



## Hydro Benchmarking in EUCG

The Hydroelectric Productivity Committee

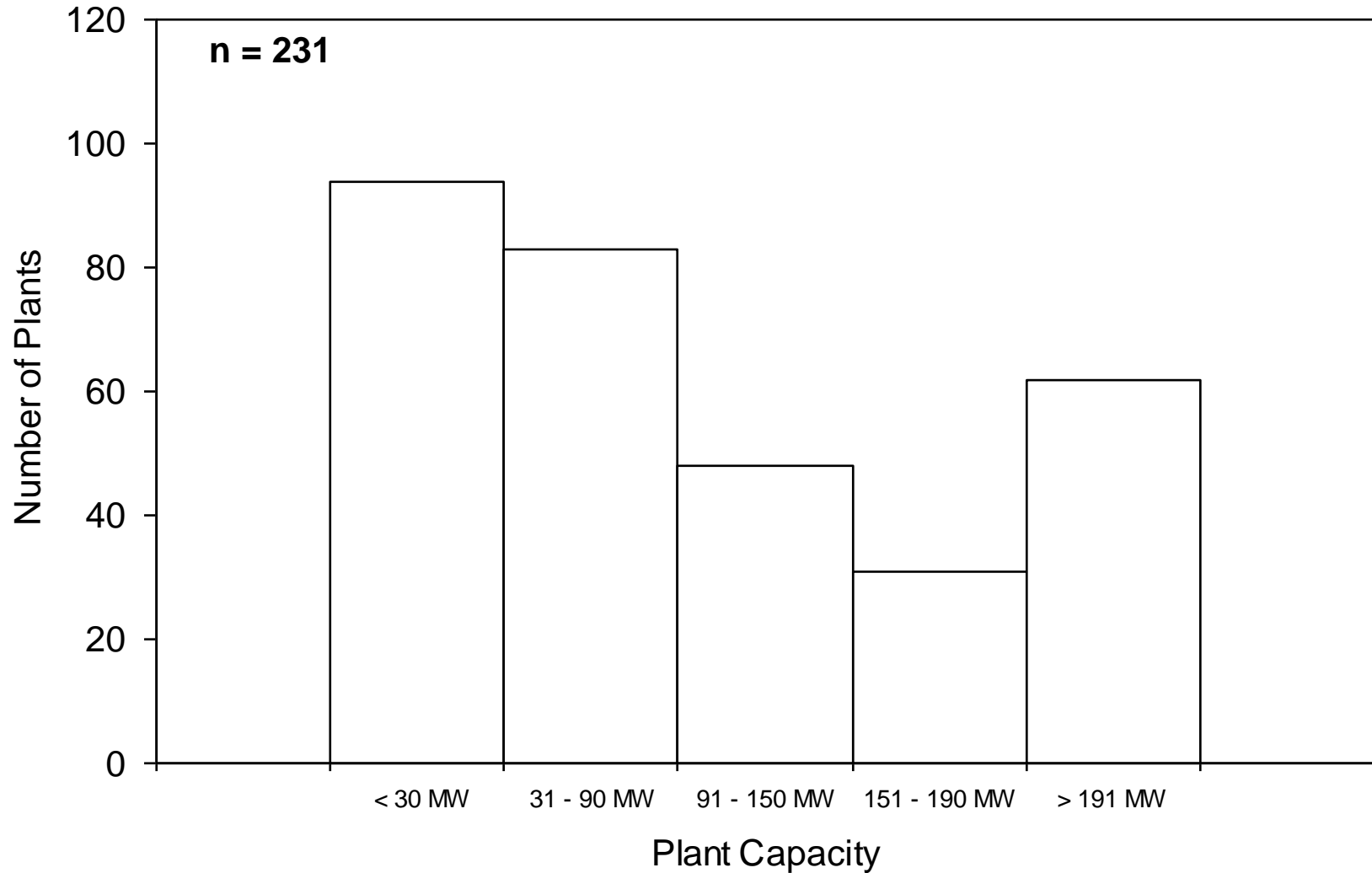
# Hydroelectric Productivity Committee



- EUCG's Hydroelectric Productivity Committee (HPC) is a low-cost, member-driven forum for cost and performance benchmarking and practices sharing.
- Comprised of ten utility members from throughout North America
- Objectives of the HPC are:
  - to maintain and improve a database that allows for comparative analysis of cost and performance information;
  - to build and maintain membership and database participation; and,
  - to provide effective products, including:
    - a database;
    - practices sharing; and,
    - peer exchange symposiums.
- Membership benefits include:
  - Annual cost and performance reports
  - Web based access to database for standard and custom report
  - Staffing and safety survey reports
  - Ad hoc surveys based on member needs
  - Networking opportunities at EUCG workshops

