Southwestern Power Administration

Overview of Southwestern's operations in the Red River Basin

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SOUTHWESTERN POWER ADMINISTRATION

Southwestern Power Administration

- Federal agency under the U.S. Department of Energy
- Congressionally authorized by Section 5 of the 1944 Flood Control Act
- One of Four Power Marketing Administrations in the United States

Southwestern Power Administration

- Markets power generated at 24 Federal, multi-purpose hydropower projects operated by the U.S. Army Corps of Engineers (Corps).
- Power is cost-based, wholesale power to preference customers: cooperatives(21), municipalities(78), and military bases(3).
- Over 8 million end-users in 6 states
- Operates 1,380 miles of high-voltage transmission line, 26 substations, and 46 communications sites.


Missouri
Clarence Cannon
Kansas
Harry S. Truman
Stockton
Springfield
Table Rock
Webbers Falls
Tenkiller Ferry
Keystone
Fort Gibson
Norfork
Beaver
Bull Shoals
Oklahoma
Tulsa
Jonesboro
Ozark
Greers Ferry
Gore
Robert S. Kerr
Dardanelle
Eufaula
Blakely Mountain
Broken Bow
Degray
Texas
Narrows
Arkansas
Denison
LEGEND
Office Locations
Power Projects
Transmission Lines
Customer Locations
Louisiana
Whitney
Sam Rayburn
Robert D. Willis

Southwestern is not…

- Southwestern Electric Power Company (SWEPCO)

  -investor owned utility in Shreveport

- Southwest Power Pool (SPP)

