

Regular Meeting

Agenda Item #	2 and 3
Meeting Date	July 1, 2013
Prepared By	Daryl Braithwaite, Public Works Director
Approved By	Brian T. Kenner City Manager

Discussion Item	Resolutions Declaring the City of Takoma Park's Intent to Take a Leadership Role in (1) Reducing Electricity Consumption in Takoma Park and (2) Renewable Energy Generation, Partnering with the Maryland Energy Administration, and Enrolling as a Maryland Smart Energy Community
Background	<p>The State of Maryland, through the Maryland Energy Administration (MEA), has established the Smart Energy Communities program (MSEC). The purpose of the program is to encourage local governments to adopt policies related to energy efficiency, renewable energy and petroleum reduction, and to put plans in place to achieve goals established in those policies. In exchange, the MEA provides funding to the local governments to pursue selected program goals.</p> <p>The Public Works Department submitted a Letter of Intent to participate and submitted an application to MEA in April 2013. The City was notified that it is eligible to receive a grant of \$58,376.</p> <p>In order to receive these funds and earn the Maryland Smart Energy Communities designation, the City must adopt two of three specified policies. The three policies are:</p> <ul style="list-style-type: none"> • Reduce per square foot electricity consumption in City-owned buildings by 15% within 5 years. • Meet 20% of the City's buildings electricity demand with distributed renewable energy by 2022. • Reduce fuel use for City vehicles by 20% in 5 years. <p>Department staff recommends selecting the policy to reduce electricity consumption by 15% within 5 years of a baseline and the policy to meet 20% of City facilities' electricity demand through renewable energy. It is less likely that the City would be successful in meeting the 20% reduction in vehicle fuel use over 5 years.</p> <p>To participate, the Council must formally adopt the selected policies by resolution.</p> <p>The next step in the program would be for the City to create energy use baselines and develop plans for pursuing the two policies. Public Works Department staff would work with the MEA to identify a meaningful and effective energy efficiency or renewable energy project to apply the grant toward. The project must be completed by May 31, 2014.</p>

Policy	The City has actively pursued programs to reduce energy use and improve energy efficiency.
Fiscal Impact	None
Attachments	Two resolutions
Recommendation	Adopt the resolutions.
Special Consideration	

Introduced by:

**CITY OF TAKOMA PARK, MARYLAND
RESOLUTION 2013 -**

**DECLARING THE CITY OF TAKOMA PARK'S INTENT TO TAKE
A LEADERSHIP ROLE IN REDUCING ELECTRICITY CONSUMPTION IN THE
CITY, PARTNERING WITH THE MARYLAND ENERGY ADMINISTRATION, AND
ENROLLING AS A MARYLAND SMART ENERGY COMMUNITY**

WHEREAS, by adhering to the Maryland Energy Administration's Smart Energy Communities Program the City of Takoma Park has committed to being a socially responsible leader by decreasing its electricity consumption; and

WHEREAS, the City of Takoma Park recognizes that by smartly investing in energy efficiency, it can have significant monetary savings in the long term.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF TAKOMA PARK THAT:

Section 1. The City of Takoma Park will establish a policy for reducing electricity consumption by completing the following initiatives:

- Become a Maryland Smart Energy Community by enrolling within the program and following the instructions provided by the State of Maryland.
- Establish the goal of reducing per-square-foot electricity consumption by 15 percent relative to the baseline within 5 years of the baseline year.
- Report electricity consumption and progress towards the goal annually to the Maryland Energy Administration in order to assure that the City of Takoma Park accomplishes said goals in a timely fashion.

Section 2. For the purpose of this policy, the following terms shall have the meaning given:

- a) *Electricity Consumption* – The amount of megawatt-hours (MWhs) purchased by the City of Takoma Park on a CY basis excluding electricity purchased for streetlights and for buildings owned by City of Takoma Park, but paid for by a building lessee.
- b) *Building Space* – The amount of gross square feet (GSF) of building space owned by the City of Takoma Park AND for which electricity is paid by the City of Takoma Park.

- c) *Per-square-foot-electricity consumption* – Electricity consumption (in MWhs) divided by building space (in GSF) calculated on an annual CY basis.
- d) *Baseline* – Per-square-foot-electricity consumption (MWhs/GSF) in a pre-determined baseline year.
- e) *Baseline Year* – The City of Takoma Park selects CY 2012 as its baseline year.

Section 3. The City of Takoma Park will maintain an annual electricity consumption inventory for all City-owned buildings and other entities captured in the initial baseline. This annual inventory will be conducted using Energy Star Portfolio Manager or similar tool and will be provided to the Maryland Energy Administration by April 1 annually.

