



## NEW MEXICO

*The New Mother Lode: The Potential for More Efficient Electricity Use in the Southwest* examines the potential for and benefits from increasing the efficiency of electricity use in the southwest states of Arizona, Colorado, Nevada, New Mexico, Utah, and Wyoming. The study models two scenarios, a “business as usual” Base Scenario and a High Efficiency Scenario that gradually increases the efficiency of electricity use in homes and workplaces during 2003-2020.

Following are New Mexico-specific data and results:

### *Electricity Consumption and Expenditures in 2000*

Electricity Consumption (GWh/yr)	18,800
Total Expenditures (billion \$)	1.24

### *Electricity Generation in 1999*

	Coal-fired	Natural gas-fired	Hydro power	Nuclear/other	All sources
GWh	28.1	4,200	200	-	32,600
% of Generation	86	13	1	-	100

### *Average Growth Rates of Electricity Use in the Base and High Efficiency Scenario, 2003-2020 (%/yr)*

	Residential	Commercial	Industrial	All
Base Scenario	2.3	2.0	0.1	1.6
High Efficiency Scenario	0.2	-0.7	-1.7	-0.8

### *Electricity Demand Reductions in the High Efficiency Scenario, by Sector*

	2010				2020			
	Res	Com	Ind	All	Res	Com	Ind	All
GWh/yr	990	1,810	1,270	4,070	2,320	4,360	2,220	8,900
Percent	16.5	19.6	21.0	19.2	31.0	38.7	36.3	35.8

*Avoided New Capacity in the High Efficiency Scenario (MW)*

	Coal	Natural Gas	Renewables	Total
<b>2010</b>	350	610	10	970
<b>2020</b>	750	1,130	530	2,410

*Costs and Benefits in the High Efficiency Scenario (Cumulative Present Value, Billion 2000\$)*

	Electric Sector & Natural Gas Price Benefits	Energy Efficiency Costs	Net Benefits	Benefit-Cost Ratio
Commercial	1.7	0.3	1.4	6.5
Residential	0.9	0.3	0.6	3.0
Industrial	1.1	0.3	0.8	3.7
<b>Total</b>	<b>3.6</b>	<b>0.8</b>	<b>2.8</b>	<b>4.3</b>

*Emissions Reduction Estimates in the High Efficiency Scenario*

	2010		2020	
	Reduction	% Change	Reduction	% Change
Carbon (MMTCE)	0.9	11	1.8	20
SO2 (million tons)	0.0006	1	0.0017	3
NOx (million tons)	0.0019	2	0.0035	3
Mercury (tons)	0.01	1	0.03	2

*(Note: MMTCE – million metric tons of carbon equivalent. This is the standard unit of accounting for carbon dioxide; other units are U.S. short tons.)*

*Water Savings in the High Efficiency Scenario (billion gallons per year)*

	Coal plants	NG plants	Res-eff CWs	Total
<b>2010</b>	1.82	1.01	0.43	3.26
<b>2020</b>	4.36	0.90	1.27	6.53

*(Note: The sources of water savings are coal-fired power plants, natural gas-fired power plants, and resource-efficient clothes washers..)*

*Macroeconomic Impacts*

	Net Change in Jobs	Change in Wage and Salary Compensation (million \$)
<b>2010</b>	2,600	50
<b>2020</b>	6,900	130

*(Note: Dollar figures are in millions of 2000 dollars while employment reflects the actual job total.)*