



I.C.L.E.I

Local
Governments
for Sustainability

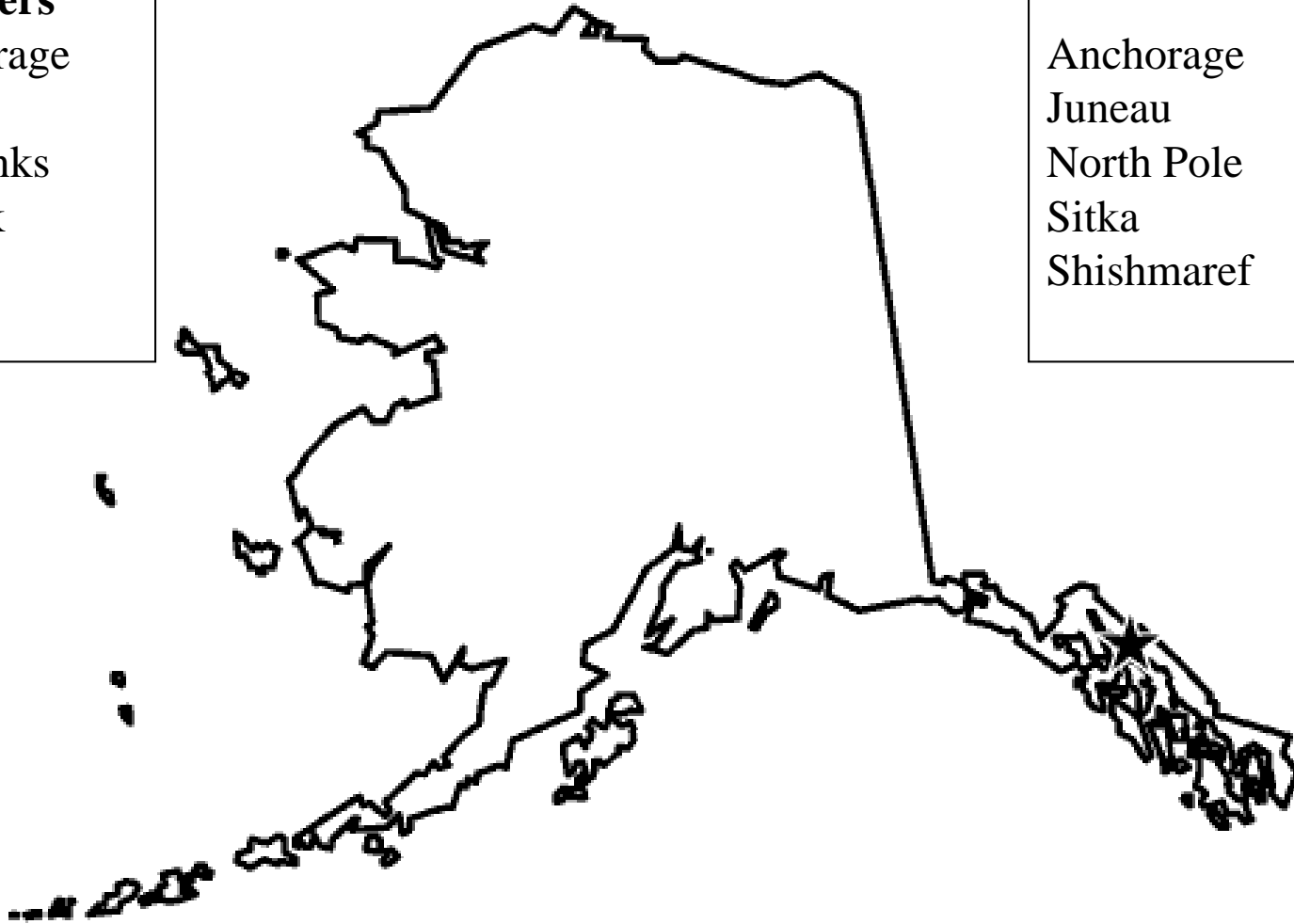
Amy Shatzkin,
Pacific Northwest Regional Capacity
Center. Seattle, WA



