

2014 SUMMARY REPORT

RENEWABLE ENERGY & ENERGY CONSERVATION ADVISORY BOARD

(RECAB)

February 1, 2015

RECAB Purpose: The purpose of the Board is to advise the Logan City Municipal Council regarding the development, management, and funding of renewable energy and conservation programs.

RECAB Mission Statement: To conserve and use our resources efficiently and to assist in transitioning the city of Logan toward an increasingly renewable energy portfolio that is secure, diverse, cost-effective and promotes security of environment.

Background: Whereas the world's natural resources are being depleted at a faster rate than they are replenished, it is incumbent on citizens and governments to strategically work toward sustainability within their spheres of influence. Sustainability is based on a simple principle: Everything that we need for our survival and well-being depends, either directly or indirectly, on our natural environment. Sustainability creates and maintains the conditions under which humans and nature can exist in productive harmony, that permit fulfilling the social, economic and other requirements of present and future generations. Sustainability is important to making sure that we have and will continue to have, the water, materials, and resources to protect human health and our environment. (Adapted from EPA web site.)

Meeting Schedule: RECAB met 10 times during 2014, generally on the 1st Friday of each month 7:30-9:00am. It did not meet during May or August.

RECAB invited several experts who discussed his/her perspective relative to the RECAB mission statement. Guest Speakers During 2014 included:

- Mike Taylor, Solar Electric Power Association, Feb. 7, 2014
- Jackie Coombs, Utah Association Municipal Power Services (UAMPS) Mar 14, 2014
- Loraine Swenson, Former City of Logan Municipal Council Member, Apr. 4, 2014
- David Eckels, Ground Source Heat Pumps Overview, June 6, 2014
- Matt Perry, Campbell Scientific Corporation, Oct 3, 2014
- Doug Hunter, General Manager, Utah Associated Municipal Power Systems, Nov 7, 2014

Conferences attended by RECAB Board Members and Staff

- Emily Malik, Idle-Free Fleets conference, January 2014
- Loren Anderson, Jim Goodwin & Emily Malik, Intermountain Sustainability Summit, Mar 2014
- Emily Malik, Sustainable Cities Year Model Conference, Eugene, Oregon, May 2014
- Jim Goodwin & Emily Malik, Governor's Energy Summit, Jun 2014

- Loren Anderson, Jeannie Simonds, Herm Olsen Emily Malik and Byard Wood , UAMP annual conference, Aug 2014

During 2014 RECAB was engaged in two major projects: 1) Logan City Solar Farm and 2) Developing an Energy Roadmap to help the City Council develop policies relative to the RECAB mission statement.

Logan City Solar Farm

The Light & Power Department has installed a 19 KW PV (photovoltaic) solar system consisting of 80 240 W panels. It has been operating with relatively low maintenance since April 2011. Originally, RECAB supported a program that was similar to St George’s Solar Farm. Logan Citizens would be allowed to purchase panels such that they would be eligible for the Federal tax credit and a special rate on their electric utility bill. There were some legal concerns as well as the observation that the St George program was not meeting expectations. RECAB has been researching the pros and cons of selling the renewable energy at a unique rate and evaluating other city models that have installed a solar system. RECAB will be making a recommendation to the City Council within the next two months.

Renewable Energy & Energy Conservation Road-map for Logan City

To make progress towards its mission statement, RECAB decided to develop an Energy Road-map with supporting analysis to provide a framework within which decisions can begin to be made, a realistic vision of what the future might hold, and a guide to determine what options are available for the City of Logan. The road-map is intended to be a living document that can be updated as new information becomes available. RECAB has set an agenda to have its first draft of the road-map completed during this calendar year which may or may not include each technology listed below. It will be modeled after several road-maps published by the US Department of Energy. The scope of the road-map is shown below.

Road Map Outline: Each technology evaluated for roadmap considerations will include:

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|---|---------------------------------------|
| 1) Technology Overview | 4) Barriers to Implementation |
| 2) Commercial Status and Installed Capacity | 5) Life Cycle Cost Summary |
| 3) Resource Availability for Logan | 6) Effect on Cache Valley Air Quality |

Power Generation Technologies under Consideration:

- | | |
|----------------------------|------------------------|
| 1) Biomass Waste to Energy | 5) Solar Water Heating |
| 2) Central Solar Power | 6) Wind Power |
| 3) Residential PV | 7) Micro Hydro |
| 4) Geothermal Heat Pumps | |

Efficiency Technologies under Consideration:

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|--------------------------------------|----------------|
| 1) Commercial & Residential Lighting | 5) Landscaping |
|--------------------------------------|----------------|

- 2) Window Improvements
- 3) Appliance Efficiencies
- 4) Smart Thermostats

- 6) Insulation
- 7) Heating, Ventilating, and Air-Conditioning Efficiencies
- 8) Conservation Awareness/Education

2014 RECAB Membership

Board	Term	Note
Richard Anderson	2 nd Term Expired Jun 2014	Chair through Feb 2014
Byard Wood*	2 nd Term expires Jun 2016	Chair beginning Mar 2014
Jim Goodwin*	2 nd Term expires Jun 2016	Vice Chair beginning Mar 2014
Loren Anderson*	2 nd Term expires Jun 2016	
Justin Cooper	2 nd Term expires Jun 2015	Resigned October 2014
Robert Davies	2 nd Term Expired Jun 2014	
Matt Hansen	1 st Term expires Jun 2016	Resigned December 2014
David Jenkins	1 st Term expires Jun 2015	Resigned January 2015
Blake Thomas	1 st Term Expired 2014	
Peter Robertson*	1 st Term expires June 2015	
Matt Perry*	1 st Term expires Jun 2017	
Herm Olsen*	2014 City Council Appointee	
Jeannie Simmonds*	2014 City Council Appointee	

*Currently serves on RECAB

New RECAB Members Approved by Logan Municipal Council January 2015

Board	Term
Nickolas Kirkham	1 st Term expires Jun 2016
Nat Frazer	1 st Term expires Jun 2017
Steve Hansen	1 st Term Expired Jun 2017
Jason Quinn	1 st Term expires Jun 2017
Roger Leonard	1 st Term expires Jun 2017

For questions and comments:

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