

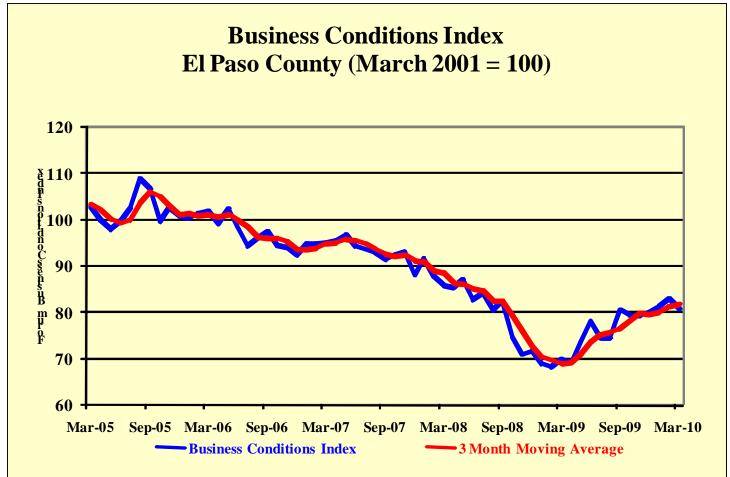


Quarterly Updates and Estimates

Volume 8, Number 4, 2010 Fred Crowley - Senior Economist

Update on the El Paso County Economy

The January 2010 *QUE* reported that the local economy was growing and had been expanding since February 2009. As anticipated, the Business Conditions Index (BCI) remained in the low 80's during the first quarter of 2010. The BCI now stands at 80.90. This is up 15.7 percent from March 2009 when the BCI was 69.90. An easing in the growth following the initial months of recovery in a business cycle is not unusual. The current flow of information suggests the second quarter of 2010 will see modest gains in the BCI. The BCI is expected to be in the 82-85 range in the second quarter of 2010. All indications point to a local economy that is out of the recession. The indicators also point to a local economy that will be slow to recover from the recession.



¹ The Business Conditions Index (BCI) is a geometric index of ten seasonally adjusted data series. The El Paso County data are single family and town home permits, new car sales, employment rate, foreclosures, ES202 employment and ES202 wages and salaries. Colorado Springs data are sales and use tax collections and airport enplanements. University of Michigan's Consumer Sentiment and the Federal Reserve Bank of Kansas City Manufacturing Index are non-local indicator in the BCI. The BCI is indexed to March 2001 = 100. All raw series are seasonally adjusted by UCCS Southern Colorado Economic Forum using the Department of Commerce X12 adjustment process.



