

Municipal Light & Power: AEDC working group

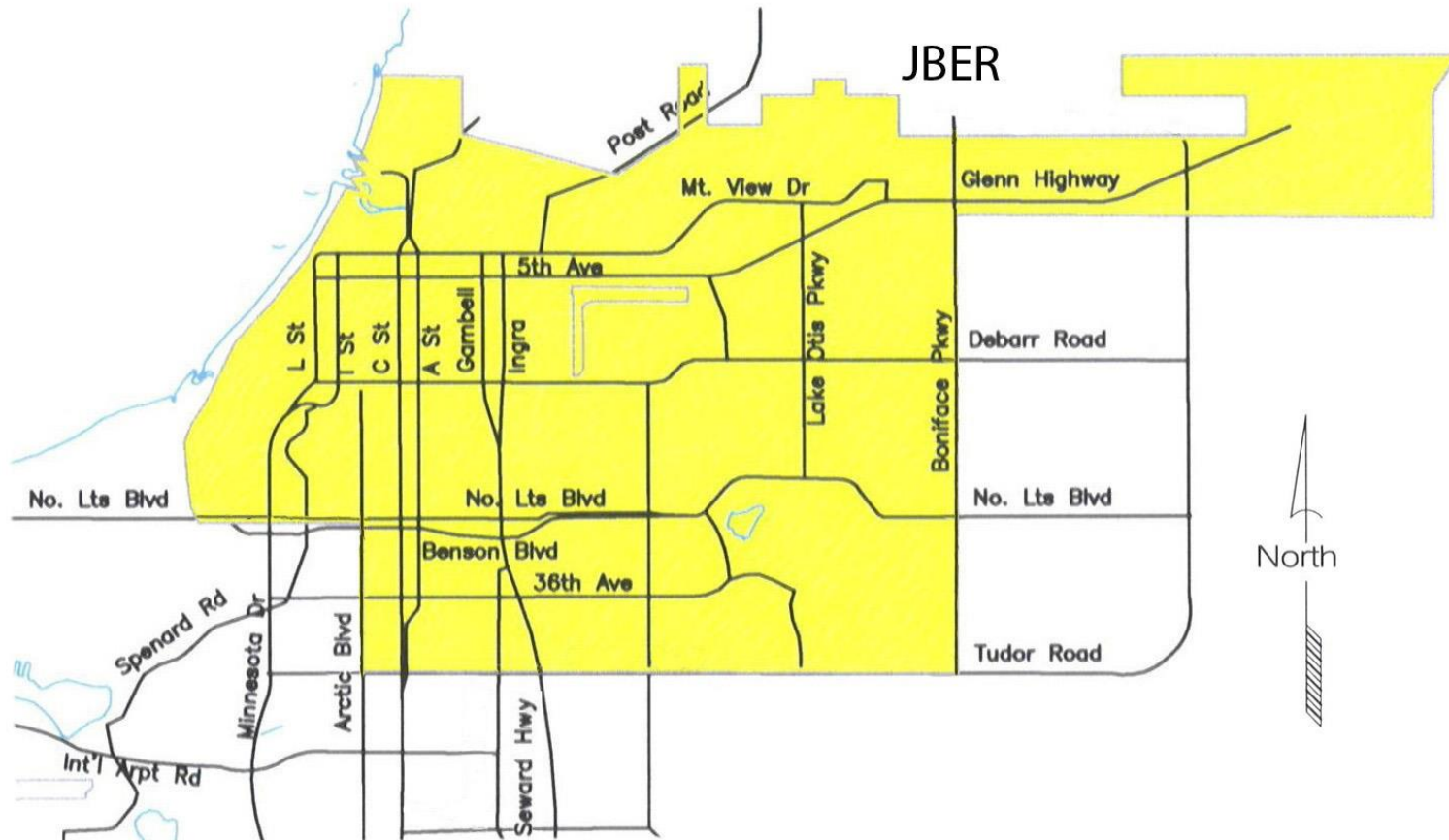
Mark Johnston, General Manager



www.mlandp.com

ML&P snapshot

- Municipally owned & Regulated by RCA
- First fully integrated utility in Alaska

