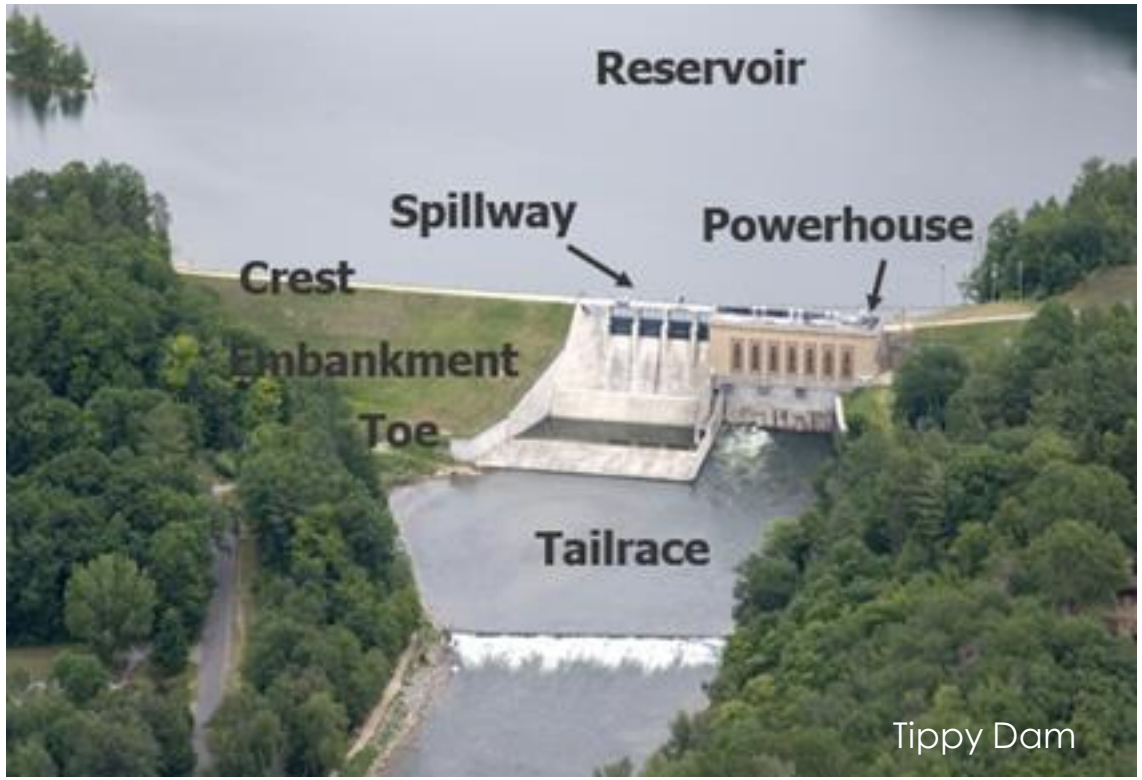
Alcona Dam

Alcona Dam

River Hydro Asset Key Terms

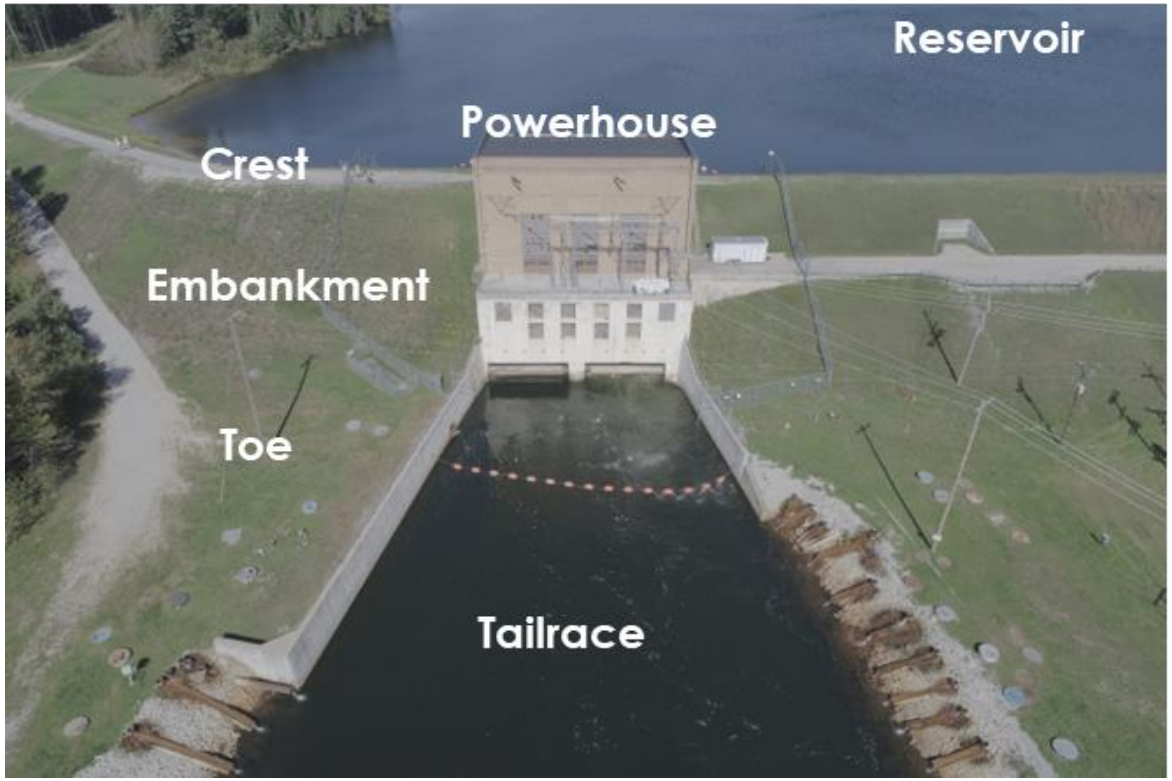
Definitions/purpose of the major components and aspects critical of safe, compliant, and reliable operations:

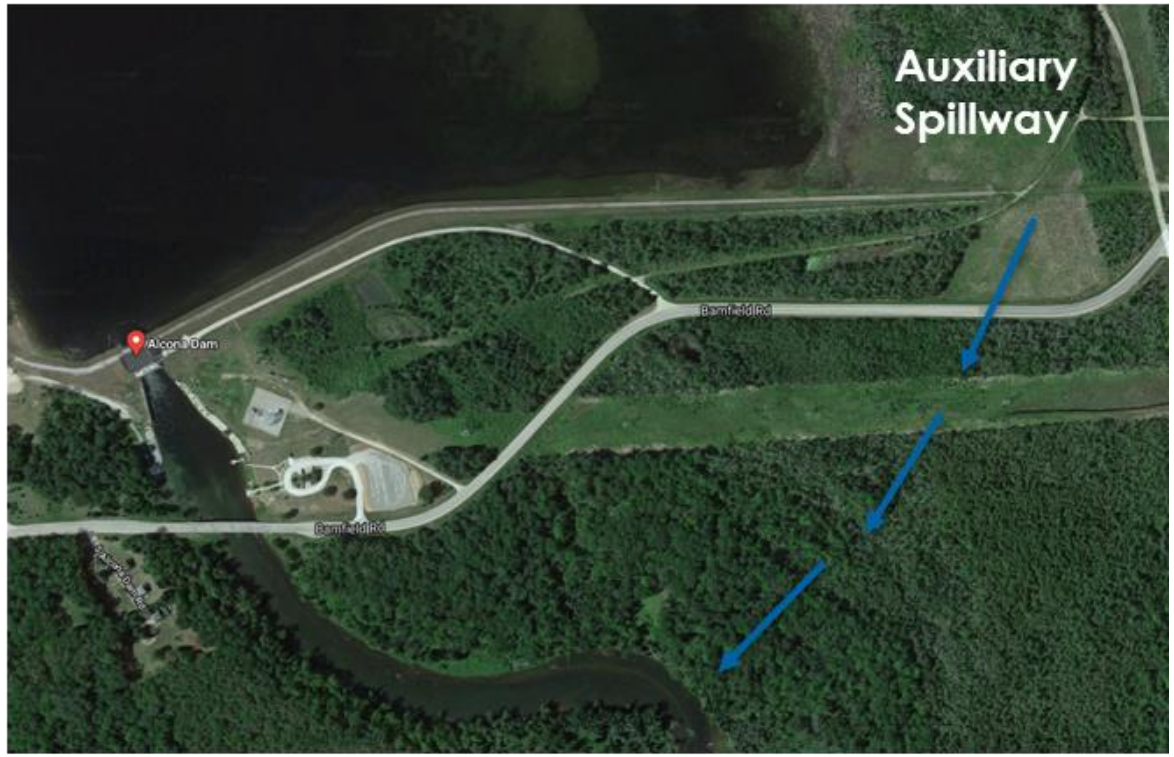
- **Dam:** The entire barrier to hold back the water (reservoir) typically consists of embankments, spillways, and powerhouse
- **Spillway:** Primary location for water flow when not used for generation
- **Powerhouse:** Location of generation units
- **Embankment:** Earthen barrier to hold back the reservoir, which contains a hydraulic barrier (core wall)



