



U.S. Department of Energy  
Energy Efficiency  
and Renewable Energy



# U.S. Department of Energy: Clean Cities Update

Dennis A. Smith, PE, CEM

National Clean Cities Director &  
Vehicle Technology Deployment Manager

Coordinators Leadership Retreat  
September 2008  
Big Sky, Montana



## **AGENDA**

- **News from D.C.**
- **CC Program Fundamentals**
- **Annual Performance Measures**
- **Funding/Grant Opportunities**
- **EISA Update**



## **AGENDA** *(continued for the week)*

- **Upcoming Funding Opportunities**
- **New Tools and Resources**
- **National Media Exposure for CC mission**
- **Open Q&A / Discussions with DOE leadership team**
- **Group Training and Skill Development**
- **15 year anniversary celebration plans**
- **Industry Updates**
  - **Food vs. Fuel**
  - **Oil Supplies and Consumer Trends**
  - **Vehicle Technology Updates**
- **Coordinator Council and Regional Discussions**

***Yellowstone Park*** – Team building Exercises that will Reinforce the importance of our Clean Cities Mission



# Staff assignment News

- Linda Bluestein – Clean Cities Co-Director
- Pat Davis – Acting VT Program Manager
- Shannon Shea – added to HQ staff
- Kay Milewski (NETL) has been replaced
- Gerry Harrow (NREL) has ascended
- Ernie Oakes – announced retirement (12/08) ★

