



CITY OF COLUMBIA, MISSOURI

MEMORANDUM

WATER AND LIGHT DEPARTMENT
COLUMBIA TERMINAL RAILROAD

TO: Water and Light Advisory Board

FROM: Tad A. Johnsen, Director of Water and Light *Tad*

DATE: Aug 28, 2011

SUBJECT: RFP #107/2013 Renewable Energy

In June, 2013 Water & Light issued a Request for Proposal (RFP) through the City's purchasing department for additional renewable energy supply that would meet future requirements of the Columbia renewable portfolio standard. This RFP closed July 12. Upon receipt of these proposals an evaluation committee was formed and interviews were conducted to evaluate the details submitted. After these discussions and further evaluation, the evaluation committee recommended that two proposals, Wind and Photovoltaic (PV), appear to warrant further consideration.

Type of Renewable	Capacity	Capacity Factor	Annual MWh's	Contract Length	Portion of CWL Annual Energy
PV	20 MW	23%	40,000	20 yrs	3.4%
Wind	20 MW	33%	58,000	20 yrs	4.9%

The following information has been developed to illustrate the comparative cost vs benefit ratios for existing and these two proposed renewable resources.

2012 Data

Factors

3% Impact on Rates 2013 \$3,219,624
System Energy 1,180,154

<u>Resources</u>	<u>IoR</u>	<u>%\$</u>	<u>Energy (MWh)</u>	<u>%E</u>	<u>%IoR/%E</u>
Columbia LFG	(\$16,916)	-0.02%	15,240	1.29%	(0.012)
Jefferson City LFG	\$99,859	0.09%	21,429	1.82%	0.051
Bluegrass Ridge	\$668,385	0.62%	14,844	1.26%	0.495
Crystal Lake Wind	\$1,420,481	1.32%	35,998	3.05%	0.434
PV	\$6,133	0.01%	271	0.02%	0.249
MPP	(\$212,671)	-0.20%	5,964	0.51%	(0.392)
Totals	\$1,965,271	1.83%	93,746	7.94%	

Proposed Wind 0.158
Proposed PV 0.621

Although additional renewable energy may not be required until 2017, staff believes current market conditions are favorable at this time to proceed with negotiations for a contract with the Proposed Wind supplier. Staff is currently working on a community PV proposal and is planning to investigate how either our existing FPC or Proposed PV resource could be facilitated as a part of this program proposal.

RECOMENDATION: Proceed with contract negotiations with the selected renewable wind energy proposal. If details can be worked through, an award recommendation will be presented.