  -regional transmission organization for 14 states

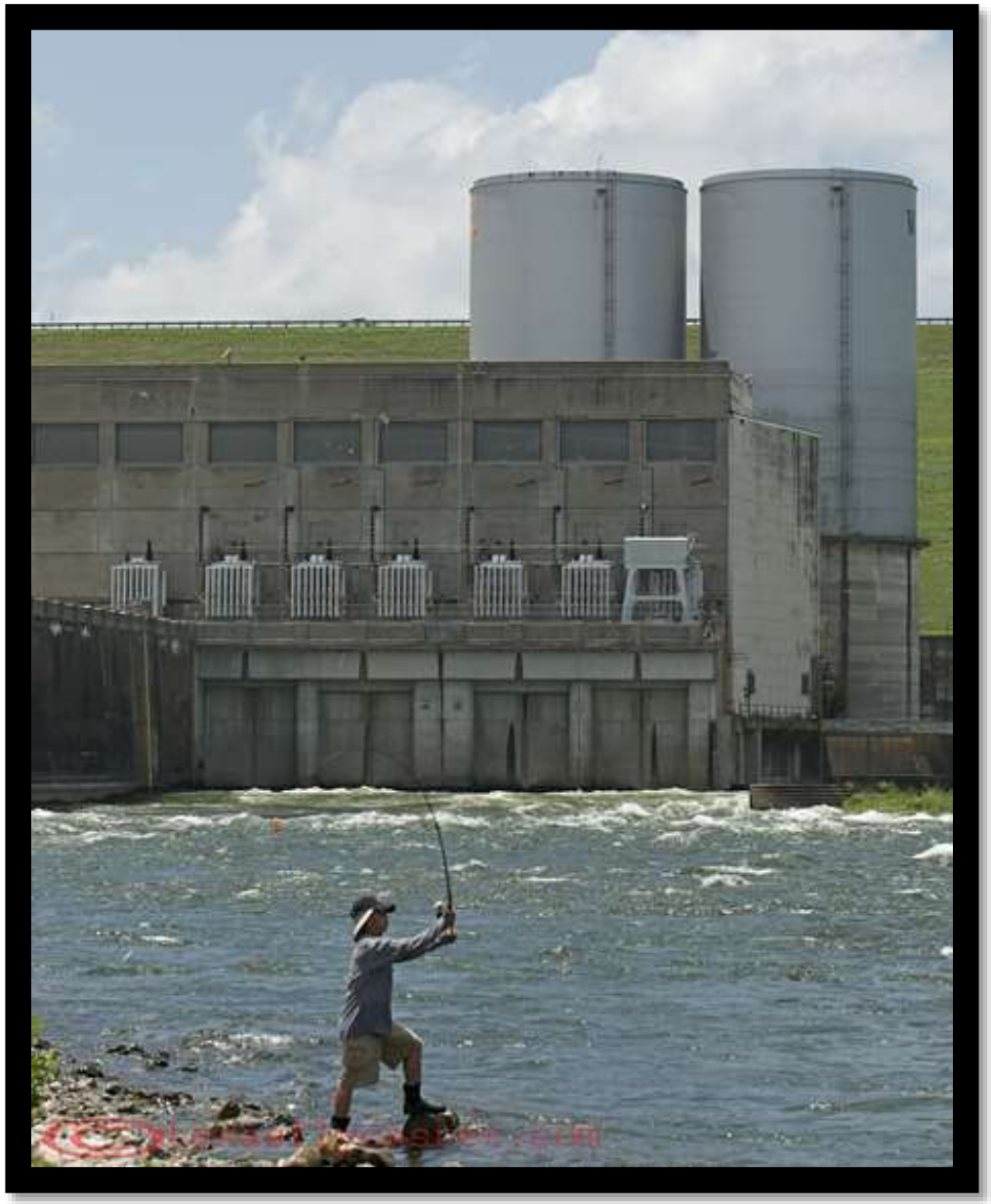
- A power company

  -Southwestern is a not-for-profit Federal agency that markets power to not-for-profit preference customers

Southwestern's Federal Power System – Original Investment

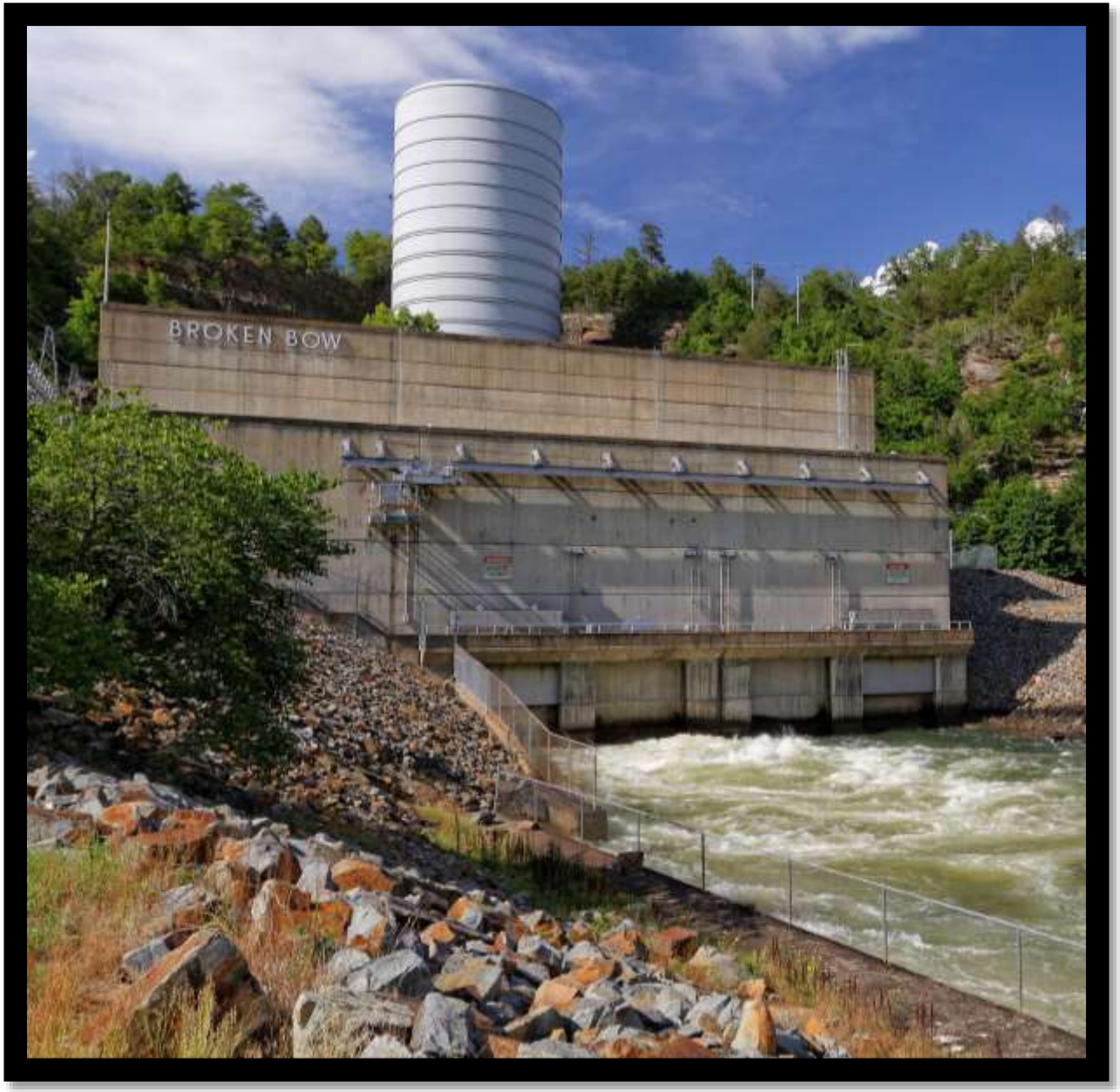
- Southwestern repays the Federal Investment
- Total estimated Repayment through FY2016 is $5.3 Billion:
  - Investment $1.2 Billion
  - Interest $0.9 Billion
  - O&M $3.2 Billion
- $199 Million current estimated annual revenue to recover:
  - Initial construction costs plus interest
  - Annual operation and maintenance
  - New replacement equipment and interest

