GOALS

net-zero carbon

\+

100% renewable electricity

2022 for city operations

2032 community wide

Community indicators

Community indicator	2007	2016	% change
Park City population	7,165	8,376	19%
Number of households	2,568	3,002	19%
Number of housing units	9,471	9,608	1%
Number of jobs	11,860	14,506	38%
Commercial floorspace	2,771,253	3,016,898	9%
Number of tourists	201,807	712,725	256%
Heating degree days	7,770	6,874	-12%
Cooling degree days	348	408	153%

Methodology

Replicated 2007 methodology as best as possible

Many factors have changed:

➔   reporting standards
➔   emissions factors
➔   data collection methods

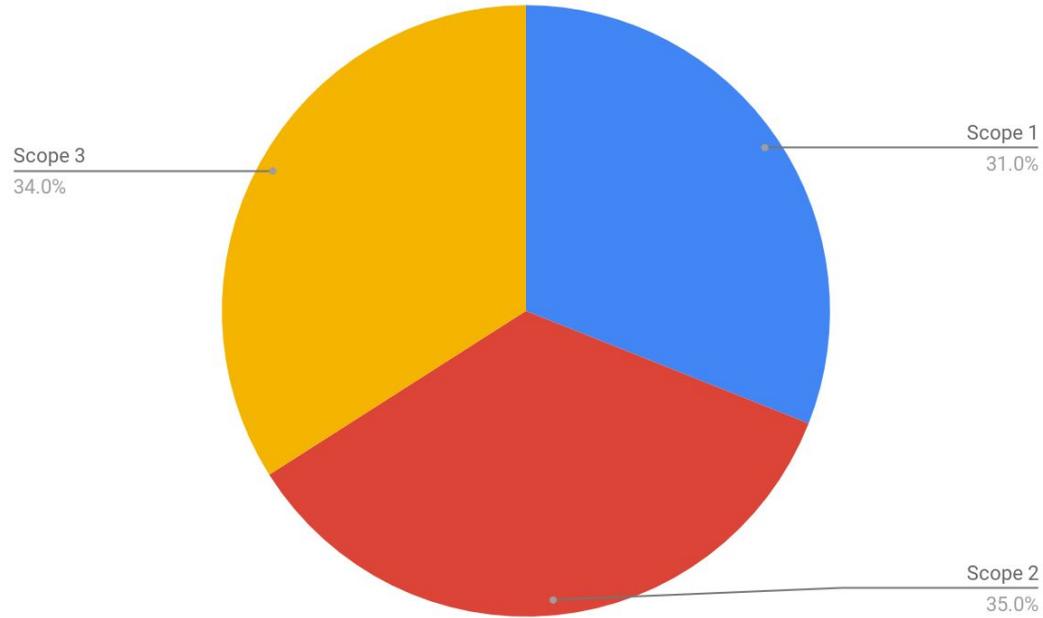GPC BASIC, BASIC+ reporting standards AND some consumption-based data

Created a database with all contacts and data sources for easy replication

2016 community-wide carbon footprint=

510,126 MT CO2e*

600,859	129	55,084
acres of U.S. forests in one year	Wind turbines running for a year	homes' energy use for one year

*BASIC+ methodology

Emissions by scope

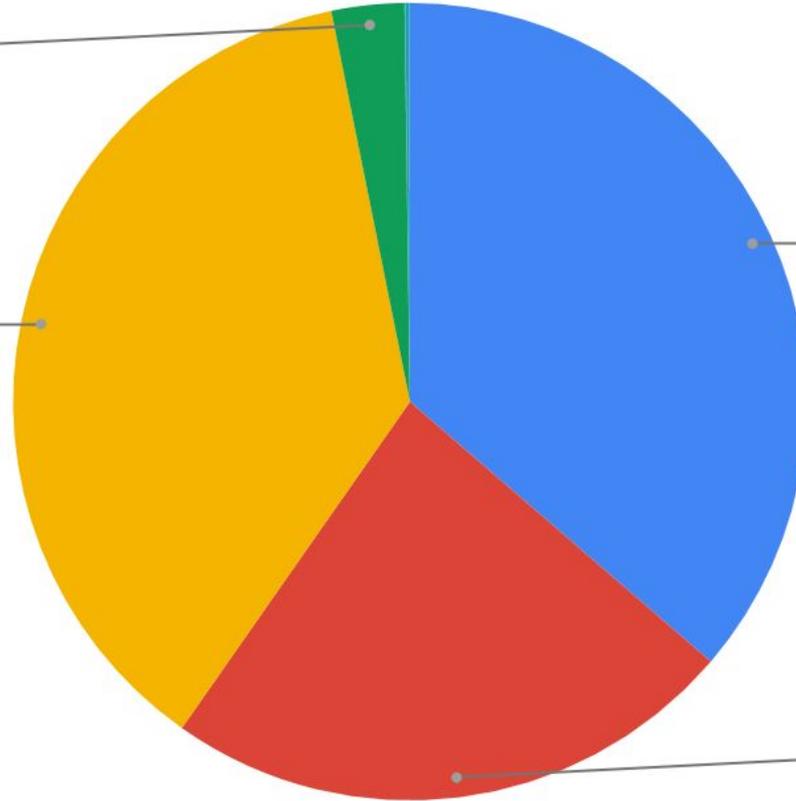| Scope 1 (31%)	Scope 2 (35%)	Scope 3 (34%)
Natural gas & propane, vehicle fuels, refrigerants	Electricity	Air travel (29%), waste