**A movement of local governments
dedicated to improving
environmental conditions through
CUMULATIVE LOCAL ACTION**

www.icleiusa.org

**ICLEI
Alaska
Members**
Anchorage
Homer
Fairbanks
Kodiak
Juneau
Sitka



**US Mayor's Climate
Protection Agreement**

Anchorage
Juneau
North Pole
Sitka
Shishmaref

Cities for Climate Protection Campaign

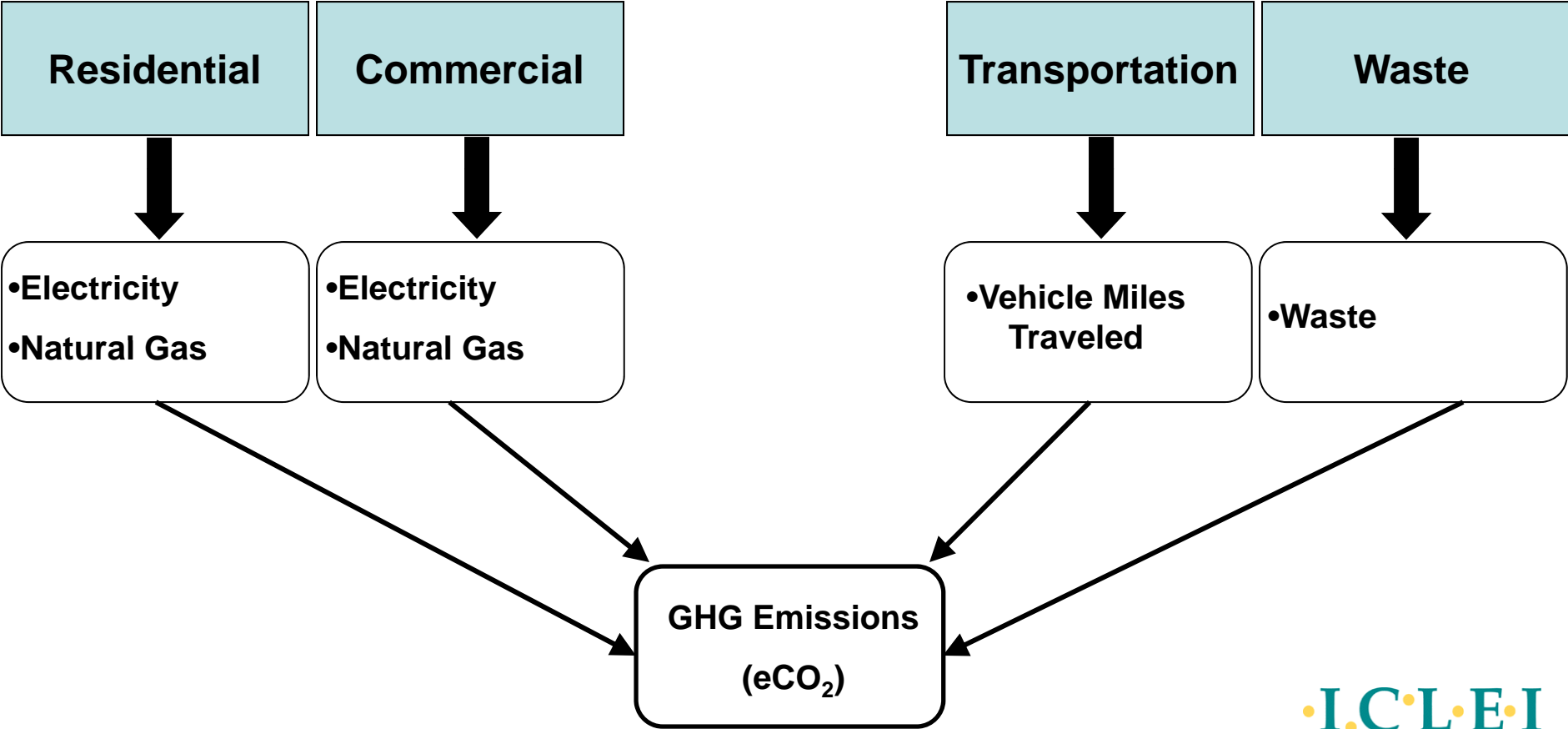
