

# Conservation Resource Development in the Pacific Northwest 1980 - Present

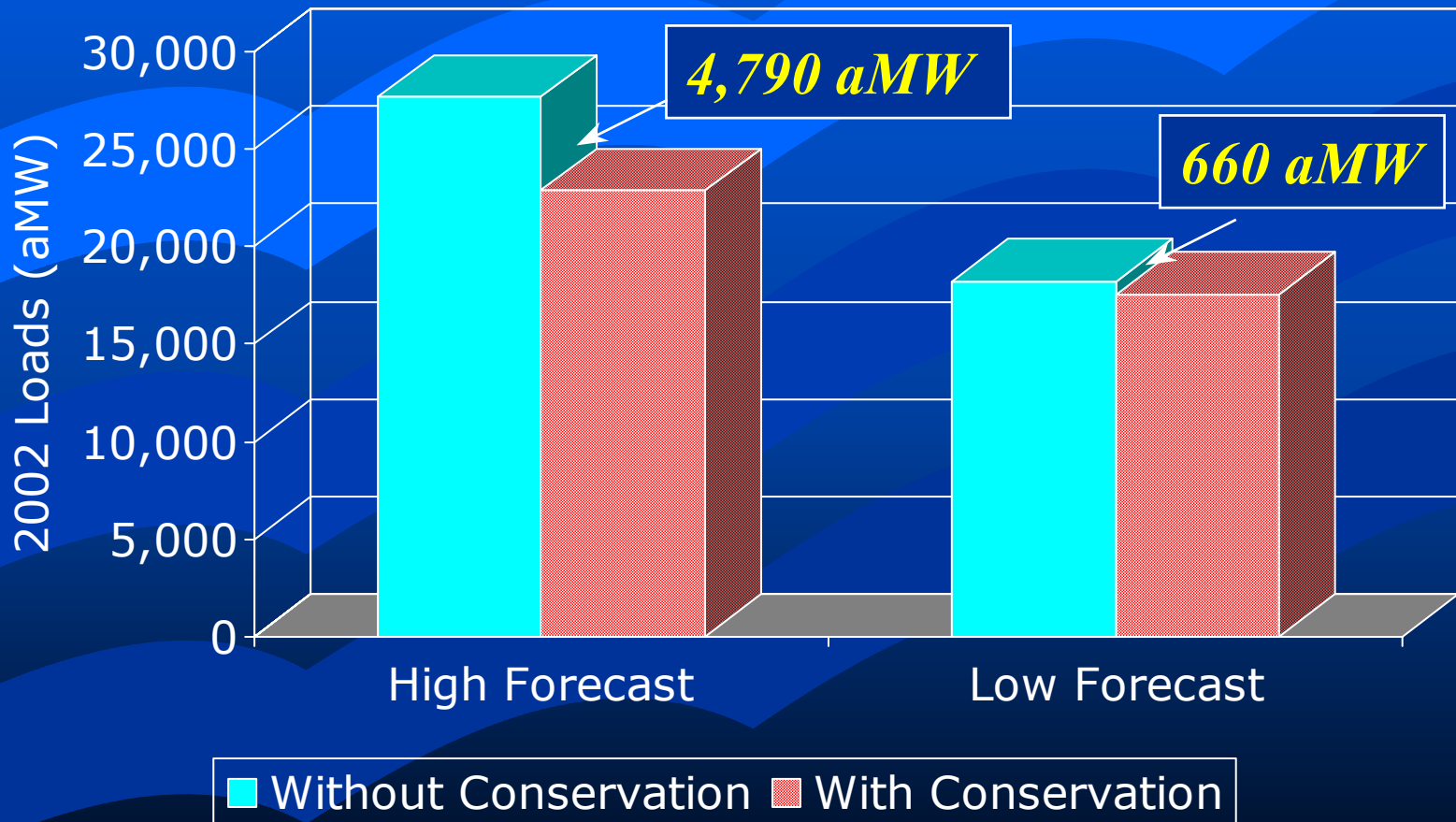
April 8, 2003

# Council's First Power Plan Was Adopted 20 Years Ago This Month

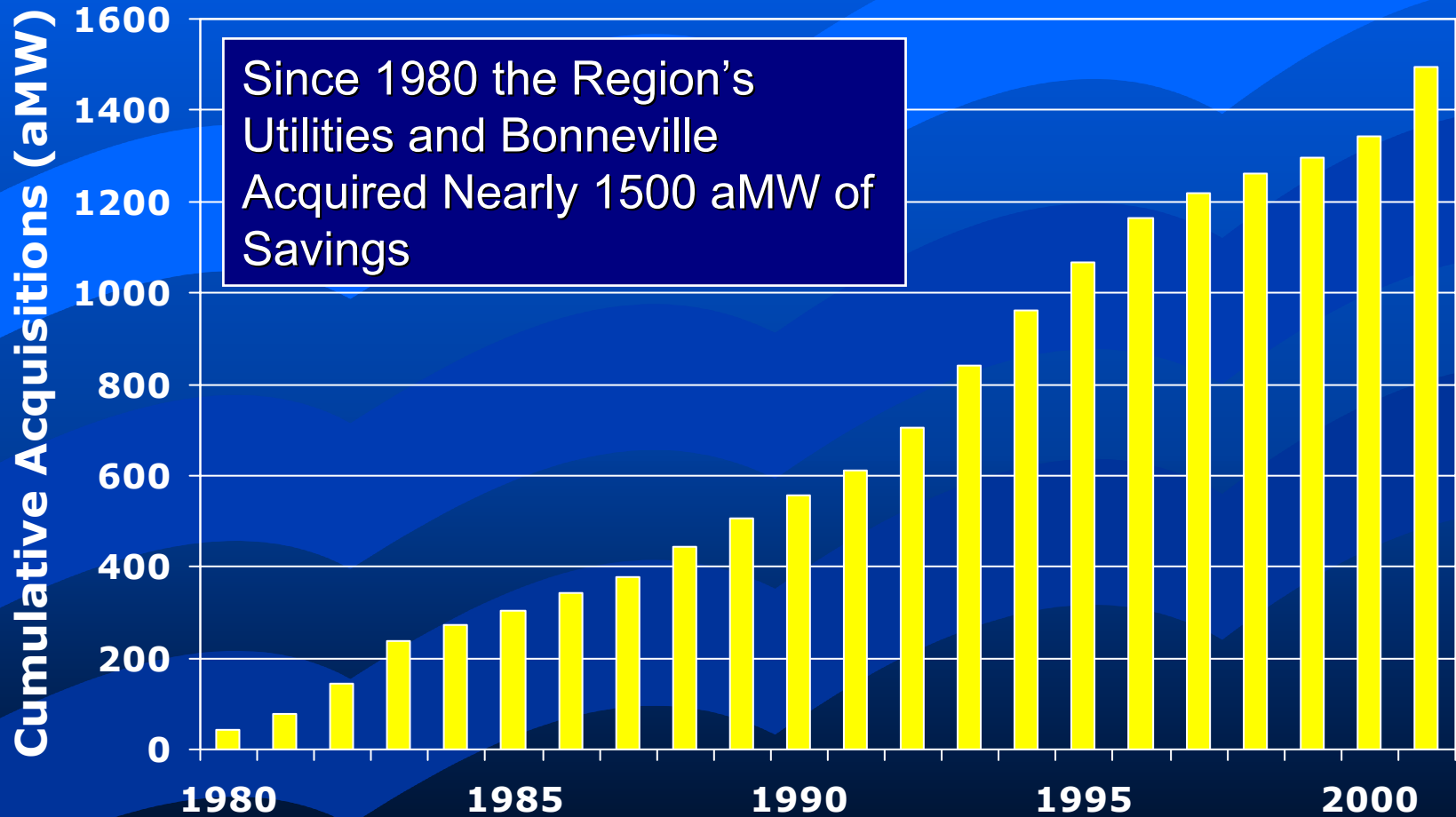
## ■ First Action Plan

- Called upon Bonneville and Region's Utilities to Develop and Implement Wide Array of Conservation Programs
- Called upon the State and Local Governments to Adopt More Energy Efficient Building Codes
- Called upon the Federal Government to Adopt Energy Efficiency Standards for Appliances and New Manufactured Homes

