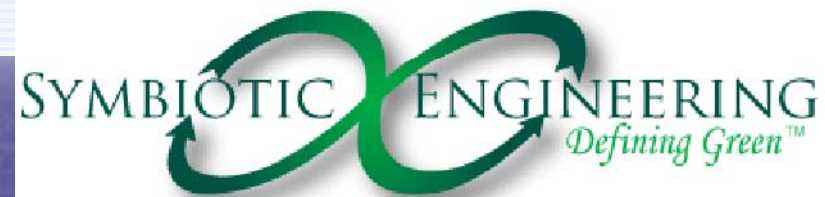




City of
Longmont



City of Longmont CarbonCity Model

Ron Shaw

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City of Longmont's Environmental Management

- Pursuing an integrated environmental approach
 - Considers the social, economic and environmental aspects of activities
 - Soften our impacts to the environment
 - Be prepared for climate changes
 - Considers sustainability objectives*
 - Reduce dependence upon fossil fuels.
 - Reduce dependence upon synthetic chemicals.
 - Reduce encroachment upon nature.
 - Meet human needs fairly and efficiently

* American Planning Assoc. Strategy for Planning for Sustainability



Methodology

- Following internationally recognized methods
 - ICLEI – Local Governments for Sustainability
Five Milestones
 1. Conduct a baseline emissions inventory and forecast
 2. Adopt an emissions reduction target for the forecast year
 3. Develop a Local Action Plan
 4. Implement policies and measures
 5. Monitor and verify results
- Same methodology can be applied to a business



CarbonCity Model

- Leverages Longmont's position as a municipal utility
- Offers unique and needed capabilities
 - "Real time" inventory
 - Database functionality
 - GIS platform
- Developed under contract with Symbiotic Engineering
 - Full confidentiality of data
 - Secure access to data
- No development costs
 - ... Work in progress



CarbonCity Model

- ICLEI Milestone #1 : Conduct a baseline emissions inventory and forecast
- Supports the regional Sustainable Energy Plan efforts
- “What gets measured, gets managed”

City Summary

City Summary Report

Reporting Period: 01/01/06 - 12/31/07

Days in Period: 730

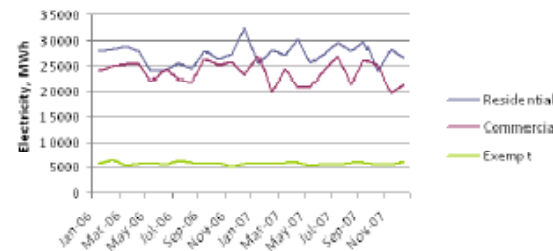
Weather Normalized: Yes

Report Created: 09/28/08

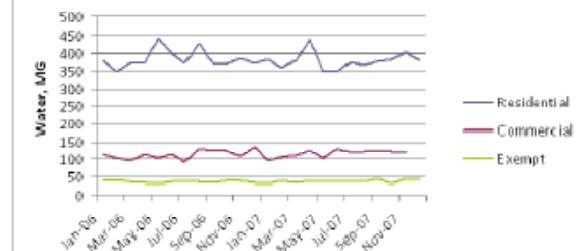
Electricity Emission Factor: eGRID

Activity Data Time-Series Charts

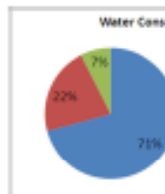
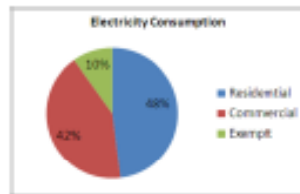
Electricity Consumption by Sector



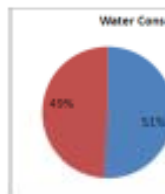
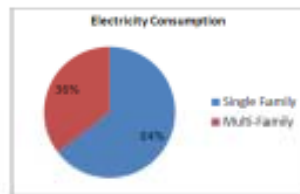
Water Consumption by Sector



Sector Summary

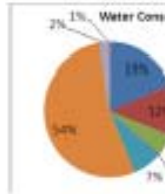
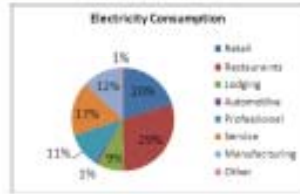


Residential Summary

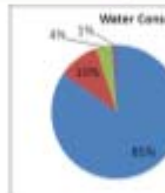
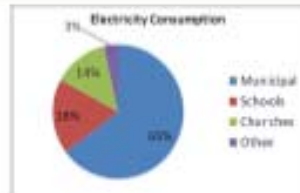


