

West Virginia *Energy*



DIVISION OF ENERGY



West Virginia
WEST VIRGINIA



**You are involved in the largest
energy efficiency and
renewable energy deployment
in U.S. history**

WVDOE administered \$43M

including:

- \$31M: **Lighting, HVAC, window retrofits, RE** in **113 buildings** operated by **nine state agencies** totaling more than **6 million square feet**. This program also switched Huttonsville Correctional Center from oil to natural gas, saving \$400,000 in annual heating costs.
- \$1M: W.Va. Green-collar Job Training (**wind, solar, building performance and energy code training**) in selected community and technical colleges

EECBG

- \$9.5M: **Lighting, HVAC, building envelope retrofits, RE** involving **145 projects** and **105 locations** owned by



U.S. DEPARTMENT OF
ENERGY



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113 buildings; >6 million square feet

Non-residential retrofit programs	# bldgs.	Sq. ft.	Amount	%
Energy Efficiency in State Buildings: Higher Education	43	2,484,341	\$9,493,598	29%
Energy Efficiency in State Buildings: Corrections	4	889,000	\$7,194,880	22%
Energy Efficiency in State Buildings: Health and Human Resources	7	1,262,773	\$5,000,000	15%
Energy Efficiency in State Buildings: K-12 Education	7	272,742	\$3,317,859	10%
Energy Efficiency in State Buildings: Administration	7	742,125	\$2,587,006	8%
Energy Efficiency in State Buildings: W.Va. DNR	2	28,400	\$1,410,000	4%
Energy Efficiency in State Buildings: W.Va. Army National Guard	19	256,502	\$1,166,525	4%
Energy Efficiency in State Buildings: W.Va. Department of Agriculture	23	126,702	\$963,861	3%
Energy Efficiency in State Buildings: W.Va. DEP	1	N/A; RE	\$291,168	1%
Total for non-residential retrofit programs	113	6,090,985	\$31,424,897	96%
Workforce education				
West Virginia Green-collar Job Training Program			\$1,000,000	3%
Grant Administration			\$321,103	<1%
Total for WV SEP/ARRA			\$32,746,000	