Lake Texoma (Denison Dam)



- Powerhouse online in 1945
- 80.5 MW capacity powerhouse
- 219,000 MWh estimated annual energy
- $6.4 Million estimated annual revenue
- $15.4 Million estimated annual benefits

Broken Bow



- Powerhouse online in 1970
- 115.0 MW capacity powerhouse
- 129,000 MWh estimated annual energy
- $7.0 Million estimated annual revenue
- $15.3 Million estimated annual benefits

Blakely Mountain (Lake Ouchita)

- Powerhouse online in 1956
- 75 MW capacity powerhouse
- 169,000 MWh estimated annual energy
- $6.02 Million estimated annual revenue
- $14.6 Million estimated annual benefits

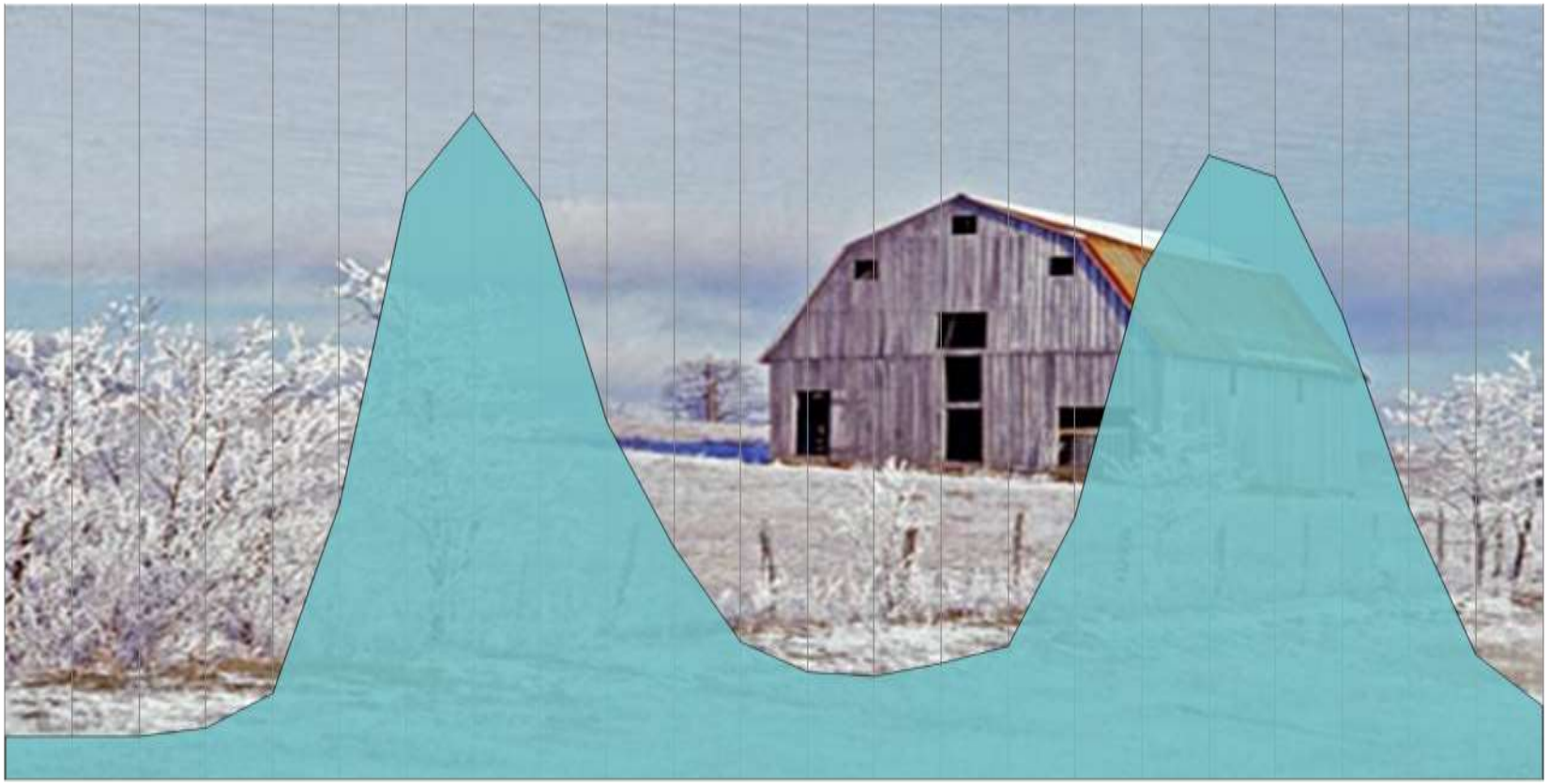
Degray Lake

- Powerhouse online in 1972
- 68.0 MW capacity powerhouse
- 97,000 MWh estimated annual energy
- $4.97 Million estimated annual revenue
- $11.3 Million estimated annual benefits

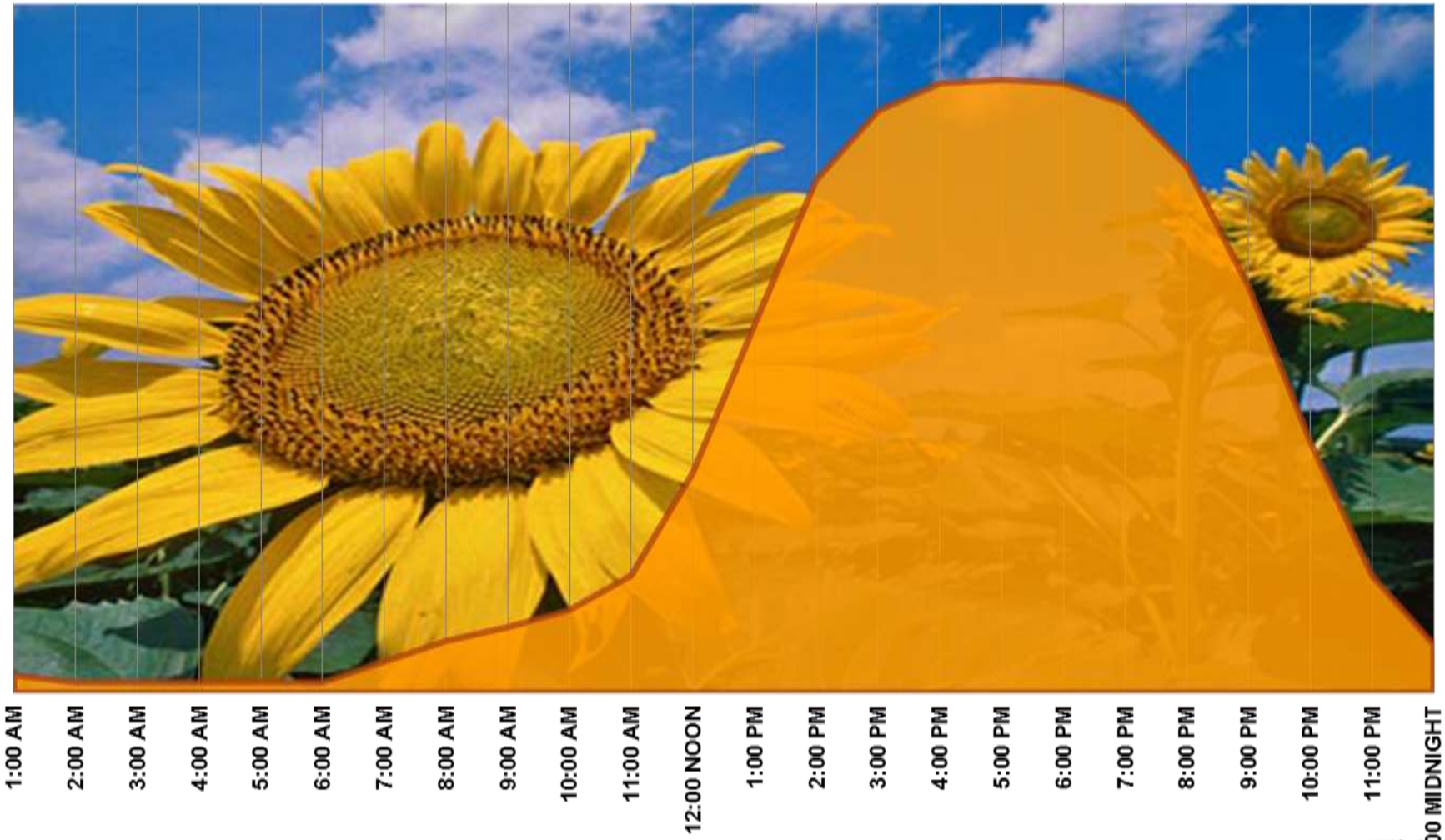
Narrows (Lake Greeson)

