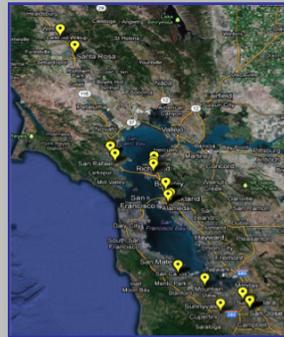


# Climate and Energy Planning

## *Community Partnerships That Work*

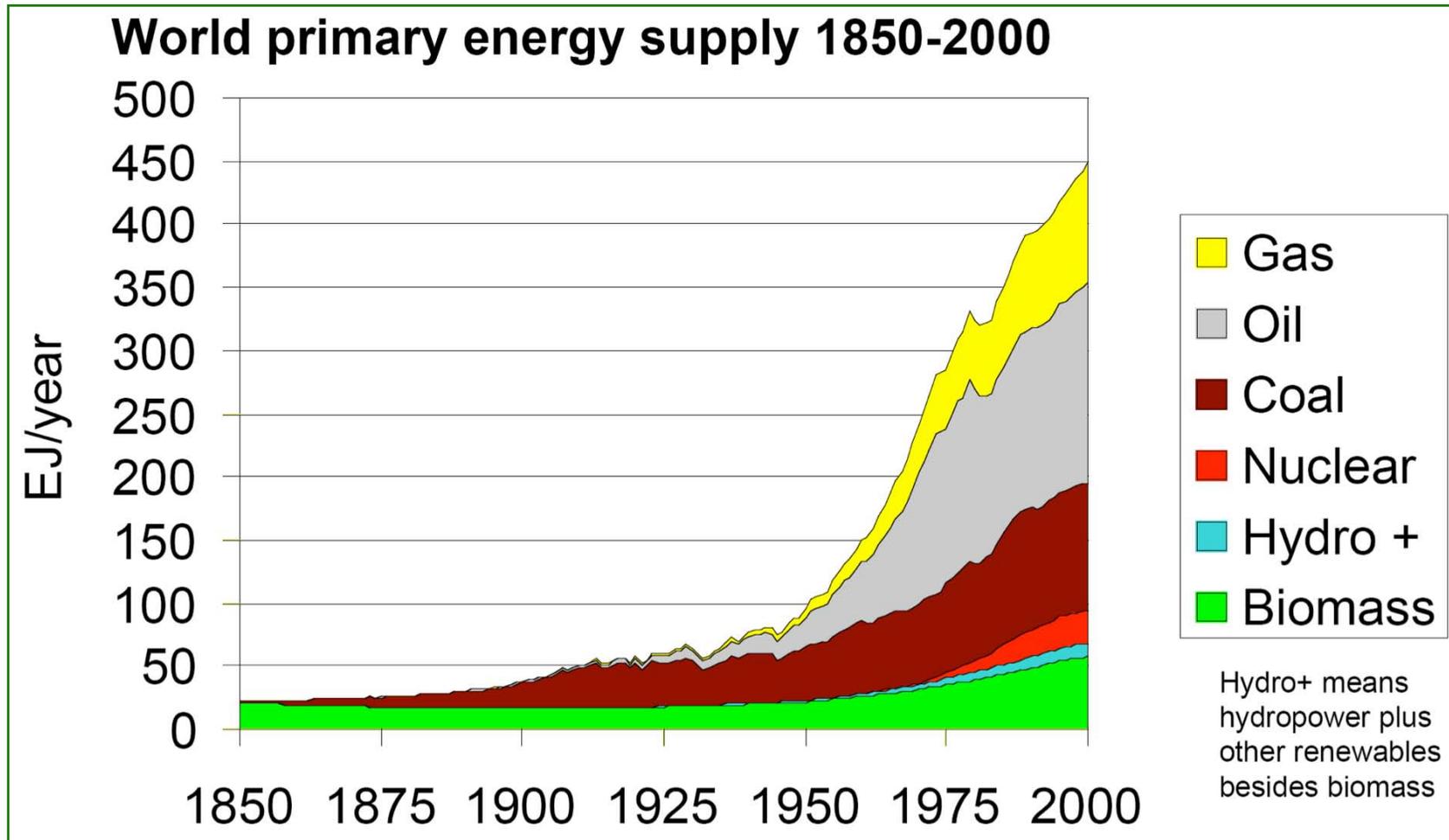


## ***Creating Globally Competitive Communities***

11<sup>th</sup> Annual New Partners for Smart Growth  
February 2-4, 2012 San Diego, California

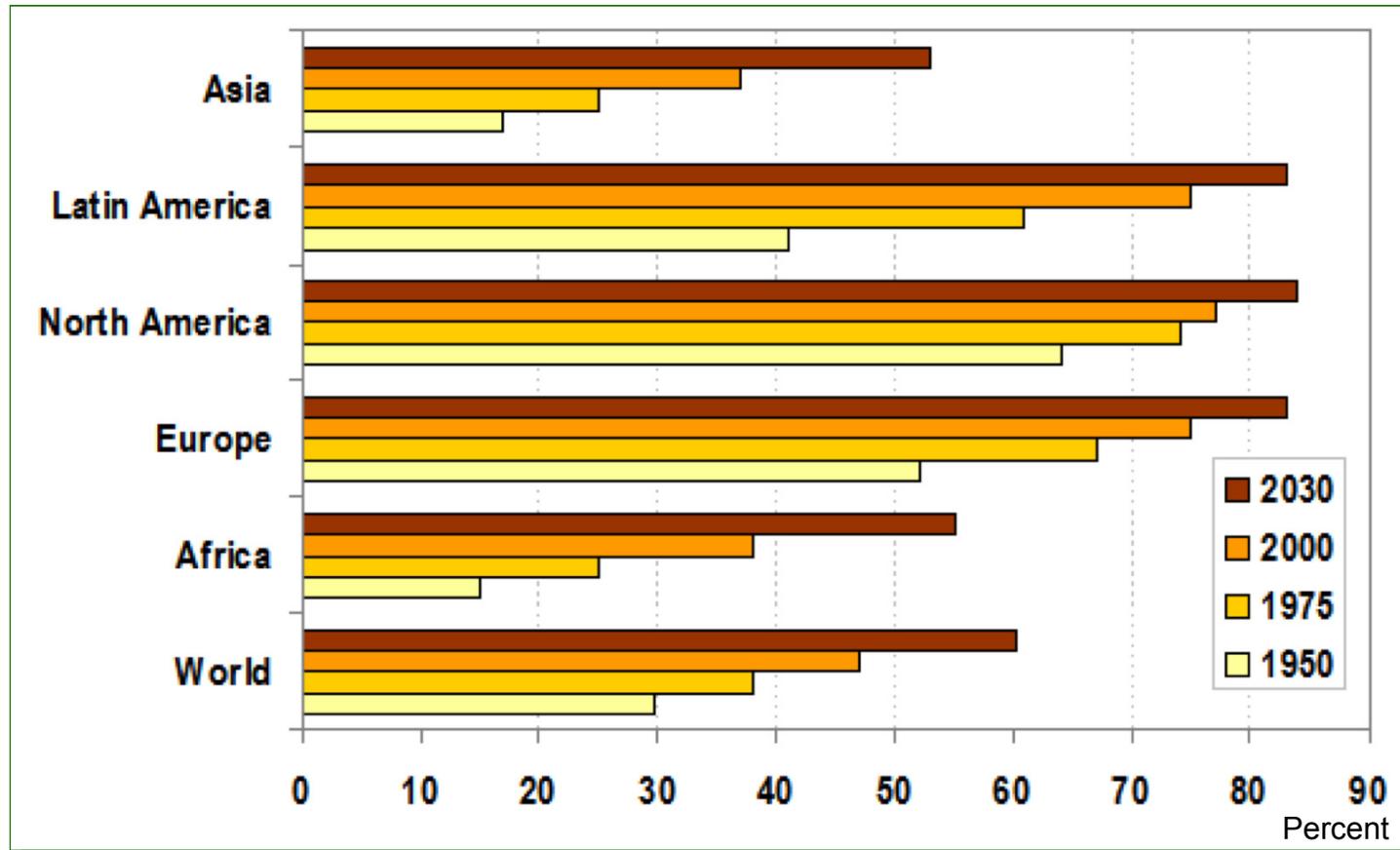
# Insatiable Global Appetite for Energy

*About 70% in Urban Areas*



**Forecast to nearly double by 2030**

# Most of us live in Urban Setting *70% of all Energy Use*



**Urban Population passed 50% in 2008**

# Performance Benchmarking *Greenhouse Gas per Capita*



USA - Total  
USA - "Municipal"

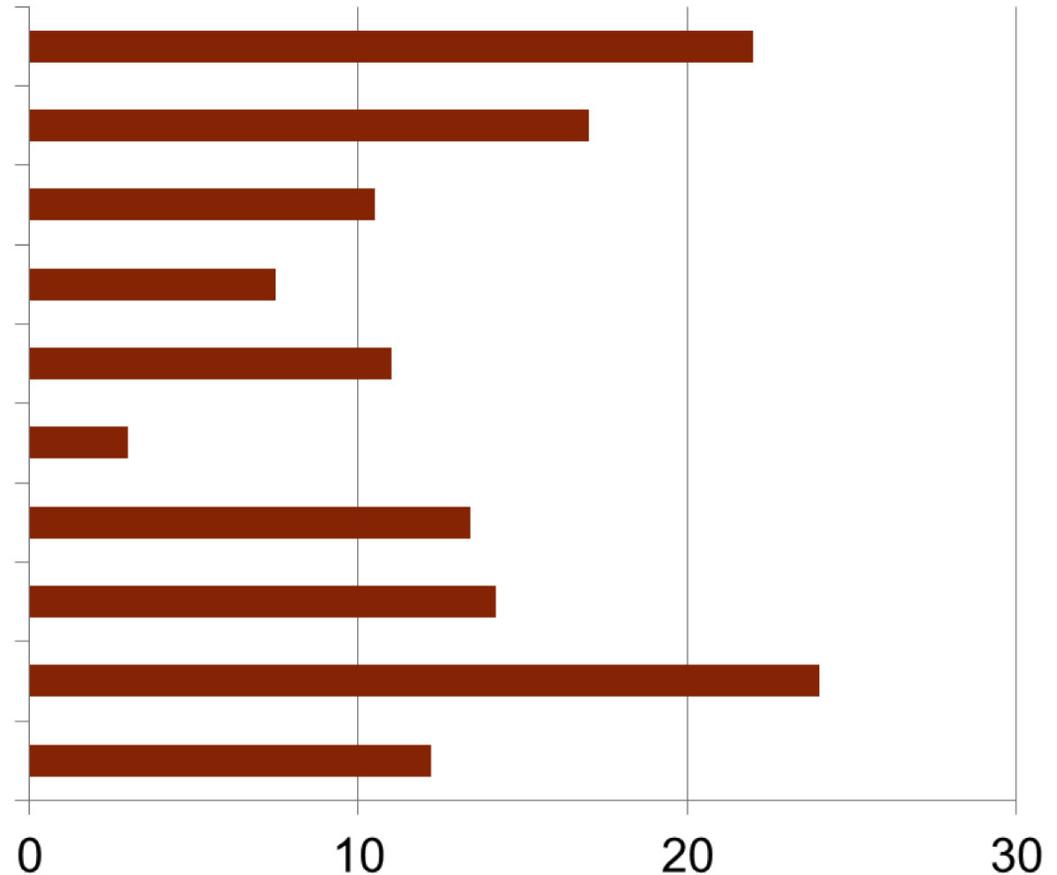


EU - Total  
EU - "Municipal"

Mannheim, Germany  
Copenhagen, Denmark

Arlington, VA  
Loudoun, VA

Holland, MI  
Guelph, Ontario



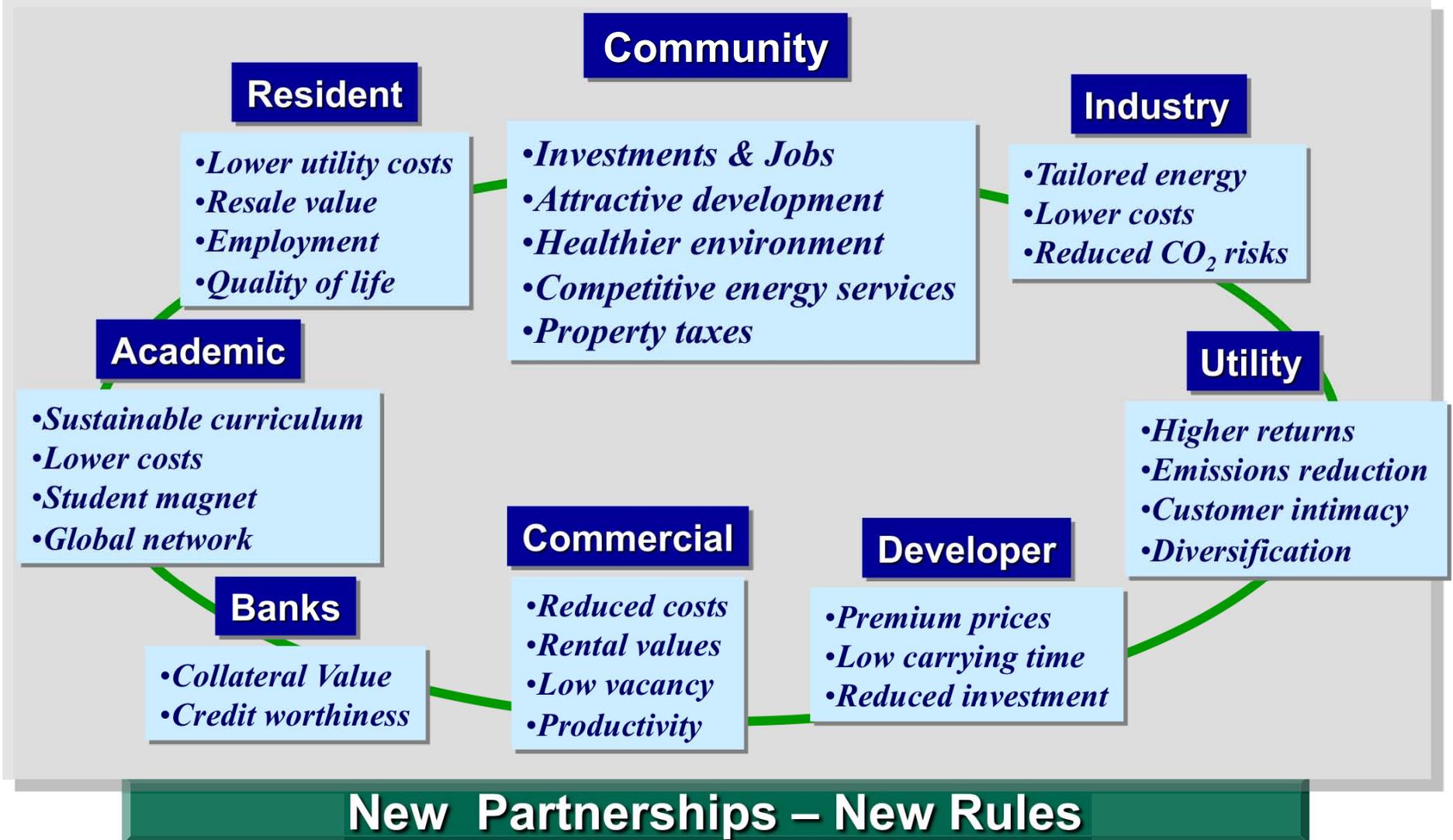
**Global View Encourages Open Dialog**

## Why Communities Care *New Energy Realities...*

- Community Values and Image
- Investment and Green Jobs
- Unpredictable energy prices
- Supply quality and security
- Environmental legislation
- Global shifts in energy market
- Weather events
- Nuclear and coal uncertainties...