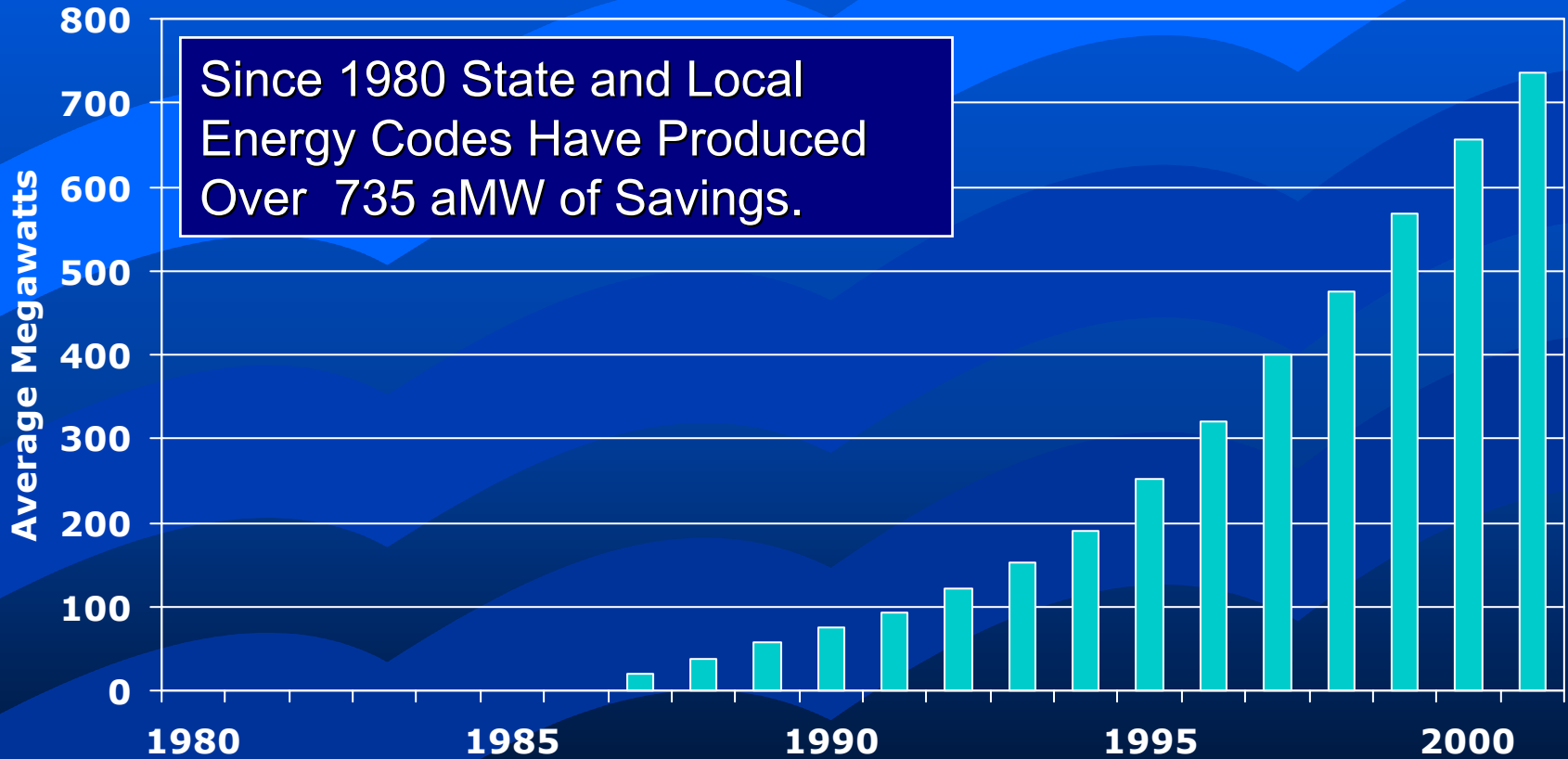
# 1983 Power Plan Conservation's Goals



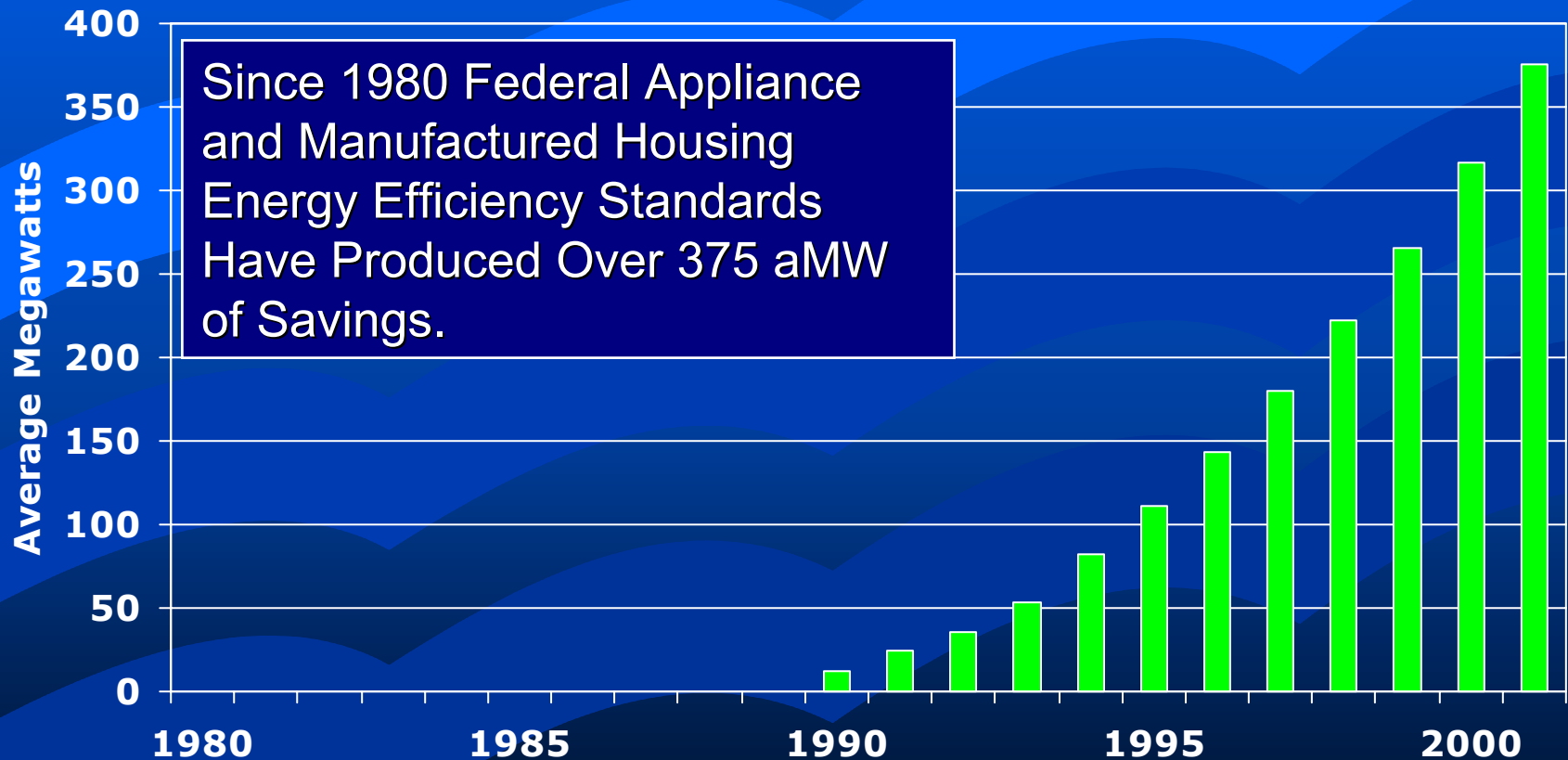
# 20 Years of Progress – Bonneville and Utility Accomplishments