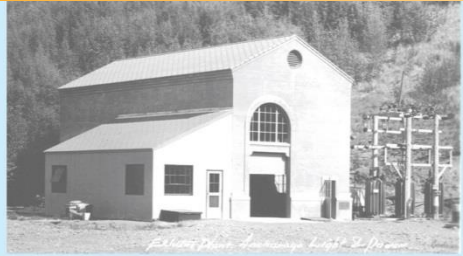


ML&P snapshot

- 30,800 residential and commercial customer
- 288.5 MW thermal generation capacity
- 233 employees
- 26 miles transmission line
- 371 miles of distribution line



ML&P History

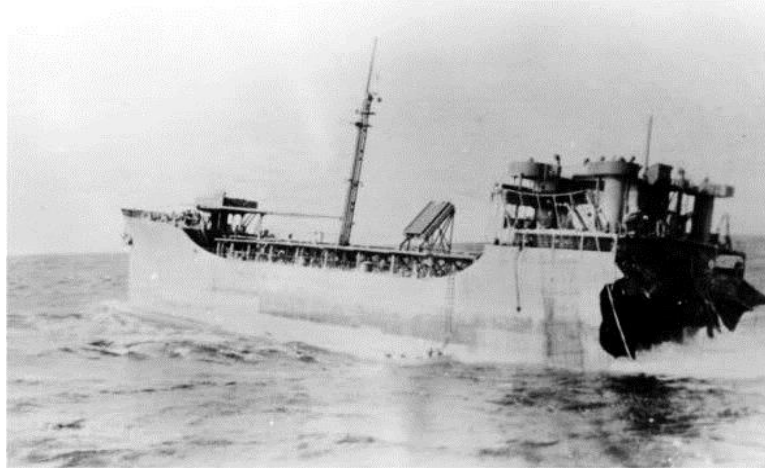


Municipal Light & Power is created when the city purchases the distribution system from the Alaska Engineering Commission for \$11,351. The city contracts for wholesale power from Anchorage Light and Power Co., which had been operating the Little Eklutna Hydroelectric Plant since 1929.

1932

1943

Anchorage voters approve a \$1 million purchase of Anchorage Light and Power Co. generating facilities. Anchorage Public Utilities Commission is formed to operate.



1947

The APUC purchases Sacketts Harbor to generate electric power. The ship was a 10,000-ton T2 tanker with electric motor that had broken up in the Aleutian Islands. The Sacketts Harbor furnishes 54 percent of the city's power requirements until it was sold in 1955 for \$100,000.

1962

ML&P installs Unit 1, the state's first gas-fired turbine, rated at 15,130 kW.

ML&P builds a diesel plant on 1st Avenue, the site of the existing Hank Nikkels Plant One, with one unit of 1,136 kilowatts. Two additional diesel units were installed in succeeding years.

1949

1964

Good Friday Earthquake at 5:36 p.m. on March 27. At Eklutna, two circuit breakers are severely damaged. Generators went off-line. One generator restarted about 30 minutes after the quake and electricity began flowing to Anchorage within five hours.



ML&P History

ML&P, Chugach Electric Association and Matanuska Electric Association jointly purchase the Eklutna Hydroelectric Project from the federal government.

1996

1996

ML&P purchases a one-third working interest in the Beluga River Gas Field from Shell Western. ML&P's long-term gas contracts expire Dec. 31, 2005, paving the way for the utility to use its own share of Beluga River natural gas to meet all but its peaking needs, resulting in much lower fuel prices for customers.



2011

ML&P's first non-utility net metering installations went online with wind and solar projects, following regulations adopted by the Regulatory Commission of Alaska in 2010.



ML&P stores 600 million cubic feet of natural gas in the newly opened Cook Inlet Natural Gas Storage Alaska facility. CINGSA is an added insurance policy to ensure adequate supplies of natural gas during long, cold winters.



2012

Southcentral Power Project online. The 70/30 partnership between CEA/ML&P provides 183-megawatts of power.

2013

2014

(April) ML&P breaks ground on new Plant 2A generation expansion project. The 120-megawatt plant is expected to be online in 2016.



