



Downwinders

reducing toxic air pollution in north texas *at risk*

Applicant Information Form Sue Pope North Texas Pollution Reduction Program

| | |
|------------------------------|--|
| Organization: | Fort Worth Independent School District |
| Organization type | School District |
| Organization Street Address: | 100 N. University Dr., Suite 301 |
| City, State, Zip | Fort Worth, Texas, 76107 |

| | | | | | |
|---|--------------|------|----------------------------------|-------|----------------------------|
| Project Officer (Title, First, MI, Last, Suffix): | | | | | |
| Stojan Trickovic, Energy Management Coordinator | | | | | |
| Phone— extension | 817.871.3071 | Fax: | 817.871.3317 | Email | stojan.trickovic@fwisd.org |
| Project Name | | | Gymnasium Lighting Upgrades | | |
| Location of Project | | | 125 Schools throughout the FWISD | | |
| Project Start Date (MM/DD/YYYY) | | | Estimated: 04/15/2009 | | |
| Project End Date (MM/DD/YYYY) | | | Estimated: 05/30/2010 | | |

| | | |
|--|------------------------|-----------------------|
| BUDGET: Please summarize your budget request in the space provided. You should also provide a more detailed budget in your preproposal. | | |
| Line Item | Requested Funds | Matching Funds |
| Salaries and Benefits | N/A | N/A |
| Equipment | N/A | /NA |
| Other: Material and Labor | Sue Pope: \$270,000 | FWISD: \$270,000 |

| | | |
|---------------|----------------------------|-------------------------|
| Total: | Sue Pope: \$270,000 | FWISD: \$270,000 |
|---------------|----------------------------|-------------------------|

Use this Page to Provide Us With Additional Information:

Preproposals shall be no longer than five pages, and should include a description of the activities for which the applicant requests funding, the deliverables and environmental results, a detailed budget, and project timeline. Applicants should specifically address the two review criteria and identify the project activities that will address each of these criteria. All preproposals should also include the applicant information form (attached to this program announcement).

Please provide us with additional information regarding the project

Targeting Disadvantaged Groups: Fort Worth Independent School District (FWISD) is a large urban school district and has an enrollment of 78,732 with an ethnic breakdown of 58.2% Hispanic, 25.6% African American, 14.3% White, and 1.9% other groups. Economically disadvantaged students comprise 68.8% of the district population, and 28.4% of the students have limited English proficiency. FWISD is currently the fifth largest school district in Texas with eighty elementary schools, twenty-four middle schools, thirteen high schools, and twenty-seven alternative schools. In two years, FWISD's utility costs have increased by \$7 million and the district anticipates another \$2 million increase in 2008-09. In addition, our fuel costs have increased by \$2 million, yet the state is still reimbursing the district for fuel at the 1984 rates.

Achieving Key Results: FWISD is requesting grant funds to retrofit gymnasium lighting in 125 gymnasiums throughout the district. The district's gymnasiums use standard, metal halide high-bay fixtures which have long been the method of choice for illuminating gymnasiums. However, high-bay fixtures with fluorescent lamps, specifically T5 high-output (HO) have the same lifetime as metal halide lamps while producing the same or better brightness at much higher efficiency.

Based on ONCOR Energy worksheets, we estimate that replacing the metal halide fixtures with the fluorescent T5 HO equipment will reduce electricity demand by 319.7 KW. This results in electricity consumption reduction of 6,394,000 KWH through the lamps' life time of 20,000 hours.

The replacement of metal halide lamps with the T5 HO fixtures is directly tied to reduction of Flue Gas emissions into atmosphere from power plants that use fossil fuel (natural gas and coal). In particular this retrofit will reduce the emission of Nitrogen Oxides, NOx, Carbon Dioxide, CO2, and Sulfur Dioxide, SO₂, into the atmosphere.

Public Impact: The educational component to increase awareness of issues related to air quality include signage in gymnasiums to highlight the reduction in energy consumption and NOx and Flue Gas emissions and highlights posted in district communications including photographs and promotional materials on gymnasium lighting upgrades.

Please let us know if additional information is needed.