

**MEMORANDUM
CITY OF HOMETOWN**

TO: Honorable Mayor and Council Members

FROM: Mary Jones, City Manager
John Smith, Public Works Director

DATE: November 14, 2012

SUBJECT: Report and possible Adoption RE: City of Hometown Energy Action Plan

RECOMMENDATION:

Staff recommends the City Council of Hometown adopt the City of Hometown Energy Action Plan as reflected in Exhibit A.

FISCAL IMPACT:

None.

SUMMARY:

The City of Hometown, through a partnership with the Kern Council of Governments, received grant funding from Southern California Edison to prepare an Energy Action Plan for the City of Hometown. The purpose of this Energy Action Plan (EAP) is to provide a policy framework for decision making regarding energy efficiency measures that result in the reduction of energy consumption and associated greenhouse gases (GHGs) in a manner consistent with the objectives of the CPUC's California Long Term Energy Efficiency Strategic Plan (CEESP) and also in a manner consistent with Assembly Bill 32 (AB 32). AB 32 requires California to reduce its GHG emissions to 1990 levels by 2020. Per guidance from the California Air Resources Board (CARB), local governments can set their 2020 GHG reduction target as equivalent to 15% below baseline levels, where baseline occurs between 2005 and 2008. This EAP and its 2020 GHG reduction target is based on the results of California City's baseline (2005) energy use and electricity-related GHG emissions.

This Energy Action Plan will be included in the larger Kern Regional Energy Action Plan.

The Energy Action Plan was created using the seven (7) steps described below:

1. Establish a Baseline of existing emissions.
 - A baseline inventory was developed for 2005 and 2010 emissions (Section 5 of the Energy Action Plan)

2. Develop Strategies and Specific Goals
 - A decision making template was developed by the consultant ESA for the Kern Region Energy Action Plans project to assist with the development of energy efficiency standards that comply with the requirements of AB 32. (Section 6 of the Energy Action Plan)
3. Develop Energy Efficiency Measures
 - A pre-selected list of energy efficient measures was developed as a part of the Kern Region Energy Action Plans Project in 2012. This set of measures was developed after reviewing other municipalities' best practices. (Section 7 of the Energy Action Plan)
4. Create an Implementation Plan
 - The Energy Efficiency Standards developed in Step 3 were prioritized based on the Cost/Benefit Analysis of each standard. (Section 8 of the Energy Action Plan)
5. Conduct Outreach and Stakeholder Engagement
 - Kern Council of Governments served as the lead on the outreach and stakeholder engagement. A public meeting was held in Hometown City on April 16, 2012. Other outreach tools were used including a telephone survey, stakeholder workshops, and an online survey.
6. Review Finance Models and Mechanisms
 - Several financial models and mechanisms were identified that could fund future energy efficiency projects. (Section 10 of the Energy Action Plan)
7. Develop Monitoring, Measuring and Verification Plans
 - (Section 10 of the Energy Action Plan)

As stated above, the purpose of the Energy Action Plan is to develop energy efficiency measures to reduce energy consumption and associated greenhouse gases (GHG) within the City of Hometown's municipal operations. The measures that are included in this Energy Action Plan were chosen based on five (5) available criteria which are listed by importance: Financial return; Resources required; Energy savings; Ease of Implementation; and Co-benefits.

The measures chosen by the City of Hometown are as follows:

| Hometown City Energy Efficiency Measures to address the 2012 LGOP GHG Inventory | | | | |
|--|--|------------------------------|-----------------------------|---|
| Measure Name | Description | Applicable Sector | Affected Departments | Additional Information |
| Airport Operations Optimization | Increase efficiency of airport operations by retrofitting lighting and reducing set-points of thermostats | Building and Facility Energy | Public Works | See results of Energy Audit for costs and savings |
| Municipal Building Energy Lighting | Continue to retrofit indoor lighting with more efficient equipment | Building and Facility Energy | All | See results of Energy Audit for costs and savings |
| Municipal Building HVAC upgrades | Retrofit HVAC units at City facilities to improve energy efficiency | Building and Facility Energy | Public Works | See results of Energy Audit for costs and savings |
| Municipal building water fixtures | Retrofit water fixtures with more efficient equipment | Building and Facility Energy | Public Works | |
| Environmental purchasing policy | Develop and implement policy to prioritize purchase of energy-efficient equipment, such as equipment with the Energy Star label. | All | All | |
| Municipal Green Building Requirement | Require all new city buildings to achieve 15% above Title 24 requirements | Buildings and Facilities | All | |
| Renewable energy installation | Review financing opportunities for solar panels and conduct feasibility analysis of rooftops | All | All | |
| Street light upgrades | Consider retrofitting city-owned decorative lighting with more efficient fixtures | Infrastructure Energy | Public Works | See results of Energy Audit for costs and savings |
| Wastewater treatment energy efficiency upgrades | Consider replacing pumps and improving efficiency at WWTP. | Infrastructure Energy | Public Works | |
| Reduction of Heat Island Effect | Implement measures to reduce Heat Island Effect, such as shade trees and cool roof materials, to reduce cooling loads in City facilities | Building and Facility Energy | Public Works | |
| Demand Response | Participate in SCE demand response programs to reduce peak energy usage; Identify strategies for facilities that are well-suited to respond to | Buildings and Facilities | All | |

| Hometown City Energy Efficiency Measures to address the 2012 LGOP GHG Inventory | | | | |
|---|--|------------------------------|----------------------|--|
| Measure Name | Description | Applicable Sector | Affected Departments | Additional Information |
| | demand response events. | | | |
| Benchmark facilities using USEPA's Energy Star Portfolio Manager | Benchmark City facilities to monitor energy usage and identify areas for further reductions | Building and Facility Energy | Public Works | Facilities that are over 5,000 square feet are eligible for the USEPA Energy Star award. |
| Ongoing Commissioning Plan | Implement an Ongoing Commissioning program for all City facilities to continue to identify opportunities for energy savings | Building and Facility Energy | Public Works | |
| Training for City Staff | Develop program to provide training to City staff on issues related to energy and water use efficiency in municipal operations | All | All | |