1975

George M. Sullivan Plant 2 online with Unit 5 gas-fired turbines



Hydroelectric

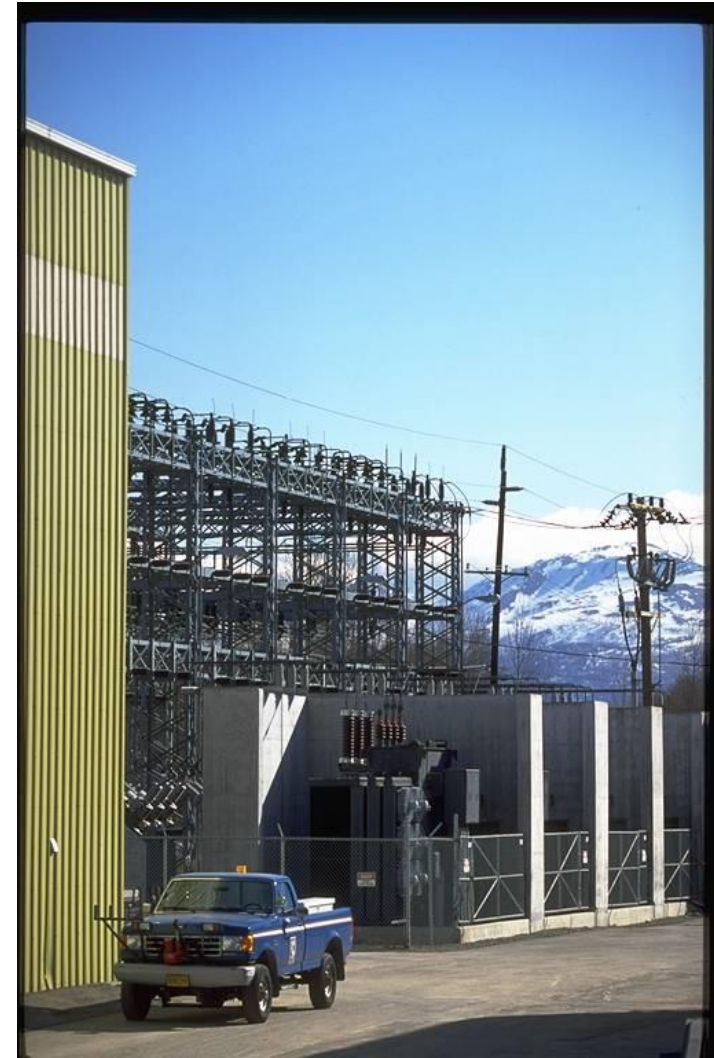
- Eklutna: ML&P ownership: 53.33% (24 MW)
- Bradley Lake: ML&P has rights to 29.5% (31 MW)
- Renewables are 18% of total generation capacity



Hank Nikkels Plant 1

Unit	Commissioned	Capacity
1	1962	Retired 2016
2	1964	Retired 2016
3	2007	32.9 MW
4	1972	33.6 MW