- 
- Plant profile
    - 230 hydro stations (including pumped storage)
    - Plants range in size from 350 kW to over 6,000 MW
    - Single unit plants to 27 units per facility
  - Cost and performance data collected and analyzed annually
  - Web-accessible for uploading data and downloading blinded data and standard analytical reports
  - Designed and managed by an independent third party contractor with functionality defined by the HPC
  - Benefits include:
    - Low cost service
    - Centrally controlled functions, including database integrity, data quality monitoring, and data security
    - User-friendly interface
    - Direct data input by users, reducing time and expense of data management
    - Faster turn around time. Essentially, once data is in the system, analysis and reporting can commence.
    - Increased flexibility for off-line customized analysis by HPC members

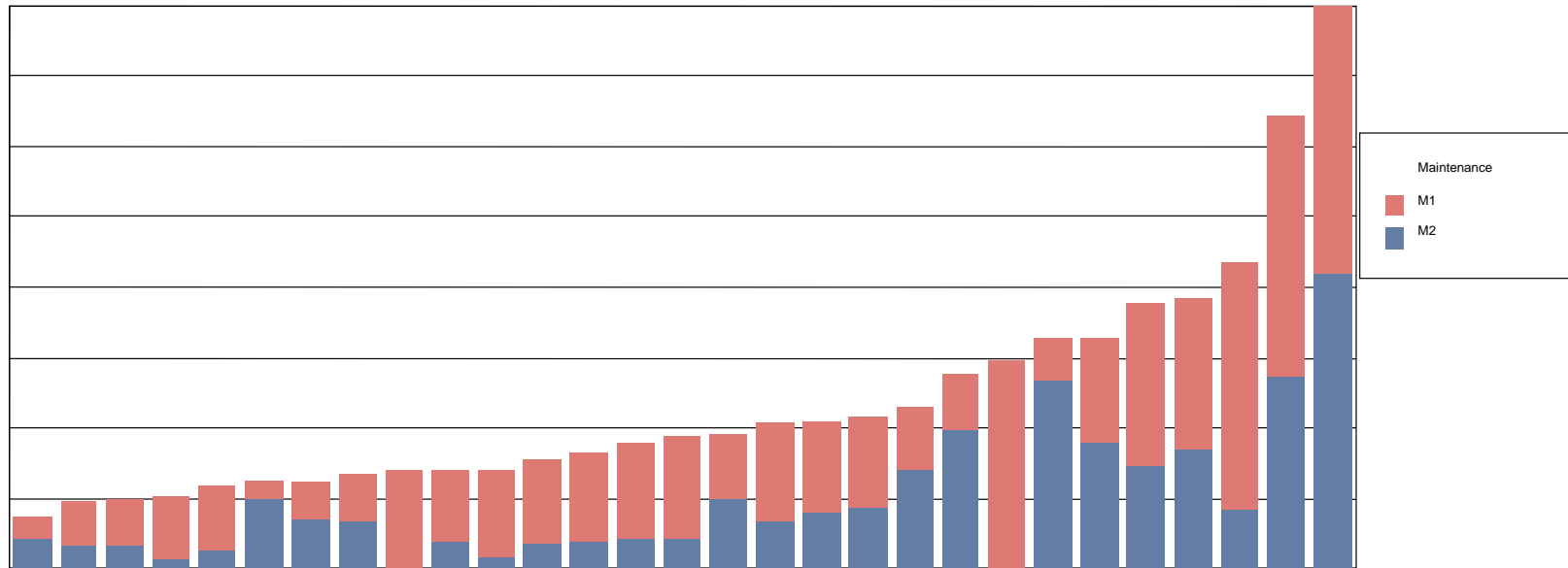