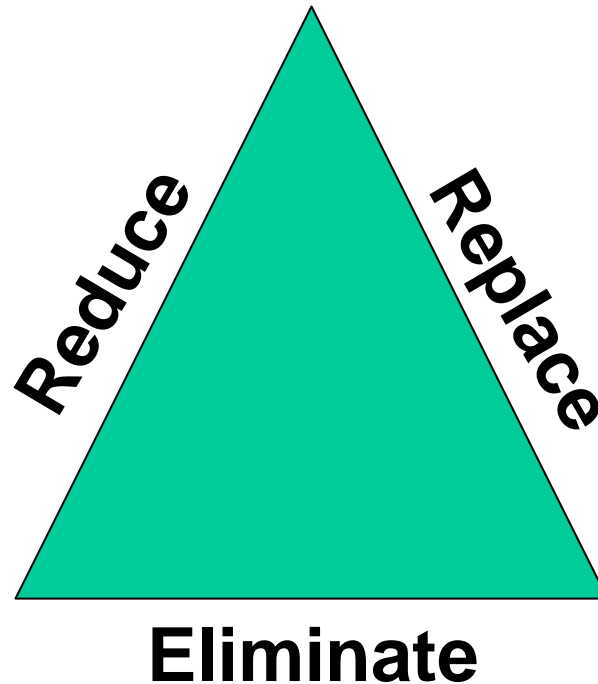


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# Goal: Petroleum Reduction

*How to Achieve the Goal ...*





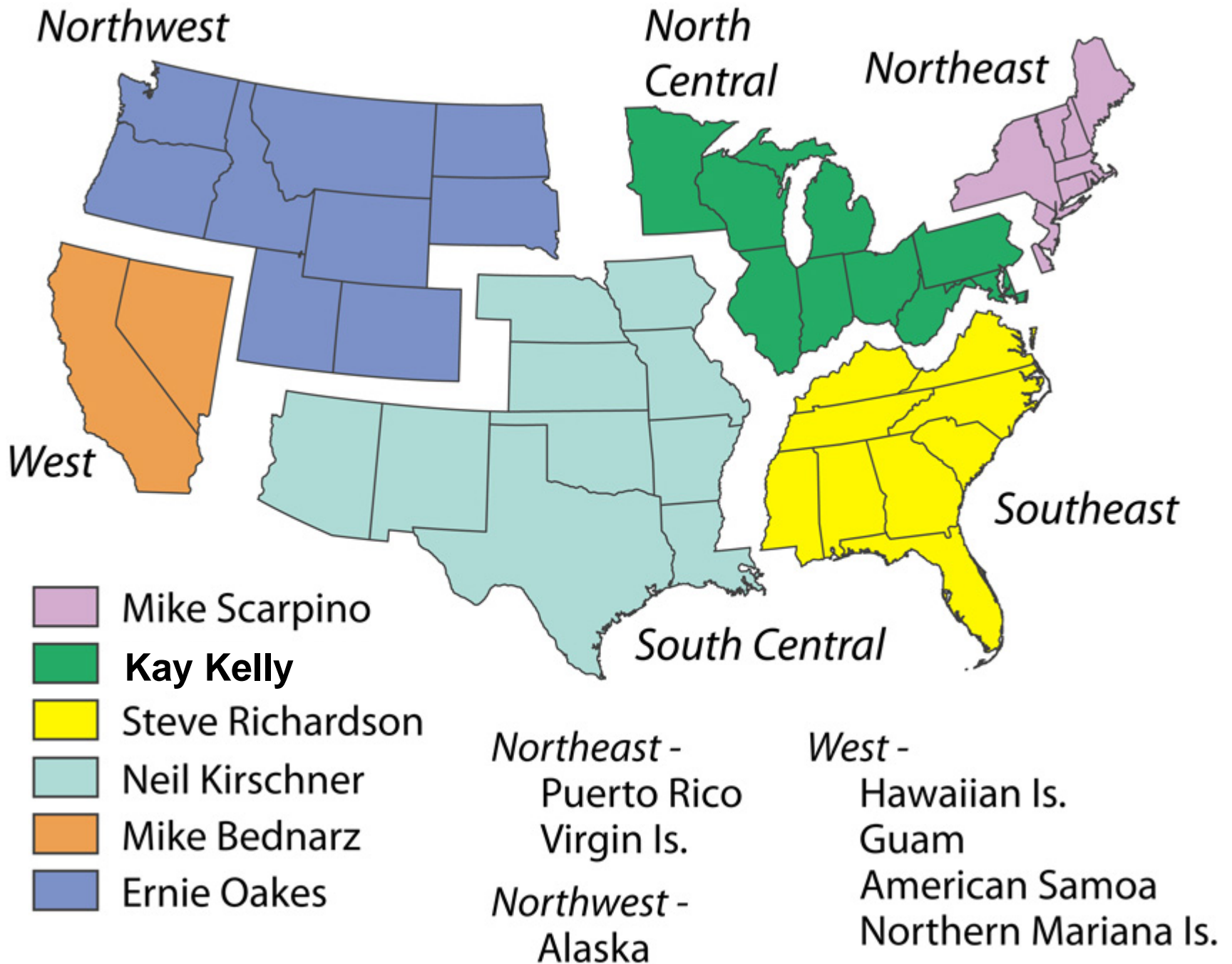
# Clean Cities

*A voluntary, locally-based government/industry partnership*

***Mission:*** To advance the energy, economic, and environmental security of the U.S. by supporting local decisions to adopt practices that contribute to the reduction of petroleum consumption in the transportation sector.

- Established in 1993 in response to the Energy Policy Act (EPAct) of 1992
- Companion program to the EPACT mandates requiring certain fleets to acquire AFVs (Federal, State, and Fuel provider fleets)







## National Laboratory Support

**National Energy Technology Lab (NETL – Project Management and Regional coordination of key Clean Cities activities)**

**National Renewable Energy Lab (NREL – Colorado) – Clean Cities Core program technical support , AFDC, technical communications, publications, Clean Cities Web sites, Hotline Response Service**

**Oak Ridge National Lab (ORNL - Tennessee) – Federal Fuel Economy Guide, FuelEconomy.Gov websites, National Fuel Economy consumer education and outreach efforts**

**Idaho National Energy Engineering Lab (INEEL) – Test & Evaluation**

**Brookhaven National Lab (BNL – New York) - BioMethane and Land fill gas recovery**

**Argonne National Lab (ANL – Illinois) - Emissions Modeling (GREET and AIRCRED) and Idle Reduction analysis**



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# ***SPECIAL INTRODUCTIONS***



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The logo for Clean Cities, featuring a stylized "C" and the text "Clean Cities".

