

# Arkansas Alternative Energy Commission



**Arkansas Waterways Commission**  
**Gene Higginbotham**  
**Executive Director**

# Arkansas Waterways Commission

Our mission is to  
develop, promote, and protect  
navigation on our state's five  
commercially navigable rivers:

The Arkansas, Mississippi, Ouachita, Red,  
and White Rivers.





**Governor Asa Hutchinson**



**Chairman Travis Justice**  
Economist-At Large



**Joe Harris, Jr.**  
Mississippi River



**Gay Lacy**  
White River



**Paul Latture**  
Arkansas River



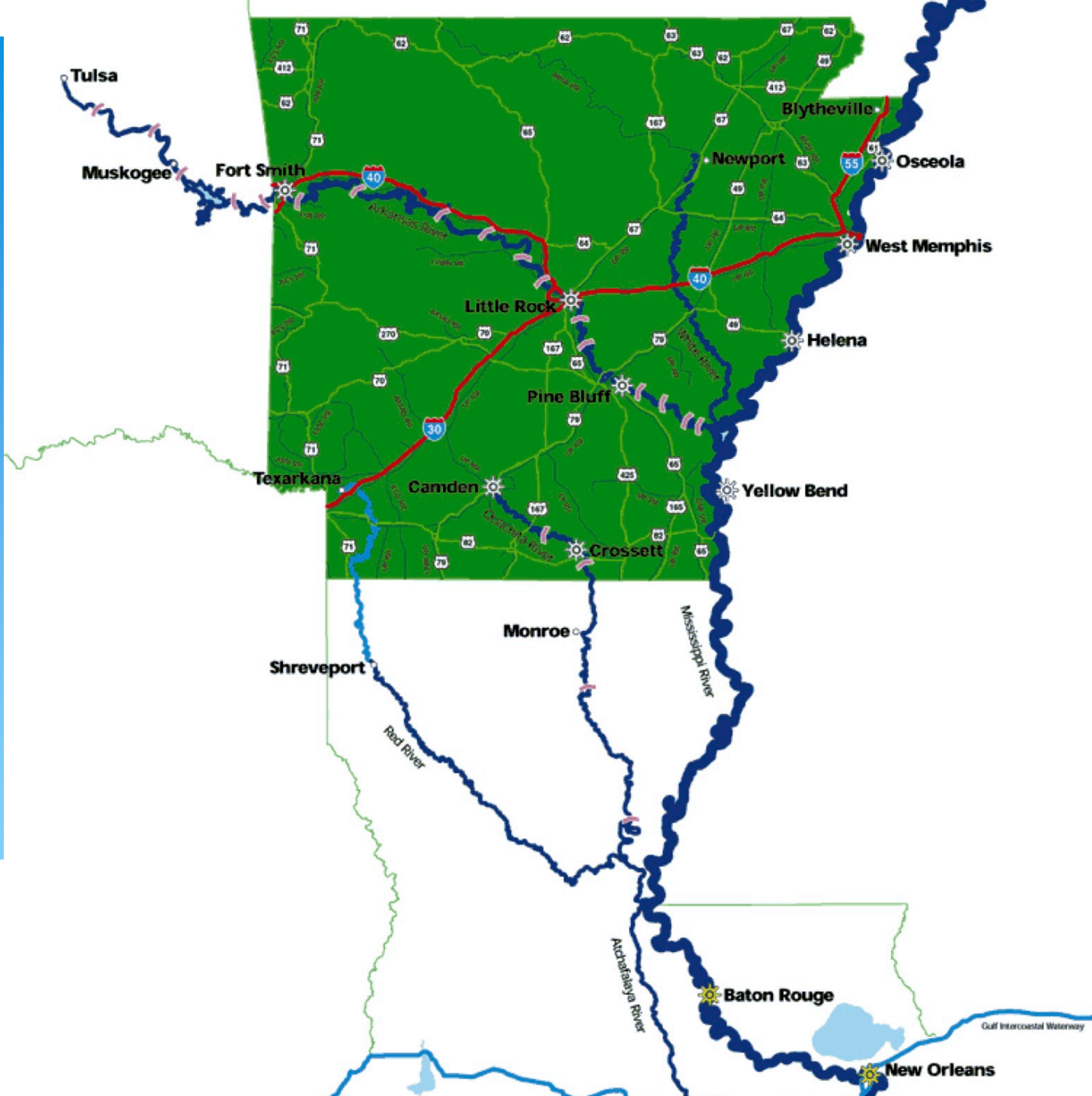
**Judge Michael Loftin**  
Ouachita River