**Challenge is Achieving Scale and Speed**

# Benefits of Winning!



## Four years later....

### *September 2011 Press Item*

- City Energy Plan passed in 2007 by unanimous vote
- National Role Model
- Over 2,000 Green jobs of 4,000 growth
- City influencing regional and national policy

### Guelph boasts lowest jobless rate in country

Thursday, September, 15, 2011 - 10:10:02 AM

**It may not be an all-time low, but Guelph's unemployment rate for August came close at 4.7 per cent – the lowest in the country. “...Initiatives such as Guelph's Community Energy Initiative contribute to the long-term prosperity of the city and make it more appealing to business investment ...”**

— Your Voice in Guelph —  
**Guelph**TRIBUNE

# **Climate and Energy Planning**

*Community Partnerships That Work*



***Arlington County, Virginia***

11<sup>th</sup> Annual New Partners for Smart Growth  
February 2-4, 2012 San Diego, California

# Arlington's Community Energy Project

## *Ensuring a Competitive and Sustainable Community*



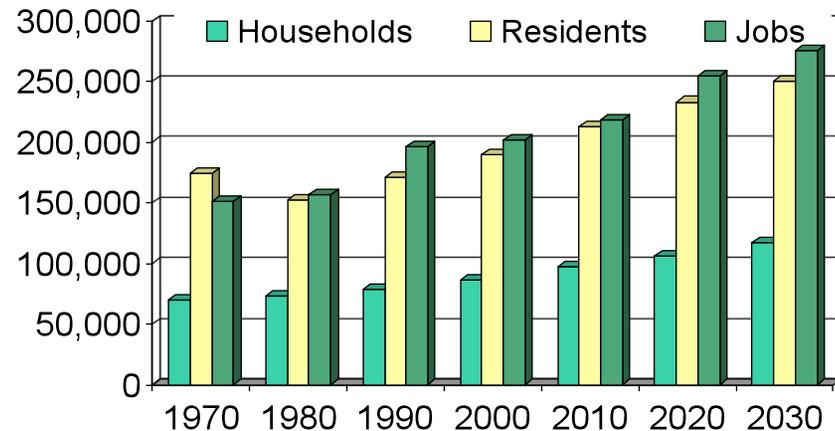
New Partners for Smart Growth Conference  
San Diego, February 4, 2012

## Arlington's Sustainability Story

***Smart Growth I:*** Integrated Land Use and Transportation Planning and Implementation (1970's to present)

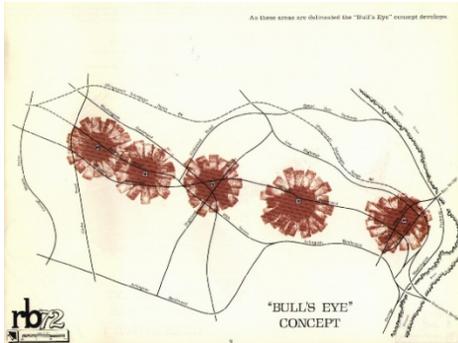
***Smart Growth II:*** Environmental and Energy Planning and Implementation (2007 to present)

# Context



- Arlington, Virginia – 25.8 sq. miles in area including federal lands
- At the confluence of major regional transportation facilities
- Home to major federal facilities: Pentagon, Fort Meyer, Arlington Hall
- Located in the core of a rapidly growing Washington region (over 5 million residents, 3 million jobs and 1,200 sq. miles of urbanized area)
- Continuing to grow – with over 252,000 residents and 281,000 jobs projected by 2040

# Development & Transportation Concepts



- Concentrate high and mid-density redevelopment around transit stations (highly targeted) and taper down to existing neighborhoods
- Encourage a mix of uses and services in station areas
- Create high quality pedestrian environments and enhanced open space
- Preserve and reinvest in established residential neighborhoods
- Expand travel options
- Provide comprehensive travel information/marketing/research

# Development Characteristics



- 43.6 million sq. ft. of office space\*, 41 million sq. ft. in Metro station areas\* with over 4 million sq. ft. of supporting retail & services
- 107,400 housing units (over 42,700 in Metro station areas)
- Over 1,500 housing units, 1.5 million sq. ft of office, 270,000 sq. ft of retail and 625 hotel rooms under construction in May 2011

\* Includes the Pentagon @ 5 million sq. Ft.

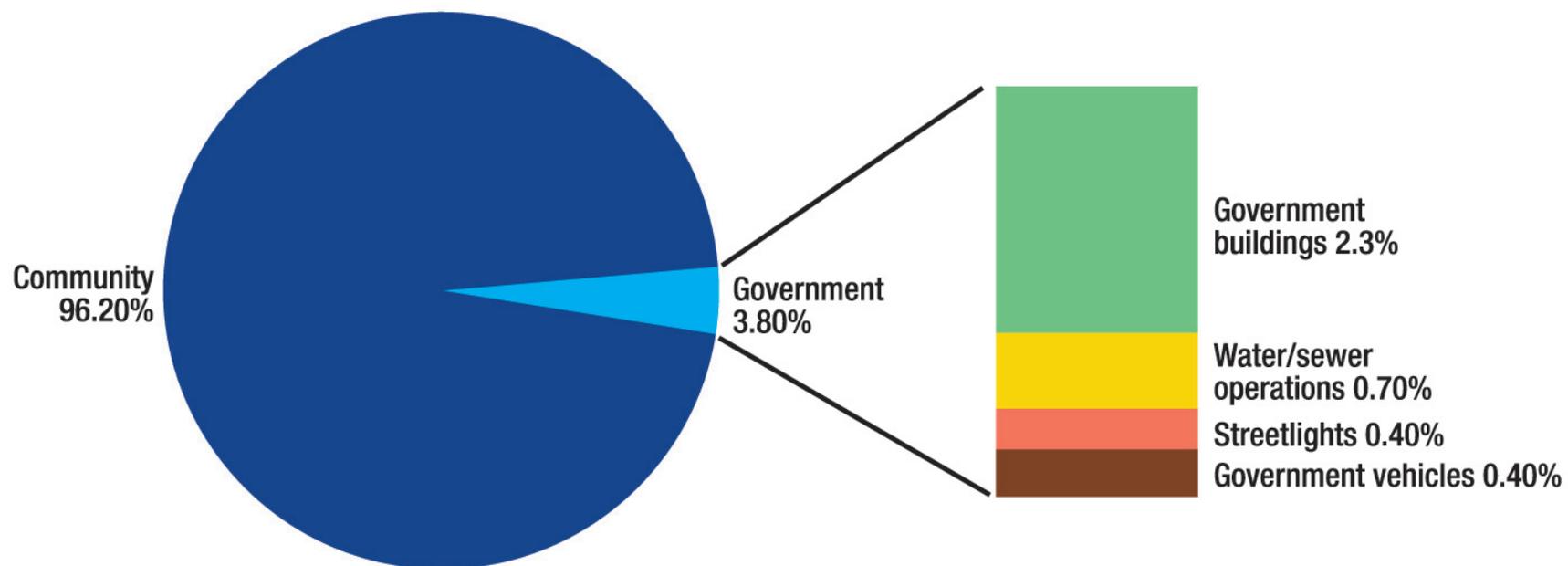
# “Fresh AIRE” Program

## Arlington Initiative to Reduce Emissions (AIRE)

- January 1, 2007: Fresh AIRE program launched
- Set a Goal: 10% reduction in greenhouse gas emissions from County government operations from 2000 to 2012
- Directed outreach to residents and businesses. Premise: the County is “leading by example”
- Funding: Established dedicated funding thru residential utility tax

# Arlington County Government Impact

Total Arlington County Greenhouse Gas Emissions by Sector, 2000



Source: Morrill 2007.

# Arlington's History of Planning

- *Affordable Housing*
- *Chesapeake Bay Preservation*
- *Historic Preservation*
- *Homelessness*
- *Information Technology*
- *Land Use*
- *Natural Resources Mgmt*
- *Neighborhood Conservation*
- *Open Space/Public Spaces*
- *Public Art*
- *Recycling*
- *Sanitary Sewer*
- *Stormwater Management*
- *Transportation*  
*Streets, Transit, Biking,*  
*Parking, Curbside Mgmt,*  
*Pedestrian)*
- *Urban Forest*
- *Water Distribution System*

Energy?????

# Community Energy and Sustainability (CES) Task Force Public Charter

## Purpose

- *Recommend countywide goals for long-term, mid-term and short-term reduction of greenhouse gas (GHG) emissions as well as key strategies and actions to be taken by government, the private sector, the non-profit sector and individuals to meet those goals. Energy use is the predominant cause of GHG emissions and is therefore the primary focus of this effort.*
- *Produce a Community Energy Plan (CEP) that will be the foundation for an Energy Master Plan, which could ultimately become an element of Arlington County's Comprehensive Plan.*

***Adopted by Arlington County Board, January 1, 2010***

# CES Task Force (29 members)

- **Businesses (8)**
  - *JBG*
  - *Little Diversified Architectural Consulting*
  - *Lockheed Martin*
  - *Marriott International*
  - *SRA International*
  - *Turner Construction*
  - *VA Hospital Center*
  - *Vornado*
- **Citizens (4)**
  - *Arlington Civic Federation*
  - *Commissions*
- **Educational Institutions (2)**
  - *Arlington Public Schools*
  - *Virginia Tech*
- **Energy & Energy Tech Industry (3)**
  - *Dominion Virginia Power*
  - *United Solar Ovonic (Uni-Solar)*
  - *Washington Gas*
- **Local, State and Federal Gov'ts (5)**
  - *The Pentagon*
  - *US EPA*
  - *Commonwealth of Virginia Senate*
- **Nonprofits/Associations (5)**
  - *Apartment and Office Building Association*
  - *Arlington Chamber of Commerce*
  - *Arlington Partnership for Affordable Housing*
  - *Arlingtonians for a Clean Environment*
  - *Pew Center on Global Climate*
- **Regional Transportation Authorities (2)**
  - *Metro Washington Airports Authority*
  - *Metro Washington Area Transit Authority*

# Community Energy Project: Goals

## Competitiveness

- Energy cost
- Employment
- Investment



## Security

- Supply security
- Supply quality
- Flexibility

## Environment

- Greenhouse Gas Reduction

## Three Groups of Benefits

# Energy Productivity Differences

## *How well does USA spend \$1.5 Trillion?*

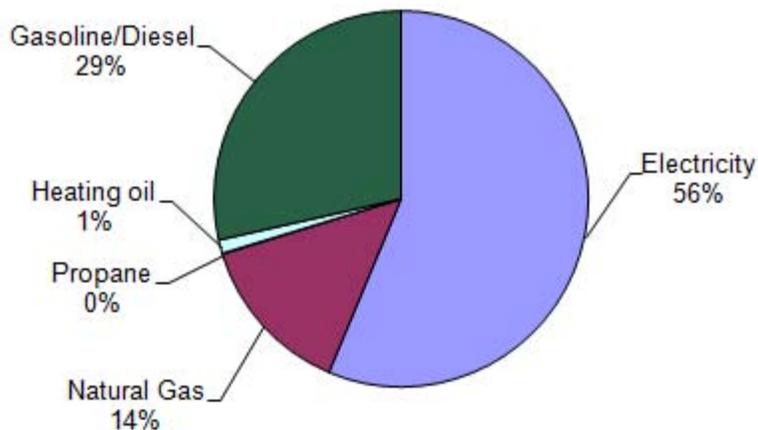
Region	Population	GDP	Energy	Energy /Capita	Energy /GDP
USA	4.6%	18.9%	19.5%	100	100
EU	7.5%	25.1%	14.8%	47	57
Japan	1.9%	8.8%	4.3%	52	47
China	20.0%	4.5%	16.3%	19	355
India	17.0%	1.5%	4.9%	7	317
World	100%	100%	100%	23	97

**Key to Competitiveness**

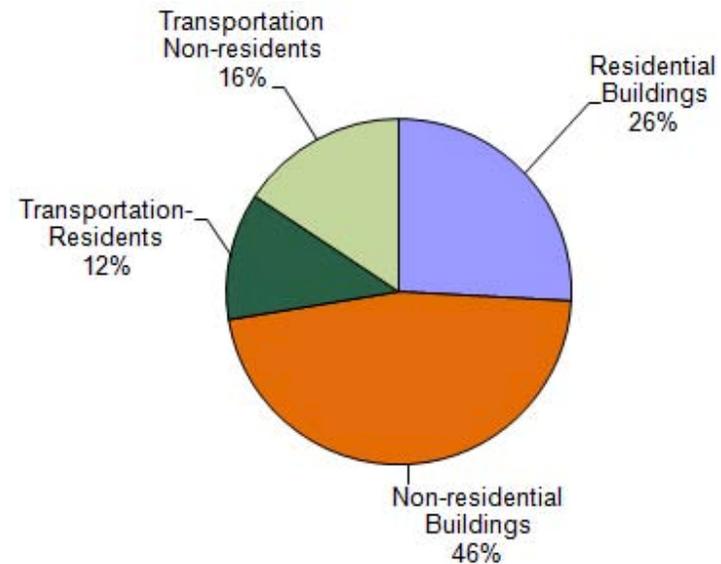
# Arlington Community Carbon Footprint

*These totals do not include Federal sites or DCA airport.*

## 2007 Greenhouse Gas Emissions 2,730,000 metric tons / 6,020,000,000 lbs CO<sub>2e</sub>



**by type**



**by sector**

**13.4 metric tons for each Resident**

# Greenhouse Gas Benchmarks

- National Greenhouse Gas per capita per year (metric tons CO<sub>2</sub>)
  - *Canada* 22.6
  - *USA* 21.7
  - *Denmark* 14.1
  - *Germany* 11.7
  - *European Union* 10.5
  