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Table 1: Business Conditions Index Components - All Values Indexed to Mar 2001 = 100											
	COS Enplane-		U Of Mich Con	Kansas City Fed	El Paso <i>Employ-</i>	CoSpgs 2% Sales & Use	County New Car Registra-	El Paso County Fore-	El Paso County	El Paso County Real	
	ments	Permits	Sent	Mfg Index		Tax	tions	closures	Employed	Wages	BCI
Dec-08	79.57	16.87	66.14	76.98	96.33	91.51	54.39	98.26	107.59	102.44	71.62
Jan-09	79.02	17.92	65.64	62.78	95.93	89.24	47.62	98.17	107.00	97.16	68.95
Feb-09	78.56	17.71	61.71	59.79	95.42	90.86	49.06	97.78	106.68	96.60	68.27
M ar-09	87.83	17.50	62.31	64.65	95.23	98.11	48.37	97.94	106.14	95.78	69.90
Apr-09	87.24	12.44	71.50	78.10	95.22	92.01	47.46	97.74	107.69	93.66	69.11
M ay -09	80.54	25.94	75.30	90.06	95.20	87.36	39.86	97.83	106.37	93.30	73.43
Jun-09	80.15	32.26	75.93	106.13	95.37	94.46	47.81	98.18	104.00	92.33	78.12
Jul-09	77.96	24.25	71.27	101.27	95.22	92.14	46.62	96.91	103.97	93.15	74.46
Aug-09	81.52	23.83	71.94	100.52	95.42	96.00	44.01	97.65	103.46	92.67	74.55
Sep-09	84.89	29.73	81.95	127.80	95.46	91.27	54.03	97.55	103.30	92.24	80.60
Oct-09	84.00	26.78	80.77	125.19	95.42	90.71	51.02	98.04	102.80	98.83	79.44
Nov-09	83.00	22.35	74.85	141.63	95.55	99.15	52.83	97.87	103.87	97.68	79.25
Dec-09	77.08	27.20	79.78	128.92	95.33	92.67	58.68	97.46	102.89	96.38	80.05
Jan-10	77.73	25.94	79.79	139.76	95.21	95.96	65.22	98.13	103.50	91.82	81.22
Feb-10	74.94	39.64	80.67	143.12	95.02	101.20	48.92	100.79	103.72	91.04	82.91
Mar-10	71.83	33.32	80.03	146.11	94.89	100.50	47.59	100.79	104.06	90.12	80.90
March 2010 Compared to:											
Feb-10	-4.2%	-16.0%	-0.8%	2.1%	-0.1%	-0.7%	-2.7%	0.0%	0.3%	-1.0%	-2.4%
Dec-09	-6.8%	22.5%	0.3%	13.3%	-0.5%	8.5%	-18.9%	3.4%	1.1%	-6.5%	1.1%
Sep-09	-15.4%	12.1%	-2.3%	14.3%	-0.6%	10.1%	-11.9%	3.3%	0.7%	-2.3%	0.4%
M ar-09	-18.2%	90.4%	28.4%	126.0%	-0.4%	2.4%	-1.6%	2.9%	-2.0%	-5.9%	15.7%
Real wages	in El Paso G	County are e	estimated by	the Forum f	or the period	Oct '09 thr	ough Mar '1	0			

Activity at the airport has been hindered by two factors. First, U.S. Airways discontinued service. U.S. Airways had represented 10 percent of all enplanements in March 2009. Second, business and tourism activity have not rebounded. Some improvement is expected later in 2010. Residential construction benefited from first time and trade-up home buyer tax credits. Permit activity suggests there is support for the beginnings of a slow recovery in new residential construction. This is supported to a modest degree with the decline in the number of foreclosures in the local economy. Improvement in consumer sentiment stabilized and is 28.4 percent higher than a year ago. Slow job growth will keep consumer sentiment from strong gains in the coming months. Manufacturing activity has shown exceptionally strong activity. This is expected to slow down in the coming months. New vehicle registration activity dropped from the winter months. Some improvement and incomes rise in the coming months as employment and incomes rise in the coming months as employment and incomes routed and incomes continue their gradual improvement.

Employment and income trends are among the last indicators to show recovery from a recession. The latest employment numbers for April 2010 indicate employment conditions began improving in January 2010. Since January, employment increased by 4,545 while the number of unemployed decreased by 1,341. At the same time, optimism about the economy apparently contributed to an increase in the labor force by 3,204. Modest gains in employment and wages are expected through the second quarter.





Renewable Energy Study

Many of you took the time to complete a survey on renewable energy in April. The results of the survey are included with this issue of the *QUE*. The complete study, *Assessing Domestic Renewable Energy Markets* by the Ad Rem Project is available to download at:

http://www.uccs.edu/~business/media/assets/Ad%20Rem%20Project%20-%20Final%20Report%20C.pdf

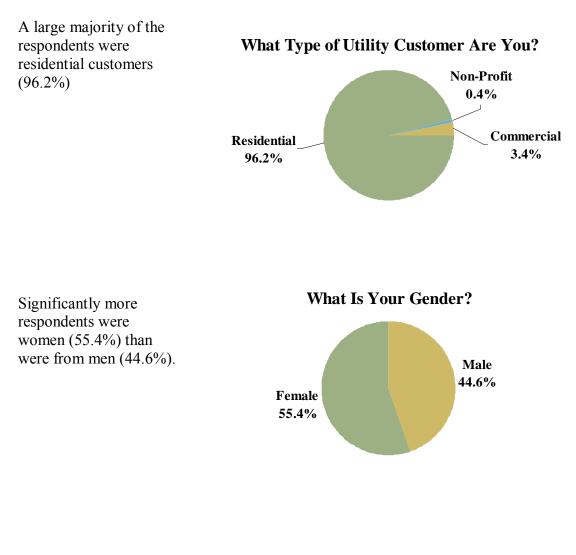
The Ad Rem Project examined solar and wind energy for the local economy. It covered legal, environmental, ltax credits, economic impact and financial feasability.

