

RESOLUTION NO. CC 02-20-17-04

**A RESOLUTION OF THE COMMON COUNCIL OF THE CITY OF CARMEL, INDIANA,
REGARDING CLIMATE RESILIENCE & RECOVERY**

Synopsis: Resolution to reduce carbon emissions, increase energy efficiency and renewable energy use, in order to create a climate change-resilient City of Carmel that will protect the children and grandchildren of this community.

WHEREAS, the average temperature trend analyses from NASA Goddard Institute for Space Studies Surface Temperature Analysis show significant average temperature rise (for a list of references and citations, please see Exhibit A, which is attached hereto and incorporated herein by this reference); and

WHEREAS, the American Meteorological Society has declared there is unequivocal evidence of a changing climate since the 1950s;

WHEREAS, the American Meteorological Society has also determined that the dominant cause of the warming due primarily to the burning of fossil fuels;

WHEREAS, numerous respected agencies and organizations including the American Lung Association, the National Academy of Sciences, and the Dept. of Defense Quadrennial Defense Review have determined that climate change is a serious risk to life, a threat multiplier, and a threat to national security;

WHEREAS, localized risks to Hoosiers affecting human health, infrastructure and agriculture have included costly and dangerous extreme heat and drought conditions (2012), record-breaking rains and subsequent floods (2015), and overall chaotic weather extremes;

WHEREAS, in 2008, 82 of Indiana's 92 counties were declared Presidential disaster areas due to winter weather, severe storms, and flooding, and incurred over \$1.9 billion in damage to public infrastructure, housing and agriculture;

WHEREAS, the Purdue Climate Change Research Center has determined that under continued business-as-usual "no action" carbon emissions, the Midwest should expect increased risks to public health, infrastructure and agriculture due to increased heat wave intensity and frequency, more extreme droughts, increased heavy rain events and flooding, decreasing agricultural yield and degraded air and water quality;

WHEREAS, a shift to clean renewable energy is inevitable due to the finite nature of non-renewable fossil resources;

45
46 **WHEREAS**, by increasing the efficiency of our buildings, vehicles, and electricity, our
47 Community will save money, conserve energy, reduce waste, reduce pollution, and promote jobs in
48 the clean energy sector;

49
50 **WHEREAS**, the effects of a healthier environment will substantially reduce health costs,
51 especially for those suffering from asthma and emphysema and other lung illness associated with
52 poor air quality;

53
54 **WHEREAS**, various economic analyses have shown that it is possible to introduce climate
55 mitigation at a low cost, and the benefits outweigh costs;

56
57 **WHEREAS**, investment in energy independence from foreign oil will improve national
58 security and reduce military expenses which could be used for domestic needs, such as education,
59 infrastructure, and efforts to build resilient communities;

60
61 **WHEREAS**, the greatest burden resulting from an inadequate response to address climate
62 change will be carried by the youngest generation, and all who follow;

63
64 **WHEREAS**, the risks from an inadequate response are potentially devastating, and are
65 projected to include economic and environmental disruption, accelerated species extinction rates,
66 rising sea levels, and a dramatic increase in refugees from climate impacted lands;

67
68 **WHEREAS**, averting the worst impacts of climate change will require reducing carbon
69 emissions by at least 80% by 2050; and

70
71 **WHEREAS**, a local individualized climate plan will allow Carmel to continue to show
72 leadership in improving the quality of life for its citizens.

73
74 **NOW, THEREFORE, BE IT RESOLVED** by the Common Council of the City of Carmel,
75 Indiana, as follows:

76
77 1) The City of Carmel will strive to reduce its carbon emissions from
78 2016 levels in a manner that is prudent, properly funded, well
79 documented, and approved by the Carmel Common Council.

80
81 2) In order to establish a plan to achieve Objective #1 of this
82 Resolution, the City of Carmel will create a climate action plan that
83 includes obtaining a baseline measurement of citywide emissions,
84 establishing proper measures to ensure the plan is being implemented, and

89 incorporating energy efficiency and renewable energy standards where
90 possible.

91
92 3) The City of Carmel may appoint a commission comprised of
93 business leaders, faith leaders, youth leaders, and community leaders to
94 monitor progress and consult with elected officials.

95
96 **SO RESOLVED** by the Common Council of the City of Carmel, Indiana this _____ day of
97 _____, 2017 by a vote of _____ ayes and _____ nays.