- Municipal Greenhouse Gas per capita per year
  - *Washington DC* 19.7
  - *Loudoun County* 14.2 with 6.0 goal
  - **Arlington County** **13.4**
  - *Canada – Guelph* 12.2 with 5.0 goal
  - *Mannheim* 6.0
  - *Denmark - Copenhagen* 3.0

**2050 goal for Arlington: 3.0**

22ee

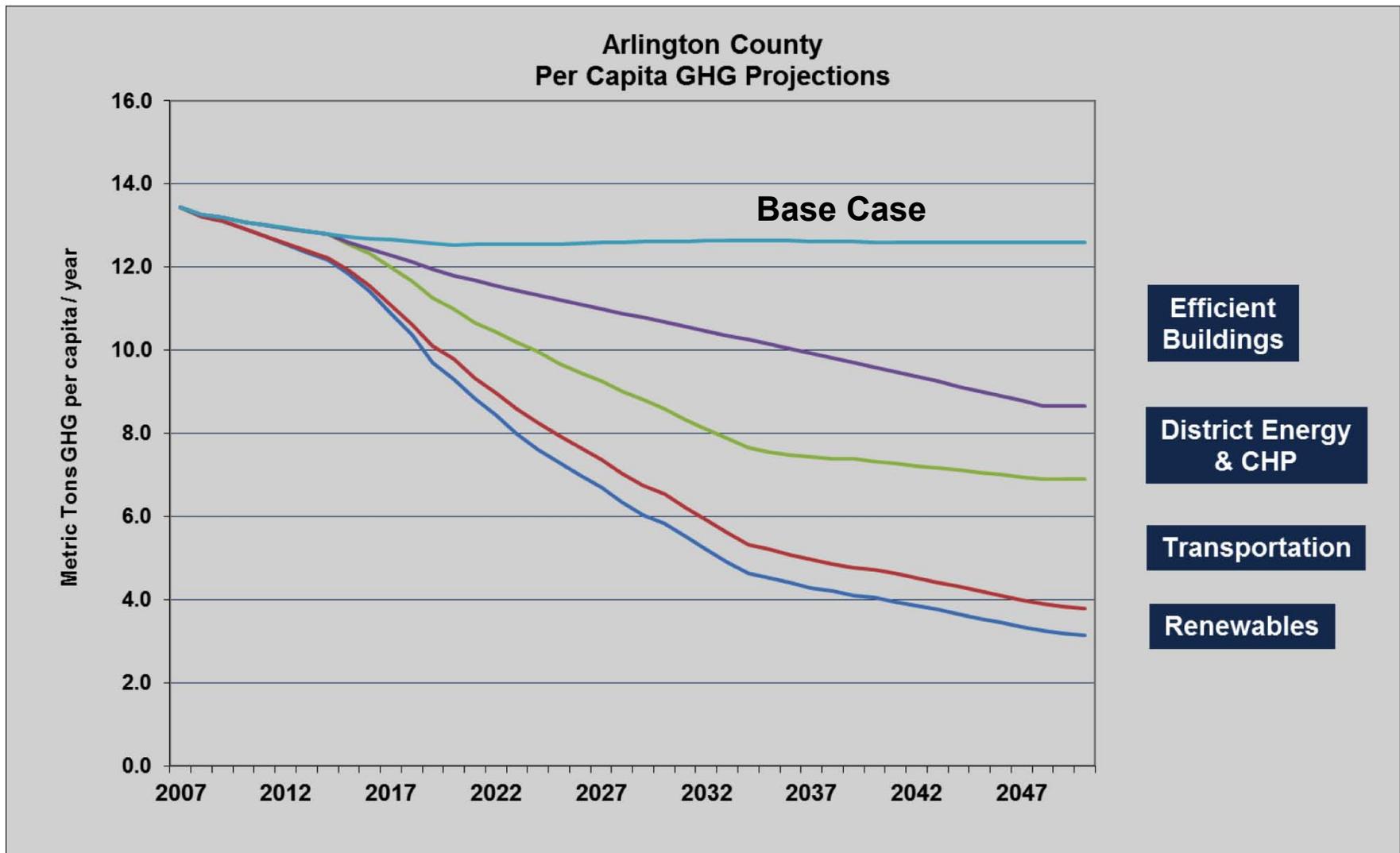
# Arlington Community Energy Plan Framework

- *Energy efficiency – If you don't need it - don't use it*
- *Heat Recovery – If it's already there – use it*
- *Renewable energy – If it makes sense, go carbon free*
- *Energy distribution – Invest where it makes sense*

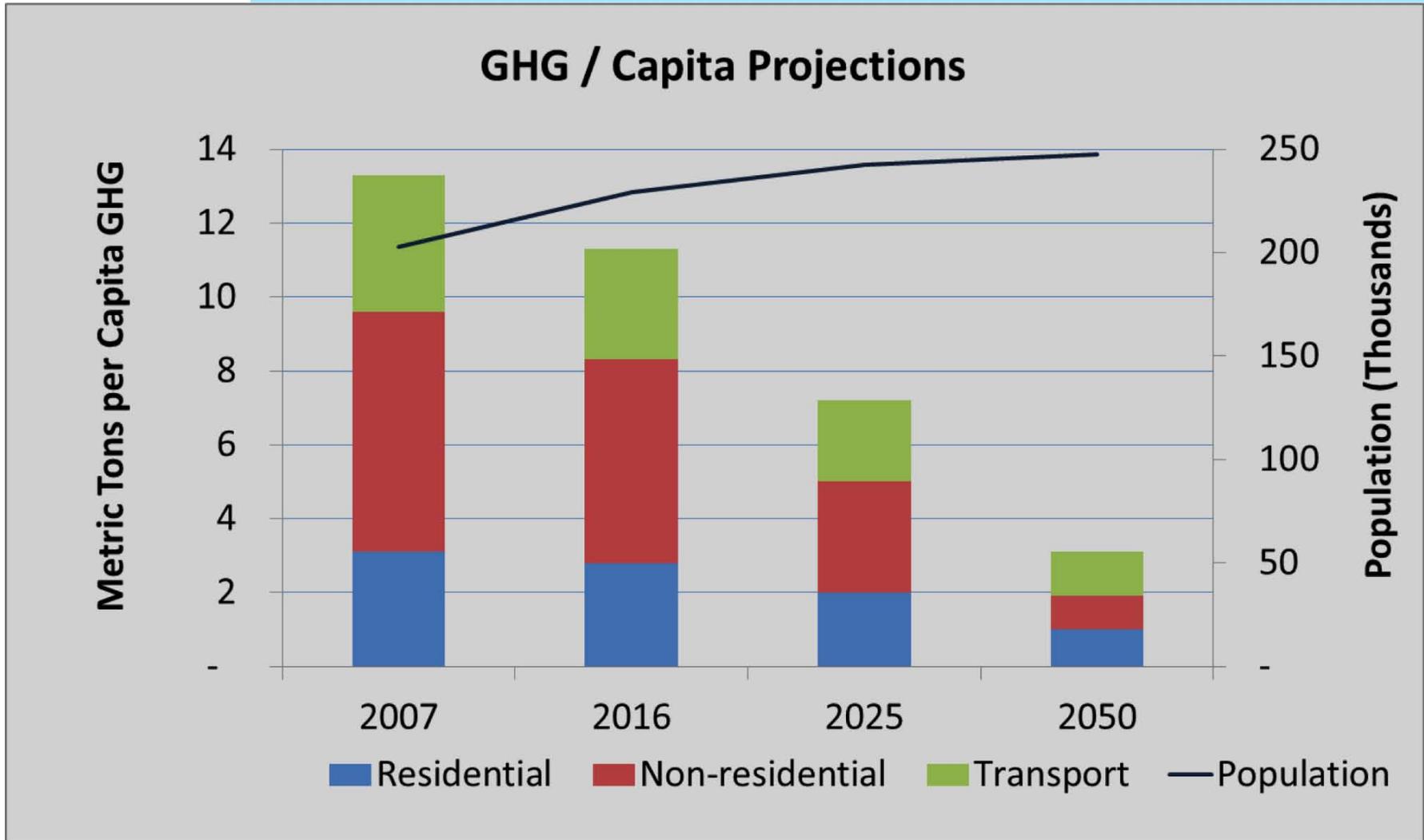
**Integrated Solution – Tailored for County**

# Per Capita GHG Emissions

## Impacts of Key Energy Policy Proposals



# Energy Modeling Results

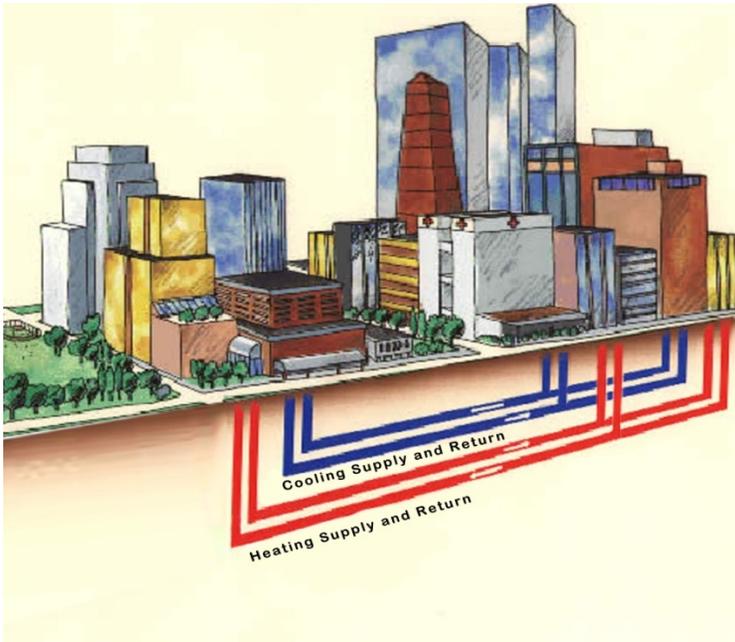


# Task Force Recommendation #1: Energy Efficient Buildings

- Increase energy efficiency in new and renovated homes and buildings, on the order of 30% to 50%
  - *Efficient construction and equipment*
  - *Operations and maintenance*
- Create a mixed-use, net-zero energy scale project



# Task Force Recommendation #2: District Energy Systems



Centralized supply and delivery

- Heating
- Cooling
- Domestic hot water

- Distribution to high-rise buildings
- Closed network of highly insulated pipes
- Optimized energy supply from multiple sources
  - Combined Heat & Power
  - Boilers/Furnaces
  - Absorption Chillers
  - Electric Chillers
  - Solar and Biomass
  - Waste heat recovery
- Typically operated by dedicated DE-Utility

**Widely deployed proven technology**

# Task Force Recommendation #3: Energy Efficient Transportation

- Reduce vehicle miles traveled
- Support federal efforts to increase vehicle fuel efficiency
- Support the reduction of carbon content in fuels



# Task Force Recommendation #4: Renewable Energy

- Increase use of solar photovoltaic systems countywide
  - *Target: 160 Megawatts of capacity by 2025*
- Increase use of clean and renewable energy sources for domestic hot water and space heating needs



# Task Force Recommendation: Enabling Strategies

- Energy planning and processes
- Energy performance labeling
- Community input / energy literacy
- Education and training
- Financing and incentives
- Greenhouse gas emissions data
- Regional energy plan



# Challenges & Advantages

## Challenges:

- VA is a Dillon Rule state
- Energy is cheap in Virginia
- Lack of strong federal policy (Cap & Trade)
- No mandatory RPS in Virginia

## Advantages:

- Arlington's track record/capacity
- Broad consensus is developing around CEP
- Desire to benefit from being an Early Adopter

## 10 Lesson Learned

1. Lead by example first: set targets and measure GHG reductions of local gov't
2. Create a community-wide ENERGY Plan not a CLIMATE Plan
3. Identify a champion for the effort
4. Include economic competitiveness as a goal
5. Include ALL key stakeholders in the process from the beginning

## 10 Lessons Learned (cont.)

6. Engage a top-notch consultant that has credibility with the business community
7. Use GHG as a surrogate measure for energy and complete a GHG inventory
8. Set short, mid, and long-term *per capita* GHG reduction targets
9. Adopt Energy Plan as a component of the locality's Comprehensive Plan
10. Create Implementation Plan with strategies/incentives to ensure it happens

Thank you !



**For more information:**

**[www.arlingtonva.us/energyplan](http://www.arlingtonva.us/energyplan)**

**Jay Fisette**  
**[jfisette@arlingtonva.us](mailto:jfisette@arlingtonva.us)**

# **Climate and Energy Planning**

## *Community Partnerships That Work*



### ***Ithaca, New York***

11<sup>th</sup> Annual New Partners for Smart Growth  
February 2-4, 2012 San Diego, California

An aerial photograph of a wide river, likely the Cayuga River in Ithaca, NY, during a sunset. The sky is a gradient of orange, yellow, and light blue. The river reflects the warm colors of the sky. The surrounding landscape is dark and hazy, with some buildings visible in the distance. The text is overlaid in white on the river and sky.

