

# **Fossil Fuels, Forests and Climate Change**

**July 17, 2013 Boulder, Colorado**

**Global Greengrants**



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# Clean Energy Action

Citizen Power

[www.CleanEnergyAction.org](http://www.CleanEnergyAction.org)

**Empower  
Our Future**

Clean Energy. Local Control.



# ←350

PLAN-Boulder  
County



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GUARDIANS**



*youth for global  
sustainability*

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COLORADO  
FOUNDATION**



**SIERRA  
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FOUNDED 1892

**WILDEARTH  
GUARDIANS**  
A FORCE FOR NATURE



**FossilFuelFreeDenver.org**

Let's do our part for the good of all.



Please use renewable energy, not coal, oil or gas.

# GREENPEACE

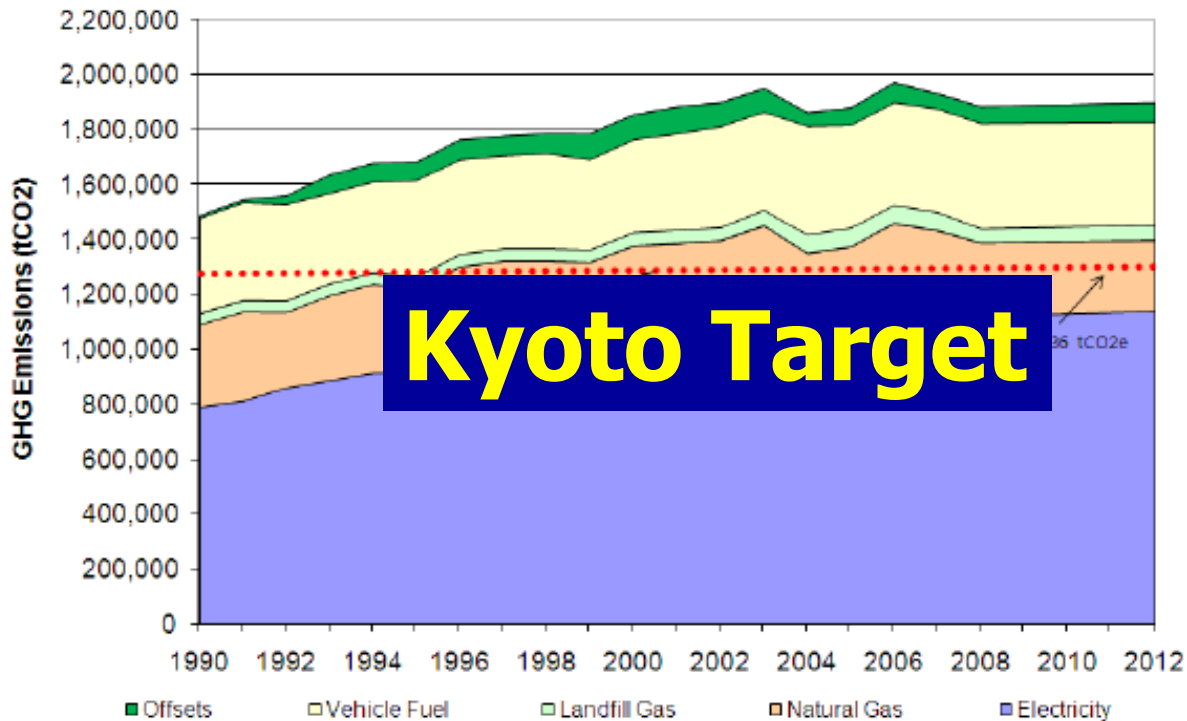
# Boulder: Leading the Way on Climate Change?