7: Renewable Energy Survey

7.0 Introduction

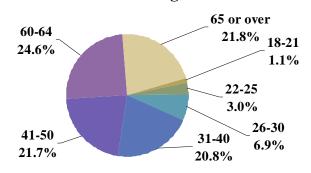
The Ad Rem Project conducted an internet-based survey among several thousand individuals in the Colorado Springs region and Colorado. While not a statistically designed survey, the number of responses is believed to be a reliable measure of consumer sentiment about renewable energy. A total of 740 responses were received. Of these, 710 responses were found to be complete. The survey asked for general demographic measures and preferences opinions about renewable energy. This chapter presents the results of the survey.

7.1 Descriptive Statistics

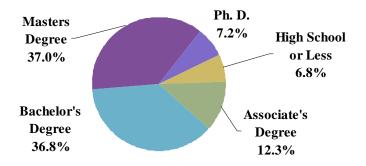


The greatest proportion of responses were obtained from people who are over age 60 (60-64, 24.6% and 65 or older 21.8%). Young adults were not part of the target audience. Homeowners were targeted.

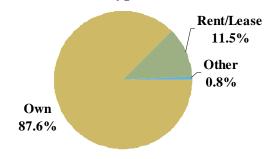
The respondents are well educated. Approximately 81 percent hold a BA or higher degree. What Is Your Age?



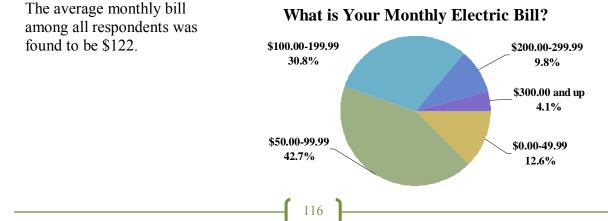
What Is Your Educational Attainment?



What Is Your Type of Residence?

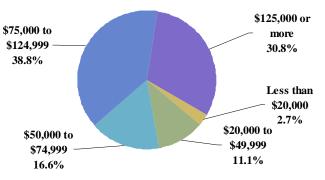


The Ad Rem Project sought to have the input of homeowners to the survey. The great majority of respondents own a home (87.6%).



Given that most respondents were age 55 or older, higher household incomes were expected. Approximately 69.6 percent have annual household incomes of \$125,000 or more.

What is Your Household Income?

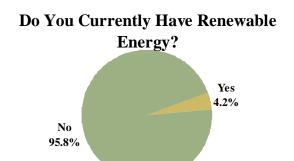


A naïve expectation suggested welleducated, high-income homeowners would be willing to pay more for renewable energy. Approximately 22 percent said they would pay a premium while 43.6 percent they might.

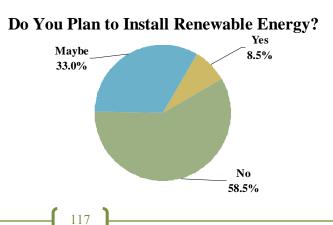
Renewable energy systems are in the formative stages of development. Very few respondents currently have renewable energy (4.2%). Renewable Energy? Yes 21.9% 43.6% No