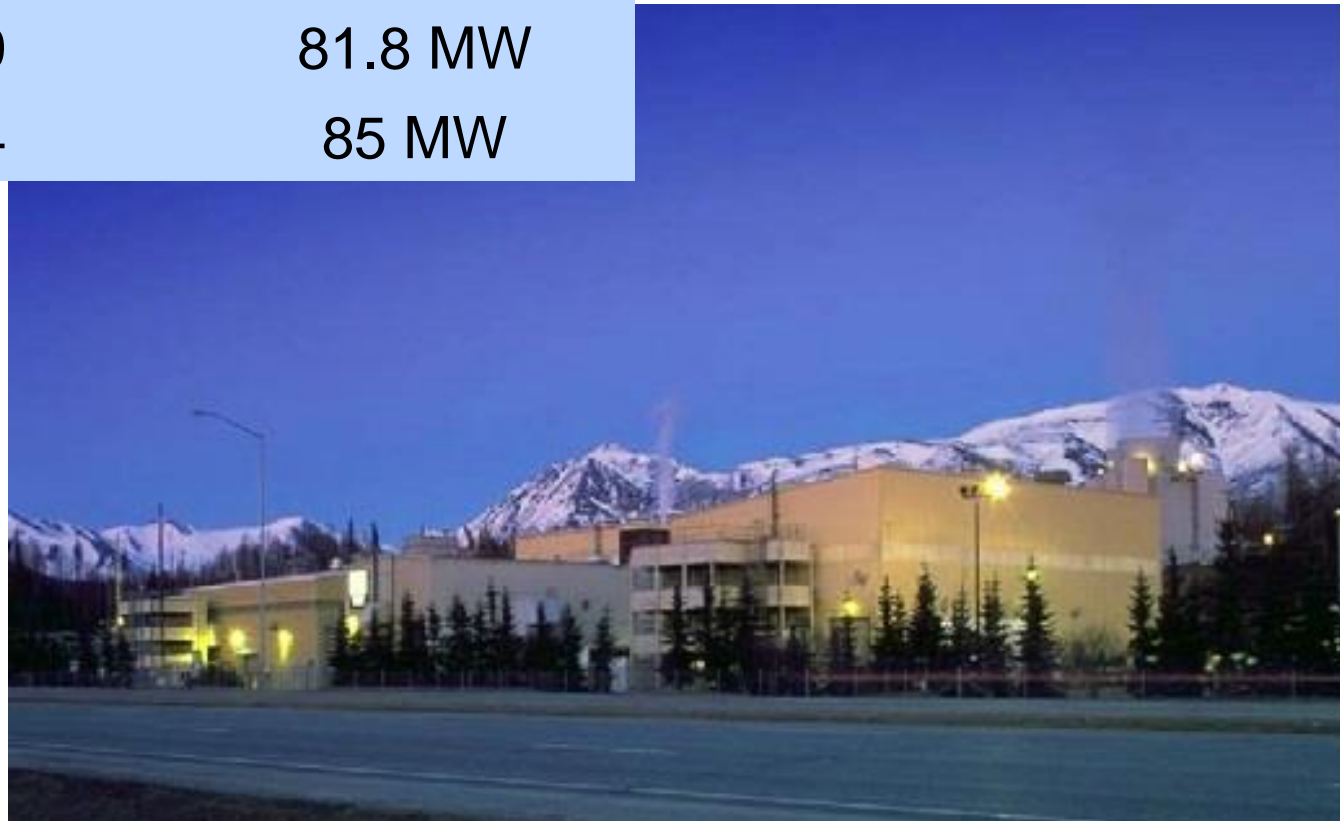
Total: 66.5 MW



George M. Sullivan Plant 2

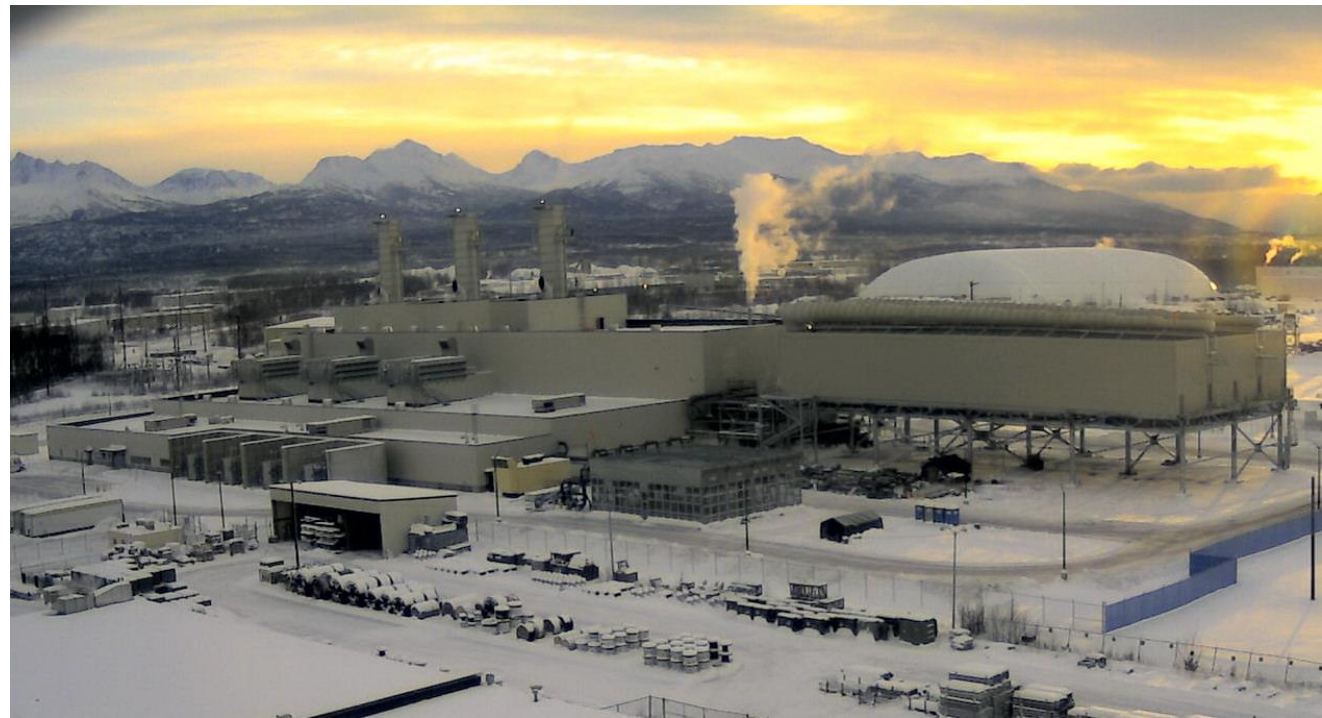
Unit	Commissioned	Capacity
5	1975	Retired 2016
6	1979	Retired 2016
7	1979	81.8 MW
8	1984	85 MW