**Harvey Joe Sanner**  
At-Large



**William Varner**  
Red River

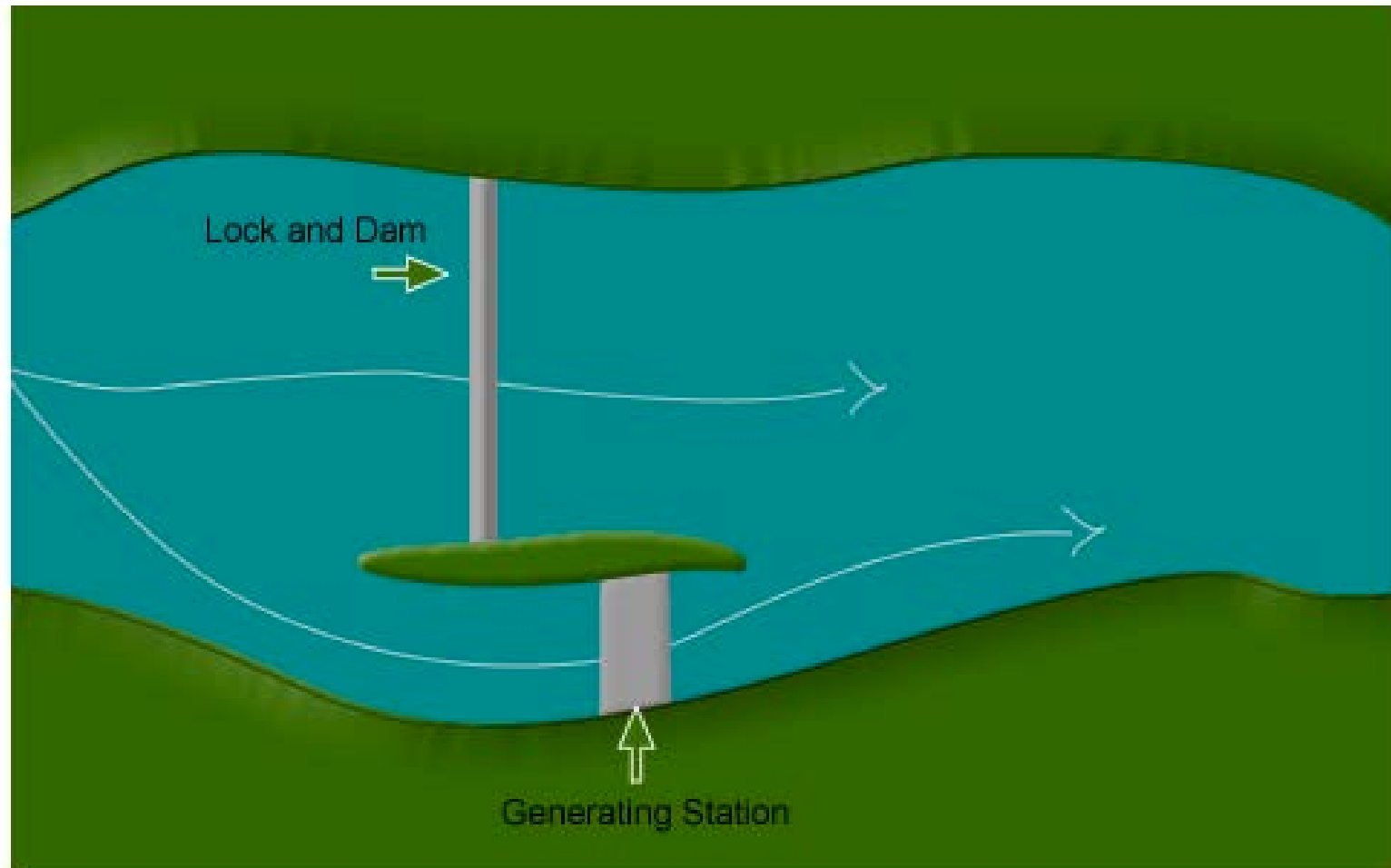


# What is hydroelectric power?

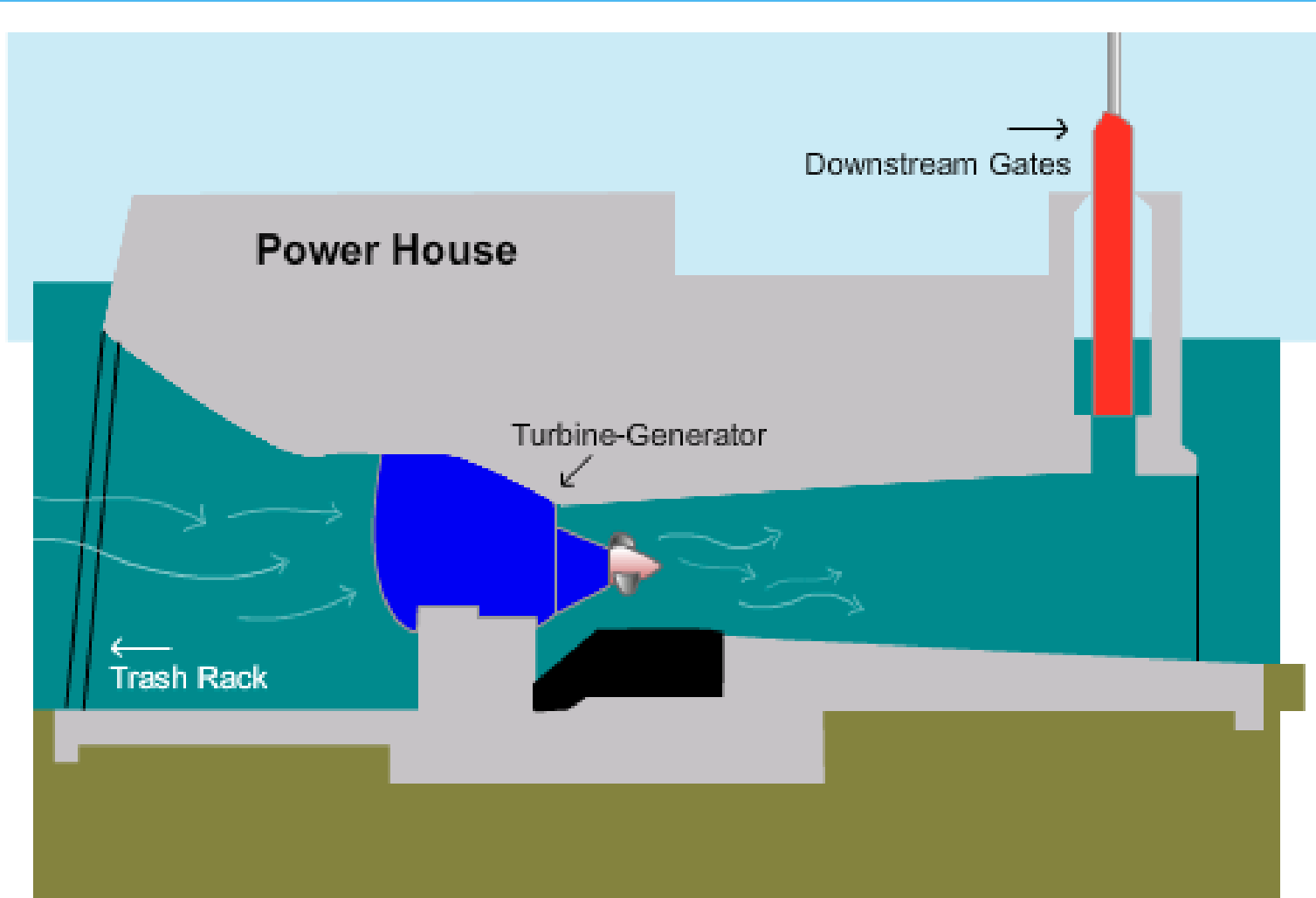
- \*Electricity produced from machines that are run by moving water



# Hydroelectric generating station



# Hydroelectric generating station



# THE 2014 NATIONAL HYDROPOWER MAP



Main map - scale 1:4,100,000  
North American Datum 1983  
USA Contiguous Lambert Conformal Conic Projection

Alaska inset map - scale: 1:10,316,153  
North American Datum 1983  
Alaska Albers Projection

Hawaii inset map - scale: 1:4,192,836  
North American Datum 1983  
Hawaii Albers Equal Area Conic Projection

### Hydrography



### US Hydropower Plants

Conventional Hydropower (CH)	CH & Pumped Storage	Pumped Storage	Plant Owner (symbol color)
○ 0 - 50 MW	△ 0 - 50 MW	▣ 0 - 50 MW	US Army Corps of Engineers
○ 50 - 300 MW	△ 50 - 300 MW	▣ 50 - 300 MW	US Bureau of Reclamation
○ 300 - 1,000 MW	△ 300 - 1,000 MW	▣ 300 - 1,000 MW	Tennessee Valley Authority
○ 1,000 - 2,500 MW	△ 1,000 - 2,500 MW	▣ 1,000 - 2,500 MW	NonFederal on USACE
○ 2,500 - 6,500 MW	△ 2,500 - 6,500 MW	▣ 2,500 - 6,500 MW	NonFederal on Reclamation
			Other NonFederal

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This map was prepared by Oak Ridge National Laboratory for the United States Department of Energy, August, 2014.

Sources: CleanTop2, Energy Information Administration, Environmental Systems Research Institute, Federal Energy Regulatory Commission, The National Atlas of the United States, National Hydrography Database, National Hydropower Asset Assessment Program, National Inventory of Dams, NHDPlus, Tennessee Valley Authority, US Army Corps of Engineers, US Bureau of Reclamation, US Geological Survey, Census for ERS, Water Boundary Dataset.



