?	
	15	Transportation	Number of PIHV and EVs licensed in ALX vs. # of gas/diesel cars – percentage change – goal - get current numbers and then divide by # of years to 2050 to get % each year – (Fairfax) or # of housing unit chargers installed. Can we collect this data?
	16	Transportation	Number of EVs sold in ALX – goal is 50% by 2030 (ECCAP) Can we get this from ALX new registration data?
	17		Public Transit Ridership
	18	Transportation	Increase the share of all trips taken by public transit, walking and biking/scootering by 15% (base year is 2018) (EAP2040) Where will this number come from? Do we want to shoot for higher percentage? How is this number collected – how do we know its reliable data?
	19	Transportation	2.2.5 - By 2024 minimum of 25% of City vehicles to be electric – does this move the needle enough since City is only 3% of total GHG emissions?
	20	Transportation	2.2.6 - By 2028 minimum of 10% of DASH buses, ... to be electric. Are we there yet?
	21	Transportation	2.3.6 - By 2029 implementation of public electric vehicle charging system – Does this metric help us determine how much we are reducing GHG emissions?
		Proven Approach #1: Improve Public Transit	
	22	Transportation	Bus ridership per capita, i.e. number of DASH + WMATA boardings in Alexandria per capita and percentage change over the previous year(s).
	23	Transportation	Bus Service levels, e.g. number of DASH and WMATA bus service hours (or platform hours) in Alexandria and percentage change over the past year(s).
	24	Transportation	Number of miles of Bus Rapid Transit routes in Alexandria.
	25	Transportation	Alternative metrics for "Improving Transit" metrics include the following:

			a. DASH Sustainability metrics: Car Trips replaced by DASH (past 12 months), Tons of CO@ emissions reduced, Miles served by 100% electric buses b. Bus Service reliability, since reliability impacts ridership. c. Bus stops that are fully ADA accessible. As of February 2023, only 419 stops (57%) in Alexandria are accessible and considered to be "ADA Compliant". T&ES tracks this metric and is actively taking steps to improve accessibility. d. Metrics that the ATC Board is considering for DASH Strategic Objectives. e. Transit score trends. Transit Score measures transit accessibility on a scale from 0 - 100. Calculates distance to closest stop on each route, analyzes route frequency and type.
		Proven Approach #2: Increase Active Transportation Infrastructure	
	26	Transportation	The number of miles of protected bike lanes and percentage change over the previous year(s
	27	Transportation	The number and percentage of pedestrian infrastructure improvements, to include linear feet of new sidewalk, numbers of new or upgraded crosswalks, and intersections with added safety treatments.
	28	Transportation	Percentage of Safe Routes to School (SRTS) walking and biking infrastructure recommendations implemented.
		Proven Approach #3: Increasing the cost of single occupancy vehicle driving	
	29	Transportation	Annual percentage increase in parking revenue
	30	Transportation	Education, advocacy, and progress towards establishing congestion pricing in Washington DC. – Congestion pricing would help reduce GHG emissions but this is not a metric.
		Proven Approach #4: Land Use Planning and Smart Growth: Initial thoughts	
	31	Transportation	Establish a baseline and measure percentage change in number of households above a Walk Score threshold;
	32	Transportation	Measure progress towards a goal of zoning changes that encourage compact, mixed-use development
D	**Other**		

33	Land use/natural resources	% of census tracts in ALX that meet 40% tree canopy and 7.3 acres of publically accessible open space per 1000 residents. (Fairfax) can we get this number – better equity metric if done via census tract – Goal is 100%
34	Waste	Waste recycling – How does this metric reduce GHG emissions?
35	Air Quality	Healthy Air Quality Days or do we want # of unhealthy days? How does this metric reduce GHG emissions?
36		9.1.6 - By 2024 prepare a "State of the Air" report – how does this metric reduce GHG emissions?
37	Water	6.2.3 - By 2023 educate businesses and homeowners in water conservation practices – how does this metric reduce GHG emissions?
38	Water	6.2.5 - By 2028 explore a reclaimed water reuse partnership how does this metric reduce GHG emissions?

*- can we get these numbers? If not, what can we substitute for the metric?

** - No mention of number of square feet of **new** commercial space that is high performance/energy efficient?