98
99 **COMMON COUNCIL FOR THE CITY OF CARMEL**

100
101 _____
102 Sue Finkam, President H. Bruce Kimball

103
104
105 _____
106 Laura D. Campbell Kevin D. Rider

107
108
109 _____
110 Ronald E. Carter Jeff Worrell

111
112
113 _____
114 Anthony Green

115
116 ATTEST:
117 _____
118 Christine S. Pauley, Clerk-Treasurer

119
120 Presented by me to the Mayor of the City of Carmel, Indiana this ____ day of
121 _____ 2017, at _____ .M.
122
123 _____
124 Christine S. Pauley, Clerk-Treasurer

125 Approved by me, Mayor of the City of Carmel, Indiana, this _____ day of
126 _____ 2017, at _____ .M.
127
128 _____
129 James Brainard, Mayor

130
131 ATTEST:
132 _____
133 Christine S. Pauley, Clerk-Treasurer

138 **EXHIBIT A**
139 **CITATIONS & REFERENCES**
140

141 **NASA:** "Global Climate Change"; climate.nasa.gov/evidence

142
143 **American Meteorological Society:** [https://www.ametsoc.org/ams/index.cfm/about-ams/ams-](https://www.ametsoc.org/ams/index.cfm/about-ams/ams-statements/statements-of-the-ams-in-force/climate-change/)
144 [statements/statements-of-the-ams-in-force/climate-change/](https://www.ametsoc.org/ams/index.cfm/about-ams/ams-statements/statements-of-the-ams-in-force/climate-change/)

145
146 **National Academy of Sciences:** [https://www.koshland-science-museum.org/explore-the-science/earth-](https://www.koshland-science-museum.org/explore-the-science/earth-lab/impacts)
147 [lab/impacts](https://www.koshland-science-museum.org/explore-the-science/earth-lab/impacts)

148
149 **Department of Defense:** http://archive.defense.gov/pubs/2014_Quadrennial_Defense_Review.pdf

150
151 **American Lung Association:** <http://www.lung.org/our-initiatives/healthy-air/outdoor/climate-change/>

152
153 **Indiana State Climate Office:** July 2012 Climate Summary, <http://iclimate.org/summary/2012-07.pdf>
154 "July maximum temperatures exceeded 100°F or more on about 7 days across the state and peaked at or above
155 105°F on 2 days in two heat waves. The drought intensified statewide this month, reaching exceptional status in
156 a quarter of Indiana. More than half the state now qualifies as a federal drought disaster area. Estimates of crop
157 losses to Indiana now exceed \$1 billion."

158
159 **Indiana Public Media, Dan Goldblatt:** 2012 Was Second Warmest Year On Record In Indiana

160 <http://indianapublicmedia.org/news/2012-warmest-year-record-42701/>

161 "In 2012, Indiana's average temperature was more than three degrees higher than average, making it the second
162 hottest year since 1871, when record-keeping began."

163
164 **NOAA National Centers for Environmental Information:**

165 a. *State of the Climate: Drought for Annual 2012*, <http://www.ncdc.noaa.gov/sotc/drought/201213>

166 "Six states in the Plains and Midwest (Arkansas, Indiana, Iowa, Kansas, Missouri, Nebraska) ranked in
167 the top ten driest category for [January-November](#)"

168 b. *Billion Dollar Weather and Climate Disasters*, <http://www.ncdc.noaa.gov/billions/events>

169 "The 2012 drought is the most extensive drought to affect the U.S. since the 1930s. Moderate to
170 extreme drought conditions affected more than half the country for a majority of 2012. The following
171 states were affected: CA, NV, ID, MT, WY, UT, CO, AZ, NM, TX, ND, SD, NE, KS, OK, AR, MO,
172 IA, MN, IL, IN, GA. Costly drought impacts occurred across the central agriculture states resulting in
173 widespread harvest failure for corn, sorghum and soybean crops, among others. The associated summer
174 heatwave also caused 123 direct deaths, but an estimate of the excess mortality due to heat stress is still
175 unknown."