# Energy & Climate Partnerships: Walking our Talk in Ithaca, NY

Katie Stoner, Park  
Foundation  
Ithaca, NY



# Municipal Energy Planning in Tompkins County

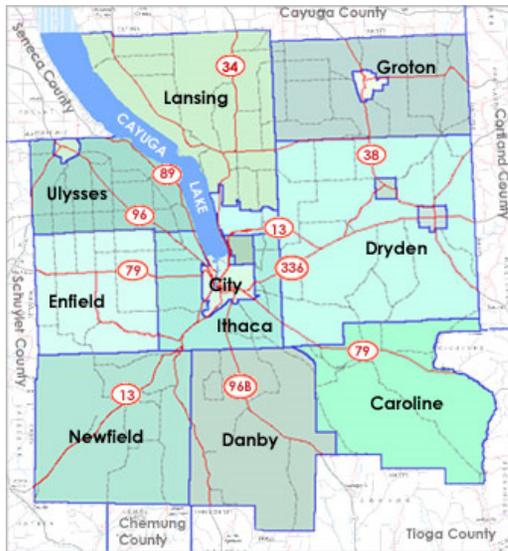
- **Tompkins County**
  - 80% by 2050 reduction in GHG emissions (20% by 2020 interim goal)
  - Implementing Energy Strategy
  - County planning = anchor, pacesetter
- **City of Ithaca**
  - 20% by 2016 in GHG emissions
  - Update to inventory and creating Climate Action Plan
- **Town of Ithaca**
  - 80% by 2050 (30% by 2020)
  - Adopted Energy Action Plan in Fall 2011
- **6-Town Energy Coordinator and 6-Town Energy Educator**
- **Intermunicipal Sustainability Collaboration**



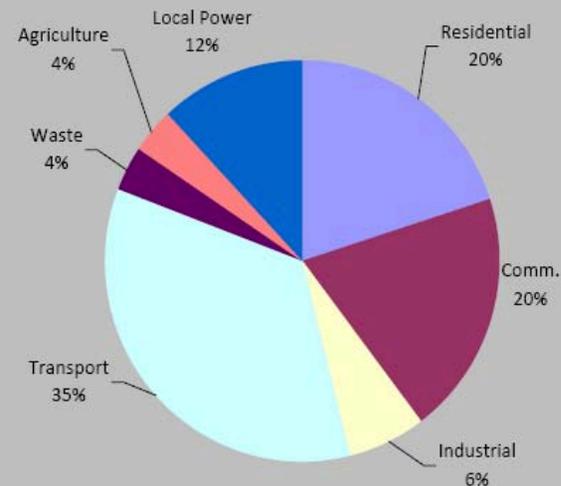
# Tompkins County Energy Planning

- **Goal:** 80% reduction by 2050, 20% by 2020
- Energy & Greenhouse Gas Emissions Element of Comprehensive Plan
- 10 Years of GHG Reporting
- 2020 Energy Strategy
- Commissioner of Planning and Community Sustainability – building partnership between and among local and regional gov'ts, businesses, non-profits

# Tompkins County 2020 Energy Strategy



Community Greenhouse Gas Emissions (2008)



Sector	GHG Emissions (Tons eCO2)	Energy Equivalent (MMBtu)
Residential	257,356	3,396,123
Commercial	255,825	3,377,933
Industrial	81,864	994,576
Transportation	449,158	5,606,892
Waste	46,068	0
Agriculture	48,497	0
Local Power	154,153	0
<b>Total</b>	<b>1,292,921</b>	<b>13,375,524</b>



# Town of Ithaca & Town of Dryden: Shared Sustainability Planner

- **Ithaca**
  - GHG Inventory – gov't and community
  - 80% by 2050 and 30% by 2020
  - Energy Action Plan adopted 2011
  - Comp Plan
  - Facilities Upgrades
- **Dryden**
  - Sustainability Baseline completed
- **Intermunicipal Sustainability Collaboration**
- **Challenges and advantages of sharing staff**



# City of Ithaca

- U.S. Mayors Climate Protection Agreement – 2006
- GHG Reduction Goal: 20% below 2001 levels by 2016 (on track)
- Facilities upgrades
- Greening of the fleet
- Comprehensive Plan with sustainability as central principle
- Hired Energy Sustainability Manager



## 6-Town Energy Coordinator

- 1 staff person divided between 6 small rural towns
- Coordinating energy audits for gov't facilities and supporting energy efficiency upgrades
  - 1 specific thing that all municipalities can benefit from, and for which resources exist locally and statewide
- Challenges and advantages

# TC CPI | Tompkins County Climate Protection Initiative



- Coalition of multi-sector energy /climate leaders
  - Education
  - Non-profit
  - Business/Finance
  - Local Gov't
- Culture of collaboration
  - Leveraging significant commitments
  - Mobilizing county-wide transition to clean energy economy
- At the switchboard local energy/climate initiatives
  - Climate Smart Communities Grant
  - Brownfield Redevelopment
  - Downtown Redesign → District Energy/Energy Efficiency
  - Institutional/Non-profit CHP and District Energy
  - Black Oak Wind Farm

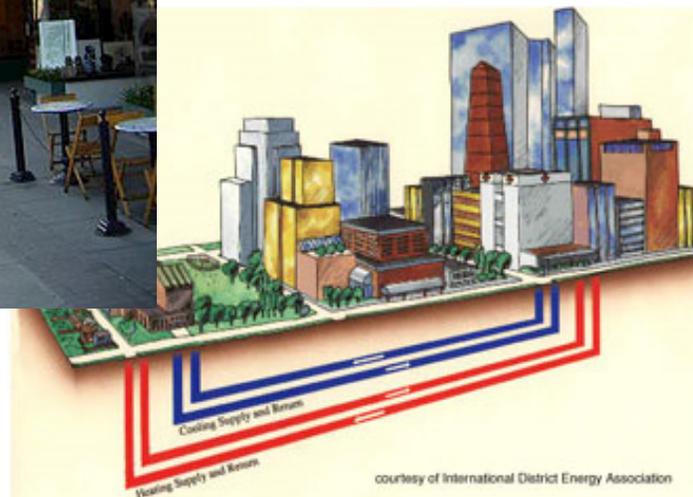
# EPA Climate Smart Communities



# South Hill: Brownfield → Greenfield



# Redesign of the Ithaca Commons



# Black Oak Wind Farm





Community-based campaign to inspire all 42,000 households and every business in Tompkins County to take *at least one* step to save energy and money

Food, Building Heating and Lighting,  
Transportation, and Waste.



# Get Your GreenBack - Tompkins!

- 60+ community partners who are meaningfully and heavily engaged in this unprecedented effort
- Bridging sustainability and social justice movement locally, both of which are strong, but historical tensions and conflict (and silos) have kept them separate
- Realization that each movement has common vision and goals, and without collaboration, nothing will happen



*“TCCPI represents the spirit of new-era democracy, with bigger-business advocates sitting next to Snug Planet, with large-scale power generators conferring with EcoVillage, or with Tompkins County Solid Waste having the opportunity to compare notes with Museum of the Earth. TCCPI sessions are about partnerships and progress in Tompkins County.”*

# Gaps Between Goals and Achievements

- **Image vs. Reality**
  - Are the numbers stacking up?
  - Breakthrough energy efficiency vs. feel good projects
  - Passionate activists abound, need more technical & organizational expertise
  - 10 square miles surrounded by reality
- **Lack of systemic integration**
  - Who is running the show?
- **Too many cooks in the kitchen?**
  - Lots of activity, dispersed leadership
  - lack of cohesion
  - Need to row in the same direction

# **Climate and Energy Planning**

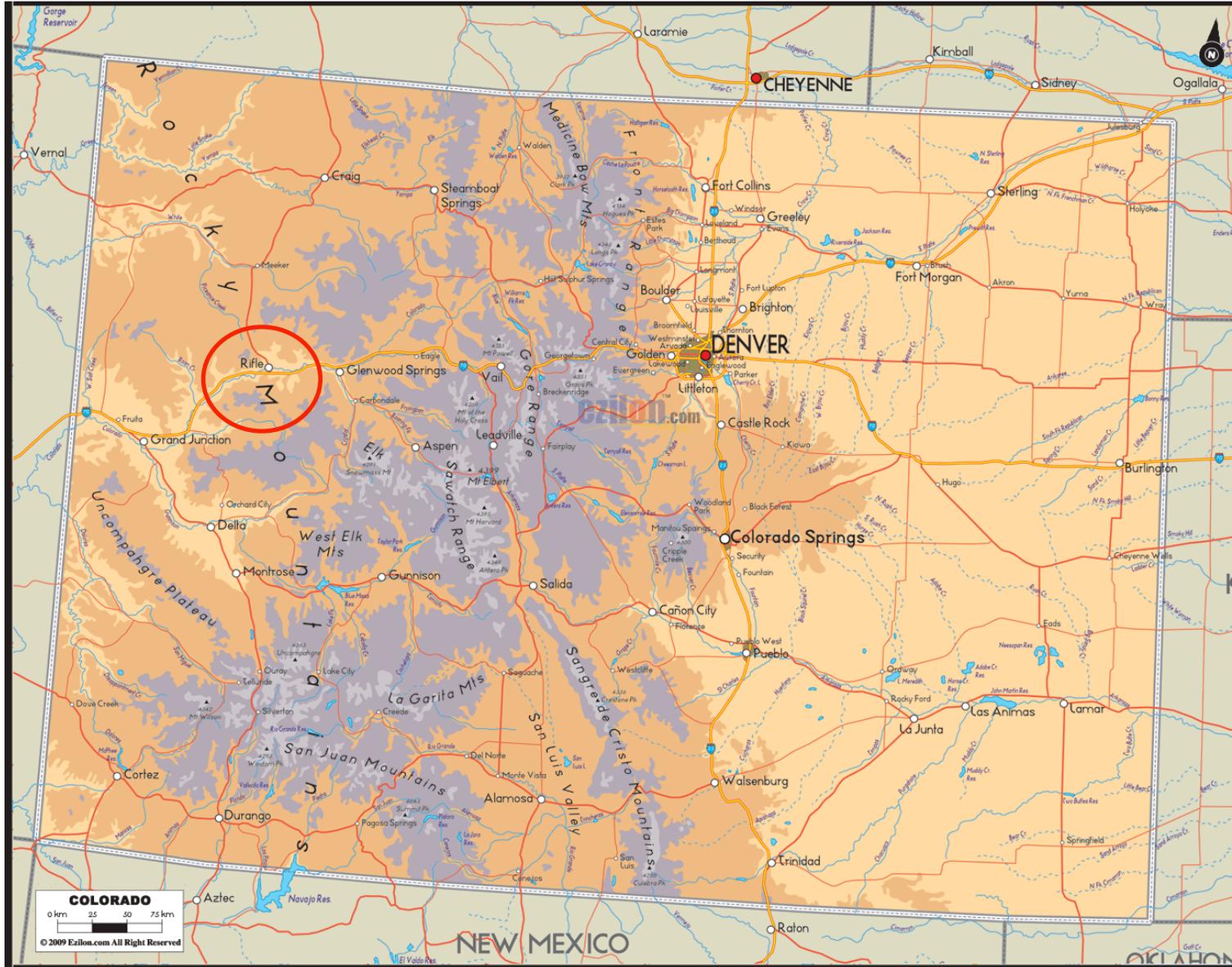
## *Community Partnerships That Work*



## ***Rifle, Colorado***

11<sup>th</sup> Annual New Partners for Smart Growth  
February 2-4, 2012 San Diego, California

# Rifle, Colorado



## Rifle's History: ranching and a crossroads regional center

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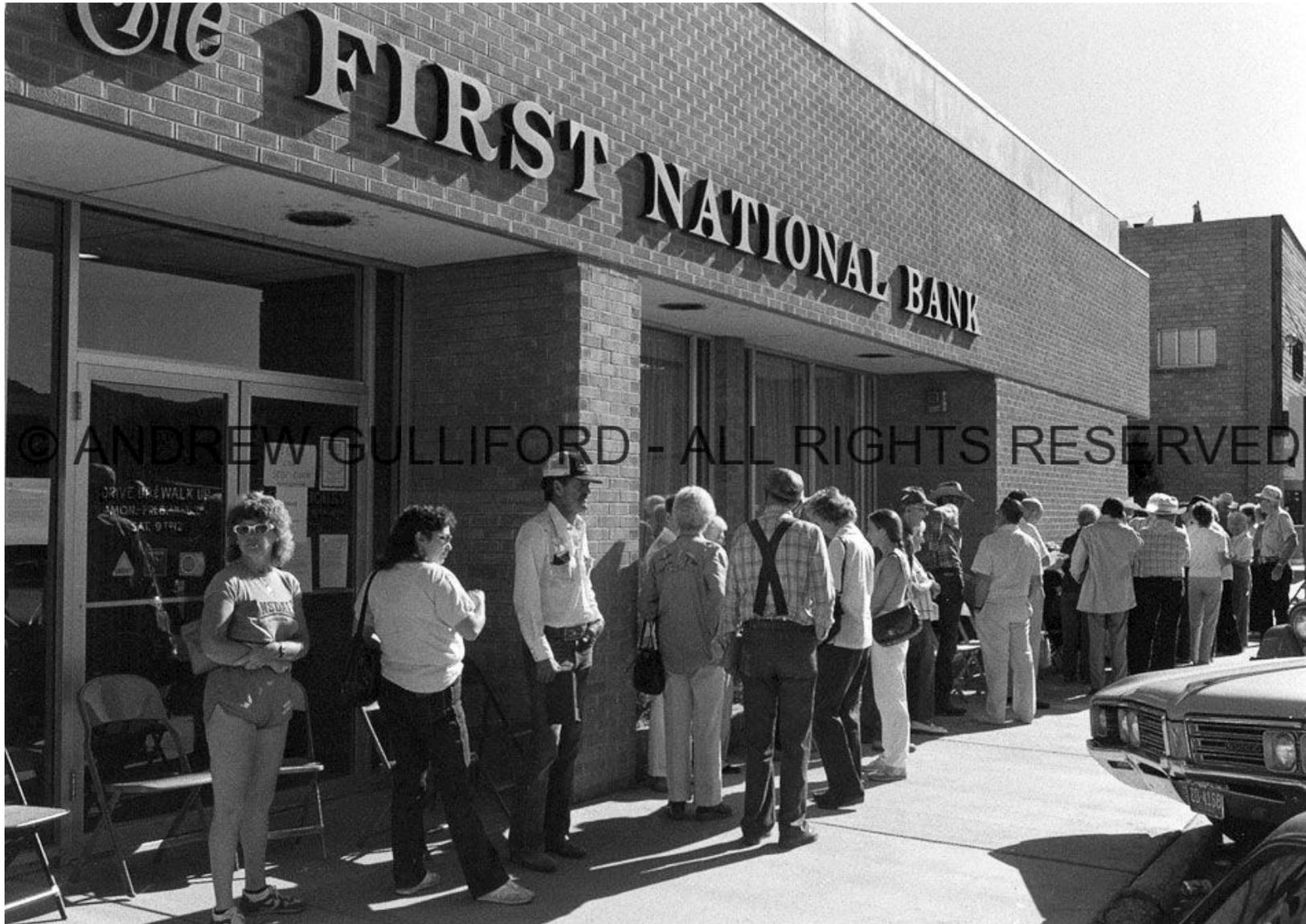
## 1970s-80s— Oil Shale and the Roan Plateau