Emissions by sector

Solid waste
3.0%

Transportation Fuels
37.1%

Electricity
36.3%

Stationary Fuels
23.4%

Emissions by source

Solid Waste
2.9%

Aviation
29.1%

Residential
30.2%

On-road Transportation
7.9%

Fugitive emissions
0.7%

Manufacturing and industrial
0.6%

Commercial and institutional
28.2%
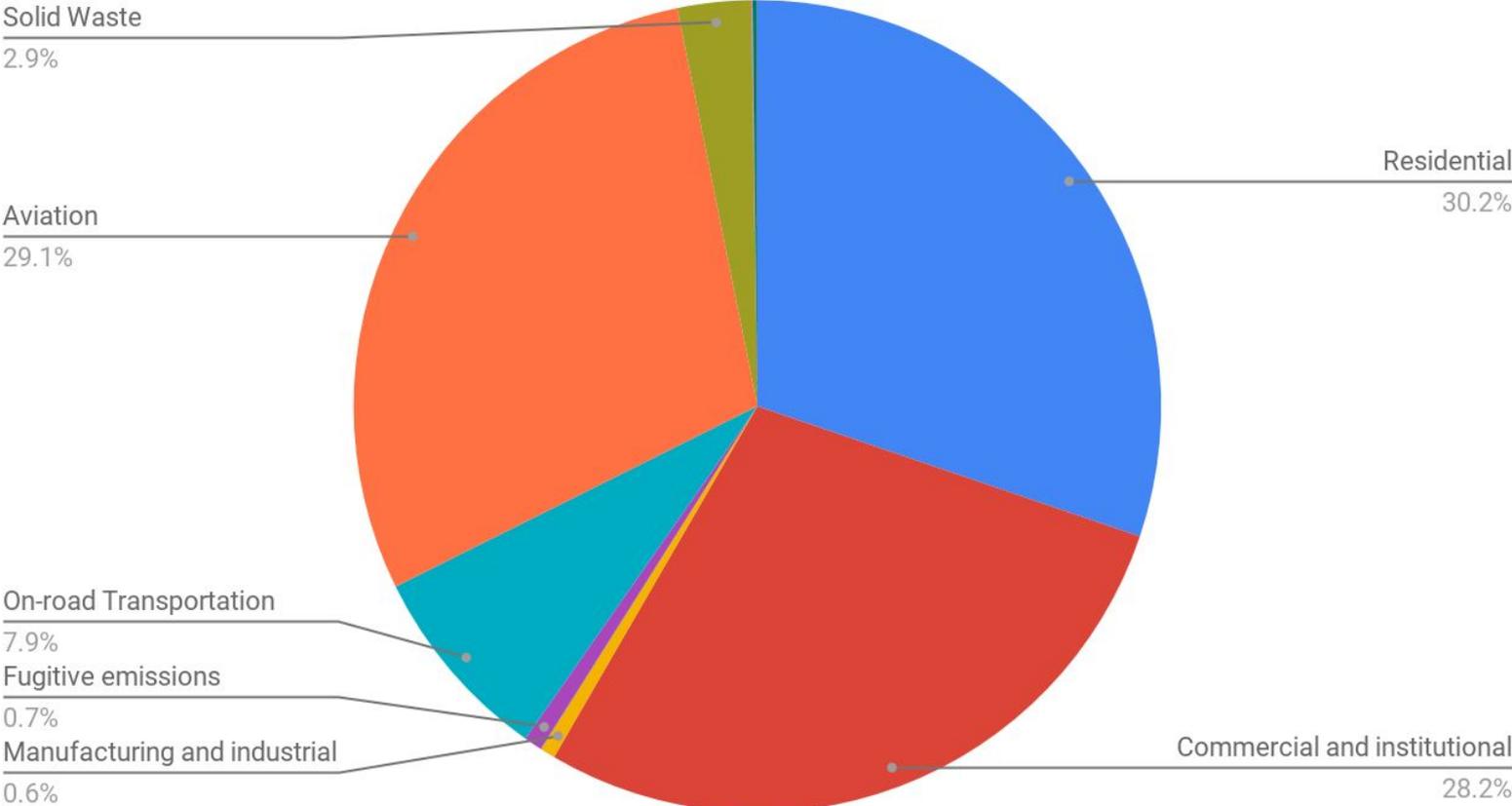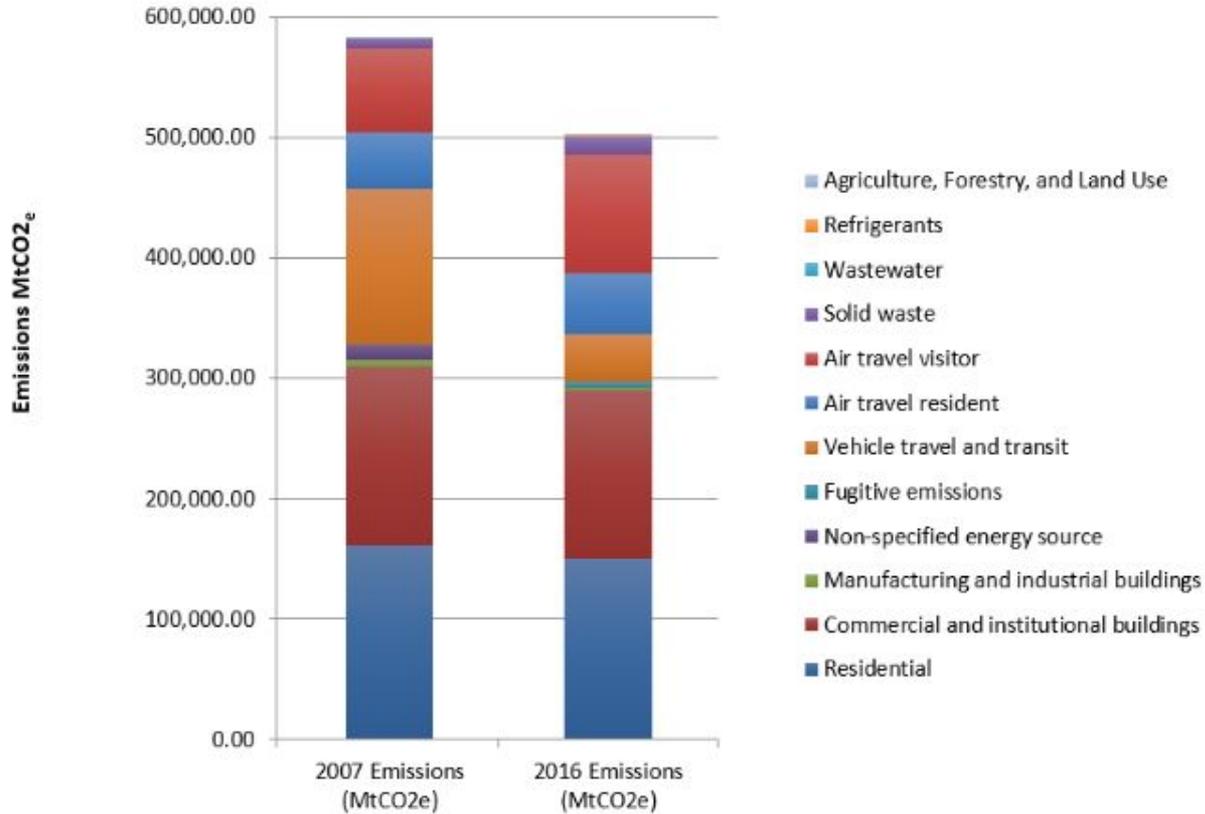
Changes in CO2e emissions = -12.3%