176
177 **State Climate Office:** Indiana rains set record for month of June

178 [https://www.purdue.edu/newsroom/releases/2015/Q3/state-climate-office-indiana-rains-set-record-for-month-of-](https://www.purdue.edu/newsroom/releases/2015/Q3/state-climate-office-indiana-rains-set-record-for-month-of-june.html)
179 [june.html](https://www.purdue.edu/newsroom/releases/2015/Q3/state-climate-office-indiana-rains-set-record-for-month-of-june.html)

180 "Indiana set a record for rainfall in the month of June, with a state average of 9.03 inches, the [Indiana State](#)
181 [Climate Office](#) said Wednesday (July 1). June also was the fourth-wettest of any month on record since
182 1895. The rainfall surpassed the previous June record of 8.13 inches set in 1958. The climate office, based at
183 Purdue University, said nearly all parts of Indiana received above-normal rainfall. Normal rainfall ranges from
184 4.1 inches to 4.3 inches across the state."

185
186 **US Department of Housing and Urban Development, Federal Register 2009, Gov. Mitch Daniels, Indiana**
187 **Office of Community and Rural Affairs, Indiana Housing and Community Development Dept.:** State of
188 Indiana Amendment #5 to Action Plan for CDGB Supplemental Disaster Recover Funds

189 http://www.in.gov/ocra/files/CDBG_Disaster_Appropriation_2_Action_Plan_Amendment_5_Rev_FINAL.pdf

190 Page 4

The 2008 disasters in Indiana have been among the worst in our state's history. 82 of Indiana's 92 counties were declared as Presidential disaster areas between the three disaster periods (DR-1740, DR-1766 and DR-1795).

191
192 Page 5

The chart below depicts the best possible estimate of the financial impact of all the 2008 disasters to the state of Indiana. Based on these estimates, the state has been subject to over \$1.9 billion in damage to public infrastructure, housing and farmland.

193
194
195 **Purdue University:** <https://www.purdue.edu/discoverypark/climate/resources/docs/ClimateImpactsIndiana.pdf>;
196 Also, **National Climate Assessment:** <http://nca2014.globalchange.gov/report#section-1946>

197
198 **National Geographic Society:** Non-Renewable Energy.
199 <http://nationalgeographic.org/encyclopedia/non-renewable-energy/>

200
201 **Stanford Report:** Stanford scientist unveils 50-state plan to transform U.S. to renewable energy,
202 <http://news.stanford.edu/news/2014/february/fifty-states-renewables-022414.html>
203 "Stanford University scientist [Mark Jacobson](#) has developed a [50-state roadmap](#) for transforming the United
204 States from dependence on fossil fuels to 100 percent renewable energy by 2050.... The motivation for the 50-
205 state plan, he said, is to address the negative impacts on climate and human health from widespread use of coal,
206 oil and natural gas. Replacing these fossil fuels with clean technologies would significantly reduce carbon
207 dioxide emissions that contribute to global warming and spare the lives of an estimated 59,000 Americans who
208 die from exposure to air pollution annually, he said."

209
210 **Union of Concerned Scientists:** Benefits of Renewable Energy Use
211 [http://www.ucsusa.org/clean_energy/our-energy-choices/renewable-energy/public-benefits-of-](http://www.ucsusa.org/clean_energy/our-energy-choices/renewable-energy/public-benefits-of-renewable.html#.V5ZQjMtTH5o)
212 [renewable.html#.V5ZQjMtTH5o](http://www.ucsusa.org/clean_energy/our-energy-choices/renewable-energy/public-benefits-of-renewable.html#.V5ZQjMtTH5o)
213 "Little to No Global Warming Emissions... Improved Public Health and Environmental Quality... A Vast and
214 Inexhaustible Energy Supply... Jobs and Other Economic Benefits... Stable Energy Prices... A More Reliable and
215 Resilient Energy System"

216
217 **McKinsey & Company:**
218 a. *Jon Creyts, Hannah Choi Granade, and Kenneth J. Ostrowski: US Energy Savings Opportunities and*
219 *Challenges,*
220 [http://www.mckinsey.com/industries/electric-power-and-natural-gas/our-insights/us-energy-savings-](http://www.mckinsey.com/industries/electric-power-and-natural-gas/our-insights/us-energy-savings-opportunities-and-challenges)
221 [opportunities-and-challenges](http://www.mckinsey.com/industries/electric-power-and-natural-gas/our-insights/us-energy-savings-opportunities-and-challenges) "There is great potential to reduce energy consumption and minimize its
222 total cost by using existing technologies—and without changing the everyday habits of consumers...For
223 executives, this shift could bring not only new challenges, including stringent regulations, but also new
224 business opportunities. And for society as a whole, the potential savings are huge: more than \$1 trillion
225 in the United States alone."