The CCP Milestone Process



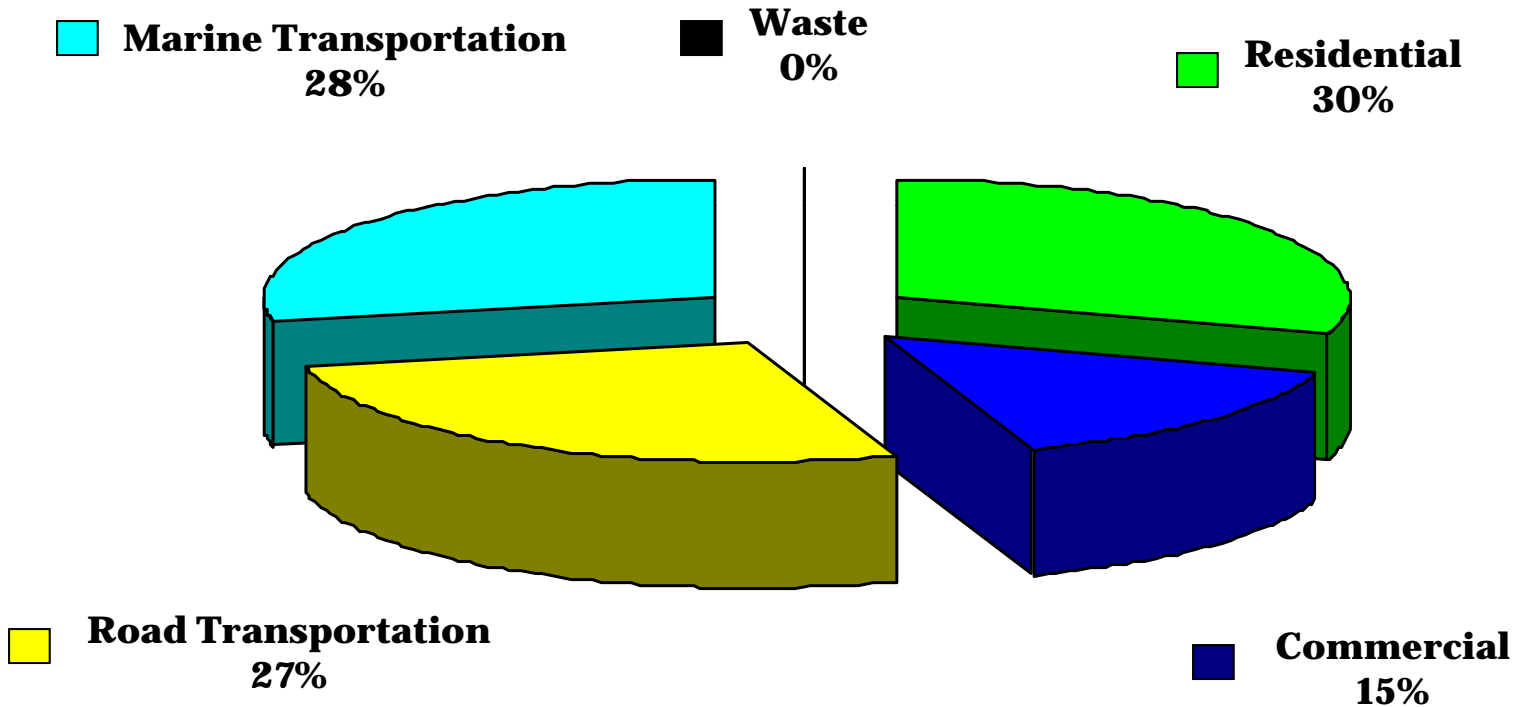
Inventory Methods

- Conducted Inventory for 2003 (Base Year) and 2006 (Interim Year)
- Clean Air and Climate Protection Software
- Inventory divided into two categories:
 - Municipal Operations
 - Community

Community Inventory



Sitka Community Greenhouse Gas Emissions 2003, Equivalent CO2 (%)