- Powerhouse online in 1950
- 25.5 MW capacity powerhouse
- 30,000 MWh estimated annual energy
- $1.65 Million estimated annual revenue
- $4.2 Million estimated annual benefits

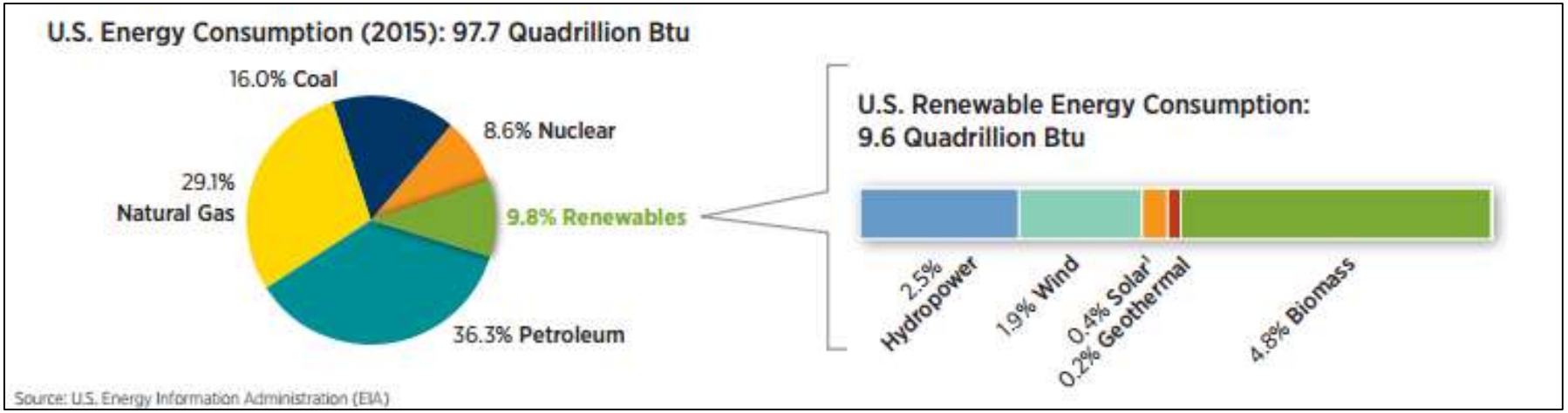
Winter Peaking Loads



Summer Peaking Loads



Renewable Energy



- Hydropower plays a significant role (25%) in the Nation's renewable resources.
- The ability to dispatch hydropower on demand is significant when other renewable energy options are considered.

Estimated Greenhouse Gas Emissions Offset per year

	24 Projects
Tons Carbon Dioxide	4.6 Million

Estimated Fuel to Produce Equivalent Energy per year

	24 Projects
Barrels of Fuel Oil, or	9.7 Million
Tons of Coal, or	3.0 Million
Cubic feet of Natural Gas	44.7 Billion

Questions?

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