226 b. *Hannah Choi Granade, Jon Creyts, Anton Derkach, Phillip Farese, Scott Nyquist, and Kenneth J.*
227 *Ostrowski: Unlocking Energy Efficiency in the U.S. Economy*
228 "Energy Efficiency offers a vast, low cost energy resource for the U.S. economy - but only if the nation
229 can craft a comprehensive and innovative approach to unlock it."

230
231 **Climate Central, Bobby Magill:** Better Health a Key Benefit of Renewables, Study Says
232 <http://www.climatecentral.org/news/renewables-benefit-climate-public-health-19397>

233 "Researchers from Harvard University, in a bid to show the monetary value of clean energy projects in terms of
234 improved public health, have found that energy efficiency measures and low-carbon energy sources can save a
235 region between \$5.7 million and \$210 million annually..."

236
237 **U.S. Senate Committee on Foreign Relations:** The Hidden Cost of Oil

238 <https://www.gpo.gov/fdsys/pkg/CHRG-109shrg34739/html/CHRG-109shrg34739.htm>

239 *Opening Remarks* - RICHARD G. LUGAR, Senator from Indiana, Committee Chairman

240 "...there is not a full appreciation of the hidden costs of oil dependence to our economy, our national
241 security, our environment, and our broader international goals...if we blithely ignore our dependence on
242 foreign oil, we are inviting an economic and national security disaster....Our goals must be to mitigate
243 the short-term costs of our dependence on oil while pursuing energy alternatives that would reduce the
244 international leverage of petro-superpowers, improve environmental quality, cushion potential oil price
245 shocks, stimulate new high-tech energy industries, and ground the American economy on energy
246 sources that will neither run out nor be cut off by a foreign supplier... reliance on fossil fuels contributes
247 to environmental problems, including climate change. In the long run, this could bring drought, famine,
248 disease, and mass migration, all of which could lead to conflict and instability...Some costs, particularly
249 those affecting the environment and public health, are attributable to oil no matter its source; others,
250 such as costs of military resources dedicated to preserving oil supplies, stem from our dependence on
251 oil imports. But each dollar we spend on securing oil fields, borrowing money to pay for oil imports, or
252 cleaning up an oil spill is an opportunity missed to invest in a sustainable energy future...As the U.S.
253 Government and American business consider investments in energy alternatives, we must be able to
254 compare the costs of these investments with the entire cost of oil. Public acknowledgment of the
255 billions of dollars we spend to support what the President has called our, "oil addiction," would shed
256 new light on investment.

257
258 *Testimony* - MILTON R. COPULOS, PRESIDENT, NATIONAL DEFENSE COUNCIL

259 FOUNDATION, ALEXANDRIA, VA "...the hidden cost in 2005 for our oil profligacy came to \$779.5
260 billion...The supply disruptions of the 1970s cost the U.S. economy between \$2.3 trillion and \$2.5
261 trillion. Today, such an event could carry a price tag as high as \$8 trillion"

262
263 *Testimony* - DR. GARY W. YOHE, JOHN E. ANDRUS PROFESSOR OF ECONOMICS,

264 WESLEYAN UNIVERSITY, MIDDLETOWN, CT "...if the global mean temperature were to increase
265 another 2 degrees from 2000 levels, that there would be a 50-percent chance of the collapse of the
266 thermohaline circulation, otherwise known as the Gulf Stream...if you do not include the environmental
267 costs of petroleum, the climate costs of petroleum, in your evaluations of what it really costs the planet
268 for you to burn a barrel of oil, for whatever purpose, you systematically undervalue conservation
269 projects--programs, plans, policies--projects that would look for alternative energy sources, things that
270 are more sustainable...Systematically, as well, you overvalue new sources of oil, you overvalue new
271 sources of consumption of oil, simply because the energy required to drive it is not priced
272 appropriately.... It's actually really less important what number starts the policy now. It is more
273 important, and absolutely critical, that it increase over time at a predictable rate..."

274
275 **Current in Carmel, James Feichtner:** Ballard, Brainard Speak on U.S. Oil Dependency

276 <http://currentincarmel.com/ballard-brainard-speak-on-u-s-oil-dependency>

277 "... Ballard spoke to residents and emphasized that the U.S. involvement in Middle Eastern affairs related
278 directly to its dependence on oil. "My basic question is why are we in the Middle East?," Ballard said. "That's a
279 good basic question to ask. Forty years we've been doing this since the Middle Eastern countries figured out,
280 because of the oil embargos of 1973, they could affect our quality of life. That's why we are there."

