



Human Energy™

Will You Join Us

Energy Efficiency and Economic Development

Lisa Romney – Business Development Manager
Chevron Energy Solutions
448 E. Winchester Street
Salt Lake City, UT 84107

CHEVRON ENERGY SOLUTIONS: Why would an oil company be in the energy efficiency business?

\$1 Billion in Energy Efficiency and Renewable Energy Projects. (Not **profit**, yet...)

Place to integrate R&D

Implementing energy efficiency and renewable energy projects makes us look and feel good.

Profitable business

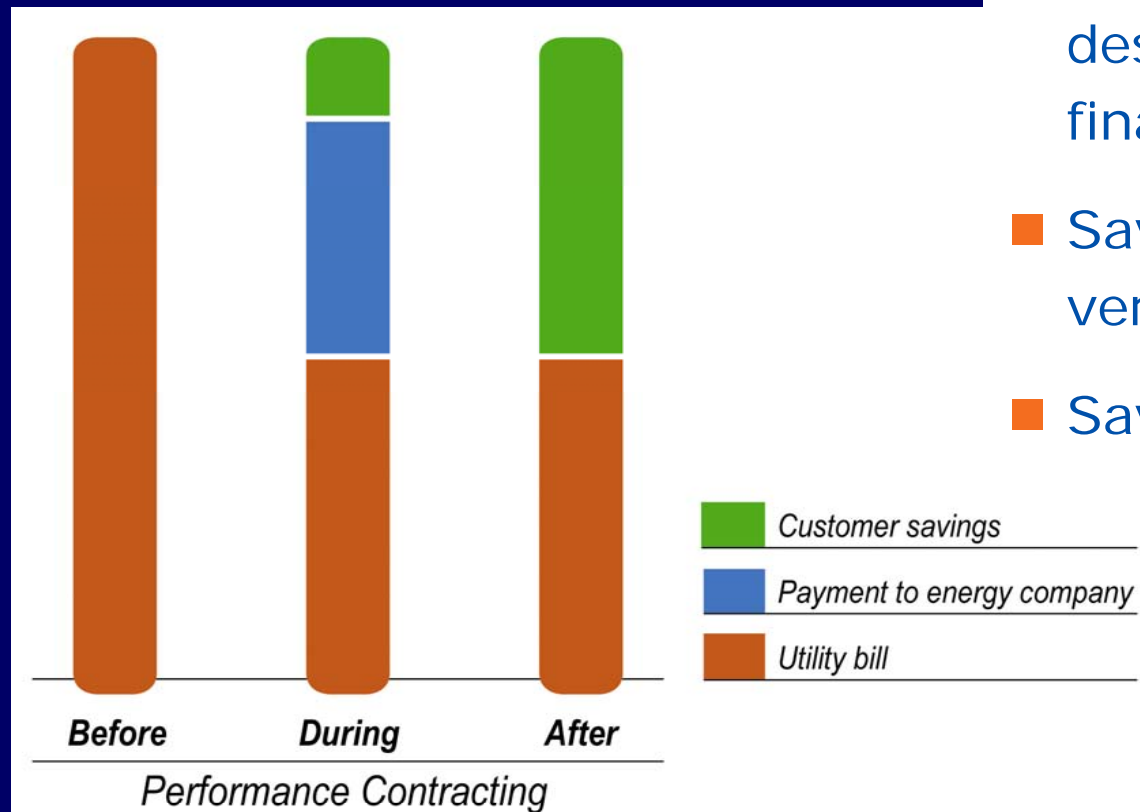


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Performance Contracting

- Completely turn key – single contractor
- Project is financed
- Savings cover all project design, implementation and financing costs
- Savings are measured and verified
- Savings are guaranteed



Energy Service Performance Contracting

ESC and U.S. D.O.E initiative to take ESPC from a **\$3.6 billion** industry to a **\$6 billion** industry in municipal government, universities, schools, and hospitals.



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Chevron Energy Solutions - UTAH

University of Utah (Phases I-VI)	\$64,000,000
Ogden Regional Center	\$600,000
Utah Valley University	\$10,000,000



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Job Creation: University of Utah Energy Cogeneration Project



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Engineering and Design	9	18 months
Managers and Supervisors	5	18 months
Asbestos Abatement	16	7 months
Demolition Workers	14	4 months
Manufacture Boiler	10	6 months
Manufacture Turbine	10	6 months
Pipe fitters and plumbers	10	8 months
Carpenters	4	8 months
Millwrights	8	7 months
Iron Workers and Welders	6	4 months
Sheet metal workers	4	6 months
Electricians	6	18 months
Electrical Linemen	8	5 months
Plaster and Paint	4	2 months
Concrete Placement	6	1 month
Masonry	8	1 month

128

Highly Skilled Workers



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MAN HOURS AND EARNINGS:

Engineers, Managers and Supervisors =

Man Hours: 29,160

Earnings: **\$2,916,000.00**

Skilled labor =

Man Hours: 107,280

Earnings: **\$6,973,200.00**



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Project Size and Savings: Utah Valley University