<http://ottosrambles.co.uk/boulder-colorado.php>

# Boulder's Greenhouse Gas Inventory

Figure 3: Updated Forecast Boulder GHG Inventory by Source, 1990 – 2012 with RPS Effects



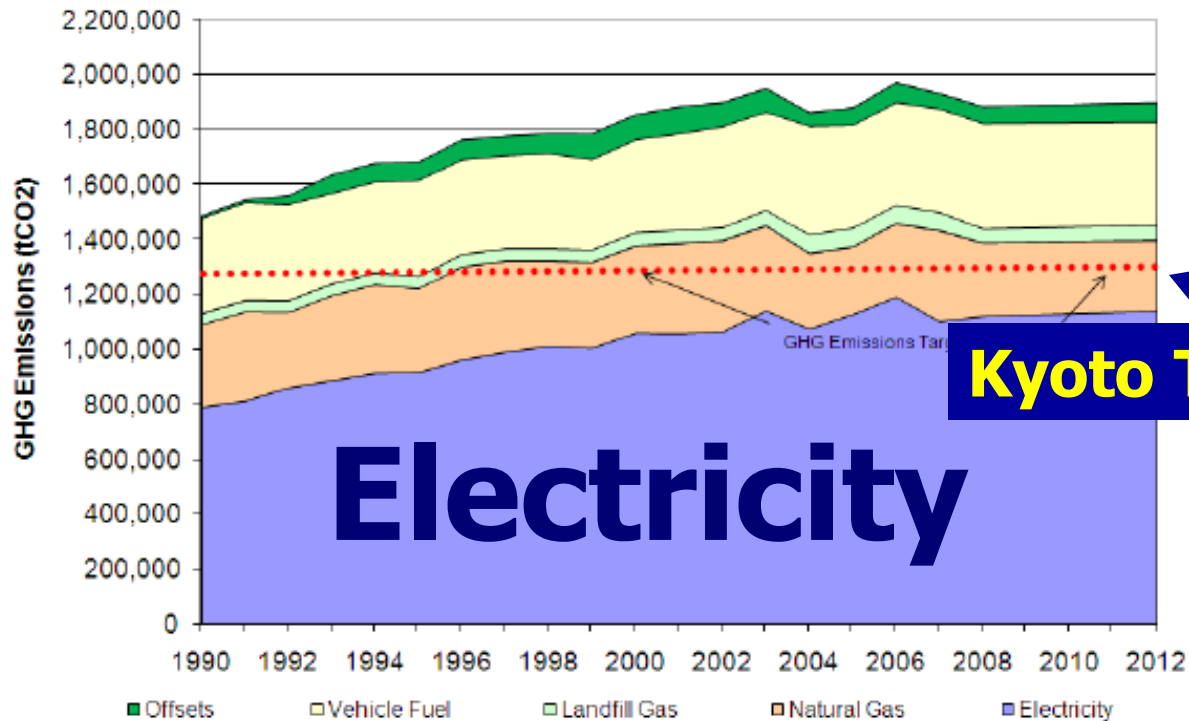
**Kyoto Target**

Source: City of Boulder Climate Action Plan Assessment July 2009

[http://www.bouldercolorado.gov/files/Environmental%20Affairs/climate%20and%20energy/City\\_of\\_Boulder\\_ALL\\_SECTIONS\\_FINAL\\_072809\\_v9.pdf](http://www.bouldercolorado.gov/files/Environmental%20Affairs/climate%20and%20energy/City_of_Boulder_ALL_SECTIONS_FINAL_072809_v9.pdf)

# Boulder's Greenhouse Gas Inventory

Figure 3: Updated Forecast Boulder GHG Inventory by Source, 1990 – 2012 with RPS Effects