281
282 **National Oceanic and Atmospheric Administration:** Sea level rise

283 <http://oceanservice.noaa.gov/facts/sealevel.html>

284

285 **United Nations High Commissioner for Refugees: Refugees**

286 <http://www.unhcr.org/en-us/climate-change-and-disasters.html>

287

288 **UNHCR report on climate change, 2015**

289 [http://www.unhcr.org/en-us/protection/environment/540854f49/unhcr-climate-change-](http://www.unhcr.org/en-us/protection/environment/540854f49/unhcr-climate-change-overview.html?query=projected%20refugees%20climate%20change)

290 [overview.html?query=projected refugees climate change](http://www.unhcr.org/en-us/protection/environment/540854f49/unhcr-climate-change-overview.html?query=projected%20refugees%20climate%20change)

291 "...UN High Commissioner for Refugees Antonio Guterres has staunchly and consistently advocated for States to

292 take the issue of climate change seriously and expressed his view that this is a megatrend that will compound

293 others, such as food and water insecurity and competition over resources..."

294

295 **Internal Displacement Monitoring Center**

296 [http://www.unhcr.org/en-us/protection/environment/540854f49/unhcr-climate-change-](http://www.unhcr.org/en-us/protection/environment/540854f49/unhcr-climate-change-overview.html?query=projected%20refugees%20climate%20change)

297 [overview.html?query=projected refugees climate change](http://www.unhcr.org/en-us/protection/environment/540854f49/unhcr-climate-change-overview.html?query=projected%20refugees%20climate%20change)

298 "...Since 2008, an average of 26.4 million people per year have been displaced from their homes by disasters

299 brought on by natural hazards. This is the equivalent to one person being displaced every second. The number

300 and scale of huge disasters creates significant fluctuation from year to year in the total number of people

301 displaced, while the trend over decades is on the rise."

302

303 **Carbon Neutral Cities Alliance.**

304 <http://usdn.org/public/page/13/CNCA>

305 "Cities striving for carbon neutrality recognize that averting the worst impacts of climate change will require

306 cutting GHG emissions by at least 80% by 2050."

307

308 **The National Academies of Science, Engineering and Medicine, Climate Stabilization Targets**

309 <https://nas-sites.org/americasclimatechoices/other-reports-on-climate-change/climate-stabilization-targets/>

310 "Emissions of carbon dioxide from the burning of fossil fuels have ushered in a new epoch where human

311 activities will largely determine the evolution of Earth's climate. Because carbon dioxide in the atmosphere is

312 long lived, emissions reductions choices made today matter in determining impacts experienced not just over the

313 next few decades, but in the coming centuries and millennia. Policy choices can be informed by recent advances

314 in climate science that quantify the relationships between increases in carbon dioxide and global warming,

315 related climate changes, and resulting impacts, such as changes in streamflow, wildfires, crop productivity,

316 extreme hot summers, and sea level rise.

317

318 **Union of Concerned Scientists, Avoiding Dangerous Climate Change**

319 <http://www.usclimatenetwork.org/resource-database/WEB%20emissions-target-fact-sheet.pdf>

320 Given our aggressive assumptions about reductions by other nations and the fact that 450 ppm CO₂eq represents

321 the upper limit needed to avoid a potentially dangerous temperature increase, the United States should reduce its

322 emissions at least 80 percent below 2000 levels by 2050

323

324 **US Global Change Research Program, Emissions Reductions and Carbon Dioxide Concentrations**

325 <http://www.globalchange.gov/browse/multimedia/%EF%BF%BCemissions-reductions-and-carbon-dioxide-concentrations>

326 To reduce the changes occurring in climate, we would need to stabilize atmospheric levels of carbon dioxide, not

327 simply stabilize current emission levels of carbon dioxide. Just stabilizing emissions still leads to increasing

328 amounts of carbon dioxide in the atmosphere, because emissions are greater than the sinks that remove it (blue

329 lines). To stabilize levels of atmospheric carbon dioxide, emissions would need to be reduced significantly, on

330 the order of 80% or more compared to the present day (green lines). The lower graph shows how carbon dioxide

331 concentrations would be expected to evolve depending upon emissions for one illustrative case, but this applies

332 for any chosen target

333

334 **Climate Change 2014 Synthesis Report Summary for Policymakers**

335 http://www.ipcc.ch/pdf/assessment-report/ar5/syr/AR5_SYR_FINAL_SPM.pdf

336

337 "these scenarios are characterized by concentrations below 430 ppm CO₂-eq by 2100 and 2050 emission reduction
338 between 70% and 95% below 2010
339