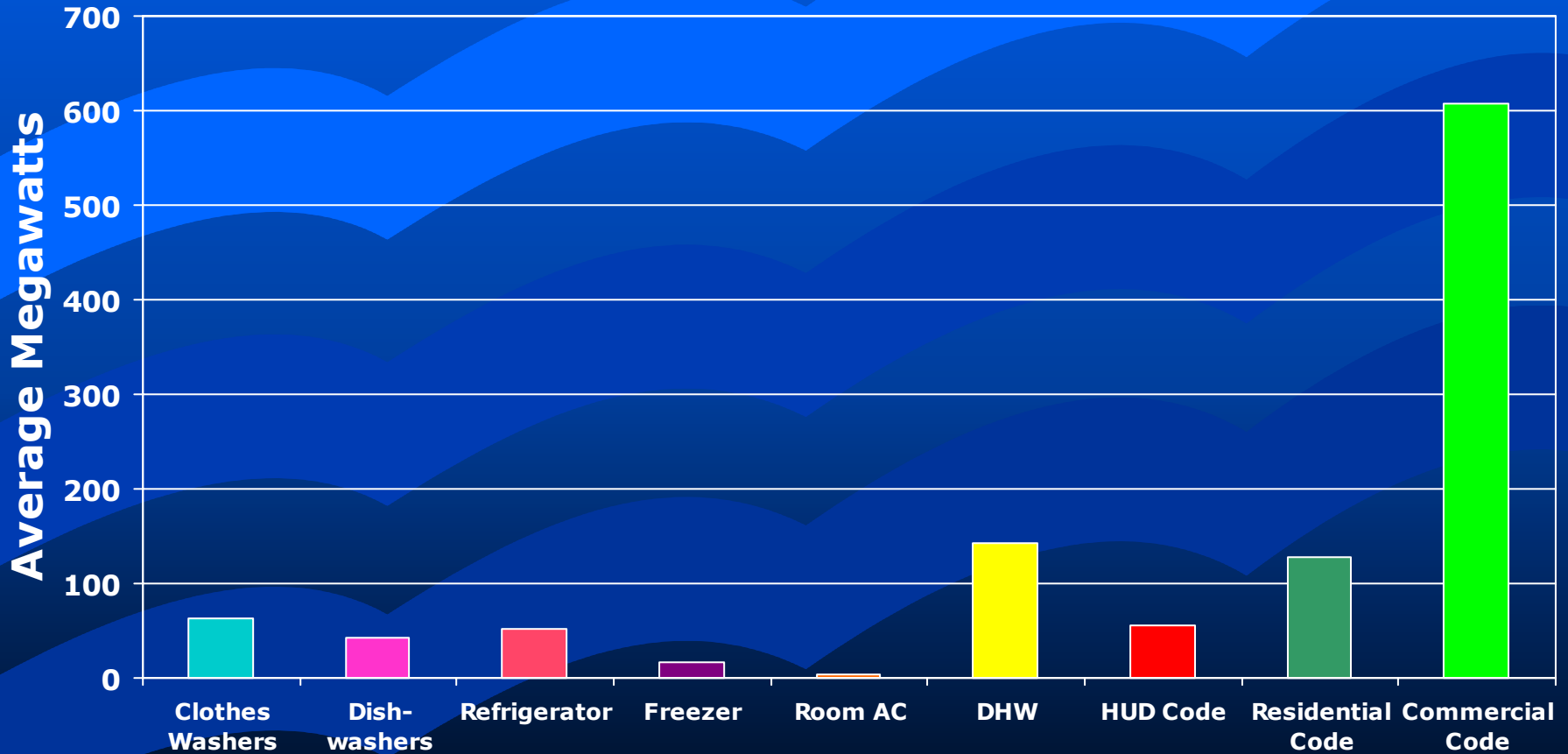
# 20 Years of Progress – State Energy Code Accomplishments



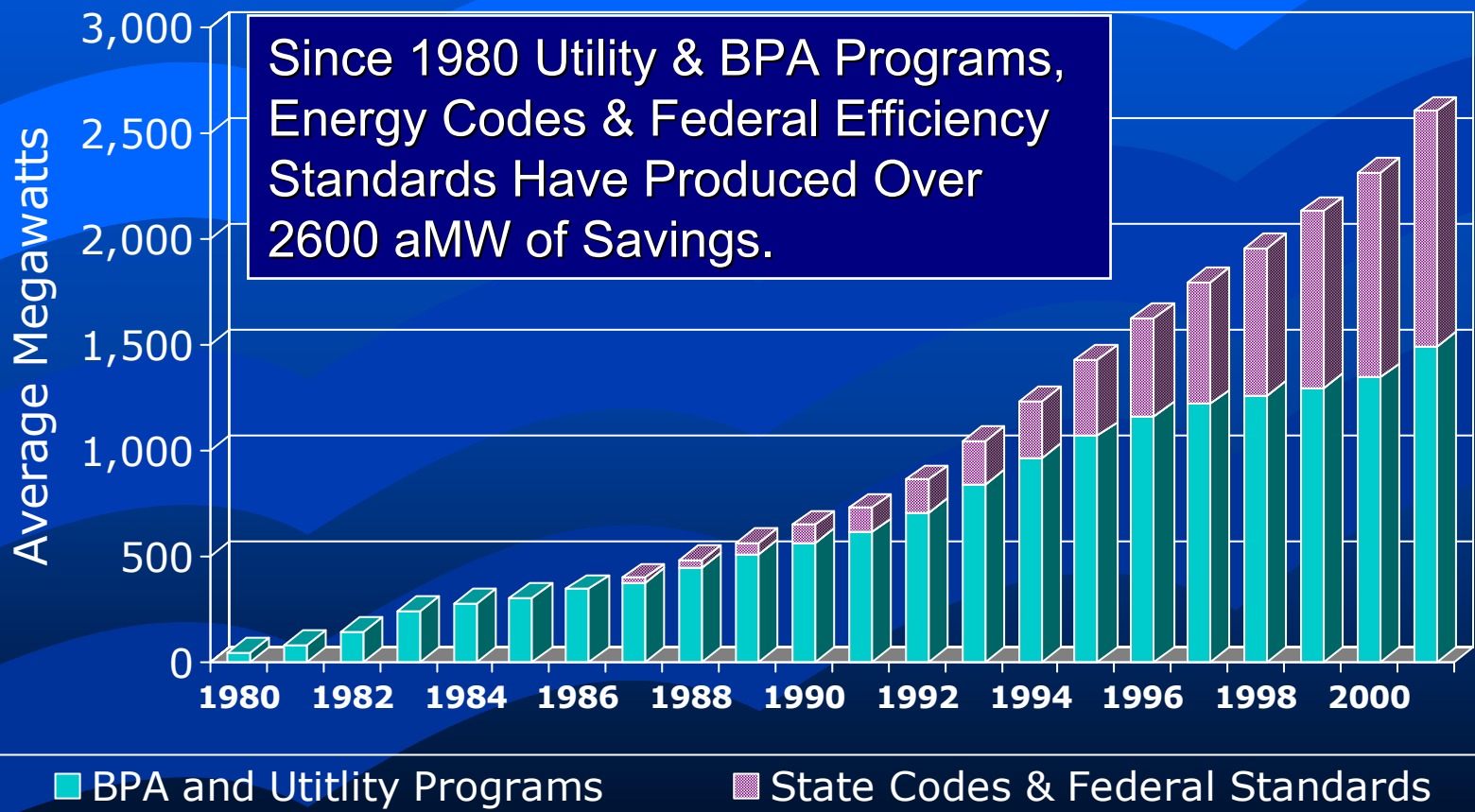
# 20 Years of Progress – Federal Energy Efficiency Standards Accomplishments



