

# JUST FOR SCHOOLS STIMULUS ENERGY GRANT WORKSHOP

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# Deer Valley Unified School District History

DVUSD has a long-standing commitment to conservation efforts

- Drivers of Energy Stewardship
  - Governing Board
  - Constituents
  - Business Community
  - Students
  - Financial Motivation (Elimination of Excess Utilities)
- Funding
  - 2004 - \$90 million bond → \$13.4 million for facility standards and energy conservation
  - 2008 - \$148 million bond → \$34 million for conservation efforts and energy efficiencies

# Why Do Energy Related Projects?

- School utility budgets now are within the budget limit so these costs compete for the same dollars as all other expenses
- Energy related projects can have a return on investment time period of as little as 18 months
- Environmental impact



# Funding for Energy Related Projects

## School Funding Options

- Capital
- Building Renewal Balances
- Bonds/Capital Override
- Grants
- Guaranteed Energy Cost Savings Contracts (ARS 15-213.01)
- Leverage Utility Company Incentives



# Summary of Deer Valley Unified School District APS Solutions for Business Projects

## ◎ 2006-2007

- 10 Cooling Projects (HVAC replacement)
- 13 Custom Projects (EMS and controllable stats)
- 7 Motor Projects (motor replacements)
  - \$403,368.74 in APS Incentives
  - 6,688,250 projected annual kWh savings



# Summary of Deer Valley Unified School District APS Solutions for Business Projects

## ◎ 2008

- 5 Cooling Projects (HVAC replacement)
- 9 Custom Projects (EMS/controllable stats, and HVAC improvements)
  - \$300,000 in APS Incentives (the cap)
  - 3,446,016 projected annual kWh savings



# Summary of Deer Valley Unified School District APS Solutions for Business Projects

- ◎ 2009 (to date)
  - 5 Cooling Projects (AC replacement)
  - 7 Custom Projects (EMS/controllable stats, & lighting retrofits)
  - 1 Lighting Retrofit Project
  - 2 Motor Projects (motor replacements)
    - \$261,771.03 in APS Incentives
    - 2,419,861 projected annual kWh savings



# Benefits of Energy Related Projects

- Reduced energy costs
- Reduced run-time on systems
- Decreased maintenance cost
- Better control and comfort of building systems
- Improved environmental impact
- Potential learning opportunities

# Deer Valley Unified School District Signs of Success

- Approaching \$1,000,000 in APS incentives
- 3,024,321 kWh reduction comparing 2007-08 to 2008-09
  - @.11/kWh equals over \$332,675
  - CO<sub>2</sub> equivalency of 246,538 gallon of gasoline consumed
- 3 Energy Star Schools

Questions