# Hydropower plants in Arkansas

\*6 plants operated on the MKARNS by:

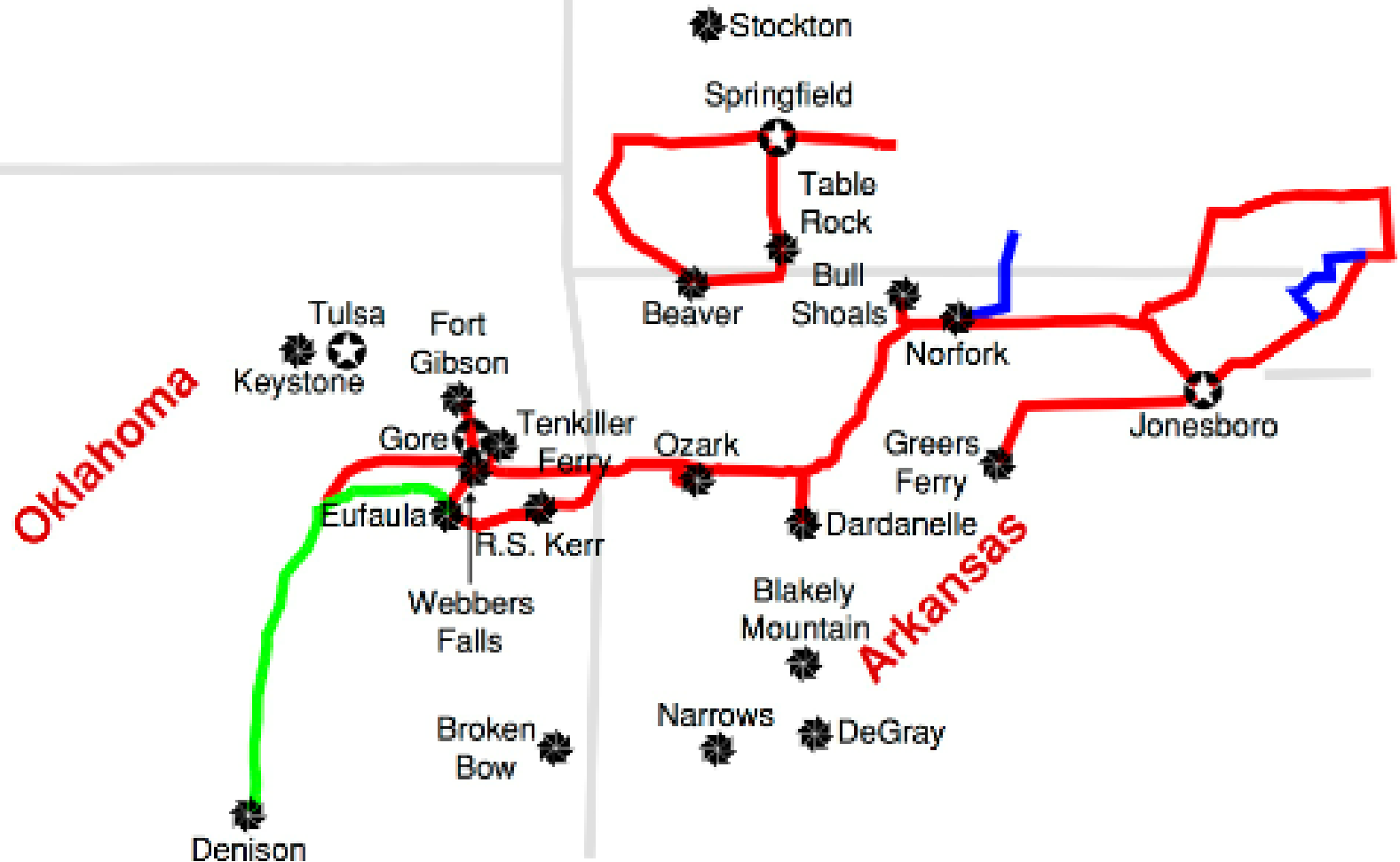
City of North Little Rock

Electric Cooperatives

US Army Corps of Engineers



# Hydropower plants in Arkansas



# City of North Little Rock plant

\* Murray, Lock 7 - 45.4 MW



# AECC plants

- \* Dam 2, Dumas

Mills 102MW

- \* Ormond L&D, Morrilton

Whillock 32.4 MW

- \* Trimble L&D, Van Buren

Ellis 32.4 MW



# USACE plants

- \* Ozark, Lock 12 - 100MW
- \* Dardanelle, Lock 10 - 160.8MW



# Other rivers

## \* Red River – Future Development

## \* Ouachita River

Entergy -Rommel Dam (Lake Catherine) 12MW

Entergy - Carpenter Dam (Lake Hamilton)

62MW

Corps – Blakely Mountain (Lake Ouachita)

84MW



# Questions?



**Gene Higginbotham**  
**Executive Director**

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