The following information shall be included in an annual inventory of community electricity consumption and provided to the Maryland Energy Administration:

Building Type and Address	Building Size	Electricity - Conventional	Electricity - Renewable Energy	Total MWh	Electricity Consumption Intensity
	Square Feet				Total MWh/SF
<i>Community Center</i>	26,610				
<i>Public Works</i>	21,464				
<i>Heffner Park Community Center</i>	1,850				
Subtotal for Buildings	49,924				
Total					

Section 4. The City will additionally establish an Energy Reduction Plan. The plan will outline the process and include a timetable of execution by which the City of Takoma Park will accomplish designated tasks in order to reach their goal. The

City of Takoma Park will implement the necessary projects laid out in its Energy Reduction Plan in order to meet the goal outlined in this policy.

Section 5. All inquiries should be directed to the Public Works Director who is responsible for implementing this policy. This policy applies to all departments of the City.

Section 6. This policy shall be effective immediately upon adoption.

Adopted this _____ day of _____ by the Council of the City of Takoma Park, Maryland.

ATTEST:

Jessie Carpenter, CMC
City Clerk

Town/City/County Energy Efficiency Policy	
Original Proposal Date	
Revision Date	
Adoption Date	
Effective Date	

Introduced by:

**CITY OF TAKOMA PARK, MARYLAND
RESOLUTION 2013 –**

**DECLARING THE CITY OF TAKOMA PARK’S INTENT TO TAKE A LEADERSHIP
ROLE IN RENEWABLE ENERGY GENERATION WITHIN THE CITY,
PARTNERING WITH THE MARYLAND ENERGY ADMINISTRATION, AND
ENROLLING AS A MARYLAND SMART ENERGY COMMUNITY**

WHEREAS, by adhering to the Maryland Energy Administration’s Smart Energy Communities Program the City of Takoma Park has committed to being a socially responsible leader by increasing control of its own renewable energy production; and

WHEREAS, the City of Takoma Park recognizes that by smartly investing in renewable energy, it can have significant monetary savings in the long term.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF TAKOMA PARK THAT:

Section 1. The City will establish a policy for renewable energy generation by completing the following initiatives:

- Become a Maryland Smart Energy Community by enrolling within the program and following the instructions provided by the State of Maryland.
- Reduce conventional centralized electricity generation serving local government buildings by meeting 20 percent of those buildings' electricity demand with distributed, renewable energy generation by 2022.
- Develop and initiate a Renewable Energy Action Plan to map out how the community will reach its Renewable Energy Goal.
- Report electricity consumption and renewable generation capacity annually to the Maryland Energy Administration in order to assure that the City of Takoma Park accomplishes said goals in a timely fashion.

Section 2. For the purpose of this policy, the following terms shall have the meaning given:

- a) *Renewable Energy* – Energy generated from any one of the following sources: solar, wind, biomass (excluding saw dust), methane from anaerobic digestion of organic materials, geothermal, ocean, fuel cells powered by methane or biomass, poultry litter, and waste-to-energy facilities.
- b) *Electricity Consumption* – The amount of megawatt-hours (MWhs) consumed by the City of Takoma Park on a CY basis excluding electricity consumed for streetlights and for buildings owned by City of Takoma Park, but paid for by a building lessee.

- c) *Renewable Energy Action Plan* – Provides details on current and future electricity consumption, estimates required renewable energy production to meet 20 percent of said energy consumption, and designs plans with detailed installation measures and time tables that enable the City of Takoma Park to reach its 2022 goal.

Section 3. The City of Takoma Park will maintain an annual electricity consumption inventory for all City owned buildings and energy consuming entities. This annual inventory will be conducted using Energy Star Portfolio Manager (or equivalent energy management program previously approved by the Maryland Energy Administration), the results of which will be presented to the Maryland Energy Administration by no later than April 1st of each year until the completion of said goals are accomplished.

The following information shall be included in an annual inventory of community electricity consumption and provided to the Maryland Energy Administration:

Building Type and Address	Building Size		Electricity - Conventional	Electricity - Renewable Energy	Total MWh	Electricity Consumption Intensity
	Square Feet		MWh	MWh		Total MWh/SF
<i>Community Center</i>	26,610					
<i>Public Works</i>	21,464					
<i>Heffner Park Community Center</i>	1,850					
Subtotal for Buildings	49,924					
Total						

Section 4. The City of Takoma Park will additionally conduct a Renewable Energy Action Plan to assess the amount of renewable energy that currently exists within City of Takoma Park. Any currently existing renewable energy will be included within the 20 percent reduction goal. For example, if the City determines from the Renewable Energy Action Plan that it already meets 3 percent of its energy consumption needs with renewable energy, only an additional 17 percent of

renewable energy production would be required in order to meet the City's final goal.

Section 5. The City will implement the necessary projects in order to ensure that a minimum of 20 percent of the local government buildings' energy consumption is supplemented by locally generated renewable energy sources by the year 2022.

Section 6. All inquiries should be directed to the Public Works Director who is responsible for implementing this policy. This policy applies to all departments of the City.

Section 7. This policy shall be effective immediately.

Adopted this _____ day of _____, 2013 by the Council of the City of Takoma Park, Maryland.

ATTEST:

Jessie Carpenter, CMC
City Clerk

Town/City/County Energy Efficiency Policy	
Original Proposal Date	
Revision Date	
Adoption Date	
Effective Date	