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SUBSTATION BEGINS



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SPECIAL ORDER DUAL VOLTAGE TRANSFORMERS



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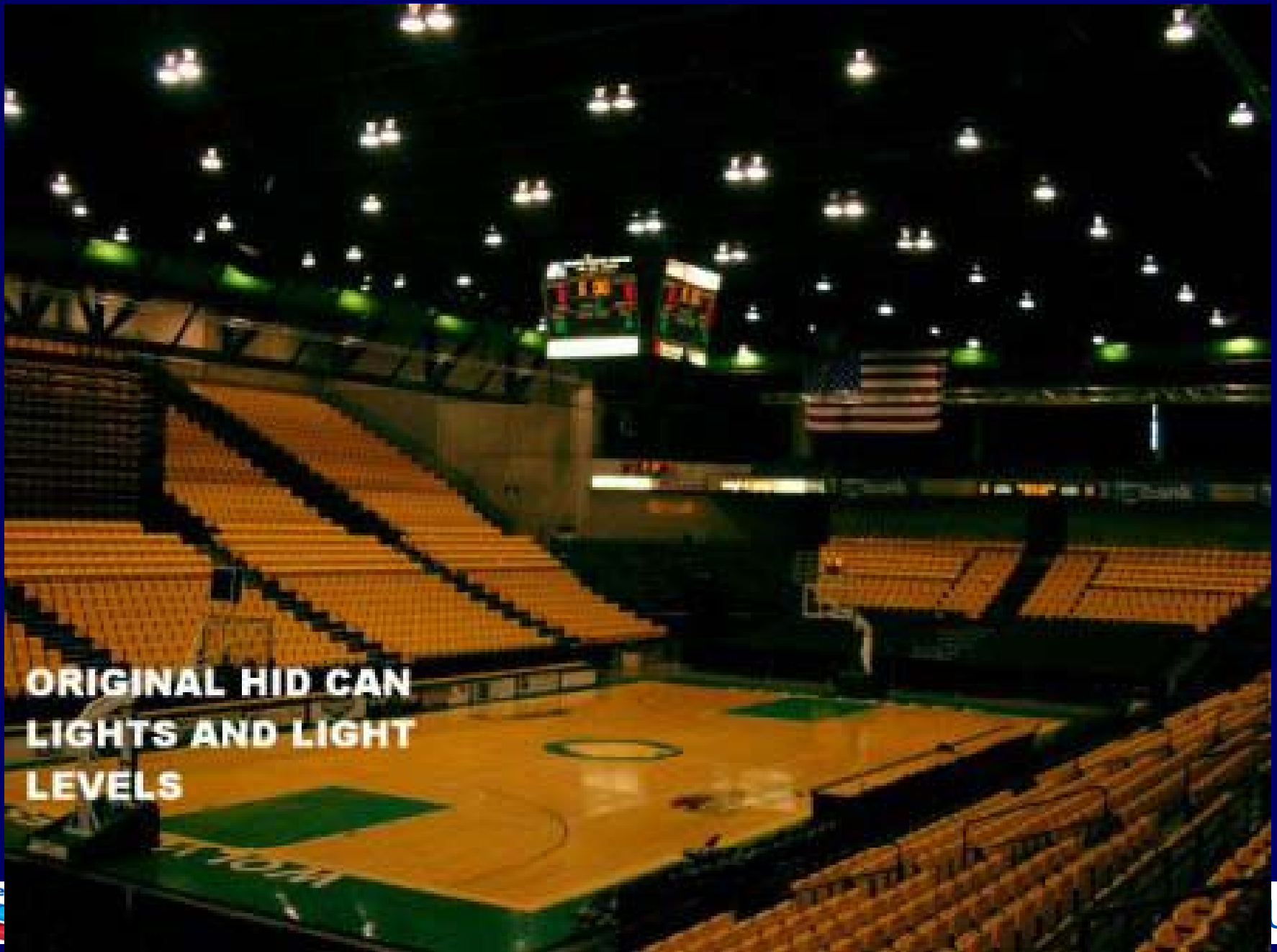
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**REPLACEMENT OF AGEING
CAMPUS LOOP 12.5KV**



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**ORIGINAL HID CAN
LIGHTS AND LIGHT
LEVELS**





NCAA LIGHTING STANDARDS!!!!

NEW INSTANT ON ELECTRONIC BALLASTS & T-5 HIGH BAY LIGHTING / MULTI SWITCHED



Savings:

\$15,779,124



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\$586,146



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\$627,688



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ALL ACCOMPLISHED WITH PAID FOR BY SAVINGS ENERGY EFFICIENCY PROJECTS



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Compare In-House Energy Efficiency Projects

*** < 5 year payback = lighting ***

Overwhelmingly resulted in light bulb purchase and installation by existing state employees.

Left capital improvements to be funded by the Capital Budget.

Did not encourage economic development in the State of Utah.



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Energy Efficiency Investments in the Region

STATE OF COLORADO	
Population (2005)	4,665,177
Performance Contracting Completed	\$202,000,000
Dollars Per Capita	\$43.30

***** \$30 per capita**



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Utah Market Overview

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