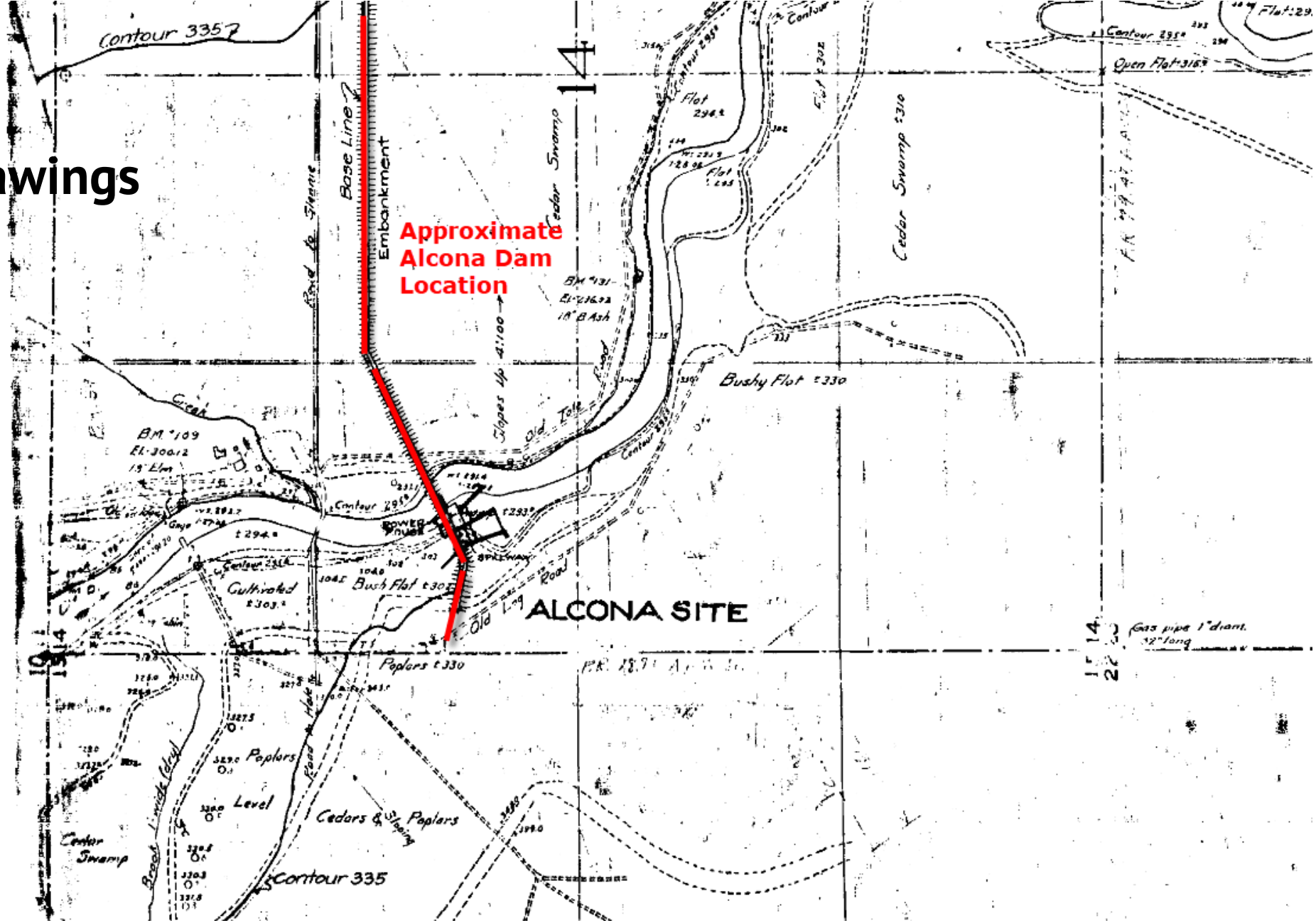
Tippy Dam

Alcona Dam Structures





Original Survey Drawings for Alcona Dam



Alcona Hydro

- With a capacity of 8,000 kilowatts, construction started on the hydro in 1917.
- The project stalled due to unstable sand and World War I.
- Construction resumed in 1923 and began commercial operation in 1924.
- Alcona Park, on the Alcona Pond, is 1,110 acres has more than 450 campsites.
- Alcona Dam is a run-of-river dam with a height of 60 feet.