Total: 166.8 MW



Southcentral Power Project (2013)

- 183 MW
- Chugach: 70% interest (128 MW)
- ML&P: 30% interest (55 MW)
- 25% more efficient than previous generation



Plant 2A (2016)

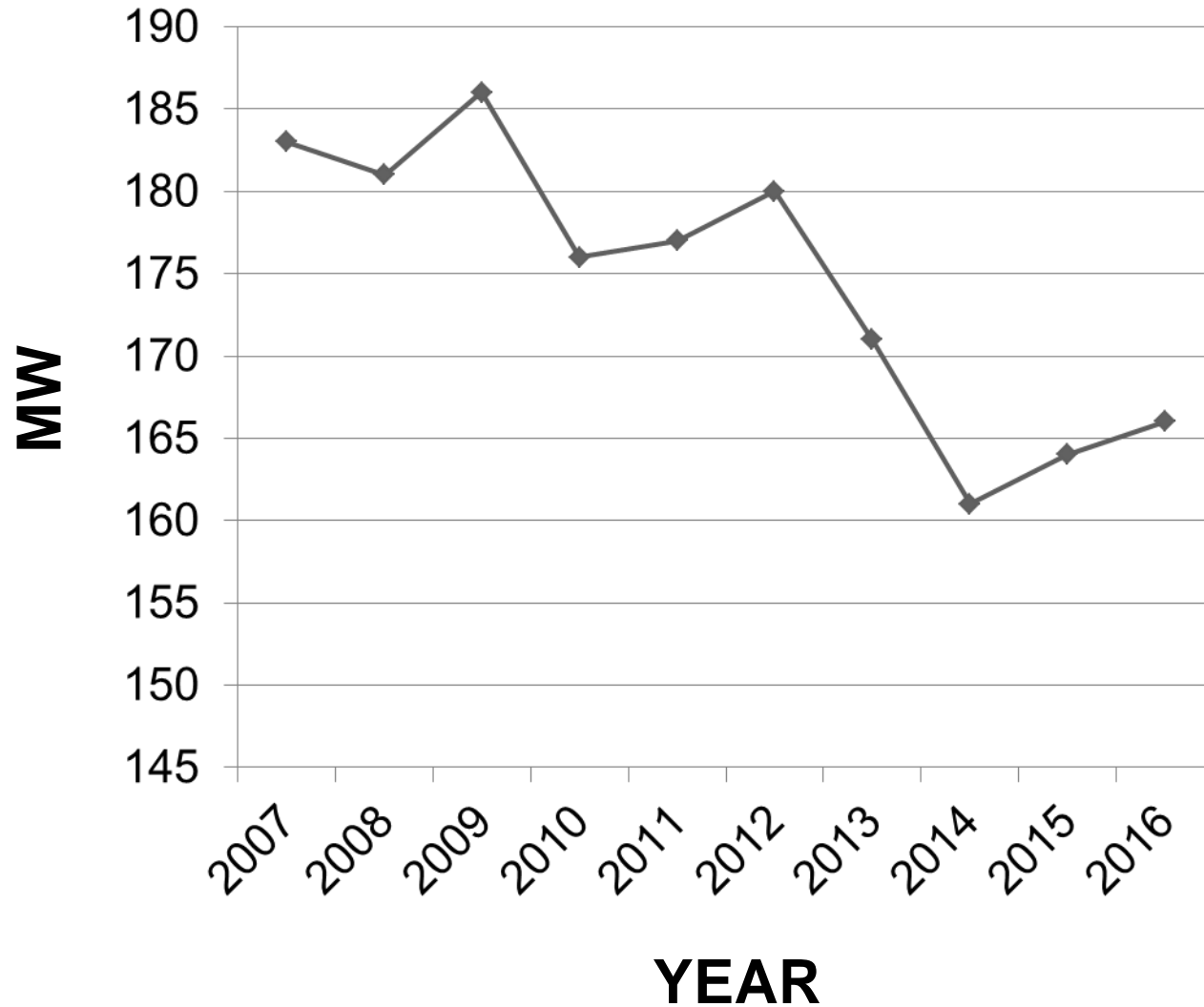
- Approximately \$300 million
- 120 MW
- Benefits: fuel savings, economy energy sales and collocated with Anchorage water supply