Clean  
Cities

*So . . . How are We Doing ?*



# Clean Cities Technology Portfolio

## **Alternative Fuels**

- Electricity
- Ethanol
- Propane
- Natural Gas
- BioMethane
- Hydrogen
- Biodiesel (B100)

## **Idle Reduction**

- Heavy-duty trucks
- Transit/School Buses

## **Blended Fuels**

Low levels of alternative fuels with conventional fuels (HCNG, B2, B5 and B20)

## **Hybrids**

Light- and heavy-duty hybrids

## **Fuel Economy**

More Fuel-efficient vehicles, light weight materials, behavioral changes, vehicle maintenance initiatives, etc.



## 2007 Portfolio Performance

- 2007 is the fourth year of the new portfolio and the online survey
- 2007 survey results exceeded goal for the year
  - Goal for 2007 was 340 million GGE displaced
  - Actually achieved 375 million GGE displaced through coalition and ORNL fuel economy efforts
- 86 coalitions submitted reports with an average of 3.4 million GGE displaced per coalition



## 2007 Portfolio Performance

Technology	Million GGEs	Percent of Total
AFV	247	66% ↓
Fuel Economy	86	23% ↑
Blends	20	5% ↑
Hybrids (HEVs)	17	5% ↑
Idle Reduction	6	1% ↓
<b>Total</b>	<b>375</b> ↑	<b>100%</b>

- AFVs continue to account for lion's share of the displacement
- Fuel Economy is next, with 21.6% from ORNL efforts and other 1.4% from coalitions' efforts

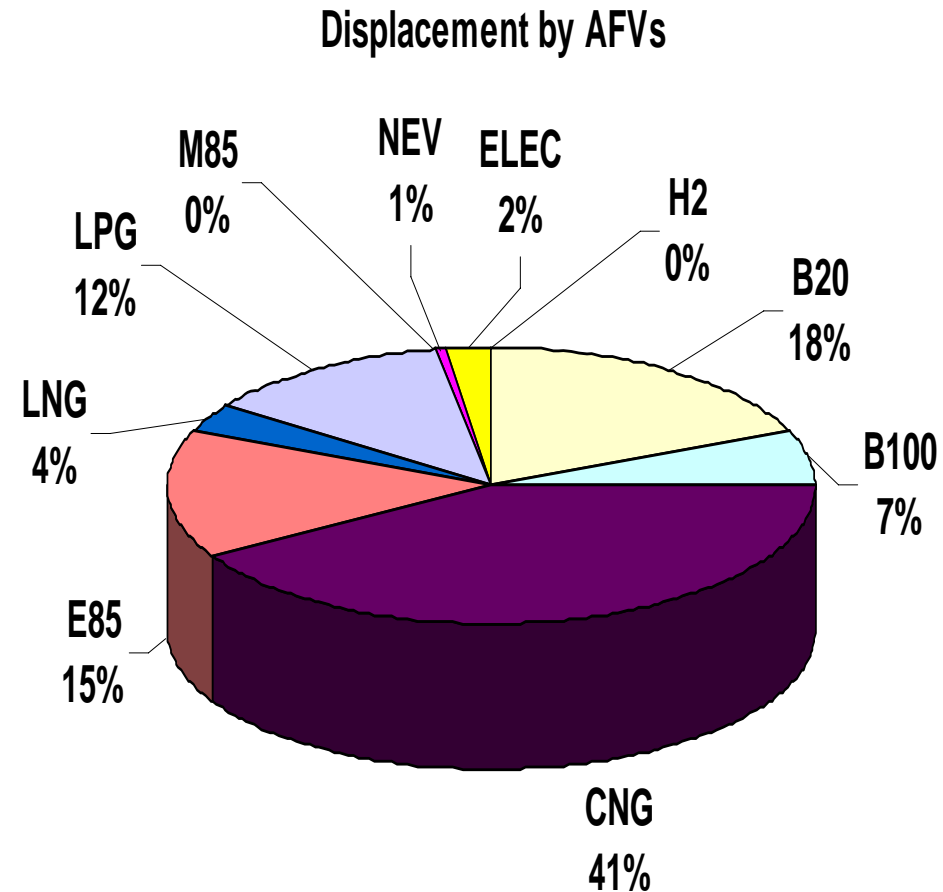
*In 2004, Clean Cities Celebrated Beyond A Billion.  
In 2008, Clean Cities surpassed two billion GGE displaced*