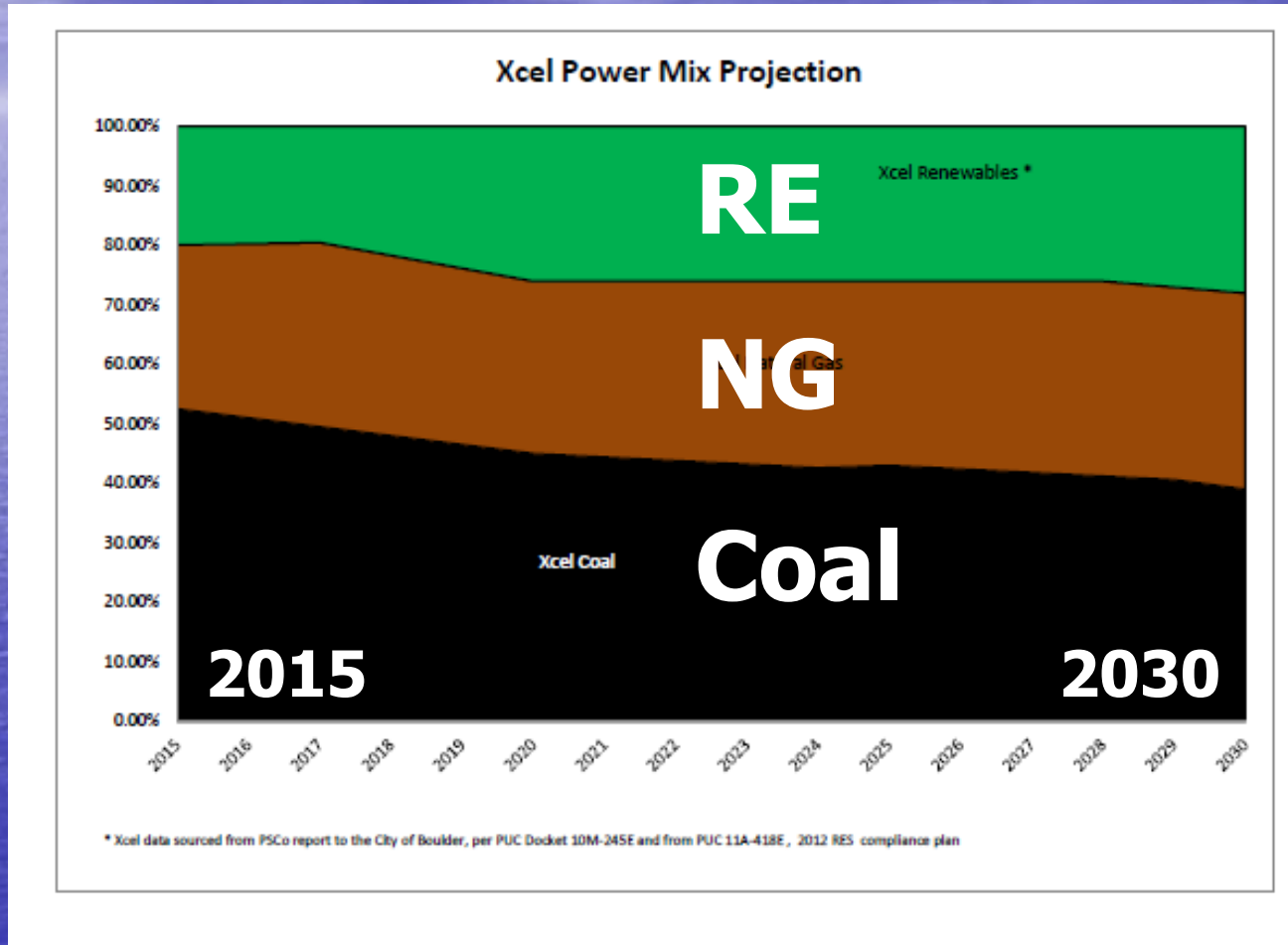
**Kyoto Target**

**Electricity**

Source: City of Boulder Climate Action Plan Assessment July 2009

[http://www.bouldercolorado.gov/files/Environmental%20Affairs/climate%20and%20energy/City\\_of\\_Boulder\\_ALL\\_SECTIONS\\_FINAL\\_072809\\_v9.pdf](http://www.bouldercolorado.gov/files/Environmental%20Affairs/climate%20and%20energy/City_of_Boulder_ALL_SECTIONS_FINAL_072809_v9.pdf)