340 **Additional Resources**

- 341
- 342 I. Model Cities for Carbon Neutrality
 - 343 A. Copenhagen - <http://www.energycommunity.org/documents/copenhagen.pdf>
 - 344 B. Melbourne - [http://www.melbourne.vic.gov.au/AboutCouncil/
345 PlansandPublications/strategies/Pages/Environmentalpolicies.aspx](http://www.melbourne.vic.gov.au/AboutCouncil/PlansandPublications/strategies/Pages/Environmentalpolicies.aspx)
 - 346 C. Fort Collins, CO - <http://www.fcgov.com/environmentalservices/pdf/cap-framework-2015.pdf>
 - 347 II. For more cities with carbon reduction plans, see C40 Cities (<http://www.c40.org/cities>) and the Carbon Neutral
348 Cities Alliance (<http://usdn.org/public/page/13/CNCA>).
 - 349

350 **Carbon Brief, Simon Evans:**

351 <https://www.carbonbrief.org/briefing-the-15-options-for-net-zero-emissions-in-the-paris-climate-text>

352 "Many of the world's nations want this year's Paris climate talks to aim for net-zero emissions, so that the world becomes
353 climate neutral later this century."
354

355 **Only Zero Carbon:**

356 <http://www.onlyzerocarbon.org/definition.html>
357

358 **Carbon neutral and net zero as defined by UNEP (GAP report 2014):**

359 "Global carbon neutrality means that, globally, anthropogenic carbon dioxide emissions are net zero. Net zero implies that
360 some remaining carbon dioxide emissions could be compensated by the same amount of carbon dioxide uptake (negative
361 emissions), as long as the net input of carbon dioxide to the atmosphere due to human activities is zero."
362

363 **Carbon Neutral Cities Alliance:**

364 <http://usdn.org/public/page/13/CNCA>

365 A collaboration of international cities committed to achieving aggressive long-term carbon reduction goals.
366

367 **Climate Neutral Cities:**

368 How to make cities less energy- and carbon-intensive and more resilient to climatic challenges
369 https://www.unece.org/fileadmin/DAM/hlm/documents/Publications/climate_neutral_cities_e.pdf
370 Cities are responsible for a significant part of GHG emissions – both directly as
371 generators of such emissions and indirectly as end-users of fossil fuel based energies and
372 other goods and services, the production of which generates emissions elsewhere. Cities
373 should, therefore, be considered as strategic vehicles for climate change mitigation.
374

375 **David Suzuki Foundation:** Using Carbon Offsets to Neutralize Your Emissions

376 <http://www.davidsuzuki.org/what-you-can-do/reduce-your-carbon-footprint/go-carbon-neutral/>

377 "Here's how it works: if you add polluting emissions to the atmosphere, you can effectively subtract them by purchasing
378 [carbon offsets](#). Carbon offsets are simply credits for emission reductions achieved by projects such as wind farms, solar
379 installations, or energy efficiency retrofits. You can purchase these credits and apply them to your own emissions to
380 reduce your net climate impact."
381

382 **Ecoaffect:** New Lancet Report - Climate Change Is Biggest Health Threat and Greatest Health Opportunity of 21st
383 Century

384 [http://ecoaffect.org/2015/06/23/new-lancet-report-climate-change-is-biggest-health-threat-and-greatest-health-
385 opportunity-of-21st-century/](http://ecoaffect.org/2015/06/23/new-lancet-report-climate-change-is-biggest-health-threat-and-greatest-health-opportunity-of-21st-century/)

386

387 **SustainableBusiness.com:**

- 388 A. World's Largest Cities Launch Carbon Neutral Alliance
- 389 <http://www.sustainablebusiness.com/index.cfm/go/news.display/id/26234> *Cities include:* New York

390 City, Boston, San Francisco, Seattle, Portland, OR, Boulder, Minneapolis, Wash DC, Vancouver,
391 London, Berlin, Stockholm, Copenhagen, Oslo, Berlin, Melbourne, Sydney, Yokohama
392 B. In Unanimous Vote, Vancouver Moves Toward 100% Renewable Energy
393 <http://www.sustainablebusiness.com/index.cfm/go/news.display/id/26231> “In 2010, Vancouver passed
394 its Greenest City Action Plan - to become the world's greenest city by 2020.”
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