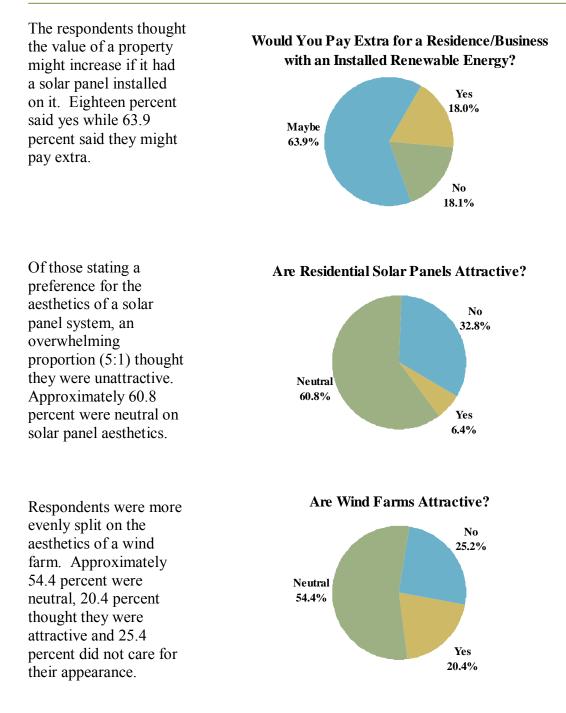
34.5%

Are you Willing to Pay Higher Prices for



Of those respondents without renewable energy, 8.5 percent indicated they plan to install it. Another 33 percent indicated they might install renewable energy.





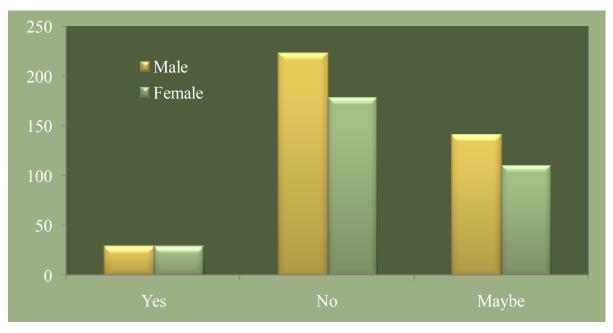
7.2 Controlling for Demographics

Additional insight about consumer perception of wind and solar power can be gained by controlling for demographic characteristics among the respondents. For example, does income influence renewable energy preferences? Is there a preference for renewable energy by gender? Time limitations of the study restricted analysis of responses to a limited number of questions.

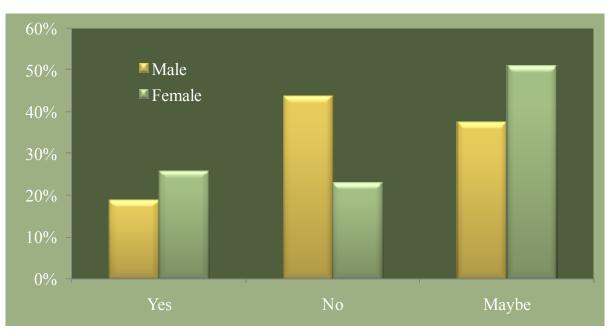
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7.2.1 Gender and Willingness to Pay More for Electricity from Renewable Energy

Men indicated a strong dislike of higher electricity prices from renewable energy. Proportionately, men disliked higher electricity price by a 2.3:1 ratio. Women were more willing to pay higher electricity prices by a small margin.



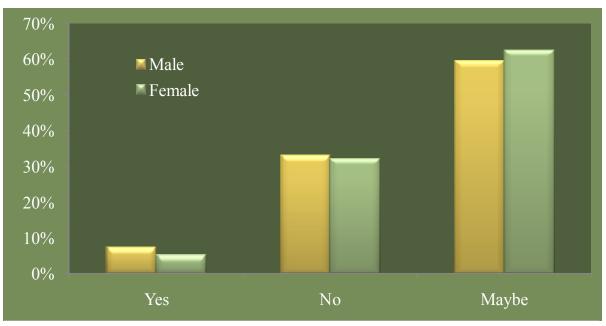
Total Responses by Gender



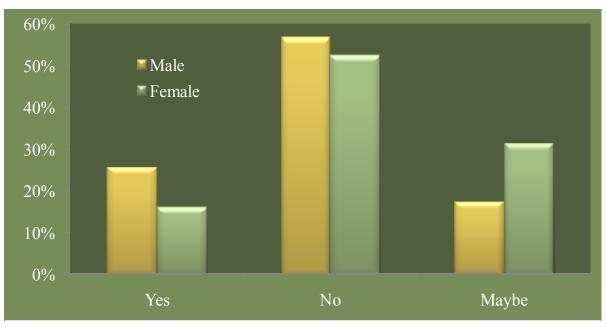
Response Proportions by Gender

7.2.2 Are Solar Panels and Wind Farms Attractive?

Neither men nor women thought the appearance of solar panels were attractive. While both thought wind farms were not attractive, both men and women found them more appealing than solar panels on a roof. Men appeared to be more tolerant of their visual impact than women were.