# PNW Savings from Codes and Efficiency Standards 1980-2001

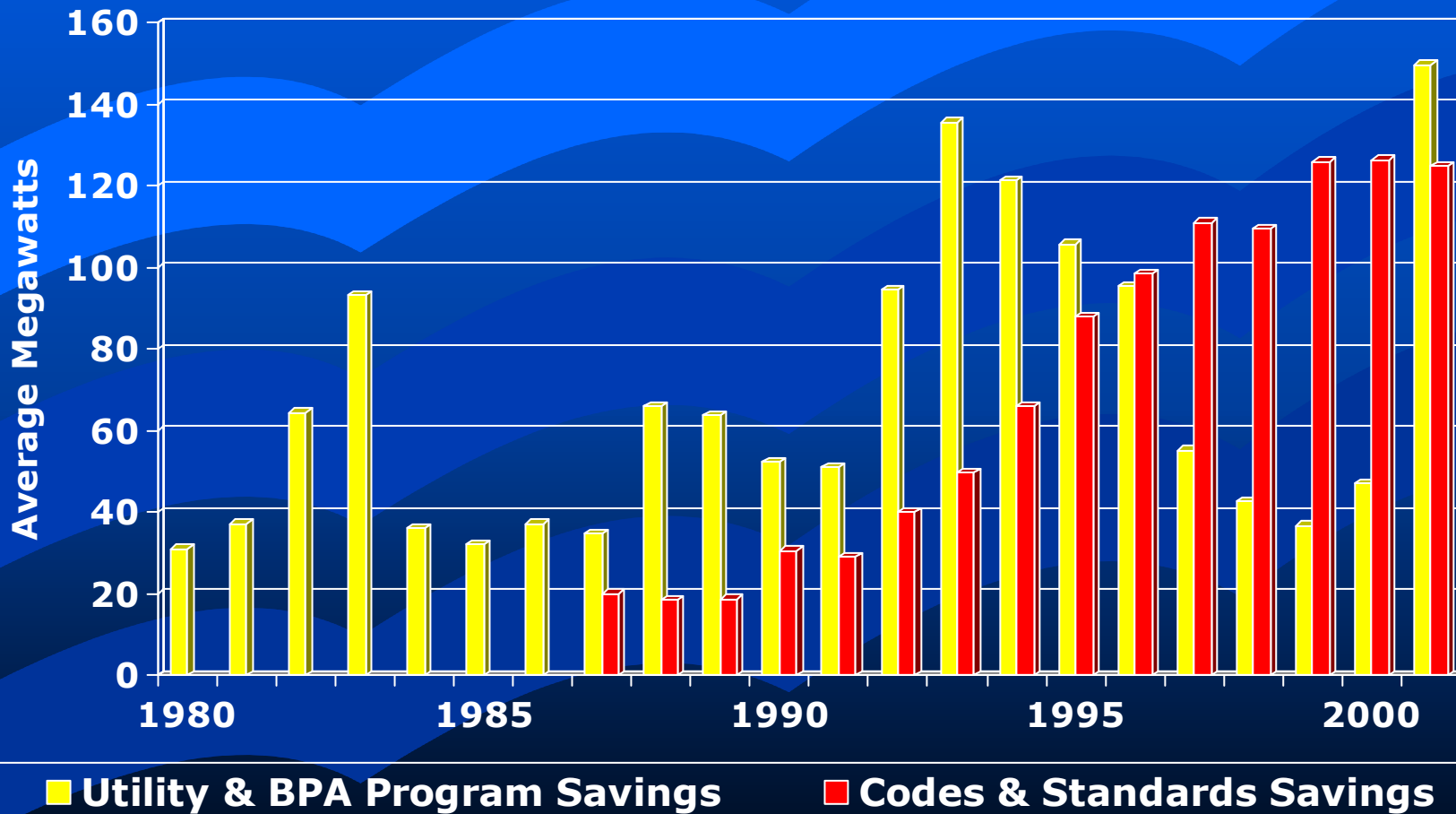


# 20 Years of Progress - Total PNW Conservation Savings





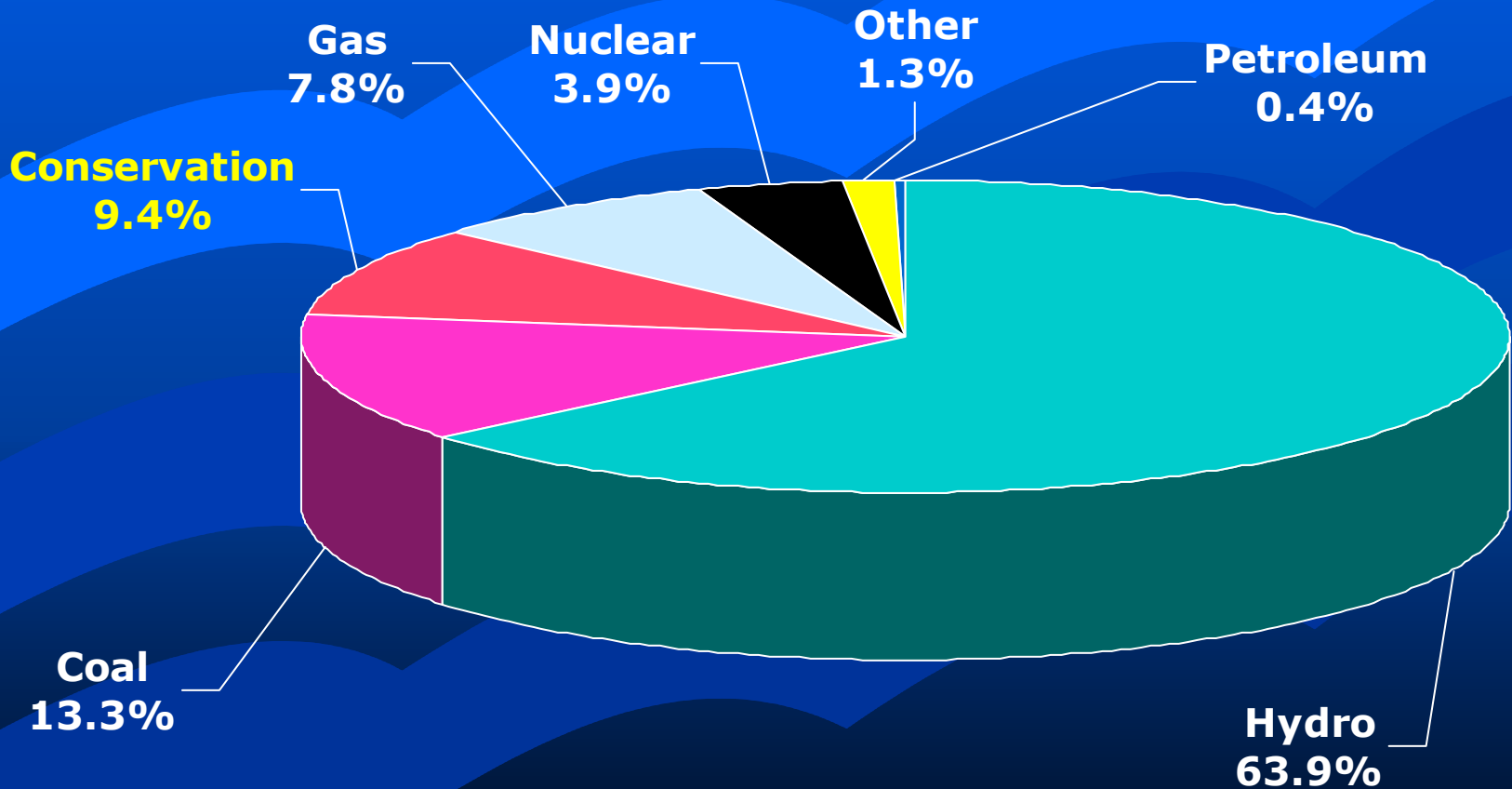
# Annual Conservation Savings from Utility & BPA Programs Compared to Savings from Codes & Standards