General Information: Alcona Dam

FERC License Expiration Date: June 30, 2034

Dam Height (ft.): 60

Length of Dam (ft.): 4,820

Drainage Area (sq. miles): 1,469

Impoundment Area (acres): 1,075

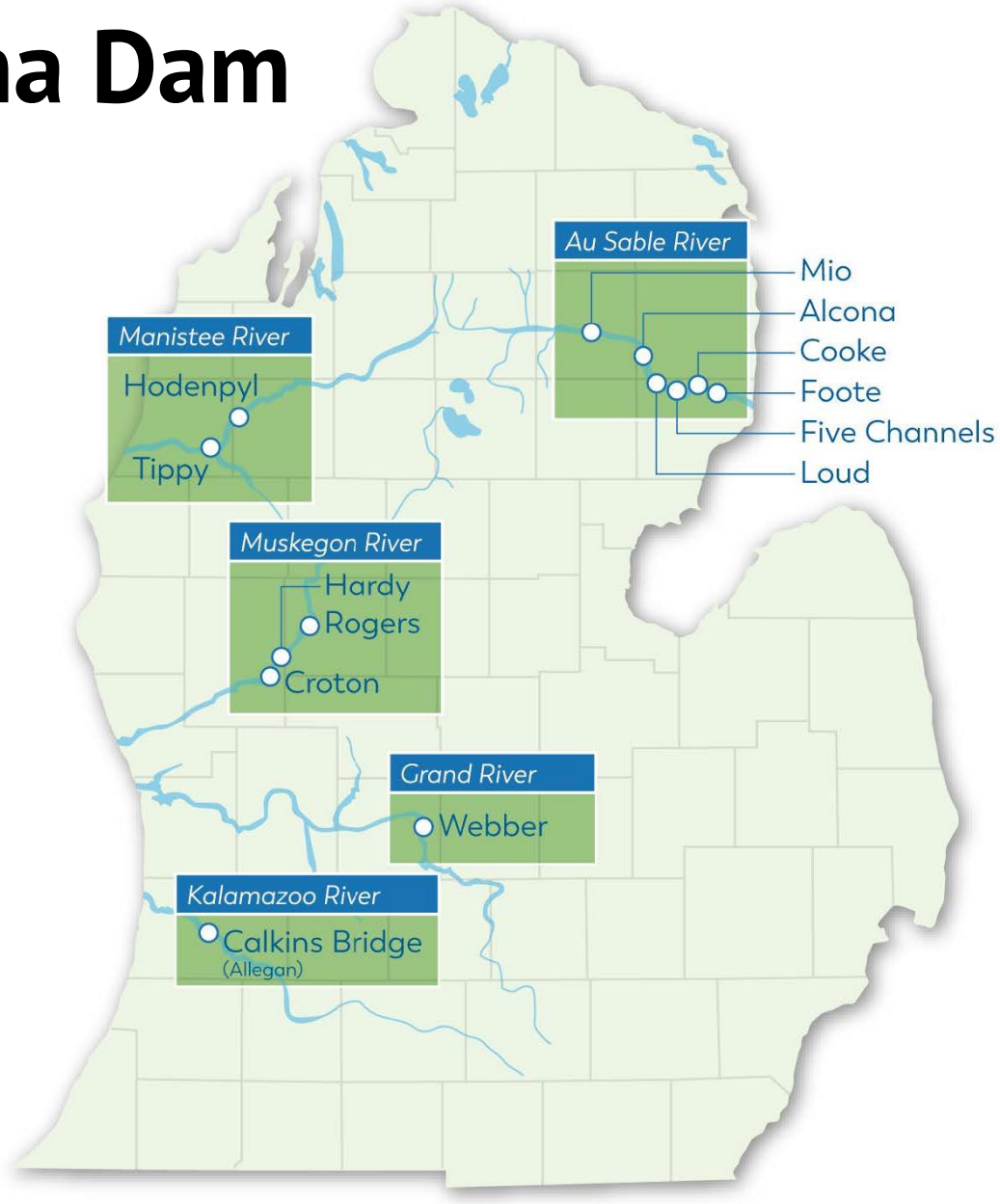
Age (years): 98

FERC Hazard Classification: High*

Approximate Population at Risk: <800

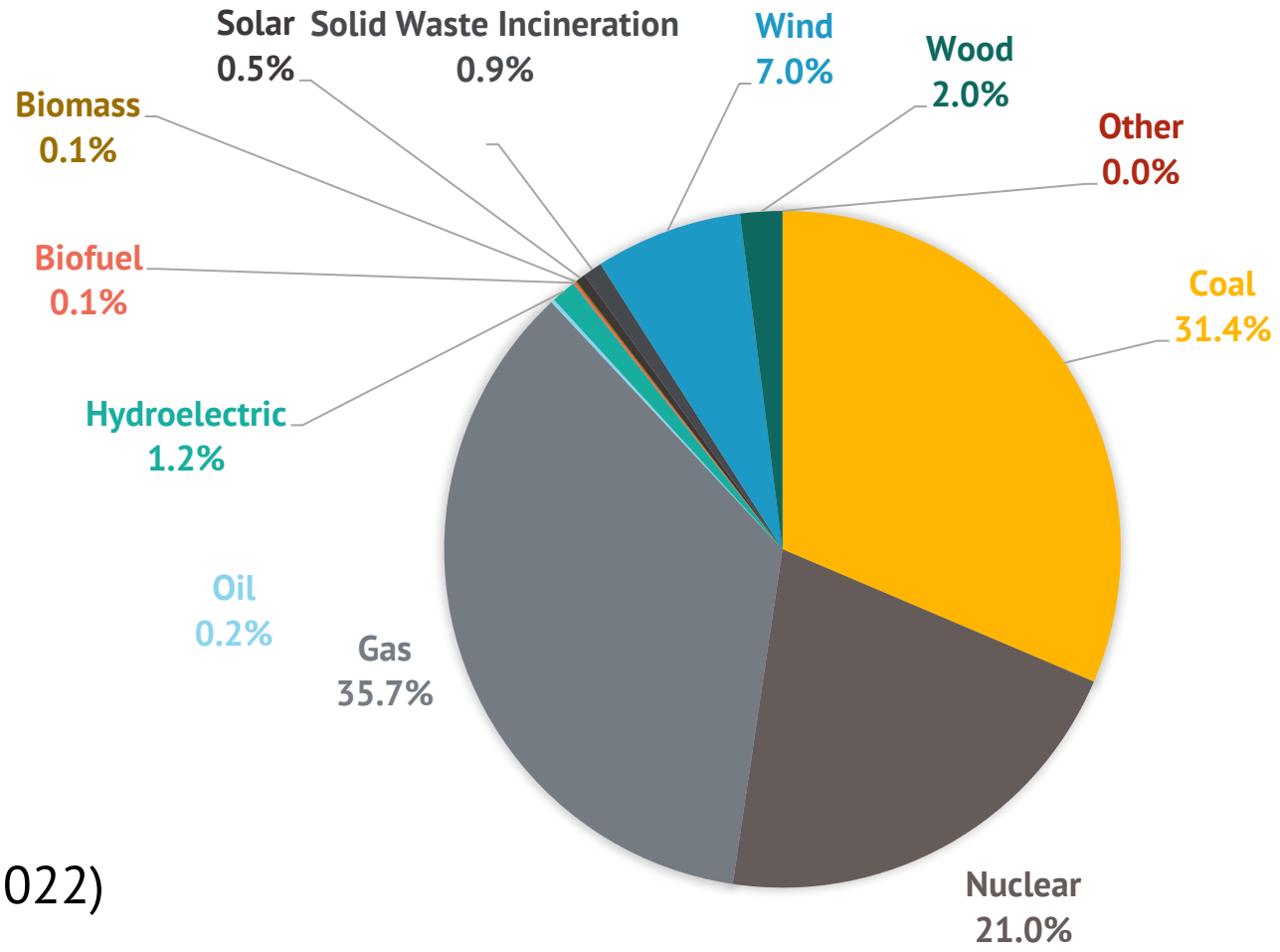
Approximate Recreation Use:

- 86,000 visitors annually
- 4 boat launches
- >450 campsites
- Popular destination for fishing and camping



**FERC assigns "high" to structures where failure or misoperation will probably result in loss of human life.*

Percentage of Fuel Type Used to Produce Consumers Energy's Total Electricity



(Apr 2021-Mar 2022)

PSC