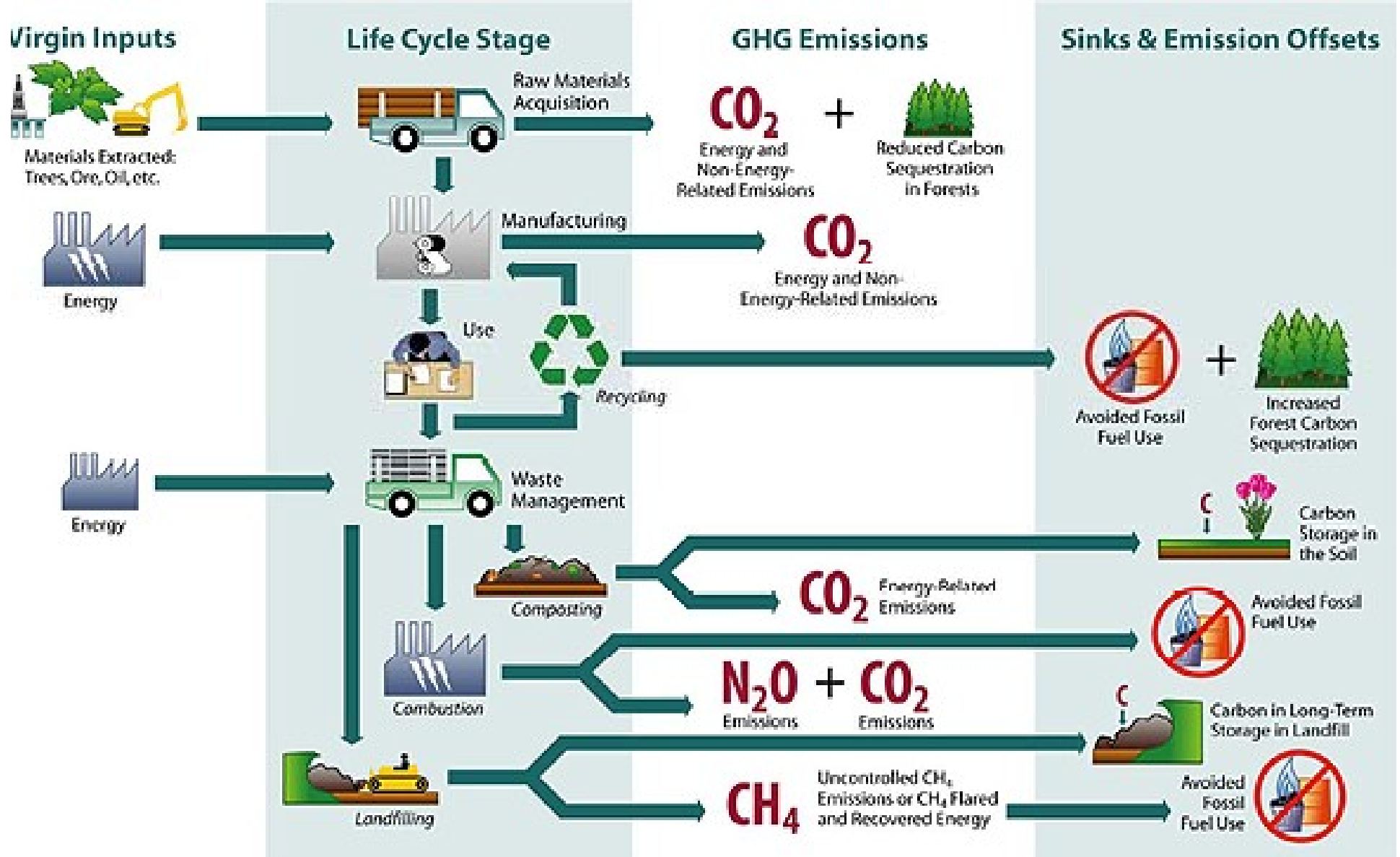


Sitka Community Greenhouse Gas Emissions by Sector 2003

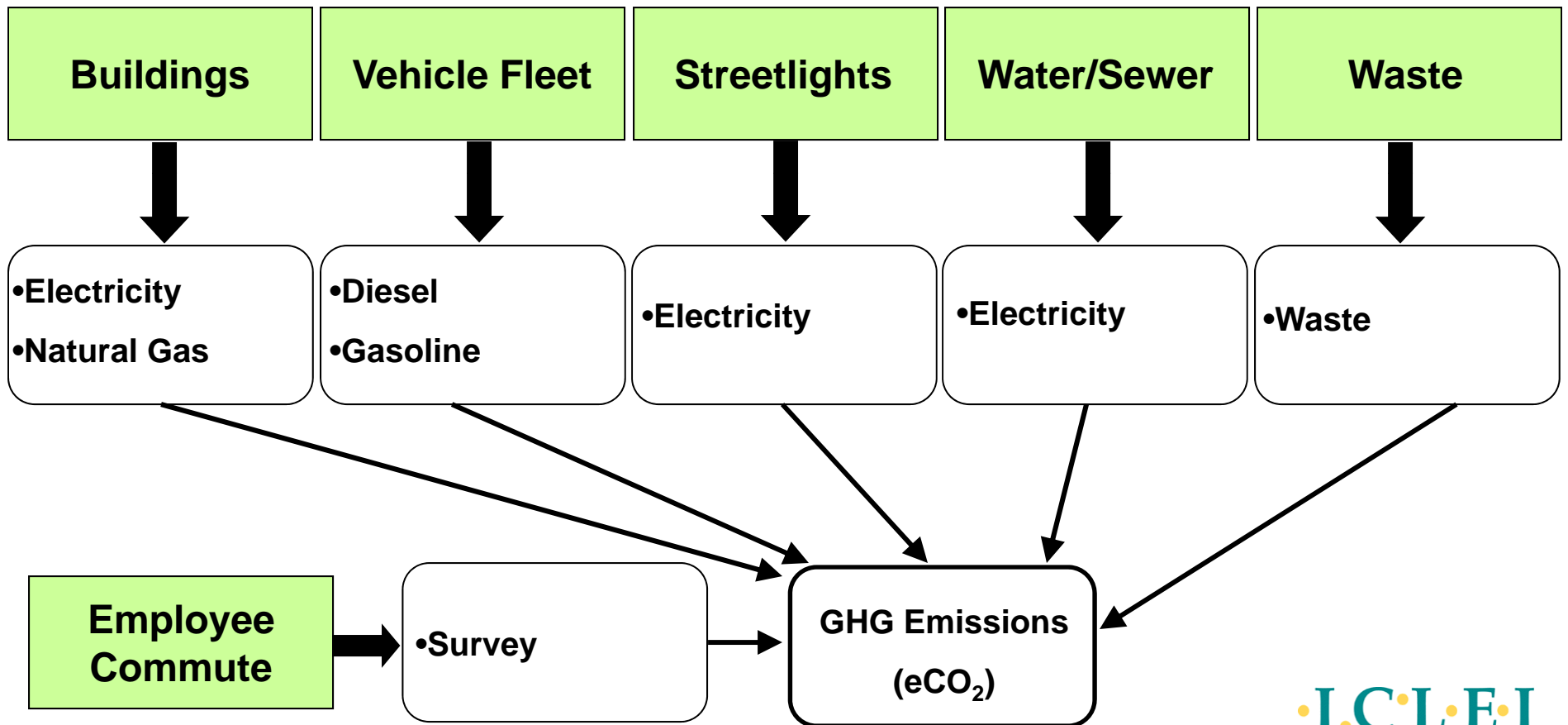
	Equivalent CO2 (Tons)	Equivalent CO2 (%)
Residential	28,354	30.93%
Commercial	13,728	14.97%
Road Transportation	25,538	27.86%
Marine Transportation	26,481	28.88%
Waste	-2,423	0%
Total (Without Waste)	91,677	100%