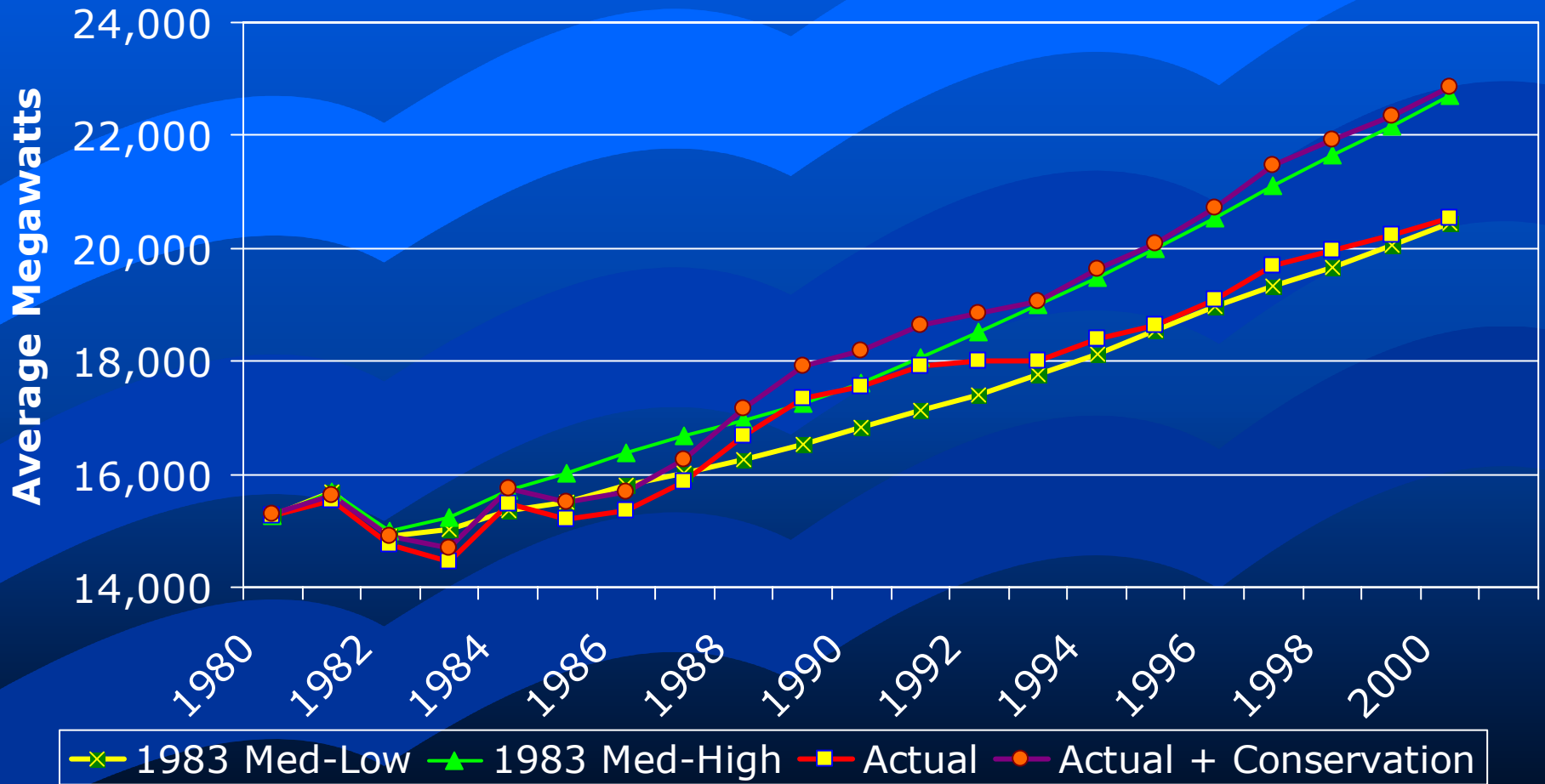
# Conservation Now Supplies Over 10% of the Region's Electricity Service Needs

	2000	2001
<b>PNW Electricity Sales</b>	20,600	18,450
<b>PNW Conservation</b>	2,315	2,600
<b>Total PNW Electricity Services</b>	22,875	21,000