# Distribution of Plant Sizes



# Standard Reports



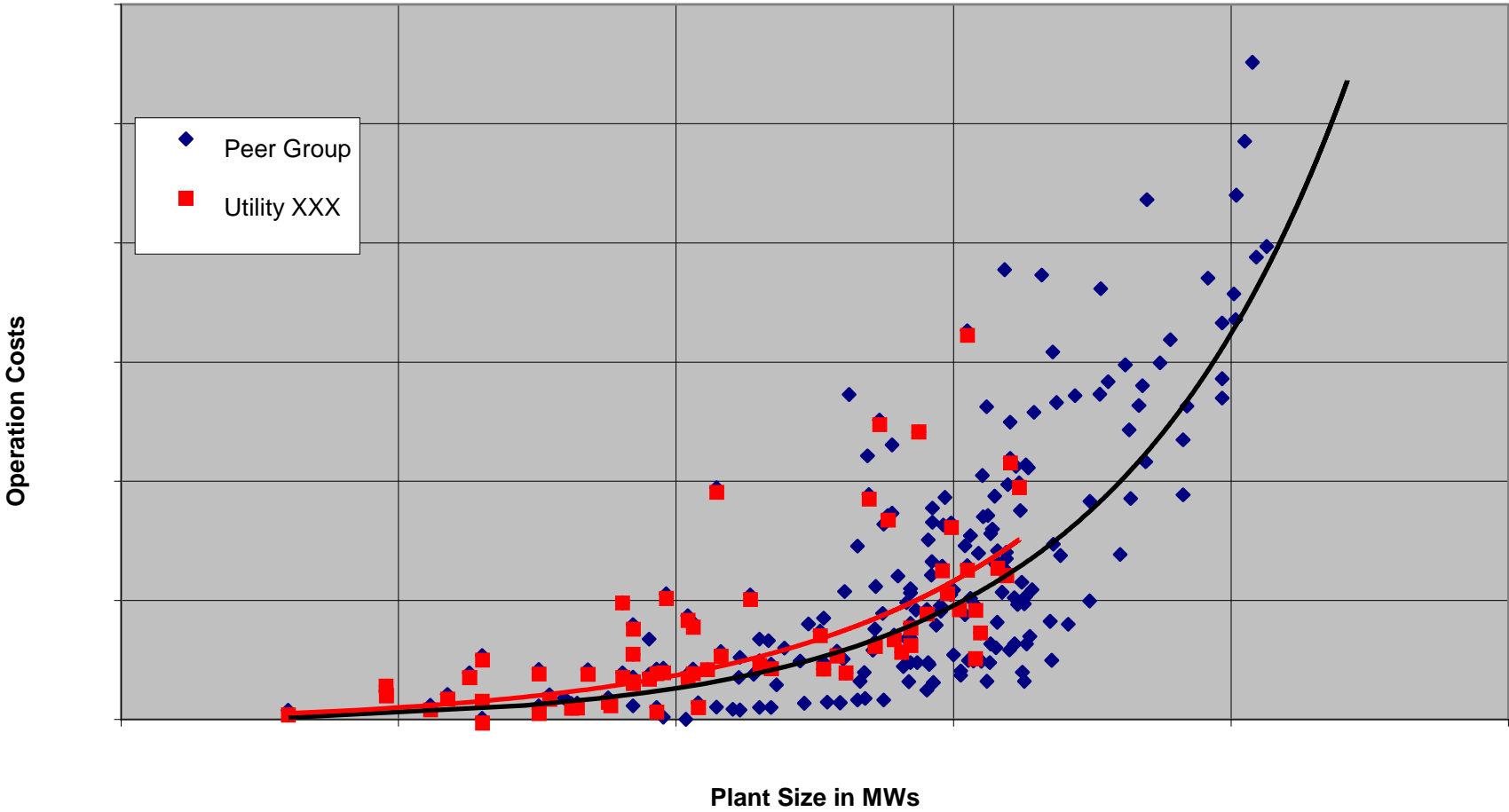
## Maintenance Costs in \$/MWh



Plant Code

Total Maintenance Dollars/Net Generation

## Operation vs Plant Size





- Practices Sharing
  - During EUCG semi-annual meetings, HPC members discuss practices that drive database results
  - Audience is primarily program managers
- Hydro Management Symposium
  - In addition to EUCG meetings, the HPC sponsors workshops for peer exchange of operations and maintenance practices
  - Also uses database results to inform discussions
  - Content is more technical in nature
  - Audience is primarily generation managers and plant personnel
  - Held every year or two





**EUCG**

**Your Energy Information Source**

**Hydro Productivity Committee**

For additional information contact:

Jim Clune  
Bonneville Power Administration  
503 230 3974  
[jmclune@bpa.gov](mailto:jmclune@bpa.gov)