# Clean Cities and Alternative Fuels

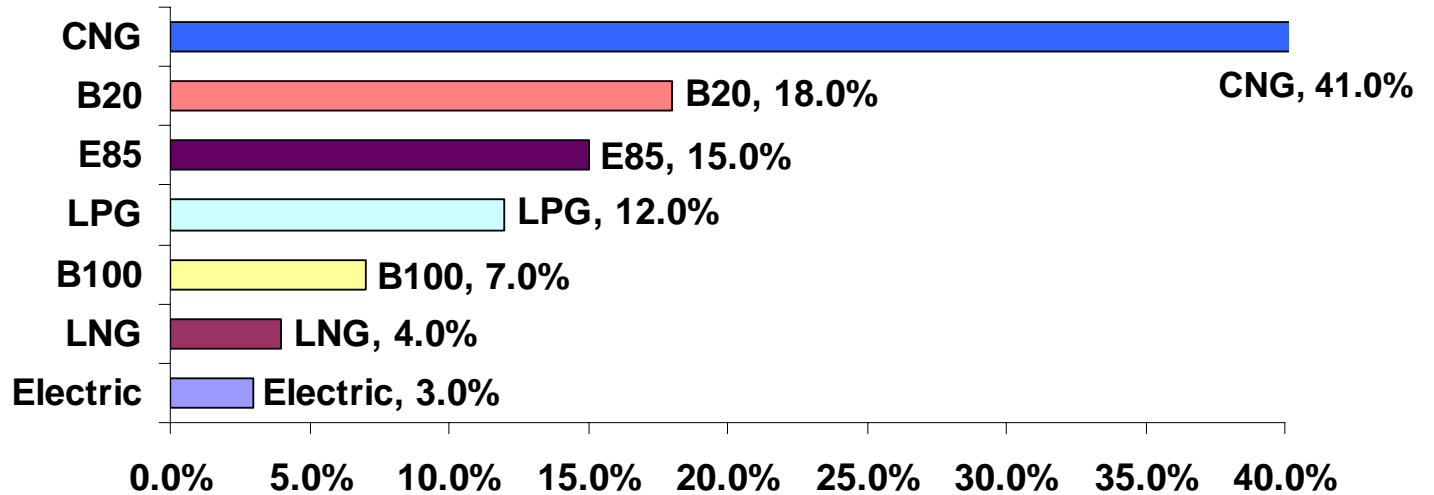
*AFVs displaced 247 million GGEs in 2007*

- 2/3 of total CC displacement
- Slight Reduction from last year, due to improved reporting accuracy

