**Wastewater/Water Energy Training Program (Washington)**

**Summary Report**

**June 2012 through June 2013**

**(insert Utility name)**

**Summary Snapshot:**

|  |  |
| --- | --- |
| **Size** (MGD –average for WWT or Population Served for DWTPs): |  |
| **Description**: Describe the process of system or plant. |  |
| **Type:** Water, Wastewater or Combined? Brief Description |  |
| **Energy Consumption** (Annual; specify 12-month period – eg: June 2011-May 2012)   * **BPA clients please include 2-year period if able.** |  |
| **Savings** in Total Expected Annual Energy Consumption (in kWh or MMBTUs) |  |
| **Energy Costs** (Annual; specify 12-month period – eg: June 2011-May 2012)   * **BPA clients please include 2-year period if able.** |  |
| **Savings** in Total Expected Annual Energy Costs (in Dollars) |  |
| Percentage Savings |  |
| Estimated Green House Gas Reductions (tons) |  |
| Other Benefits to Utility | 1. … 2. … 3. ... 4. … |

**Detailed Report**

**Energy Policy:** *(Insert here or attach)*

**Energy Goals and Targets:** (*insert energy goals and targets)*

**Improvements:**

* **Management System:** (*insert June 2012 and May 2013 Spider Diagrams)*
* **Energy Performance**

**Dashboard Indicator for Tracking:** (*insert dashboard of Energy Performance indicators – for water or wastewater or modify table below as necessary.)*

**Energy Efficiency Performance Indicators (Not applicable to water utilities)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Time** | **Average/Month** | **kWh/MGD treated** | | **kWh/1,000 # BOD Removed** | | **Natural Gas Use**  **Therms/MGD** | **Load Factor** | **Energy Costs** | |
|  | **Electric** | **Nat. Gas** |
|  |  | *Winter* | *Summer* | *Winter* | *Summer* |  |  |  |  |
| Baseline -June 2012 |  |  |  |  |  |  |  |  |  |
| January 2013 |  |  |  |  |  |  |  |  |  |
| May 2013 |  |  |  |  |  |  |  |  |  |
| **% improvement** |  |  |  |  |  |  |  |  |  |
| **$$ saved** |  |  |  |  |  |  |  |  |  |
| **KWH Saved** |  |  |  |  |  |  |  |  |  |

**(Not applicable to wastewater utilities)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Time** | **Average/Month** | **kWh/MGD delivered** | **Other** | | **Other** | **Other** |
|  |
|  |  |  | *Winter* | *Summer* |  |  |
| Baseline -June 2012 |  |  |  |  |  |  |
| January 2013 |  |  |  |  |  |  |
| May 2013 |  |  |  |  |  |  |
| **% improvement** |  |  |  |  |  |  |
| **$$ saved** |  |  |  |  |  |  |
| **KWH Saved** |  |  |  |  |  |  |

**Energy Improvement Projects Completed**

**Operations and Maintenance Projects**

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Description** | **Energy Savings**  **MMBTUs** | **Cost Savings** | **Date Completed** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Capital Projects**

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Description** | **Energy Savings**  **MMBTUs** | **Cost Savings** | **Date Completed** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Energy Improvement Projects Planned, Budgeted or Underway**

**Operations and Maintenance Projects**

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Description** | **Anticipated Energy Savings**  **MMBTUs** | **Anticipated Cost Savings** | **Target Completion Date** |
|  |  |  |  |
|  |  |  |  |
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|  |  |  |  |

**Capital Projects**

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Description** | **Anticipated Energy Savings**  **MMBTUs** | **Anticipated Cost Savings** | **Target Completion Date** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Renewable Power (delete if not applicable)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Renewable Power Used at Facility** | | | | | |
| **Time** | **Heat Recovery** | **Biogas Generator** | **Heat Pump** | **Solar** | **Wind** | **Other?** |
| Baseline – June 2012  (amount generated on site) |  |  |  |  |  |  |
| May 2013  (amount generated on site) |  |  |  |  |  |  |
| **% improvement** |  |  |  |  |  |  |
| **$$ Saved** |  |  |  |  |  |  |
| **KWH Saved** |  |  |  |  |  |  |

Additional renewable cost savings anticipated:

Opportunities for Additional Renewable Power Sources

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Renewable Power Source?** | **Evaluated?** | **Cost-Effective?** | **Incentives Identified and being tracked?** | **Included in CIP?**  **(amount/year)** | **Implemented?** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**Other Renewable Power Source Items to report:**

**Master Calendar**

(insert here)

**Key Lessons Learned (Please include examples)**

**New Behaviors Implemented Resulting in Energy and Efficiency Improvement**

**Opportunity Register**

(Attach)

**Communications Program Highlights**

**How Will Your Utility Maintain Your Energy Program Over Time?**

*(author)*

*(contact information)*

*(date)*