

NEMA EWS 1.4-2016

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# Literature Review

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## Literature Review

This literature review is part of the National Electrical Manufacturers Association's (NEMA) Increasing Energy Efficiency in Urban Water Supply Systems Initiative. NEMA selected GEI Consultants Inc. and its partners to support their strategic initiative on the energy-water nexus. NEMA's initiative encompasses the following goals:

- 1) Collect data to quantify the effectiveness and efficiency of equipment in facilities representative of the U.S. urban water supply's delivery and treatment systems
- 2) Analyze the market potential to improve effectiveness of water supply, delivery, and treatment systems using NEMA member products (including HVAC and lighting)
- 3) Evaluate the viability of energy savings performance contract practices, other financing mechanisms, and government grants to finance modernization upgrades

As a fundamental component of first goal listed above (goal 1), GEI applied the following method to review readily available literature, gather pertinent facts, and compile this information contained within this document. Using goal 1 to set the scope of literature considered, the project team

- 1) identified key search terms and applied them to standard search internet engines;
- 2) considered documents that were in English, readily available on the internet at no cost;
- 3) revisited terms and periodically refined and updated terms;
- 4) critically reviewed and analyzed materials to determine relevance to the defined goal (i.e., determined the focus of the documents, scope of the study or analysis, and findings or results); and
- 5) compiled the results in this Excel spreadsheet.

The results of this literature review supported the analyses conducted as part of goals 2 and 3, discussed fully in the project report, *Advancing Energy Efficiency in Urban Water Supply Systems*, dated February 2016.

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