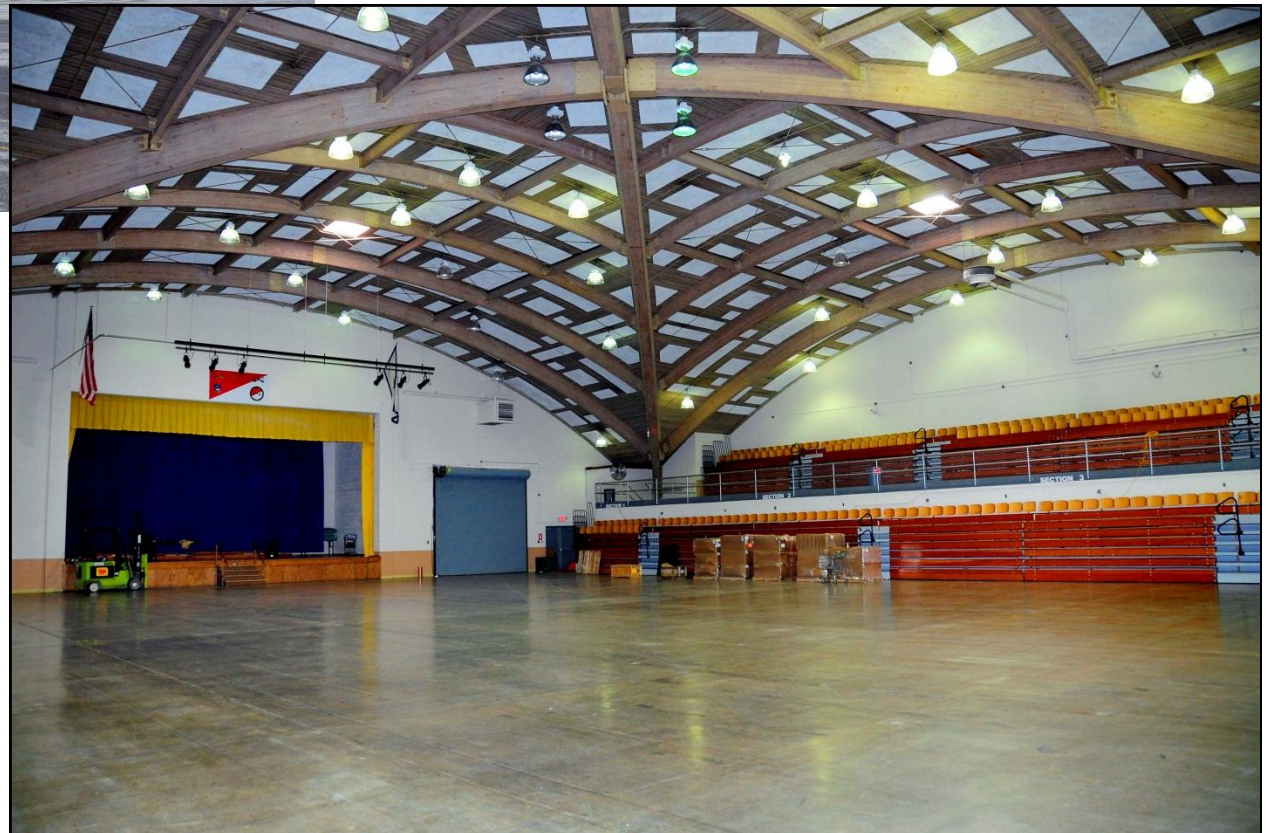
Our partners included

- W.Va. Division of Labor
- W.Va. Division of Purchasing
- State Historic Preservation Office
- U.S. Department of Energy
- Commerce Communications





W.Va. Army National Guard Brushfork (Bluefield) Armory



- \$168,000 (lighting)
- 1963
- KEMA
- Contractor response

W.Va. Department of Environmental Protection



- \$244,562.85
- 25 kW PV system
- Chevrolet Volt
- SHW: \$46,605.15



W.Va. School Building Authority Spring Mills Primary School

- Geothermal HVAC system
- \$481,543
- 160 tons
- LEED for Schools Gold certification



Saving Energy

in W.Va. Public Buildings



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<http://energywv.org/wv-buildings>



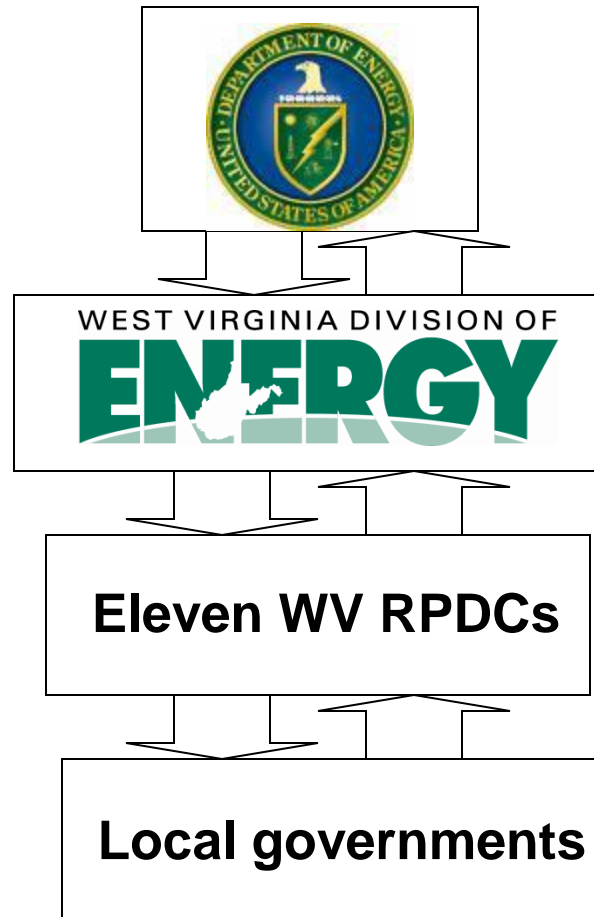
West Virginia Energy Efficiency Block Grant Program

ARRA/EECBG Program

\$9,593,500

- 145 energy efficiency projects for 105 municipal and local governments
- Other activities:
 - Project assessments and training for grantees
 - E3 Program energy and environmental audits
 - Training in ENERGY STAR[®] for HfH-WV
 - Geothermal Resource Conference and tools

The EECBG LGGP Process



Awards by grantee and type

Region	Projects Awarded	Counties Awarded	Municipalities Awarded	HVAC	Lighting	WDI	Renewables
1	25	4	7	11	8	6	0
2	15	2	7	8	6	6	1
3	9	2	6	5	11	3	2
4	26	5	11	13	4	16	0
5	19	6	6	12	7	3	0
6	9	2	7	9	9	7	0
7	9	3	6	6	2	3	1
8	9	4	5	6	2	3	1
9	2	1	1	1	1	1	1
10	13	2	9	7	3	6	0
11	9	2	7	3	11	3	1
Total	145	33	72	81	64	57	7

Other EECBG activities

- WVU IAC provided 23 energy assessments to grantees
- WVU IAC and WVMEP provided energy/environmental assessments for local government and manufacturers in 5 counties
- NRCTC provided 9 regional energy code training sessions
- ENERGY STAR residential building training was provided to Habitat for Humanity West Virginia's 19 affiliates
- Marshall University CBER provided geothermal research and hosted the West Virginia Geothermal Energy Conference
- The WV Geologic and Economic Survey developed mapping and a website to support promotion of the State's geothermal resources

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