Response Proportions by Gender – Are Solar Panels Attractive?



Response Proportions by Gender – Are Wind Farms Attractive?

7.2.3 Income and Willingness to Pay Higher Prices for Renewable Energy

The number of respondents whose household income fell into lwer categories was limted. When the responses were viewed as proportions, there appeared to be an inverse relation between income and willingness to pay more for renewable energy. A larger, stratified random sample would help to verify if this relationship exists.



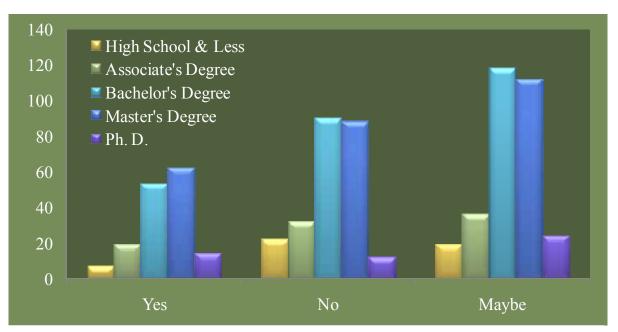
Total Response By Household Income – Are You Willing to Pay Higher Prices for Renewable Energy?



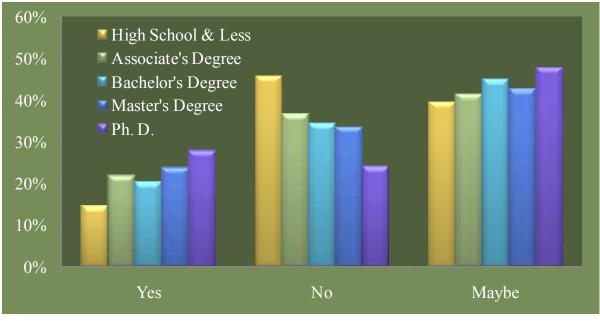
Proportional Response By Household Income – Are You Willing to Pay Higher Prices for Renewable Energy?

7.2.4 Education and Willingness to Pay Higher Prices for Renewable Energy

The last measure reported in the Ad Rem Project for which a control measure was used is household income and willingness to pay higher prices for renewable energy. Respondents with higher educational attainment are more likely to be willing to pay higher prices for renewable energy than those with less education. The large number of responses in the maybe category suggests the respondents might want to know how much more renewable energy will cost



Total Responses by Educational Attainment – Are You Willing to Pay Higher Prices for Renewable Energy?



Proportion of Responses by Educational Attainment – Are You Willing to Pay Higher Prices for Renewable Energy?

7.3 Summary

The Ad Rem Project conducted a survey to determine the perception that electricity consumers had about the use of renewable energy if it increased utility rates. Seven hundred and ten valid responses were gathered through the survey. The Ad Rem Project found that 21.9 percent of the respondents were willing to pay a higher price for electicity to use renewable energy. Another 43.6 percent indicated they might be willing to pay higher prices. The question did not give a range for how much higher the price of electricity might be if renewable energy was the source of electricity. The Ad Rem Project did not believe it had sufficient information to provide incremental cost estimates for renewable energy's impact on electricity rates.

The survey pointed out that very few respondents (6.4%) think solar panels are attractive. On average, 20.4 percent of the respondents thought wind farms are attractive. By gender, the survey indicated 25.7 percent of men thought wind farms are attractive vs. 16.1 percent of women.

There was a bit of a surprise among respondents by income. Lower income groups were more willing to pay higher prices for electricity from renewable energy than higher income groups.

Educational attainment did influence the willingness to pay higher prices for electricity from renewable energy. There were about the same number of respondents who indicated a high school or lower level of education (48) as those who indicated they had a Ph.D. (50). Respondents with a Ph.D. were twice as willing to pay higher electricity prices as those with a high school or less level of education. In general, higher levels of educational attainment meant a greater willingness to pay higher electricity prices from renewable energy.





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