<b>Share of Electricity Services Met by Conservation</b>	10%	12%

# PNW Electricity Supply Resource Mix in 2000



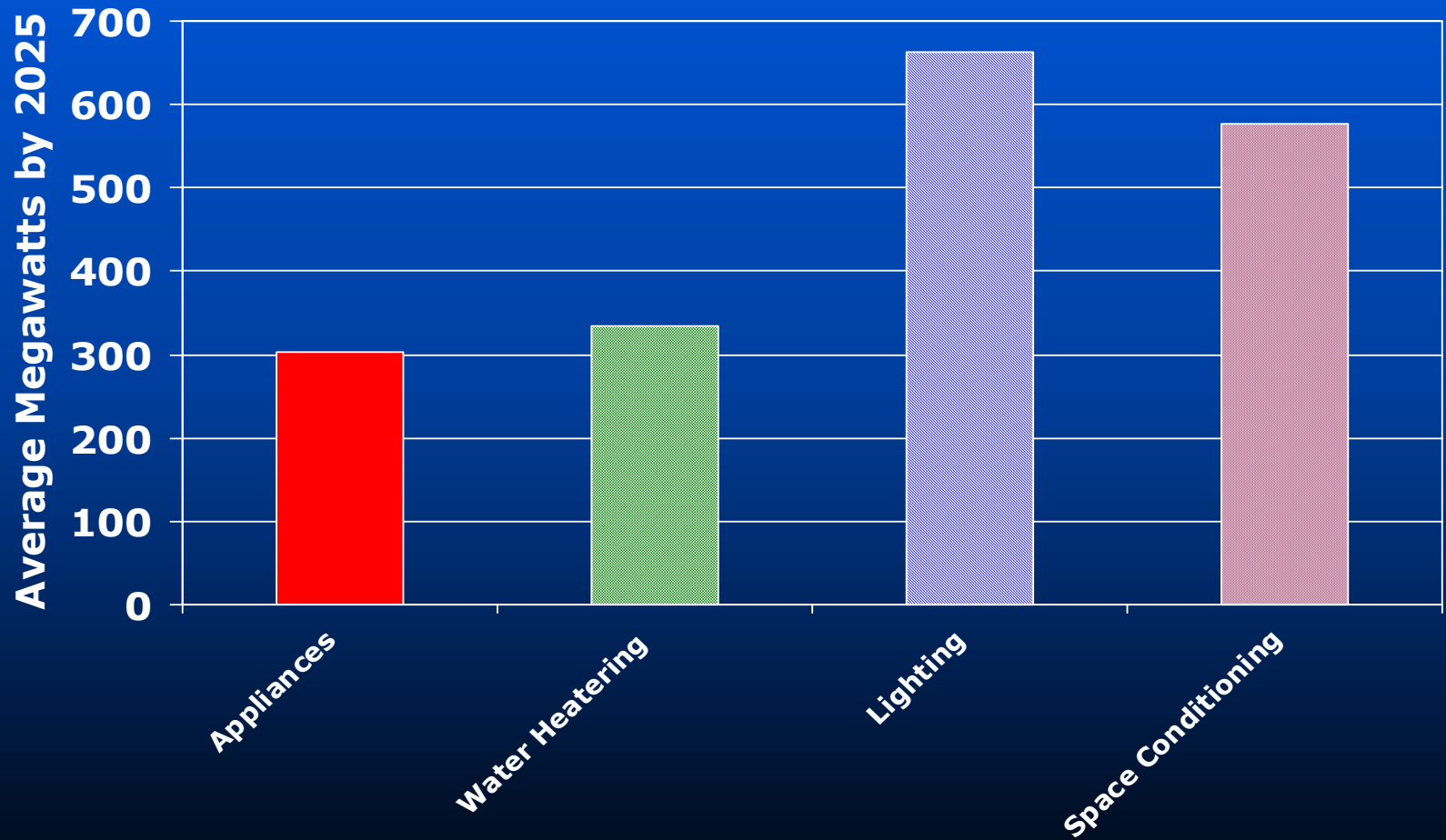
# Impact of Conservation on Projected PNW Electricity Sales