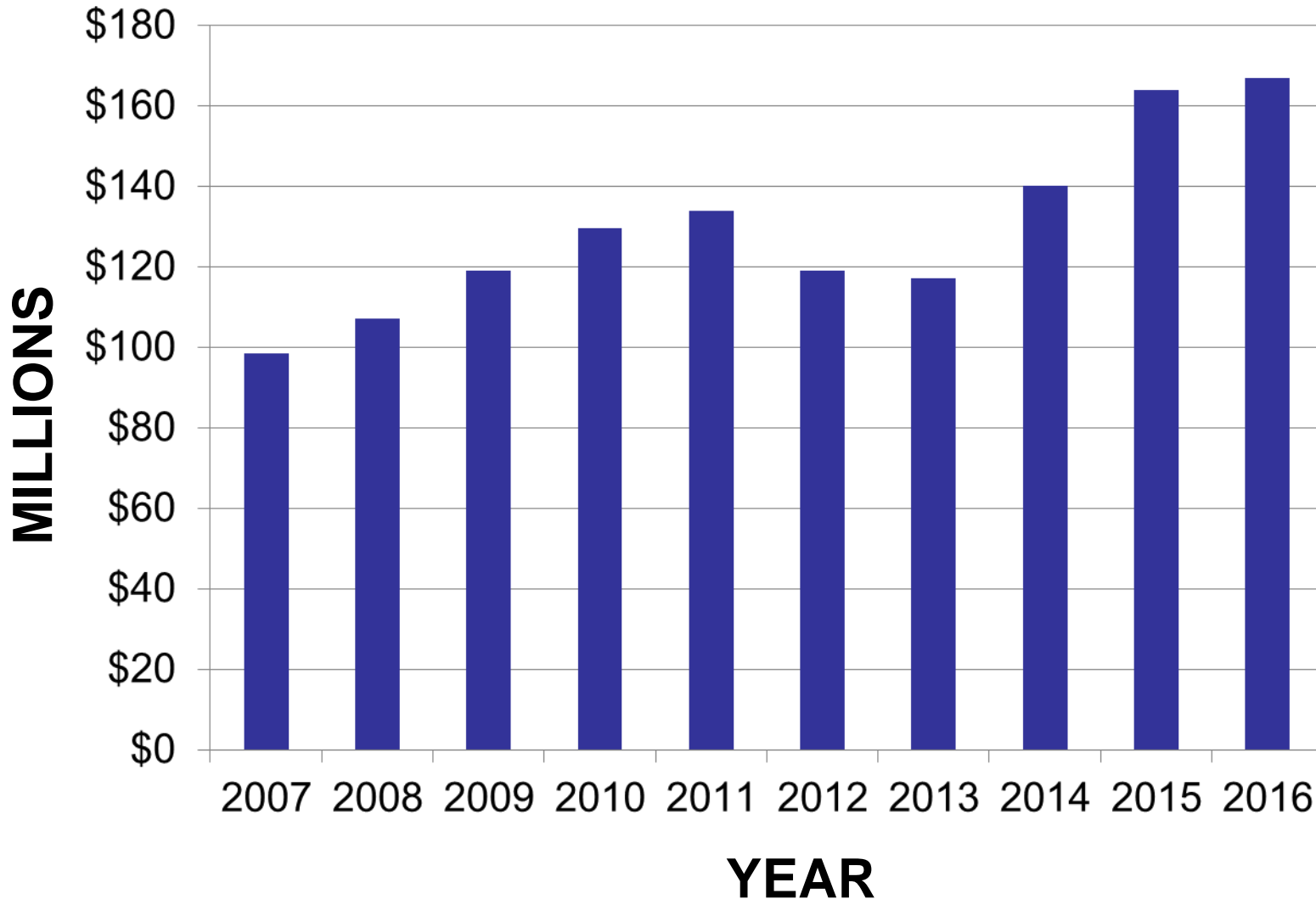
Beluga River Unit

- ML&P: 56.67% interest
- Chugach: 10% interest
- Long-term natural gas supply
 - Two decades
- Protects customers from future natural gas price volatility