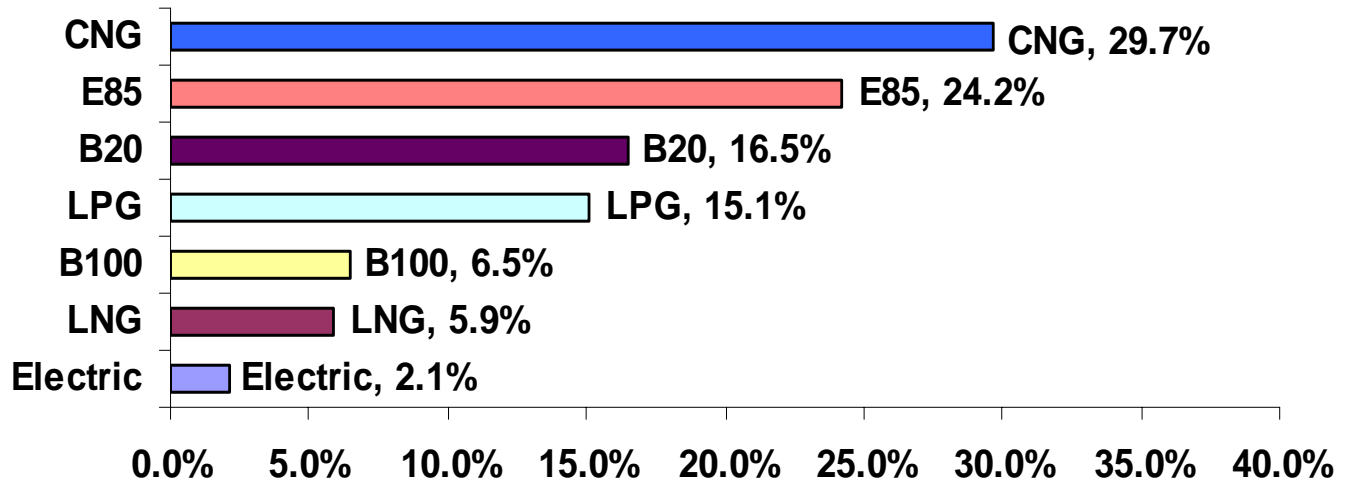


# AFV Petroleum Displacement Trends

2007

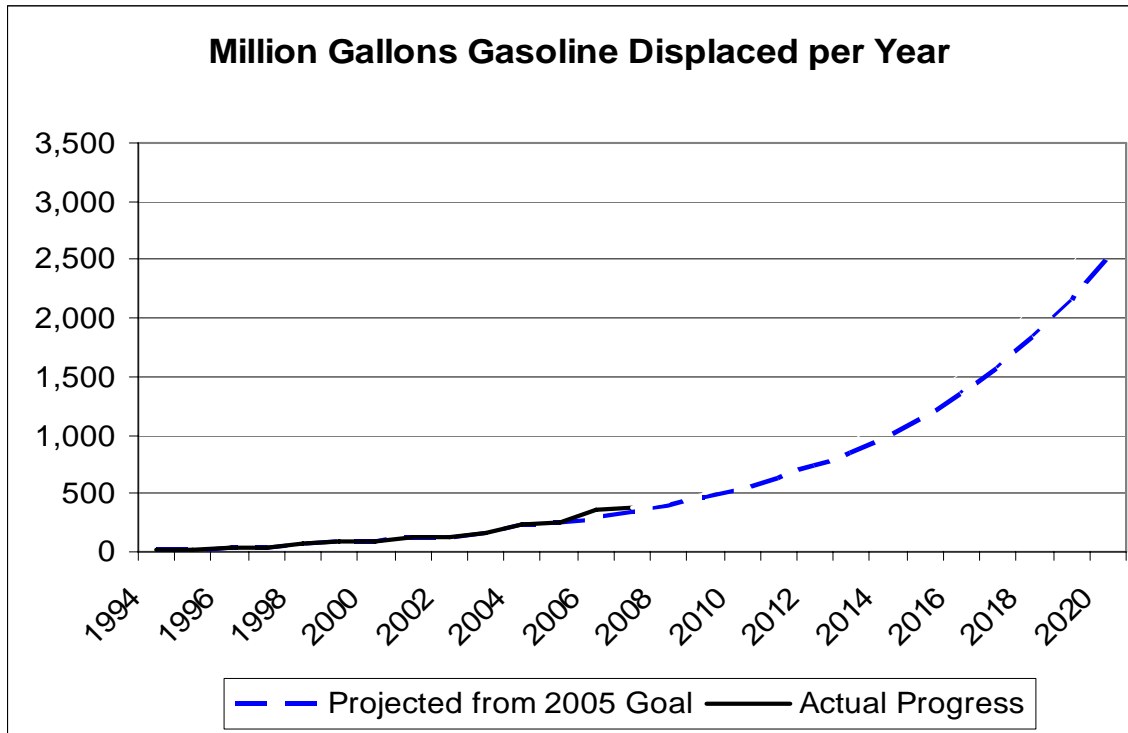


2006





# Annual Displacement History Projected to 2020



- 15-16% annual growth achieves 2.5 billion GGE goal by 2020
- CC 25<sup>th</sup> Anniversary (2018) – displacement will approach 2B GGE/yr

# Funding :

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## Funding History