Changes in emissions by sector

Emissions (MT CO2e)	2007	2016	% change
Residential total	160,733	150,089	-6.60%
Residential electric	86,128	83,879	-2.60%
Residential natural gas	73,271	64,914	-11.40%
Residential propane	1,334	1,296	-2.80%
Commercial total	153,133	142,550	-6.90%
Commercial electric	109,506	90,068	-17.80%
Commercial natural gas	37,795	49,572	31.20%
Manufacturing electric	4,622	2,910	-37%
Manufacturing natural gas	1,210	0	-100%
Travel total	245,079	189,130	-22.80%
Vehicle travel	129,059	40,439	-68.70%
Aviation travel	116,020	148,691	28.20%

Changes in energy use

Energy consumption	2007	2016	% change
Electricity total (kWh)	209,972,596	239,952,891	14.30%
Residential	90,306,968	113,811,744	26.00%
Commercial	114,819,194	122,193,059	6.40%
Industrial	4,846,434	3,948,088	-18.50%
Natural gas total (dTh)	1,817,324	2,143,548	18.00%
Residential	1,185,980	1,220,499	2.90%
Commercial	611,756	923,049	50.90%
Industrial	19,588		-100%

Normalized buildings data

Metrics	Units	2007	2016	% change
Electricity				
Residential electricity per household	kWh/HH	35,165	37,910	7.80%
Residential electricity per person	kWh/person	12,604	13,588	7.80%
C&I electricity per employee	kWh/FTE	9,681	8,424	-13.00%
Natural gas				
Residential natural gas per household	dTh/HH	461.81	406.54	-12.00%
Residential natural gas per person	dTh/person	165.52	145.71	-12.00%
C&I natural gas per employee	dTh/FTE	51.58	63.63	23.40%
Weather normalized natural gas				
Heating Degree Days	HDD	7,770	6,874	-12.00%
Residential natural gas per household	dTh/HH/HDD	0.05944	0.05914	-0.50%
Residential natural gas per person	dTh/person/HDD	0.0213	0.0212	-0.50%
C&I Natural Gas per employee	dTh/FTE/HDD	0.00664	0.00926	39.40%

Normalized changes in energy usage

Emissions metrics	Units	% change
Residential electricity per person	kWh/person	7.8%
Commercial electricity per person	kWh/job	-13.0%
Residential natural gas per person	dTh/person	-12%
Commercial gas per employee	dTh/job	23.4%
Transportation emissions per resident	MT CO2e/resident	-34.0%*

Planned emissions reductions

Chart: Emissions MtCO2e — 2016 Emissions (MtCO2e)

Y-axis values: 600,000.00 / 500,000.00 / 400,000.00 / 300,000.00 / 200,000.00 / 100,000.00 / 0.00

Legend:
- Solid waste
- Air travel visitor
- Air travel resident
- Vehicle travel and transit
- Commercial and institutional buildings
- Residential

Callout boxes:

Work with Recycle Utah
Food waste composting
C+D recycling

Develop and promote:
- public transit
- electrification of vehicles
- 100% renewables

Work with SCPW
"*inspire efficient energy use through innovative programs to improve economic vitality and the environment.*"

PCMC to lead by example (NZE)

Voluntary Stretch Code

Community-wide action plan with utilities

100% renewable

PARK CITY — RESIDENTS, BUSINESSES AND LOCAL GOVERNMENT SPEND **$245 MILLION** ON FOSSIL FUELS **EVERY YEAR**

PARK CITY

OIL — **SPENDS $213M**

NATURAL GAS — **SPENDS $11M**

COAL — **SPENDS $21M**

Canada
Wyoming
Utah
Colorado
Mexico
Venezuela
Colombia
Ecuador
Russia
Persian Gulf
Iraq
Saudi Arabia
Nigeria

INVESTING $245M IN PARK CITY'S CLEAN ENERGY FUTURE COULD FUND...

15% ENERGY EFFICIENCY UPGRADES IN ALL RESIDENTIAL HOMES

PURCHASING ZERO EMISSIONS ELECTRIC VEHICLES FOR EACH RESIDENT

SOLAR POWER ON ALL RESIDENTIAL BUILDINGS

SOURCES
Park City's 2016 Community-wide footprint, U.S. Energy Information Administration, SLC Community Air Travel (enplanement data), Utah-based cost for Jet Fuel

Other sources and full methodology available at www.carbonneutralcities.org

CNCA · PARK CITY 1884

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