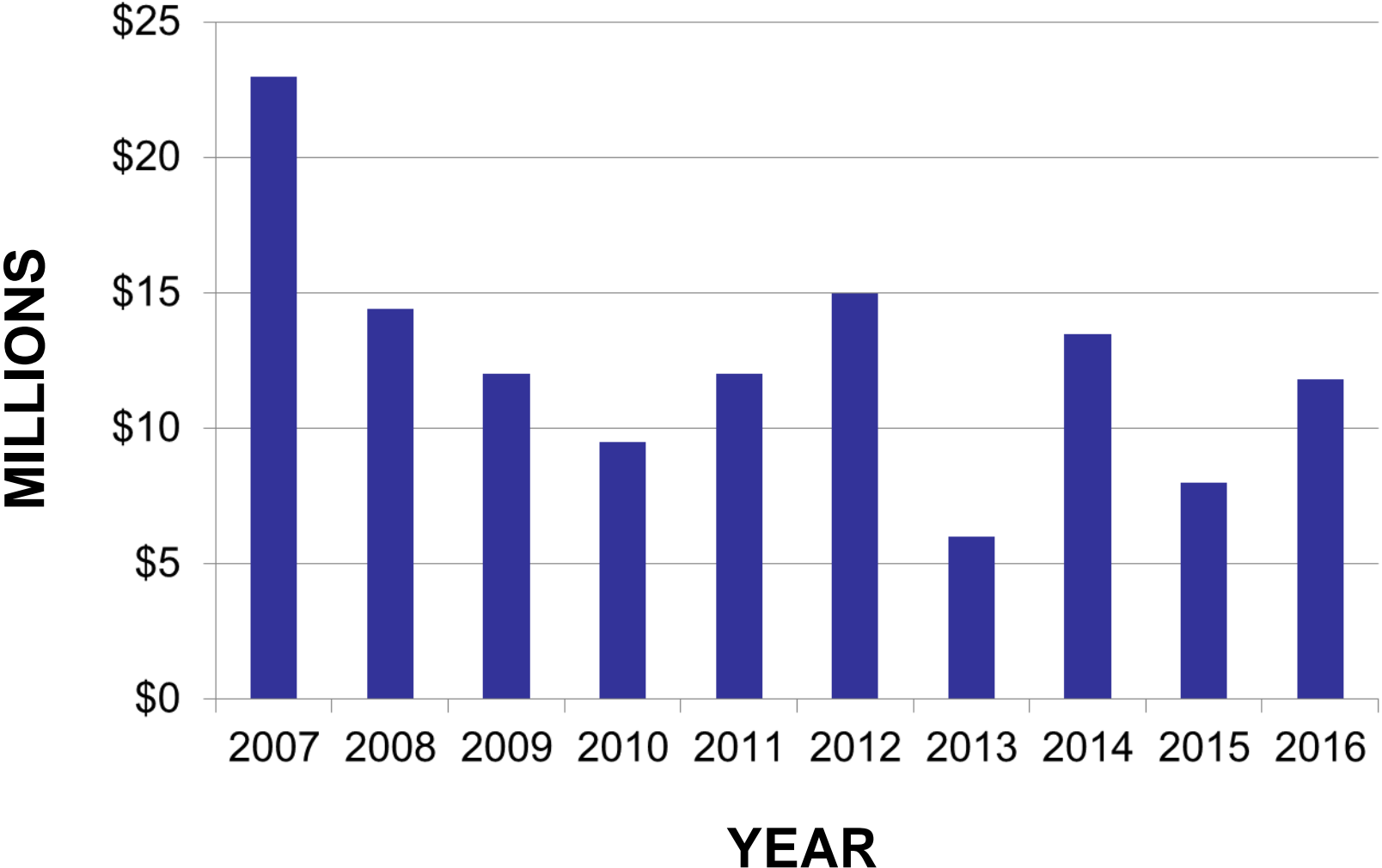
ML&P Peak Load



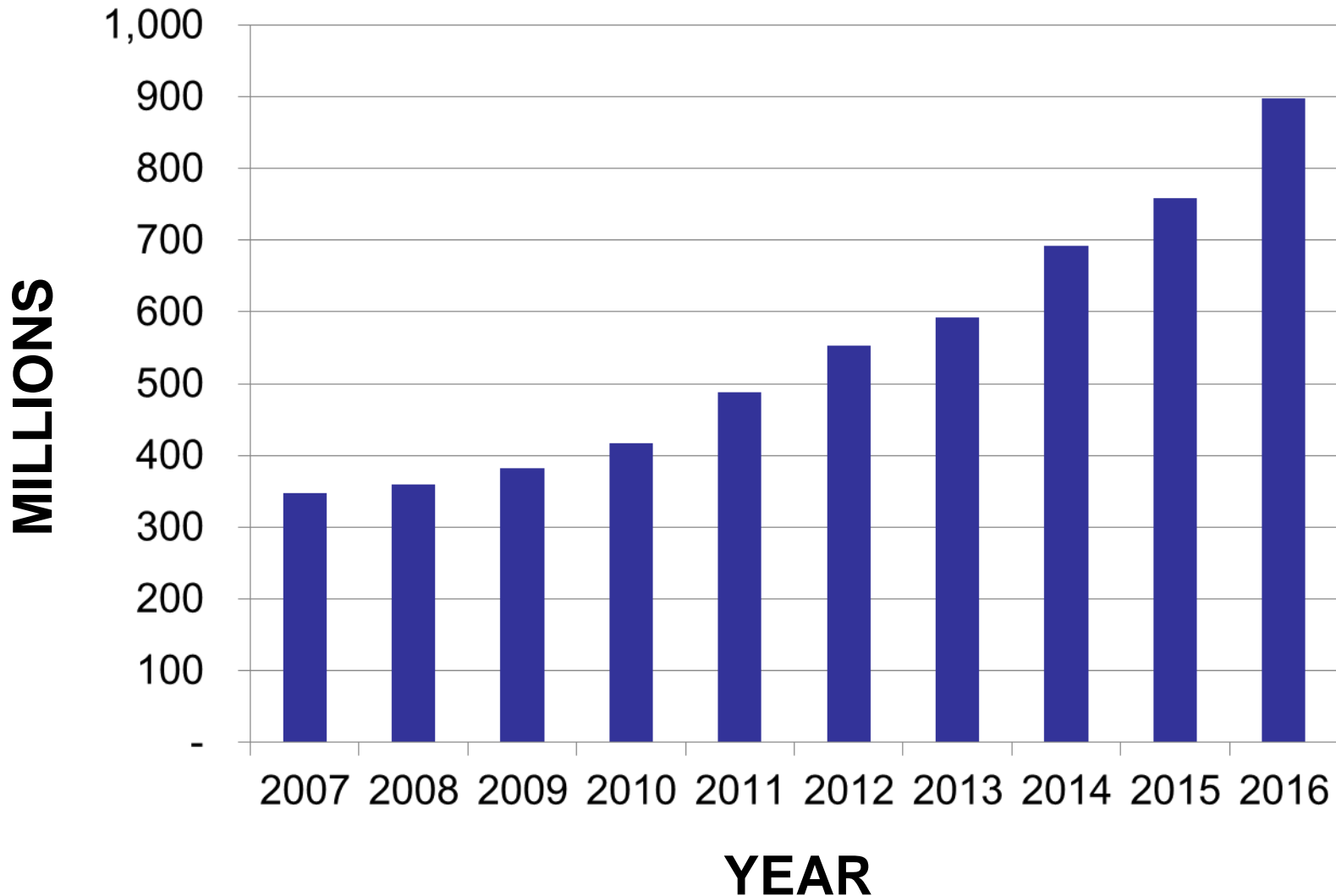
ML&P Operating Revenue



ML&P Net Income



ML&P Capital Assets



What's next at ML&P?

- Distributed Generation
- Smart LED Street Light conversion
- Smart Meters