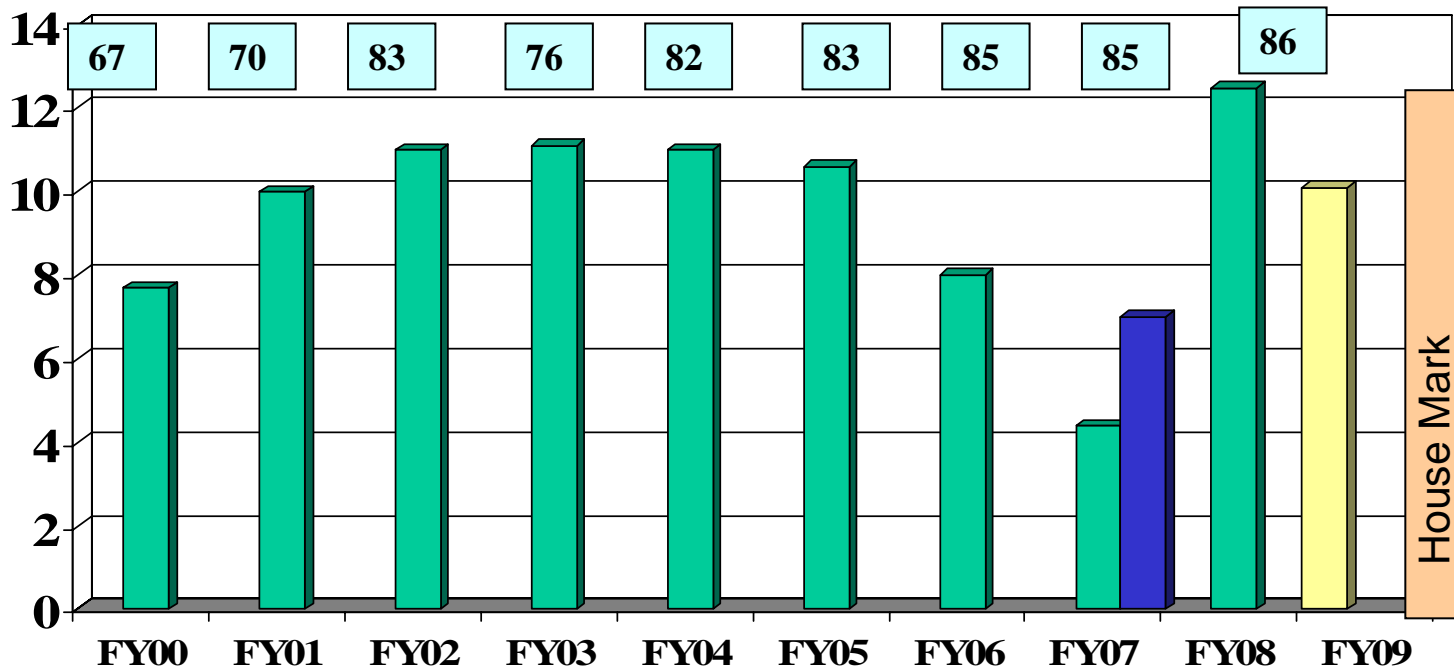
- The SEP grant program and related CC funding was NOT eliminated... It was Replaced.
- Clean Cities created its own grant program in FY2006 to simplify the competitive process and accelerate movement of funding to awardees.  
*(CC Petroleum Reduction Solicitation)*



# Clean Cities Budget

The number of Coalitions has grown regardless of the budget.