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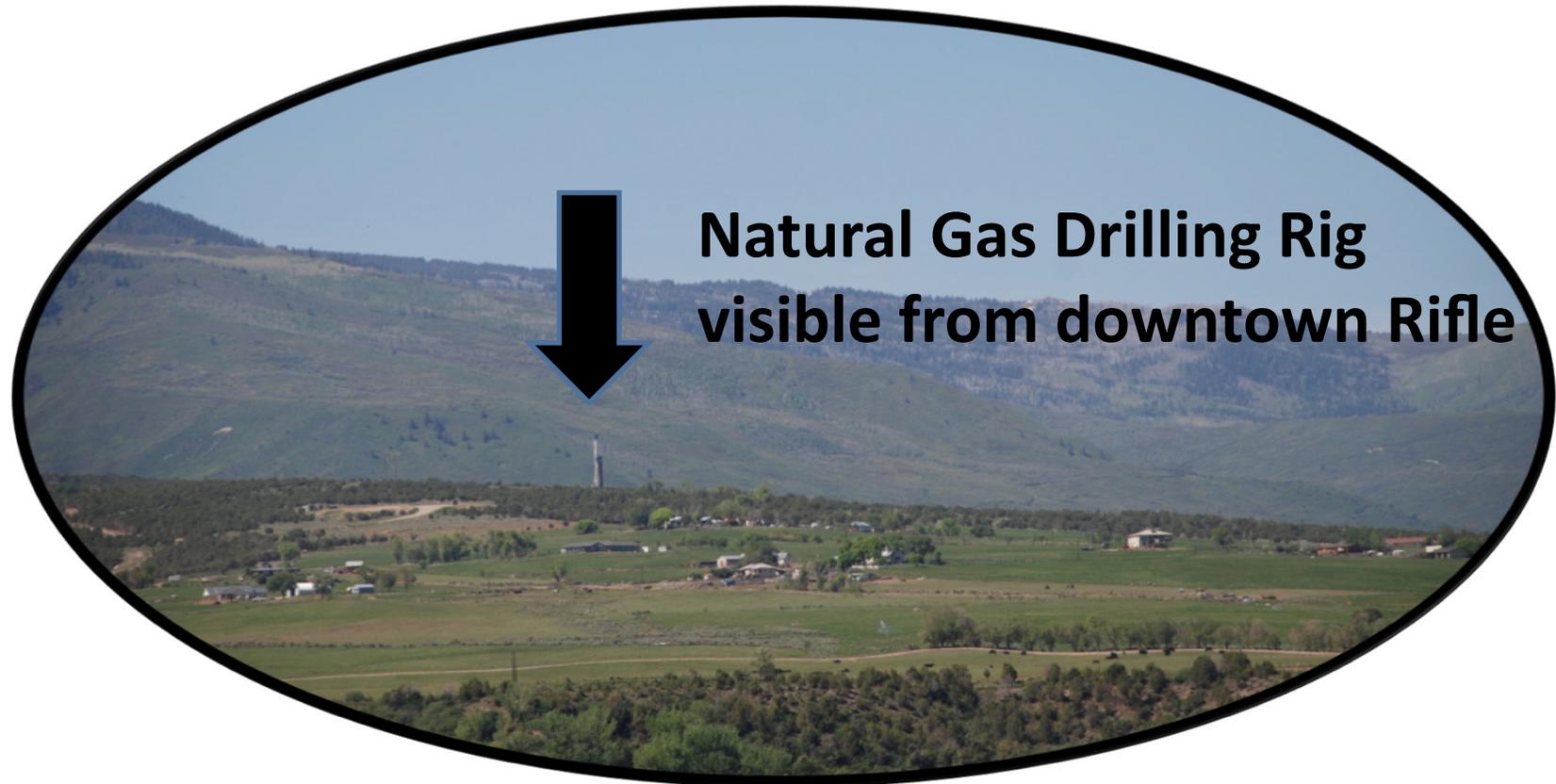
# Black Sunday, 1982

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## 2000s—Natural Gas development

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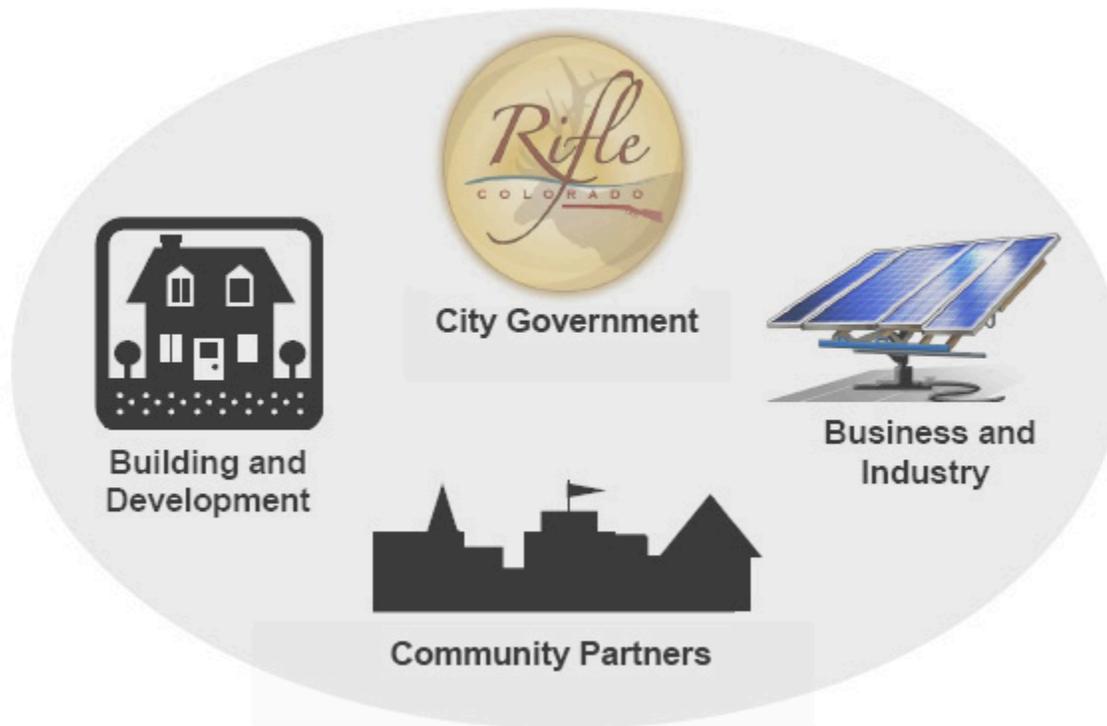
**Natural Gas Drilling Rig  
visible from downtown Rifle**

June 4, 2010

## 2005: The Energy Village

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bridging fossil fuels and the new energy economy.

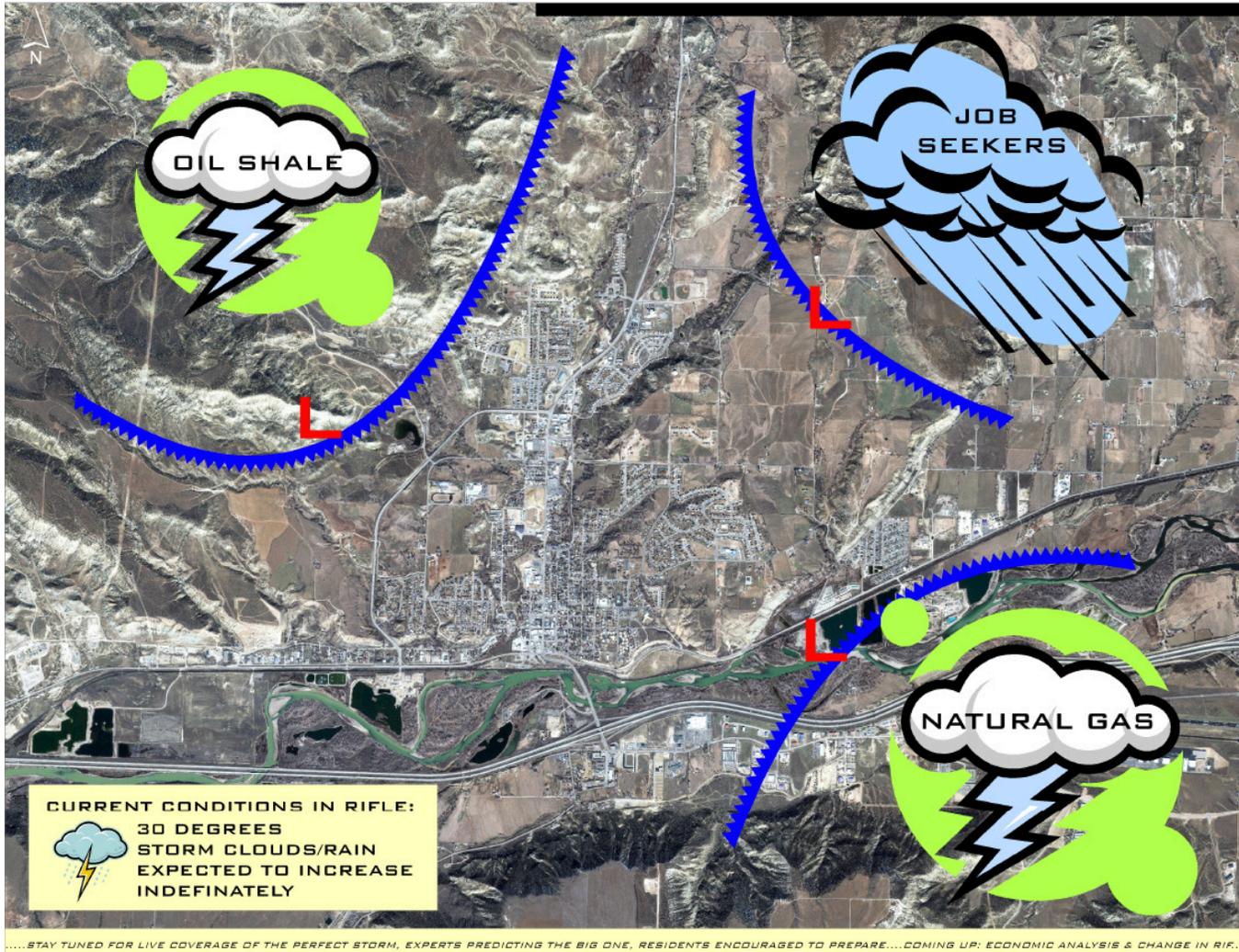


# The Energy Village Brain Trust

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# Rifle's Energy Problem #1: boom and bust economy



Really.....its all energy, man.

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Effect of high energy costs on rural areas like Rifle?

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## Rifle's energy problem #2

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We are dependent on globalized economic systems (food, goods) that are dependent on increasingly expensive energy systems.



## oil's role in the global economy

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95% of transportation energy