Activity Data Summary Table

Commercial Summary



Tax-Exempt Summary



Sector	Residential Total			Commercial Total			Exempt Total			City Total		
	Electricity (MWh)	Water (million gallons)	mtCO2e	Electricity (MWh)	Water (million gallons)	mtCO2e	Electricity (MWh)	Water (million gallons)	mtCO2e	Electricity (MWh)	Water (million gallons)	mtCO2e
Jan-06	29000	380	26742	24000	113	22525	5500	38	5184	57500	531	54452
Feb-06	29400	345	27049	24960	102	23395	6288	41	5929	59648	488	56369
Mar-06	29500	372	27565	25440	91	23628	5206	36	4910	59548	503	56302
Apr-06	29000	374	26732	25440	116	23668	5602	34	5272	59042	524	55972
May-06	23840	441	23081	22060	103	20721	5730	32	5386	51750	575	49188
Jun-06	24200	399	23045	24460	113	22371	5275	37	4974	53665	550	51190
Jul-06	25660	373	24460	22320	92	20923	6149	36	5784	54028	501	51167
Aug-06	24460	428	23959	21640	133	20553	5742	36	5406	52062	597	49518
Sep-06	27940	371	26999	26400	127	24782	5531	34	5205	59971	531	56956
Oct-06	25420	388	25252	25200	126	23664	5993	38	5363	57313	532	54279
Nov-06	27360	385	26156	25660	110	24090	4969	39	4715	58093	534	54952
Dec-06	32640	372	31841	23260	136	21998	5412	33	5093	61332	541	58032
Jan-07	25600	382	24497	26900	96	25171	5420	32	5111	57060	511	54779
Feb-07	26160	357	26848	19620	107	18719	5483	40	5172	53663	503	50739
Mar-07	27140	379	25942	24400	112	22989	5984	33	5327	57294	525	54239
Apr-07	30360	438	29045	20860	127	19650	5604	38	5382	56844	603	53977
May-07	25680	346	24429	21120	104	19830	5110	36	4818	51810	486	49077
Jun-07	27640	348	26254	24400	130	23003	5569	36	5235	57579	514	54462
Jul-07	28238	375	28238	20860	120	25215	6365	38	5069	61666	533	58513
Aug-07	27900	366	26623	21360	124	20099	5729	36	5394	54969	526	52106
Sep-07	28820	378	28431	26160	126	24666	5767	44	5444	61747	548	58431
Oct-07	24000	383	23029	25200	122	23657	5338	32	5022	54538	537	51709
Nov-07	26320	403	27082	19680	121	18523	6288	45	4972	53258	569	50578
Dec-07	26640	380	26477	21360	99	20043	5922	41	5285	53822	519	51103



- Data will be used to drive informed decisions and program development
 - Most cost effective
 - Specific to resources use and carbon profiles
 - Focused geographically
- Progress towards goals tracked “real time”



Potential Services to Longmont Businesses



Potential Services to Longmont Businesses

- Web based tool
 - Access to your utility data (electric and water)
 - Visual “dashboard”
 - Data is updated quarterly
 - Ability to add data (gas, fleet, etc.)
- Consistent comparisons across the city
- Valuable service
 - Cost to collect data
 - Cost to calculate carbon footprint based on internationally recognized protocols



Date Criteria

From All

To All

- Consumption
- Intensity

Use Weather Normalization

Electricity

Water

Natural Gas

Solid Waste

Transportation

Total CO2e

Electricity Emission Factor

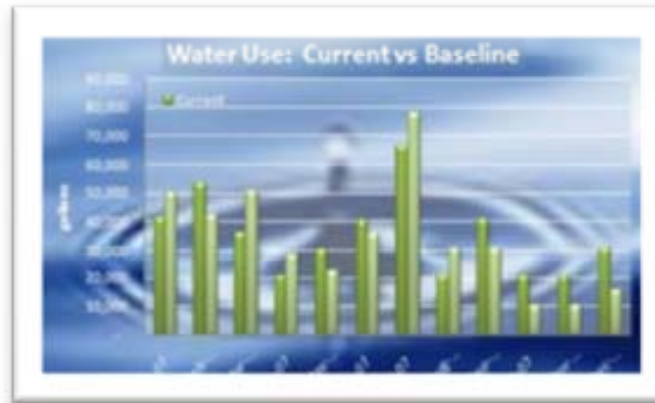
- eGRID
 - User-Defined
- kg CO2e / MWh

Add Data

Report

Export

Current Carbon Footprint



What Else Can I Report?

Service Description
Add an additional facility
Add verification document storage*
Add equipment specific data storage
Add detailed report generation (reports with monthly sector specific data)
Add goal setting and tracking feature (includes annual 1hr meeting with SE staff)
Ability to forward bills for SE to input

* Up to 1 GB



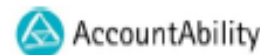
The Global Reporting Initiative (GRI) has pioneered the development of the world's most widely used sustainability reporting framework and is committed to its continuous improvement and application worldwide. This framework sets out the principles and indicators that organizations can use to measure and report their economic, environmental, and social performance.



We Have The Power

The Colorado Carbon Fund is partnering with The Climate Trust to identify and evaluate new and verifiable greenhouse gas offset projects that are based in Colorado. All Offset Project Proposals must meet the following requirements:

- 1) Take place within the state of Colorado
- 2) Reduce one or more of the six GHGs (carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, sulphur hexafluoride)
- 3) Meet our additionality standard



The AA1000 Assurance Standard was launched in 2003 as the world's first sustainability assurance standard. It was developed to ensure the credibility and quality of sustainability performance and reporting and was the result of an extensive, two-year, worldwide consultation involving hundreds of organizations from the professions, the investment community, nongovernmental organizations (NGOs), labor and business. Since late 2006, AccountAbility's AA1000 Assurance Standard (AA1000AS) has been undergoing a thorough revision process. The global launch will be followed by numerous regional and country level launches beginning November 2008.



Questions?

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