\$ Millions



Request

Appropriation

Adjusted

House Mark

House Mark with Kirk amendment



# DOE Clean Cities SEP/Grant & Award History

Year	Proposals Received	Awards	\$ DOE (Millions)	\$ Matching (Millions)
1998	90	34	\$2.6	\$18.7
1999	104	53	\$3.7	\$11.1
2000	138	54	\$3.8	\$23.0
2001	127	54	\$4.3	\$10.9
2002	135	55	\$4.5	\$21.4
2003	141	68	\$5.3	\$29.9
2004	156	66	\$5.4	\$37.5
2005	153	70	\$5.4	\$35.3
2006-2008	78	16	\$8.6	\$26.4

*Avg. \$75K  
awarded per  
project*

*Avg. \$538K  
awarded per  
project*



## History of Coalition Support Grants

<b>Year</b>	<b>Direct Funding</b>	<b>Awards</b>	<b>Active Coalitions</b>
1999	\$194,323	11	69
2000	\$220,000	15	67
2001	\$357,286	18	70
2002	\$392,500	20	83
2003	\$664,831	31	76
2004	\$590,000	30	82
2005	\$636,557	33	83
2006	---- Transition year ----		85
2007	\$850,000	85*	85
2008	\$1,075,000	86*	86



Funding Source	Old	2008
Coalition Support Grants	\$ 3,000 (\$20,000 x 30% for alt. yrs)	\$ 12,500
ATC Event allowances	\$2,000	none
Travel Assistance (to industry meetings)	\$ 500 (annual conf for some ~ 50)	none
Regional meetings	Expense allowance	Expense allowance (all CC)
Annual Meeting (retreat)	none	Expense allowance (all CC)
Petroleum Reduction Awards & SEP (project management)	none (no mgmt expenses for CC)	\$ 3,000 (\$ 5,000 to \$ 20,000 / 3yrs)
Mini-grants (NBB workshops)	\$ 1,200 (\$100K / 85 coalitions)	\$1,050 (\$90K / 85 coalitions)
GM Rewards program	\$600	\$950+
<b>Subtotal =</b>	<b>\$ 7,300</b>	<b>\$17,500</b>

# Funding :

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## **Coalition Support Grants** *(continued)*

- Eliminated uncertainty and accelerated the application process
- Increased to \$12,500 per year  
(= \$25,000 every two years for everyone)

... Great Optimism for the Future ...



# Opportunities for Funding in Future Years :

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## **DOE related**

- ★ • Increased Coalition Support Awards for data collection \*
- ★ • Coalition Mentoring Support (New Orleans) \*
- ★ • Allowance for Coordinator Special Duty Assignments \*
- ★ • Project Management for future Petroleum Reduction awards \*
- ★ • Project Management for Demo Programs \*

## **Additional Sources**

- ★ • Leveraged Funding from other sources (like GM Rewards) \*
- Potential funding for programs discussed in EISA 2007

[\* Discussed at 2007 CC Fall Retreat at Mammoth Cave National Park]



## **New Opportunities:**

### **CC Solicitation in FY2009**

*(update on Wednesday)*

### **Other Opportunities:**

- **GM Rewards to be continued** *(more on Wed)*
- **Potential for increased 2009 budget**
- **New Administration expected to have an aggressive energy initiative**

*Plus ... EISA 2007 legislative provisions ....*

# 2008 National Awards



**2008**  
**Coordinator of the Year**  
**Nominees:**



- *Rick Wallace* – North West region**
- *Samantha Bingham* – North Central region**
- *Lee Grannis* – North East region**
- *Melissa Howell* – South East region**
- *Andrew Hudgins* – South Central region**
- *Heloise Froelich* – Western region**