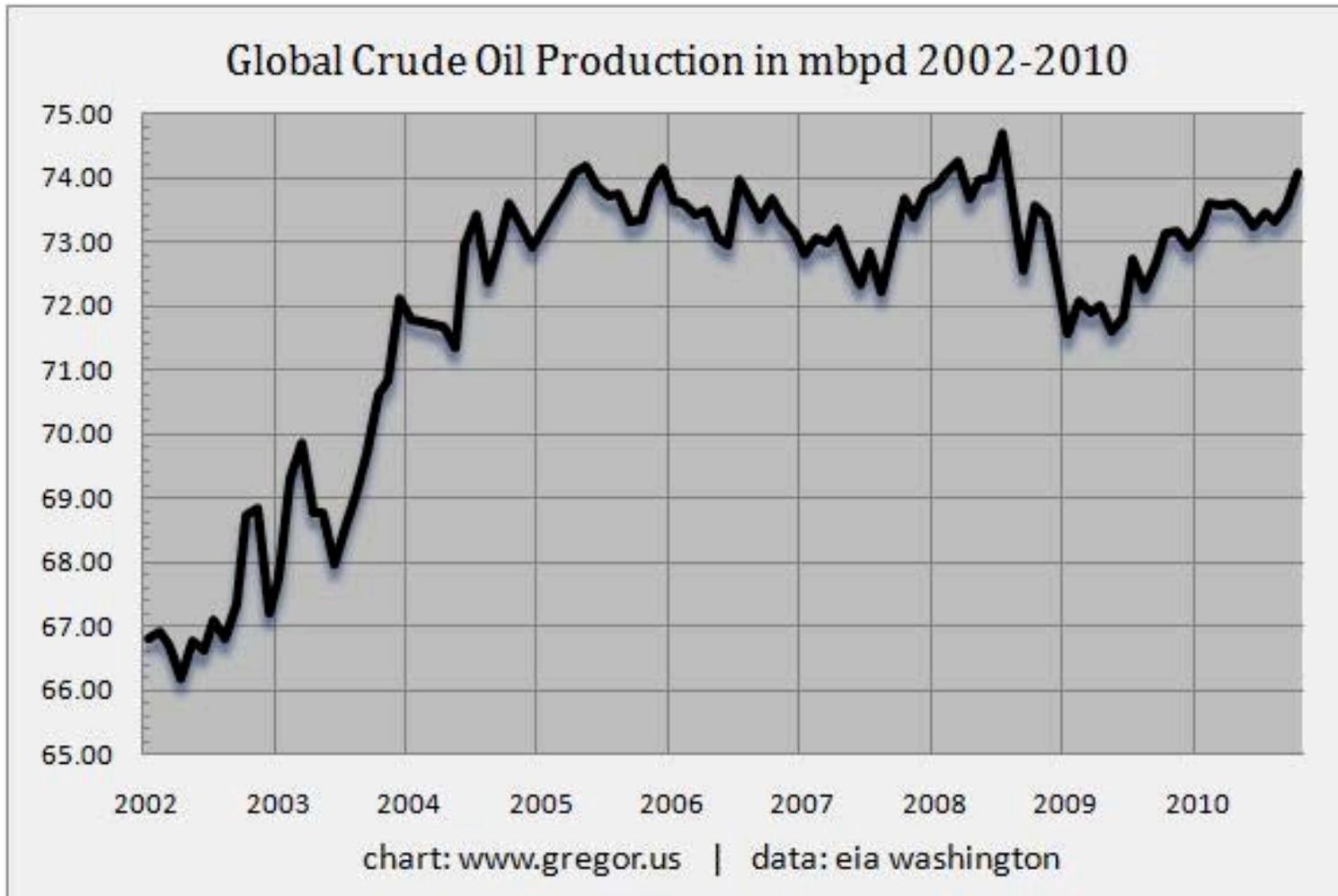
40% of commercial energy

portable and energy dense



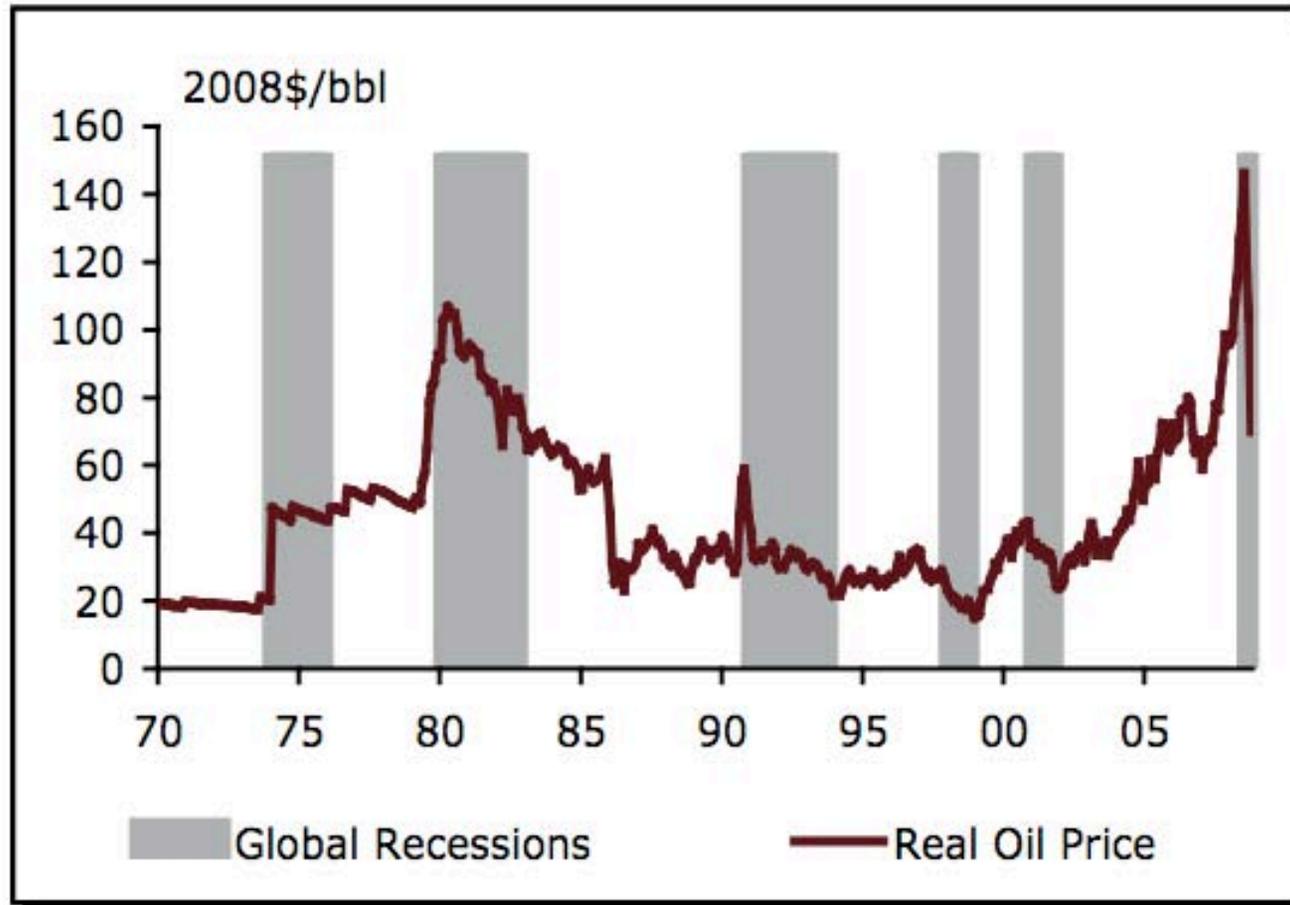
crude oil production has plateaued since 2005

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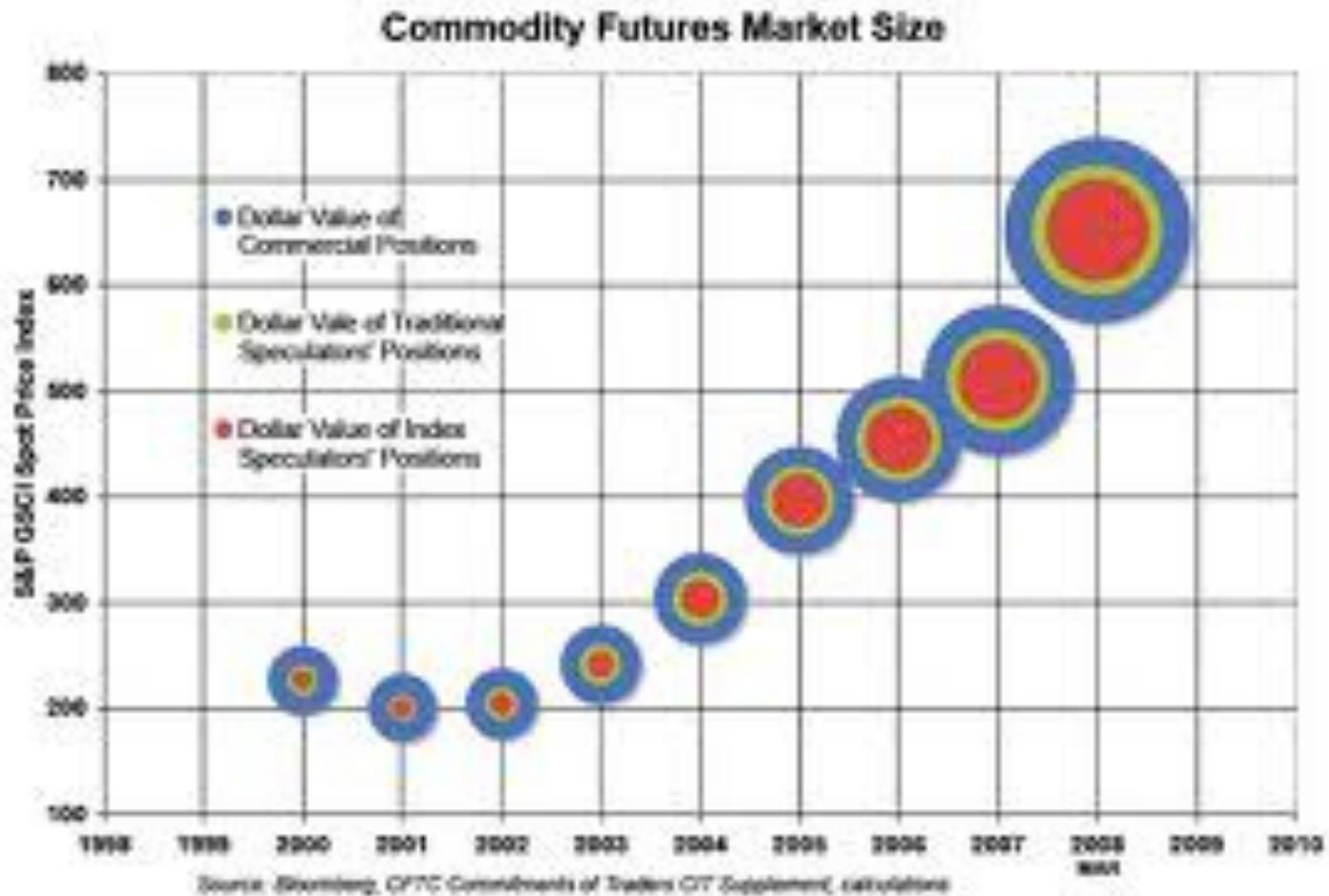
oil prices rose to \$147/barrel in 2008

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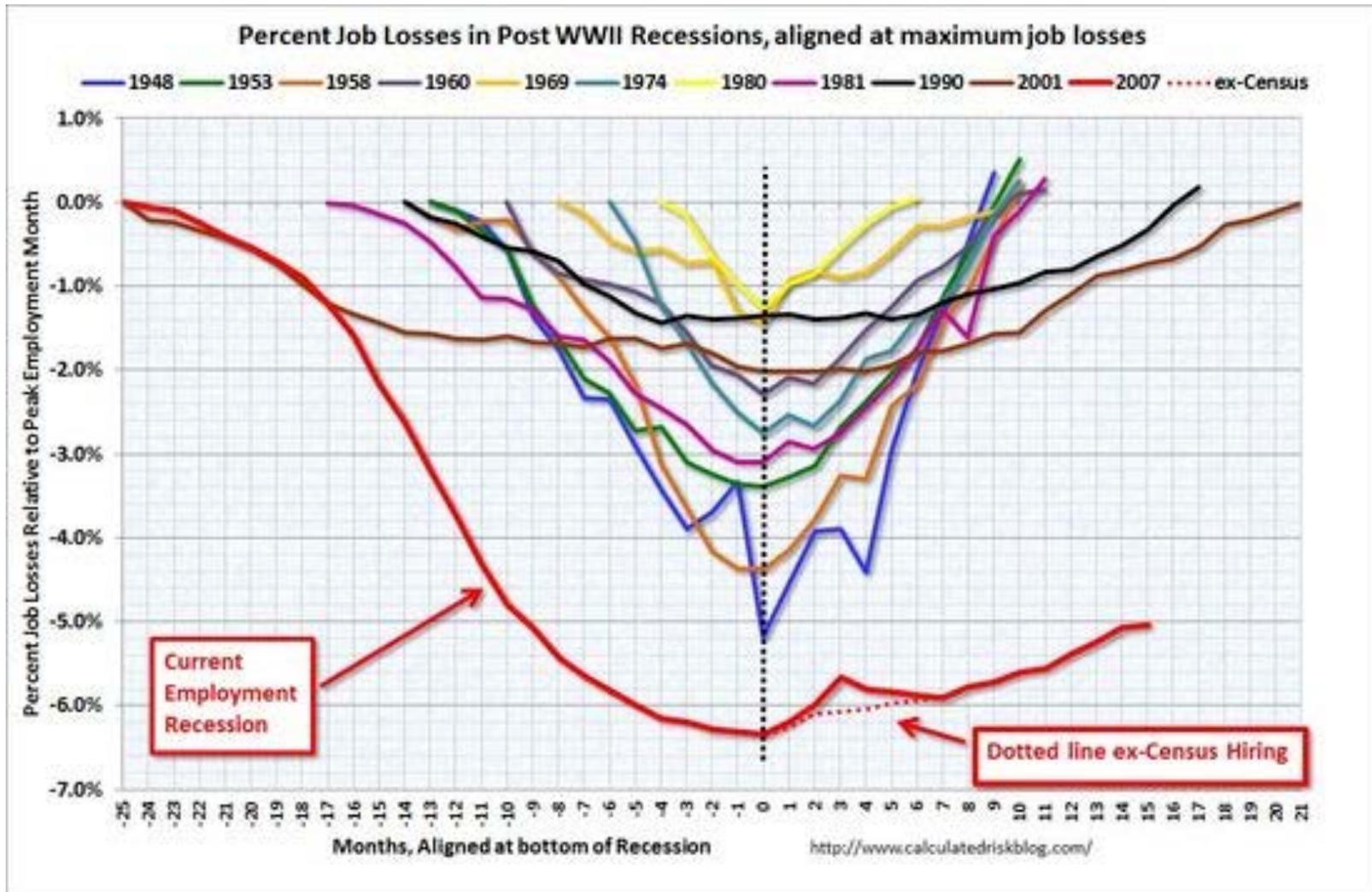


Speculation in commodity markets took off in 2005.

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# Job losses in the Great Recession



If there's so much oil up there, why aren't we using it?

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# A key metric: Energy Returned on Energy Invested (EROEI)

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100 to 1 -- Texas Crude in the 1930s



15 to 1 -- Average US Oil today



4 to 1 – Canadian Tar Sands



1.4 to 1 – Corn Ethanol

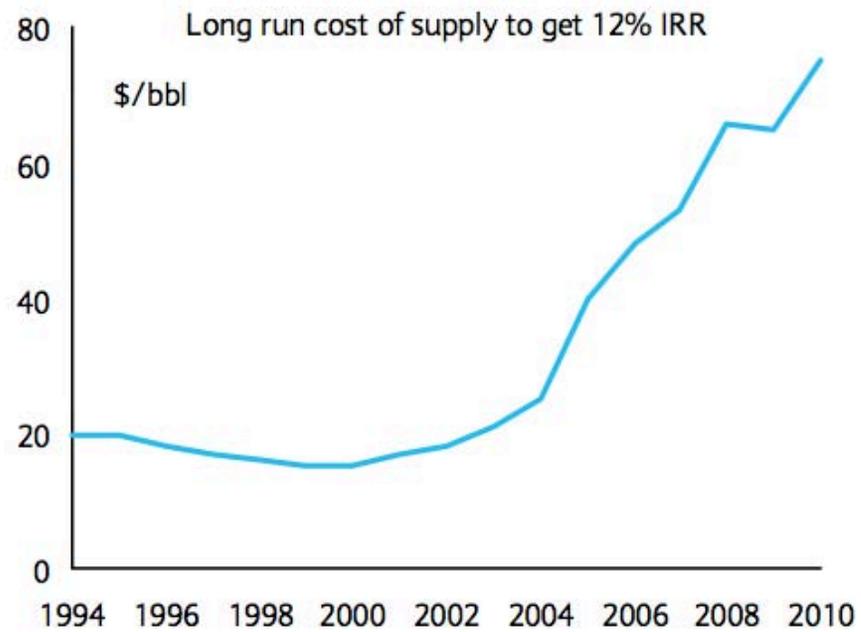


? – Oil Shale?



# Oil production costs have soared

Figure 26: The cost of production, especially outside OPEC, has soared



Note: IRR=Internal rate of return. Source: Barclays Capital Equity Research

## Rifle's Energy Problem # 3

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Wasted energy and wasted money.



