

LOCAL LEARNING RESOURCES

METHANE ENERGY CAPTURE & WIND AND SOLAR ENERGY PRODUCTION

City action helped turn the smelly gas emitted from the landfill into a viable energy source, saving the city millions of dollars. Additionally, the Landfill uses wind and solar energy to supplement its energy supply.

<http://apps.cityoffargo.com/solidwaste/energyproduction/>

LED RETROFIT

All 5,400 incandescent traffic lights have been replaced with LED's, and 85% of the city's 2,400 pedestrian lights have been replaced. This saves the city \$30,000 annually.

MATBUS GENERATOR AND BIODIESEL

MATBUS uses 20% blended biodiesel fuel during the summer, and the Metro Transit Garage utilizes a power generator during peak energy-use times to reduce costs and power-grid loads.

**BICYCLES AND
TRANSPORTATION
ENERGY**

Great Rides Bike Share program was initiated by NDSU students and has quickly grown to be a successful alternate transportation option. Solar-powered bike stations populate downtown and the NDSU campus where students and the public may use the bicycles free-of-charge for short trips.

**CCEC'S ENERGY
PRODUCING BIKE**

Cass County Electric Coop has an energy bike that provides an opportunity to demonstrate an energy concept in a visual way. It allows riders energy to be transformed into light. The bike promotes energy conservation and teaches lighting technology as it compares to LED (light emitting diode) and CFL (compact fluorescent) light bulbs to incandescent light bulbs. It takes more pedal power to run the incandescent light bulbs than it takes to run one of the bulbs that uses less energy. Hands-on demonstration and presentations available that last 30-60 minutes.

**BLOWER-DOOR
DEMONSTRATION**

An effective way to test a buildings energy performance is to use a blower door to measure how well the building retains warm or cool air. Workshops may be arranged to demonstrate an energy performance test.

**NDSU STUDENT
GROUPS**

efargo is has partnered with with various NDSU Student Organizations including USGBC-NDSU and the Society of Women Engineers who have prepared lessons and workshops to share with students in schools. Other student organizations such as Tau Beta Pi and NDSU Lions will assist by volunteering time where needed n schools.

**WASTE WATER
RECYCLING**

Up to two million gallons of wastewater are sold daily to a nearby ethanol plant, producing an effect that is equivalent of taking 28,000 vehicles off the road each year. The city earns \$800,000 while eliminating the need for using natural river and ground water sources.

<http://www.cityoffargo.com/CityInfo/Mayor/FargoEnergyUse/>