Greenhouse Gas Sources and Sinks in the Waste Sector

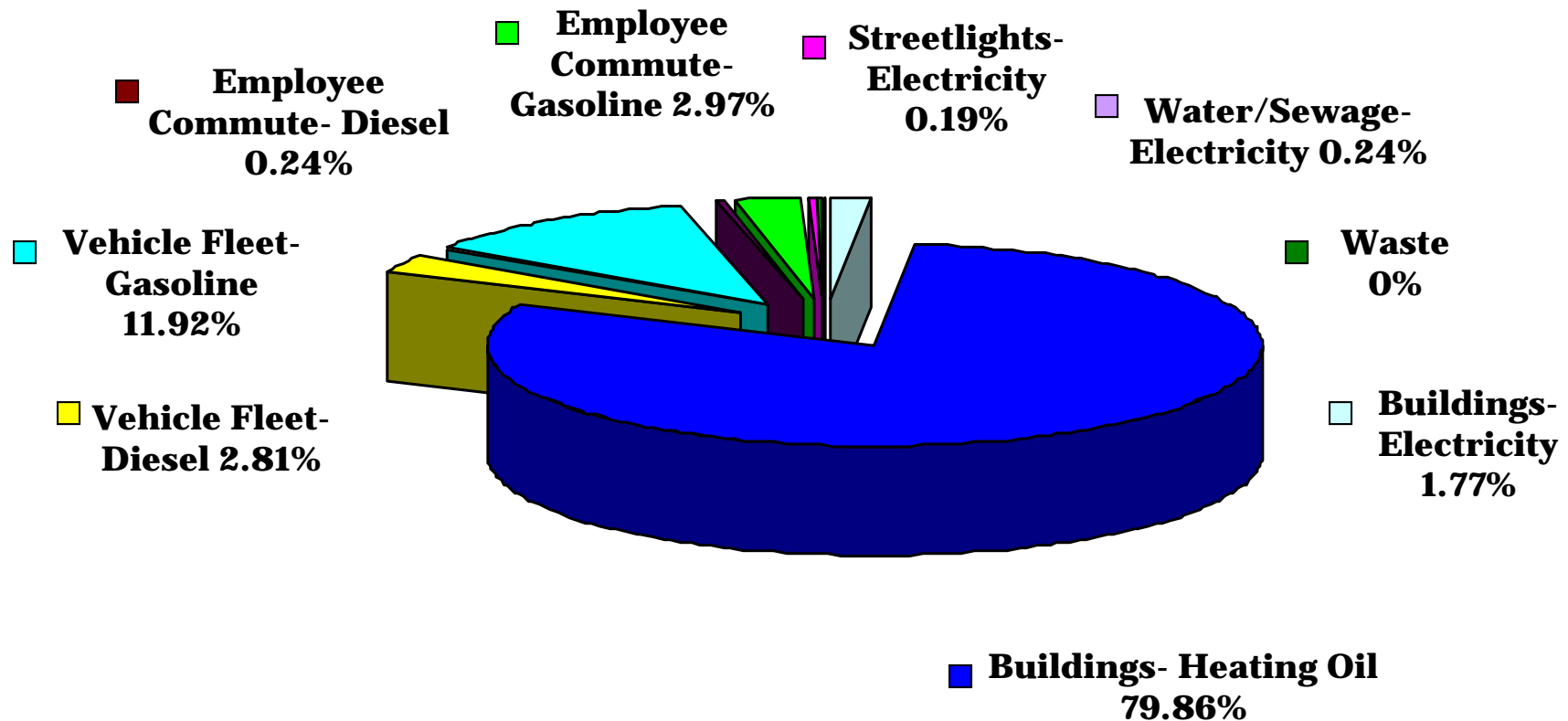
Considering Upstream Energy Use



Municipal Inventory



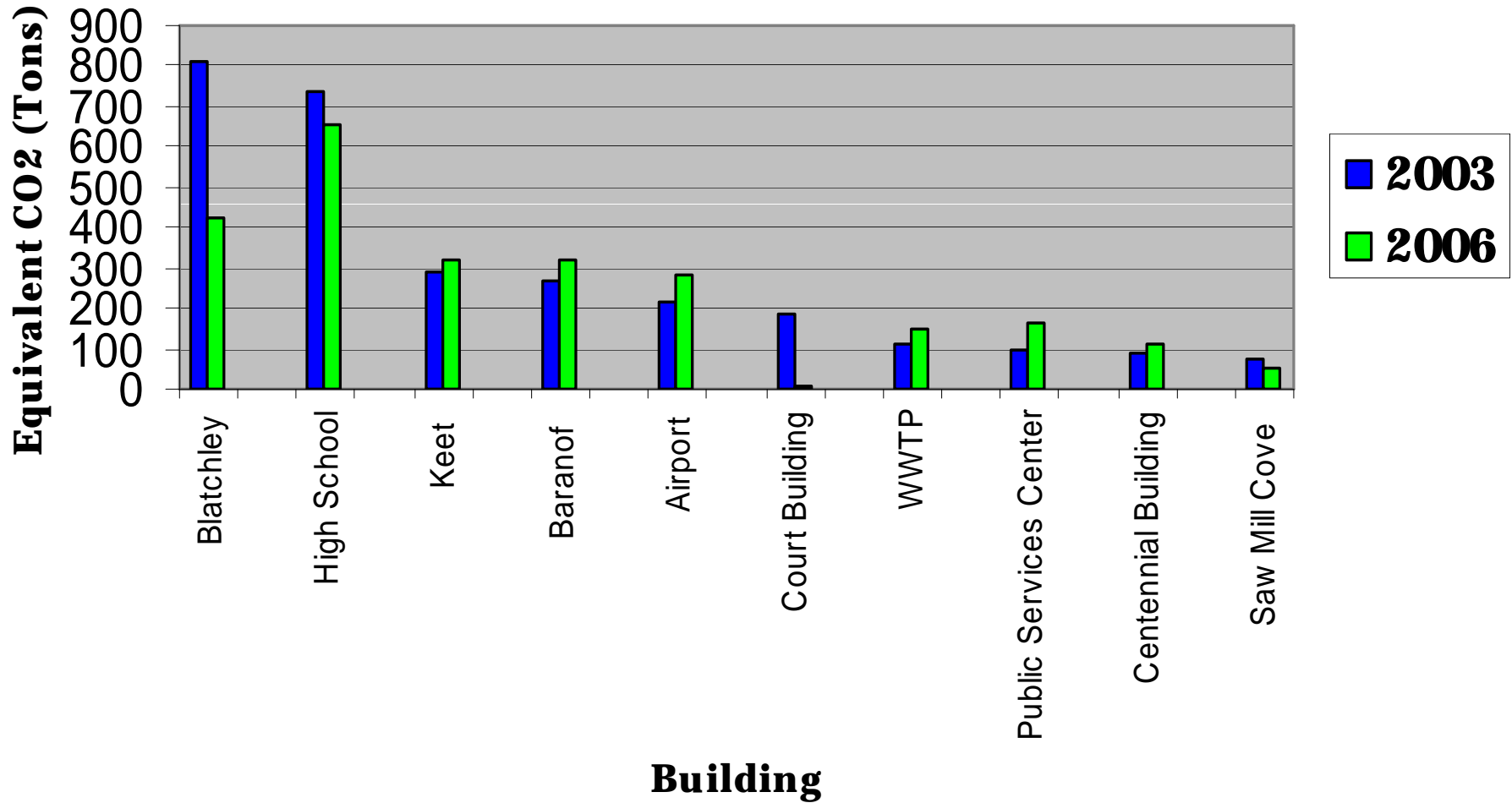
Sitka Municipal Greenhouse Gas Emissions 2003, Equivalent CO2 (%)



Sitka Municipal Greenhouse Gas Emissions Summary by Source and Sector 2003

	Equivalent CO2 (Tons)	Equivalent CO2 (%)	Cost (\$)
Buildings- Electricity	66	1.77%	671,990
Buildings- Heating Oil	2,981	79.86%	302,393
Vehicle Fleet- Diesel	105	2.81%	14,461
Vehicle Fleet- Gasoline	445	11.92%	63,002
Employee Commute- Diesel	9	0.24%	
Employee Commute- Gasoline	111	2.97%	
Streetlights- Electricity	7	0.19%	103,504
Water/Sewage- Electricity	9	0.24%	86,311
Waste	-600	0%	
Total (Waste not Included)	3,733	100%	1,241,661

Sitka Municipal Facilities Greenhouse Gas Emissions 2003 & 2006



Projection:

In 2020 Sitka is expected to produce 93,513 tons of eCO₂

Potential Reduction Targets

- **7% below 1990 levels by 2012= Kyoto Protocol & US Mayors Agreement**
- **Many cities choose 20 % reduction in a 15 to 20 year timeframe**
- **Scientific Imperative: IPCC research suggest that we would need to achieve as much as an 80% reduction below 1990 levels by 2050 in order to reverse global warming and stabilize the climate**

Moving Forward

- **The Climate Action Plan**
- **Benefits of Climate Change Mitigation Efforts:**
 - Reduce greenhouse gas emissions
 - Save taxpayers' dollars
 - Improve air quality
 - Improve community livability
 - Create a legacy of leadership

Municipal Energy Fund

Ann Arbor, MI

- A source of funds for investment in energy-efficient retrofits at city facilities
- Provides the difficult up-front costs and then captures 80% of the resulting savings, which are then invested in further projects
- The fund can become self-sustaining in 3-5 years requiring no additional annual appropriations.
- An initial 100k investment upped to 500k due to success of program >> 7 million saved in 10 years

Thanks!

- Thanks to **The Sitka Conservation Society** and **The Alaska Marine Conservation Council** for providing financial support for this project
- Thank you to everyone who provided data for the community and municipal inventories. Your contributions were essential to the completion of this project.