Energy efficiency = increased consumer discretionary spending

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## Rifle's Energy Problem # 4

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### Impacts to the environment



# The Energy Village Brain Trust

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## The role of planning in the Energy Village

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- Identify community assets
- Go on an exploration with the community
- Be a convener
- Be a connector
- Promote innovative ideas
- Be the curator of the story



## Energy Village Vision

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- A bridge between the traditional fossil-fuel economy and the renewable energy economy
- harnessing local energy to solve our own problems
- Expand local and regional economic and social networks



# Energy Village Vision Projects

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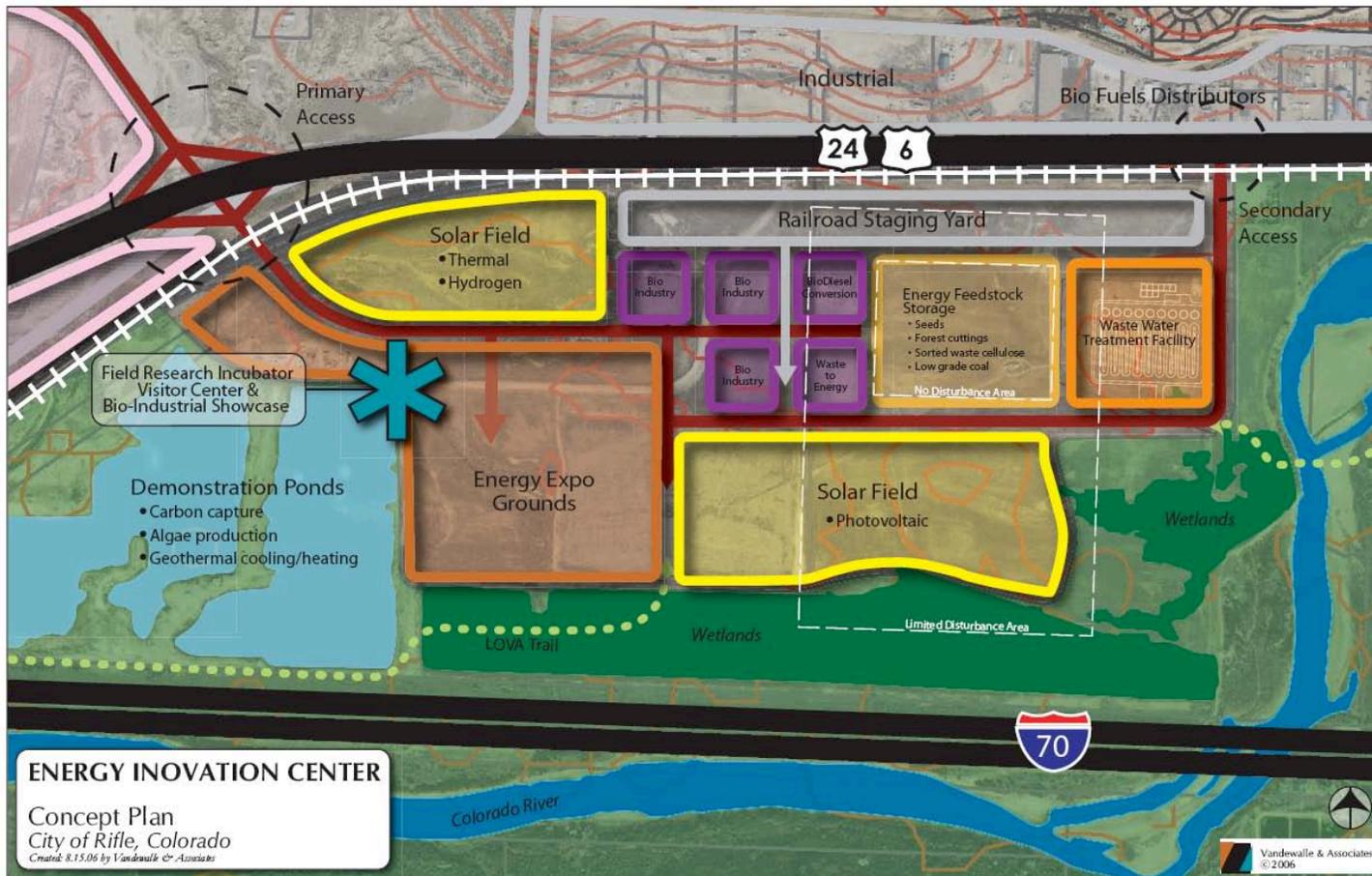
Project areas:

1. Innovative local products , and research
2. An energy-efficient economy
3. Places of innovation



# 1. Innovative Products, Skills and Research

Synergistic, sustainable industries



# Solar

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Rifle leads the nation in solar output per capita



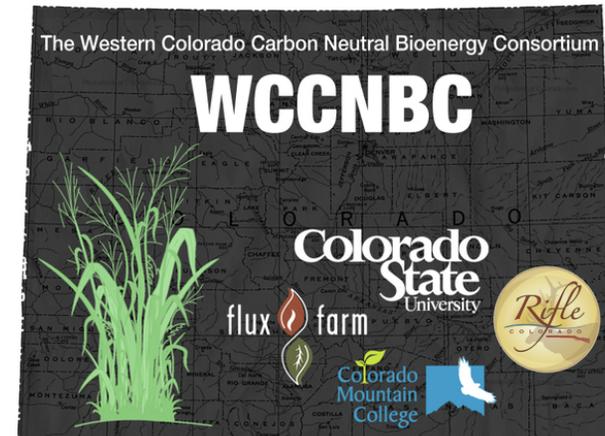
# Alternative Transportation Fuels

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1. Compressed Natural Gas (CNG) stations and vehicle conversions



3. Biomass-to-butanol research



5. City purchase of electric vehicles



# Local manufacturing and regional economic networks

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## Colorado Mountain College Fab Lab



## 2. An Energy Efficient Economy

Solar Powered lighting  
at Centennial Park.....



....performance contracts at City facilities  
and energy retrofits in the downtown.

## Transit and land use are key

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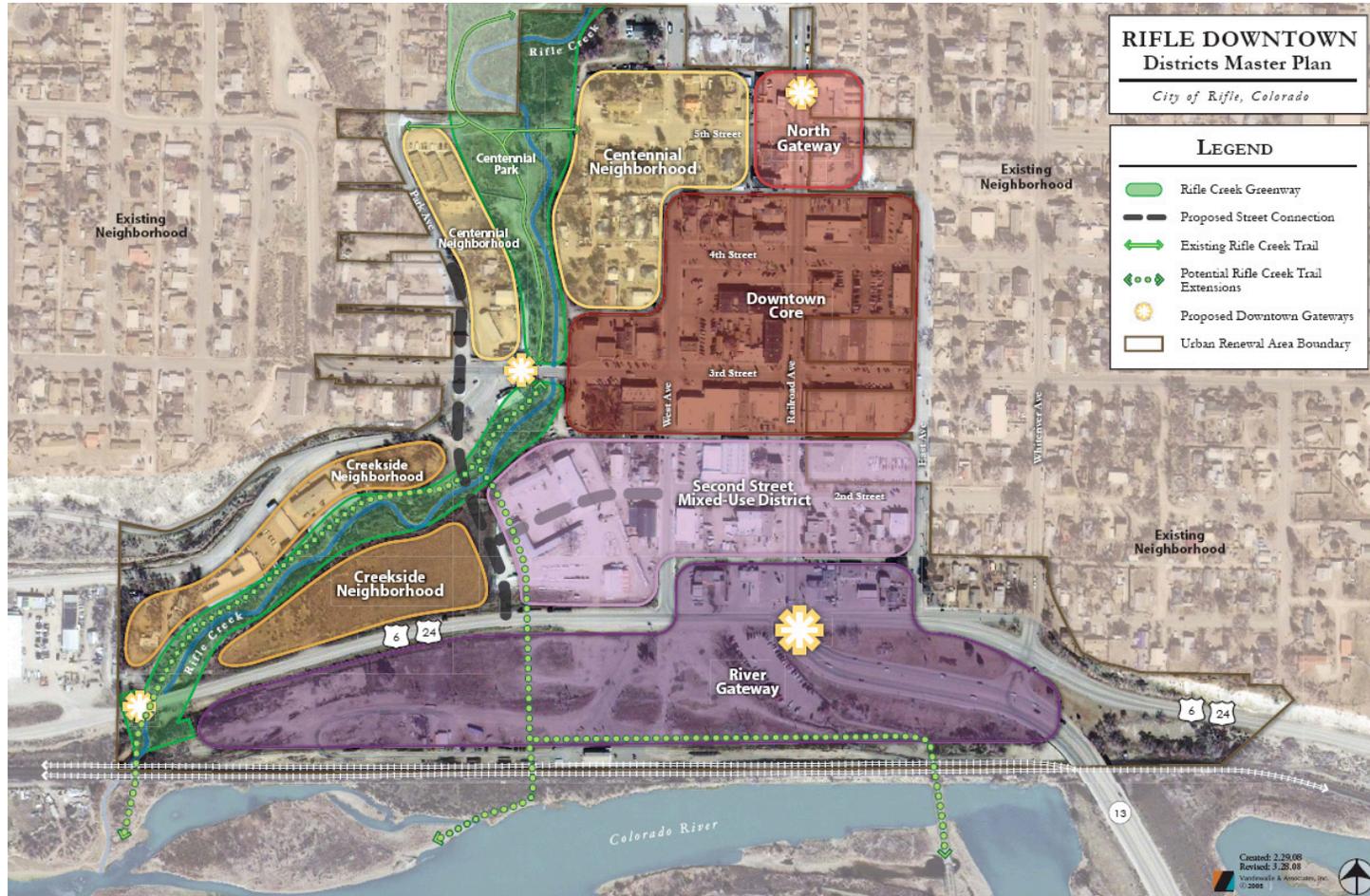


# TOD Strategic Plan for Downtown Rifle: Community Challenge Planning Grant



### 3. Places of Innovation

## Downtown Master Plan



# Rifle Sustainable Technology Center

Rifle Sustainable Technology Center:  
DRAFT Preliminary Floor Plan

**DRAFT**



## Community innovation

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"There has been much discussion lately about 'transforming' government, libraries, businesses, etc...but I believe we've missed the mark. I believe **it is our responsibility to provide the pathways and vehicles; the 'access' to transformational experiences.** When we do that, communities and individuals transform themselves by coming together, thinking, developing, creating and making."



Sue Considine  
Free Library Executive Director,  
Fayetteville, NY

# **Climate and Energy Planning**

*Partnerships That Work*

***California State as Partner***

11<sup>th</sup> Annual New Partners for Smart Growth  
February 2-4, 2012 San Diego, California