# Xcel's Approx. Projected Fuel Mix 2015 - 2030



Data provided by Xcel to City of Boulder, December 2010  
Graph by Tom Asprey with RenewablesYes.org

# Granite Mountain Hot Shots



**Prescott, Arizona**

# Over 5,700 Presumed Dead in India (Uttarakhand) Floods



<http://www.nation.com.pk/pakistan-news-newspaper-daily-english-online/international/25-Jun-2013/unusual-weather-systems-clash-triggered-india-floods>

<http://www.voanews.com/content/six-thousand-missing-in-india-flood-presumed-dead/1702033.html>



# Extinction for Other Species?



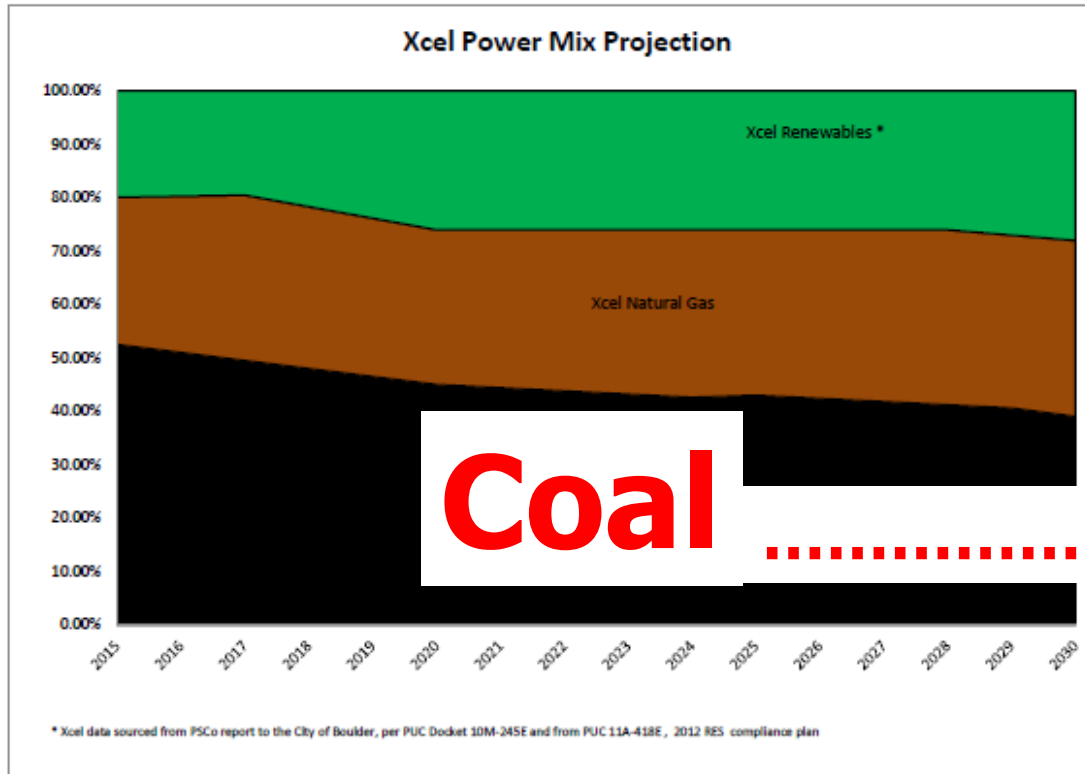
# ***Systemic Causation***



**WE are a  
significant part of  
the causation  
process...**

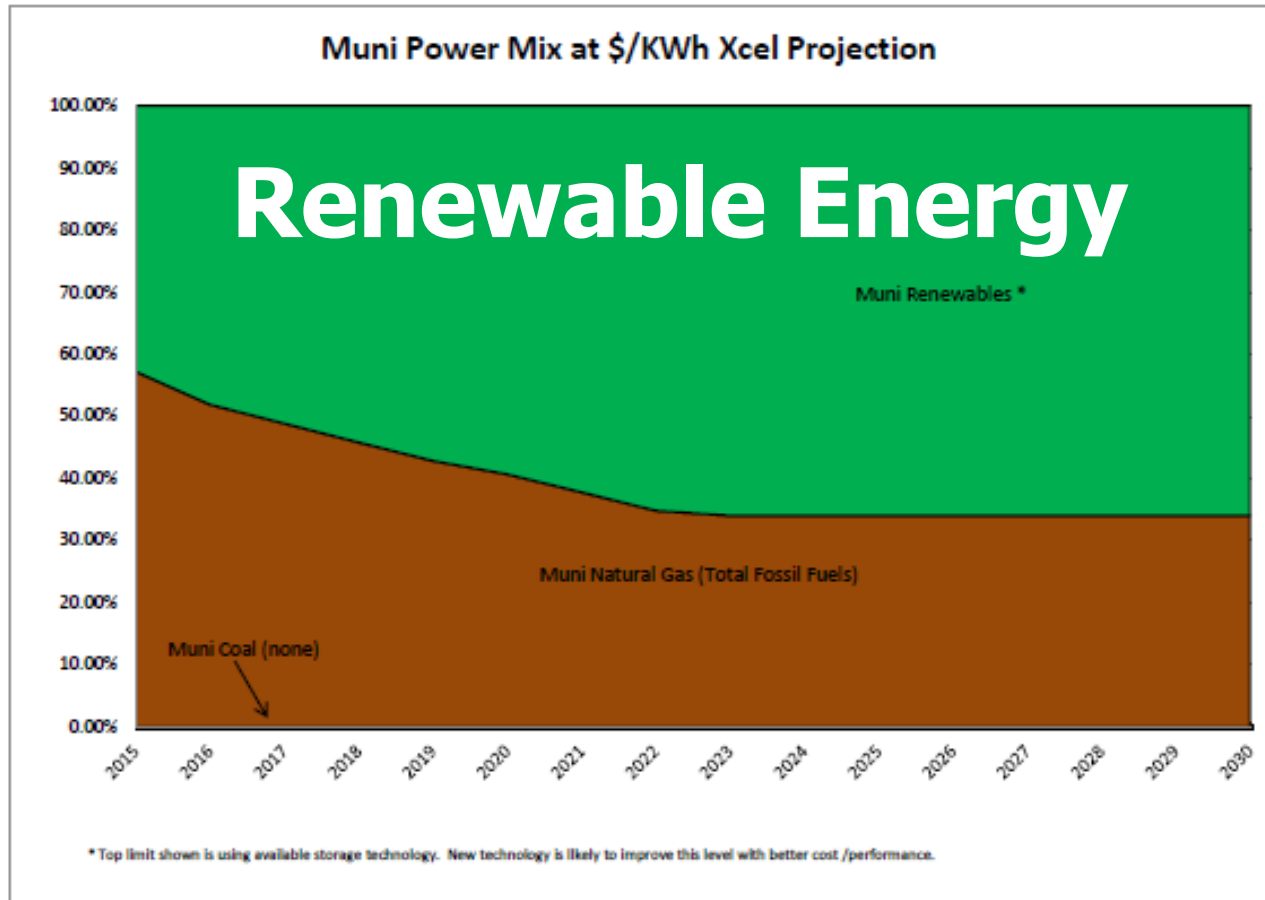


# Xcel's Colorado Coal Commitments Extend to 2069!!



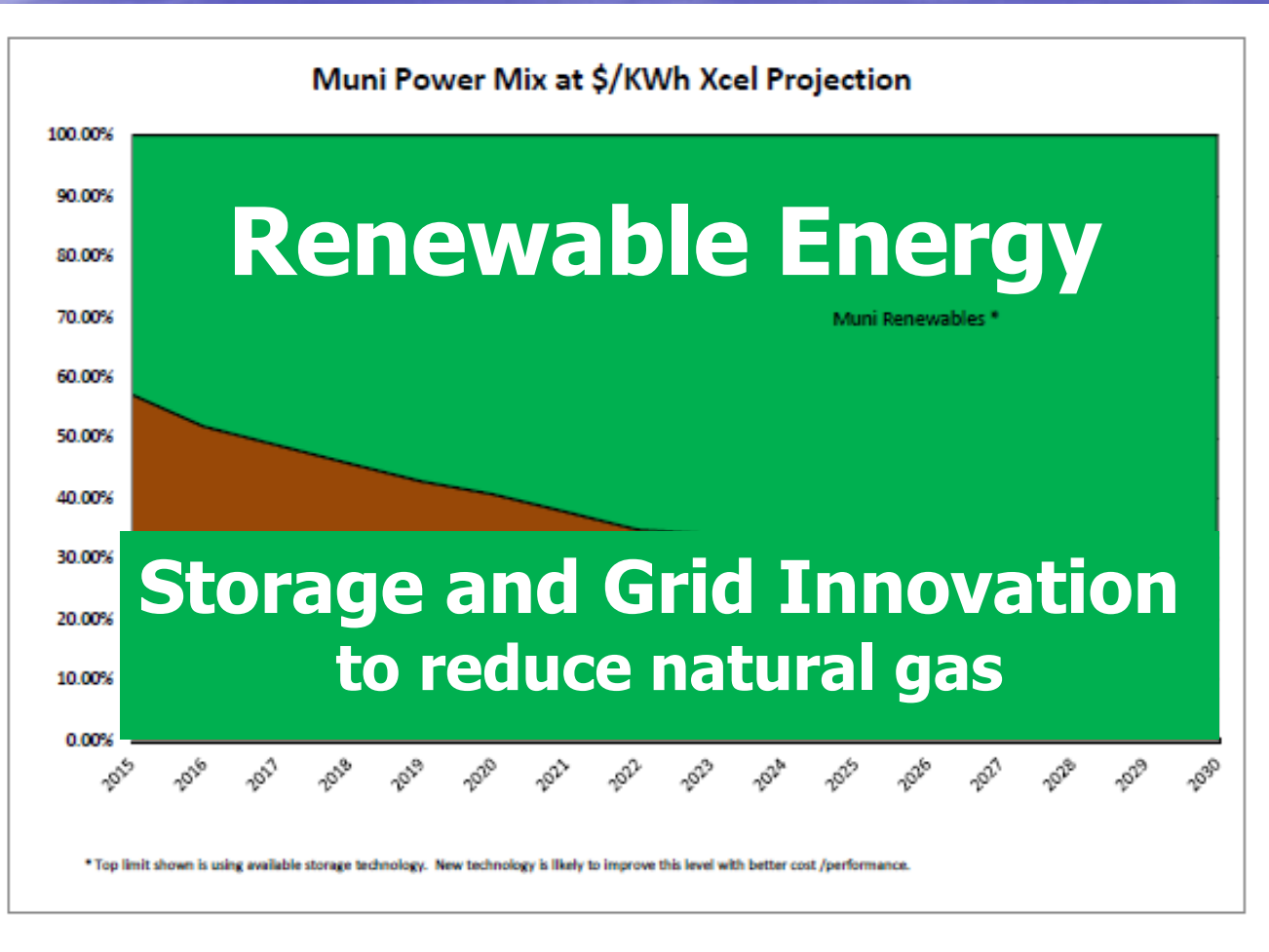
**Coal for Another 56 Years????????????????**

# Boulder's Projected Fuel Mix Assuming Xcel Maintains 2011 Rates



Questions on modeling and graphs to Tom Asprey  
Contact through [www.renewablesyes.org](http://www.renewablesyes.org)

# Moving Towards 100% Renewable Energy



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# *Xcel Energy...*





# ***Xcel Energy...***

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