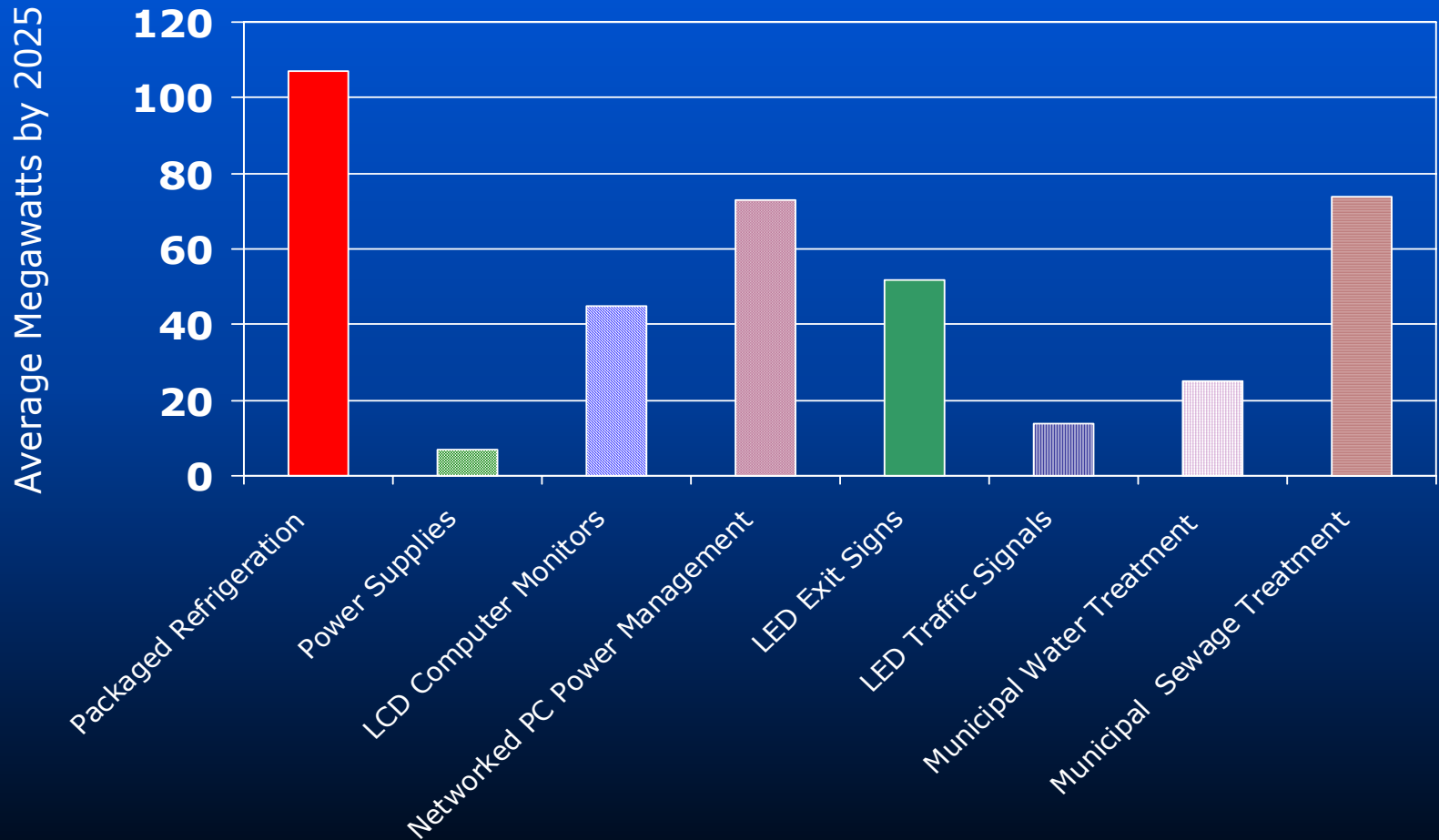
# The Fifth Plans Conservation Goals – There's More Out There

- New Technology provides additional opportunities for improving efficiency
  - Best available clothes washers is 75% more efficient than federal standard that will not go into effect until 2007
- Improve Installation and “Commissioning” practices can improve the efficiency of existing buildings and equipment
  - The second largest potential for energy savings in the residential sector come from reducing “leaks” in home heating ducts

# Summary of Cost Effective Residential Sector Conservation Resource Potential by Major End Use



# Summary of Cost Effective Commercial Sector "Non-Building" Resource Potential



# And There's More

- Commercial Sector
  - Lighting
  - Heating, Ventilation & Air Conditioning
  - “Commissioning”
- Industrial
  - Motors
  - Lights
  - Processes
- Agriculture
  - Irrigation
  - Food Processing including Dairy Equipment