

### What is a Climate Action Plan?

- Insightful analysis of past progress, current status, and future plans
- Set of complimentary strategies, measures and policies
- Quantitative and qualitative estimates with supporting detail and justification of each strategy
- Guidance on implementation

### Why Create a Climate Action Plan?

## Undergo a consensus building process that provides a roadmap for climate efforts.

- Reduce jurisdiction's/community's operating costs
- Improve air quality
- Protect public health
- Address traffic and other transport woes
- Develop local economy and employment
- Improve sustainability and livability of the community
- Lead by example and gain recognition

### **Climate Action Planning (CAP) Process**

- Evaluate GHG reduction still needed
- Identify and prioritize selection criteria
- Select new measures
- Quantify GHG reduction of new measures
- Identify responsibilities: implementation, financing, monitoring, etc.
- Write Plan and seek approval



**Selecting Measures** 

## Selecting New Measures – Things to Consider

- Maximizing reductions
- Cost-effectiveness
- Stakeholder support
- Goals of related plans
- Regional collaboration and/or cost-sharing
- Legislation/Regulations
- Tie to local priorities



# Climate and Air Pollution Planning Assistant (CAPPA)

- Decision support & action planning tool
- Contains a library of individual calculators and related resources for 110 mitigation actions
- Based on best practices and local circumstances
- Scalable, customizable
- Implementation guidance
- Evolving dynamically

#### ICLEI Emissions Reduction Decision Support Tool

Purchase of Hybrid/Electric Vehicle

#### **Background Description:**

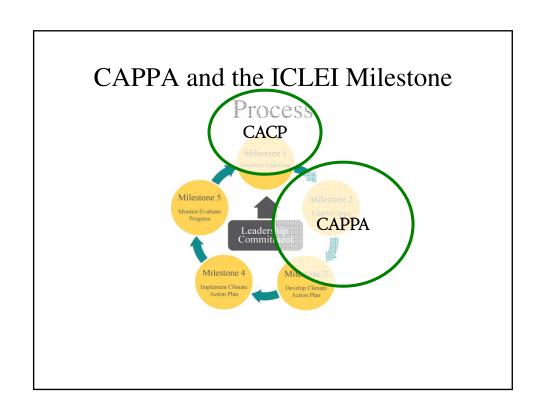
In some cities, exhaust from cars and light trucks is the single biggest air polluter. Electric drivetrains are much more efficient than the drivetrains used on standard internal combustion engine vehicles and can significantly reduce particulate matter and greenhouse gases. Electric motors, rather than pistons and shafts, provide the necessary propulsion. Hybrid/electric vehicles couple and electric drive with a gasoline engine and are widely available and are suited for a variety of applications. Hybrid Ford Escapes are being used as taxi cabs in New York City and below. San Francisco. In 2006, Ford Motor Company pledged to make hybrid versions of half of their fleet. While Ford is unlikely to reach this goal, automakers are increasingly making hybrid/electric versions of existing models available. Many jurisdictions are now employing hybrid buses to reduce particulate emissions and save money on fuel.

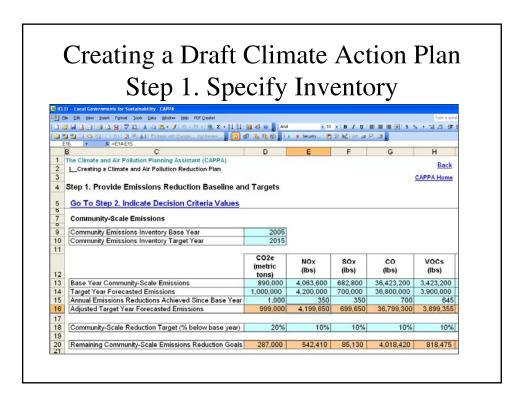
EPA estimates that the Toyota Prius achieves gas mileage

#### Average Emissions Reductions :

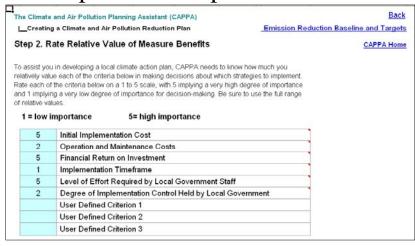
Default values for emissions reductions are for converting one traditional gasoline engine to a hybrid engine, and savings 457 gallons of gasoline. To Calculate the effect of converting more vehicles to hybrids, see the calculator below.

CO2: 9,811 pounds NOx: 30 pounds SOx: 2 CO: 318 VOC: 33 PM10: 1

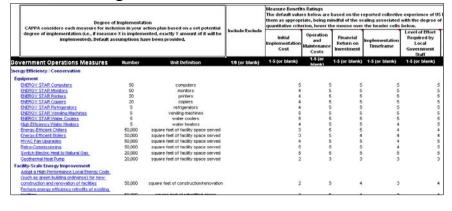




### Creating a Draft Climate Action Plan Step 2. Rate Importance Values



## Creating a Draft Climate Action Plan Step 3. Final Customization



## Final Report

Draft Emissions Reduction Plan Measure	Emissions Reductions					
	CO2e (metric tons)	NO× (lbs)	SOx (lbs)	CO (lbs)	VOCs (lbs)	PM10 (lbs
Purchase Green Electricity	5.706	24,795	12,137	570	30	80
Renewable Energy Certificates	5,706	24,795	12,137	570	30	80
Water System Efficiency	3,149	13,684	6,698	315	17	44
Anserobic Digester at Wastewater Treatment Facility	1,387	6,029	2,961	139	7.	19
Reduce Hours Street Lights Are on Each Day	788	3,426	1,677	79	4	- 11
Fleet Conversion to Biodiesel (B20)	725	-68	0	539	0	56
Establish/Expand Recycling Programs	386	0	0	0	0	0
LED Street Lights	217	942	461	22	1	3
Efficient Street Lights (other than LED)	196	863	418	20	1	3
Energy Efficient Computers	6	25	12	1	0	0
Promote Carpooling and Vangooling	6	2	0	402	42	1
Reflective Roufing	5	22	9	1	0	0
Energy Efficient Vending Machines	5	21	10		0	0
High Efficiency Water Heaters	5	19	7	1	0	0
Energy Efficient Printers	4	18	9	0	0	0
Green Roofs	4	17	8	0	0	0
Promote Telecommuting	3	1	0	247	26	1
Impation Control Sensors	3	15	7	0	0	0
Increase Boiler Efficiency	3	8	0	2	0	0
Reduce Municipal Fleet Milage	2	1	0	172	18	0
Use Solar Hot Water	2	6	0	1	0	0
Limit Idling of Light Duty Vehicles	2	7	1	9	3	1
Energy Efficient Computer Monitors	2	8	4	0	0	0
Energy Efficient Refrigerators	1	6	3	0	0	0
Bicycling Paths and Facilities	1	0	0	79	8	0
Total	19,833	79,444	38,742	34,589	3,856	411
Goal	48,425	1,950	110	6,425	300	220
% Reduction Toward Goal	41%	4074%	35220%	538%	1285%	187%

## How can your local government make a difference?

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