# The State as a Partner Climate and Energy Planning



MICHAEL MCCORMICK, AICP  
FEBRUARY 4, 2012  
GOVERNOR'S OFFICE OF PLANNING AND RESEARCH

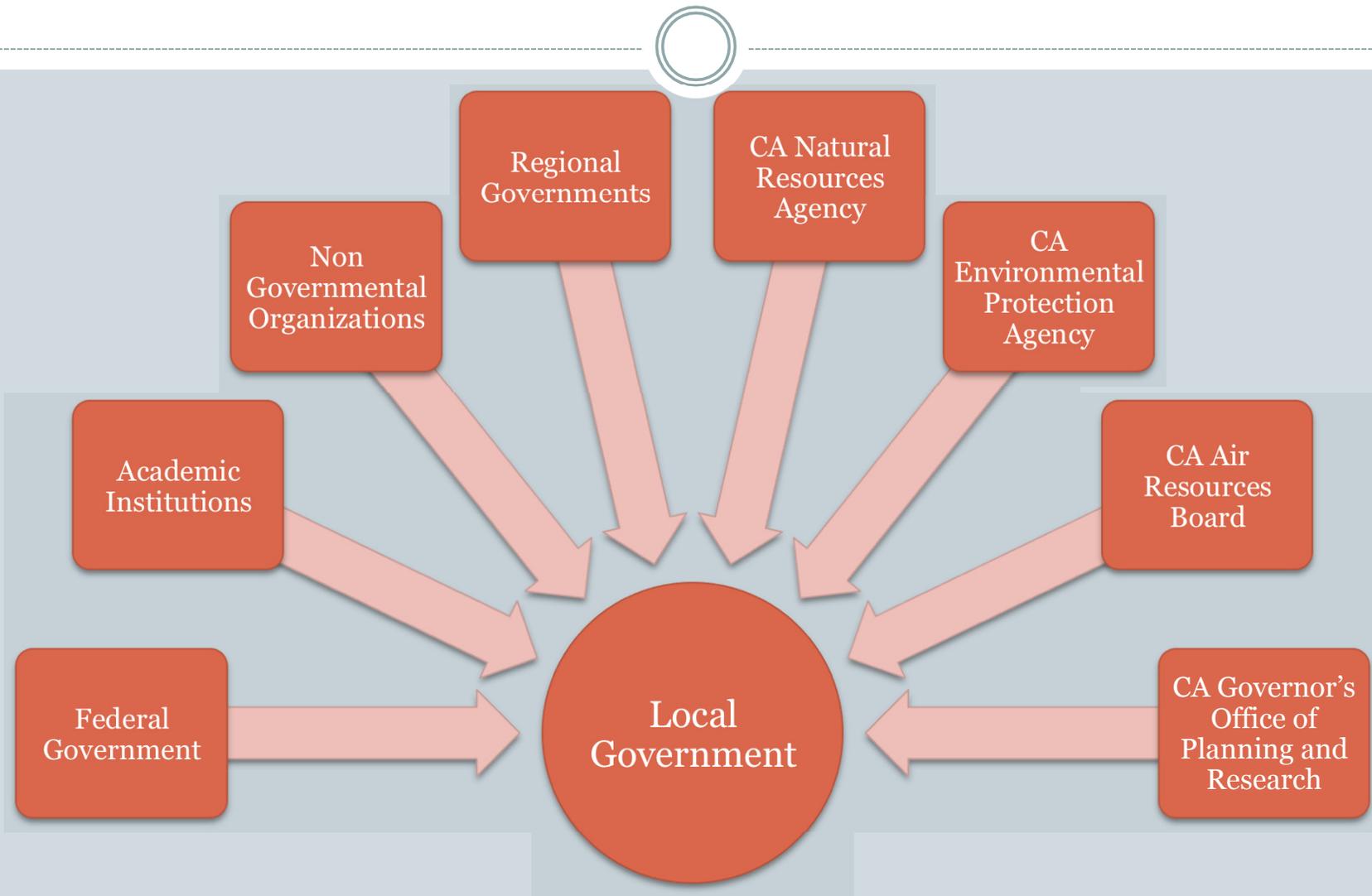


# Who is OPR?

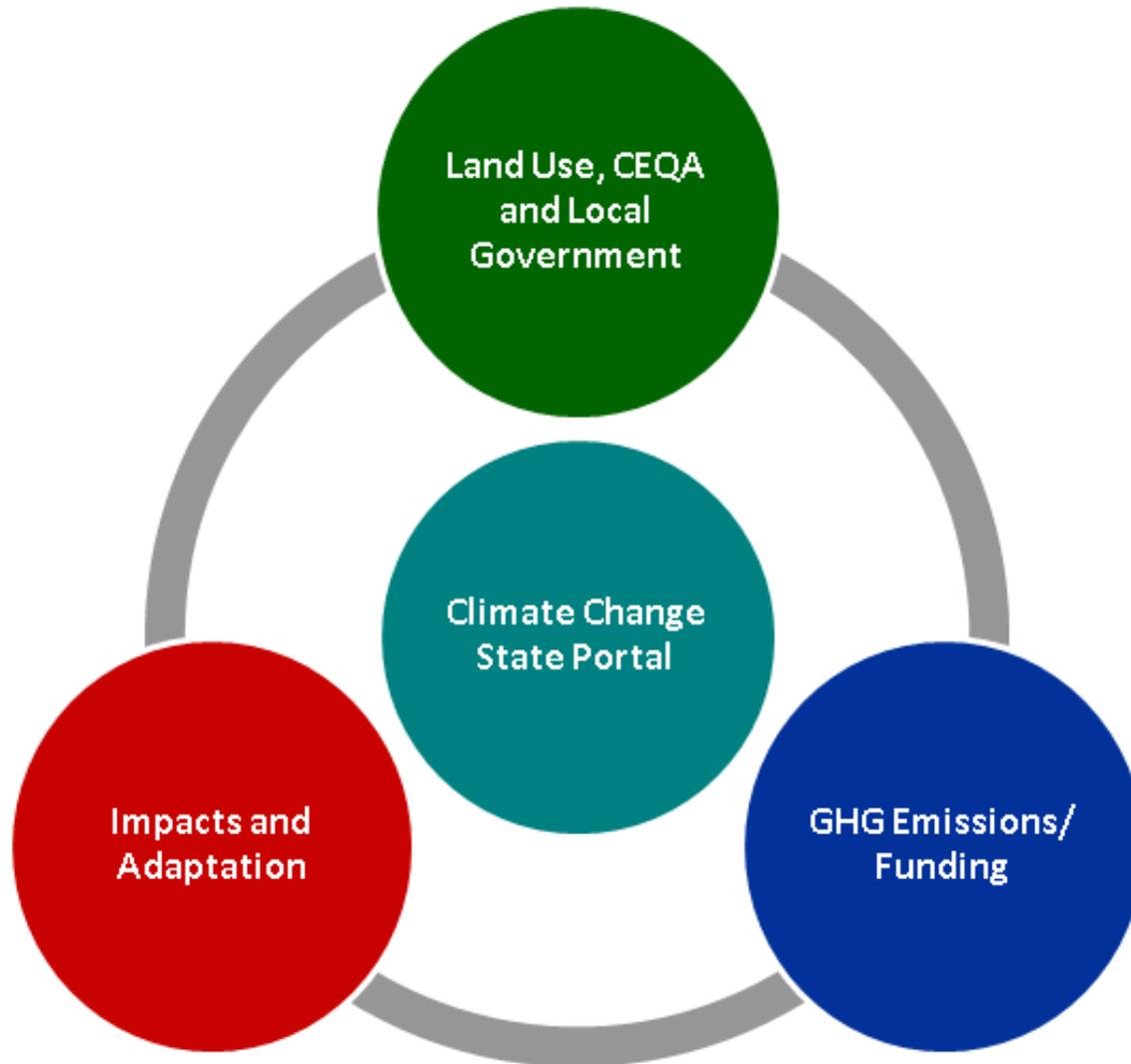


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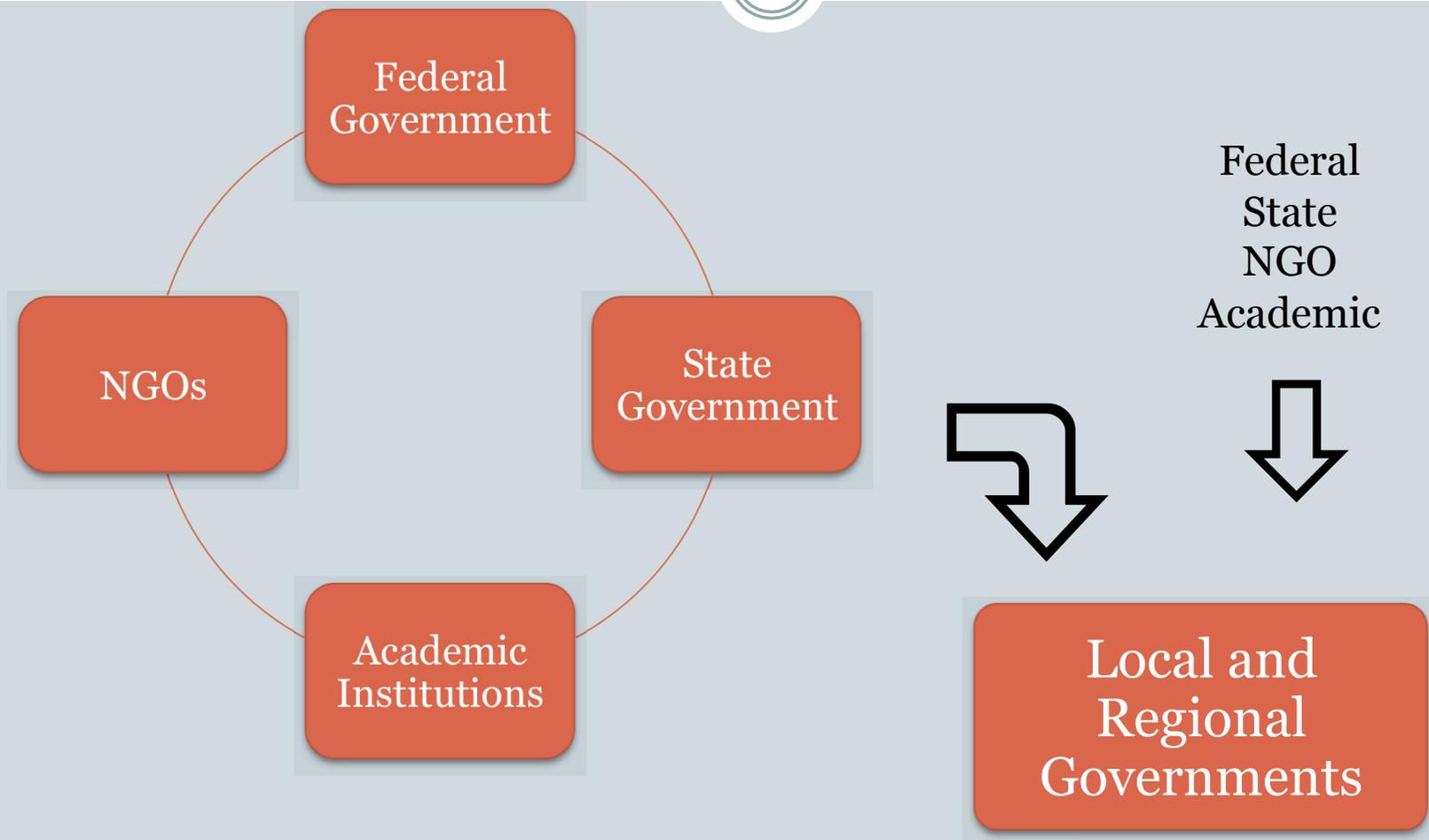
# The State as a Partner - Historic



# Local Government Climate Interface



# The State as a Partner – Where We Are



# The State as Partner – The Goal



Federal Government

State Government

Local and Regional  
Government

Non Government  
Organizations

Academic Institutions

# Thank You



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# CLIMATE CORPS BAY AREA: FORGING SUSTAINABILITY PARTNERSHIPS FOR LONG-TERM SOLUTIONS

KIF SCHEUER  
PROGRAM DIRECTOR  
STRATEGIC ENERGY  
INNOVATIONS



CLIMATE CORPS BAY AREA



## THE CONTEXT

- Action on Climate Change seeing individual success but is failing to yield large-scale results.
- Despite Mandates, Local Govts. are stretched too thin to act effectively



*There is an emerging talent pool who lacks access to real-world experience.*



# CLIMATE CORPS BAY AREA FACILITATES PARTNERSHIP

- 30 Members placed with Partners
  - Full-time for 10 months
  - Paid internships (salary + scholarship)
  - Trained and placed alongside Bay Area municipal (and nonprofit) staff
- Implement climate change mitigation projects
- Raise awareness and increase civic participation in climate protection
- Federal and local funding



CLIMATE CORPS BAY AREA



# CURRENT STATUS

- 30 Members
  - Over 300 applicants
  - Waiting list for next service year
- 16 Partners
  - 9 – Non-Profits
  - 7 - Local Governments



# PERFORMANCE GOALS

*Goal: 30% GHG emission reductions in  
75% of programs members implement*

*Recruit and Support 1200 volunteers  
For a total of 3,800 hours*



CLIMATE CORPS BAY AREA



# THE TEAM

- Strategic Energy Innovations
  - 14 years of community energy and climate change programs
- Bay Area Community Partners (BACR)
  - Northern California AmeriCorps provider with 30 years of experience working in communities of need
- California Volunteers
  - The State AmeriCorps Commission



CLIMATE CORPS BAY AREA



## ROLE OF THE TEAM

- Recruiting and Matching
- Supervised technical support
- Training
- Partner and Member networking
- Monitoring and evaluation
- ***A strong team and support structure is key to success***



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# PROJECT VARIATIONS

## Businesses

- Energy Efficiency
- Organics Disposal
- Networking with Green Businesses

## Governments

- Transportation Initiatives
- Waste Reduction
- Energy Efficiency
- Climate Action Plans
- Solar Procurement

## Residents

- Energy Upgrade California
- Energy Efficiency
- Education
- Public (PACE) financing programs
- Transportation
- Solar Installation

## Schools

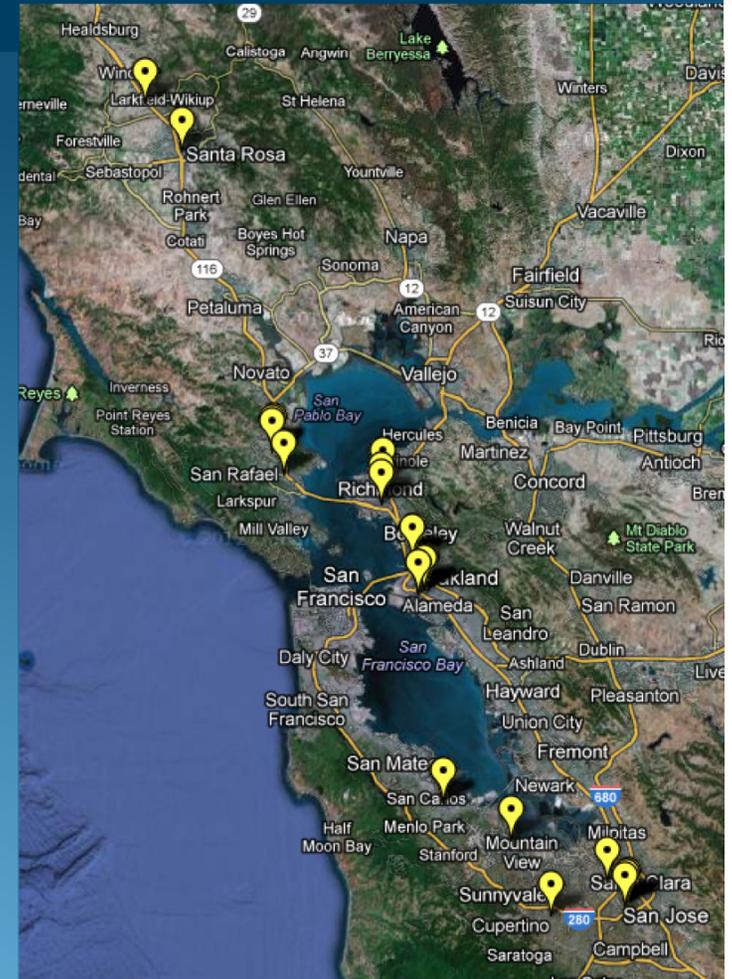
- Eco-Campuses
- K-12 Green Teams
- Honor Sustainable Schools
- Walking School Bus
- Curriculum Development



# EXAMPLES OF LOCAL GOVERNMENT

## PARTNERS

- City of San Pablo
  - Climate action plan development, weatherization, lighting, and thermometer retrofit supervision
- Alameda GSA
  - Large scale multi-county solar procurement, Environmental Preference Purchasing, Lowering employee single car commuting
- Sonoma & San Mateo Counties
  - Energy Upgrade California Outreach and community engagement



CLIMATE CORPS BAY AREA



## FIRST YEAR'S SUCCESSES

- CCBA Members contributed over 40,000 hrs towards Bay Area Climate Protection Efforts

*81% improvement in emissions reductions in  
75% of programs members implement*

*Recruited and Supported 1450+ Volunteers  
For a total of 5,400 hours*

*85% of Members obtained jobs or returned to school  
in the Sustainability Field*



CLIMATE CORPS BAY AREA



# HOW WE BUILD PARTNERSHIP: DESIGN FOR CHANGE

- Meet communities where they are at by providing flexible adaptable program structure
- Establish conditions to recruit high impact projects and emerging talent
- Provide strong support throughout to build credibility and leverage successes



CLIMATE CORPS BAY AREA



# HOW WE BUILD PARTNERSHIP: SUSTAIN CHANGE

- Grow Partnerships
  - Leave a legacy of program resources & relationships
  - Provide a long-term stable resource to Local governments
  - Leverage CCBA to nurture innovative approaches
  - Evolve our support to meet changing needs
- Create career pathways
  - Members get sustainability jobs and educational paths
  - Alumni expand networks

Custom

Scalable

Replicable

Effective



CLIMATE CORPS BAY AREA



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**Thank you to our 2011-12 Partners:** Acterra, Alameda GSA, Bay Area Climate Collaborative, Build it Green, City of Cupertino, City of Richmond, City of San Pablo, City of San Jose, GRID Alternatives, Joint Ventures, Marin Energy Authority, Redwood City 2020, San Mateo County, Solar Richmond, Sonoma County, Strategic Energy Innovations



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**Thank you**