

## CASE STUDY



# New Orleans, Louisiana (NOLA) Schools Energy Audit Reports

**Projects:** Energy Saving Audits of the following schools:

- International School of Louisiana
- John C. Dibert Elementary School
- Pierre A Capdau Elementary School
- Warren Easton High School



### Scope:

The National Renewable Energy Laboratory (NREL) was asked by Global Green USA, the US affiliate of Green Cross International, to conduct a comprehensive energy audit of the International School of New Orleans, Louisiana, as part of its Green Seed Schools program, as described on Global Green's website.



NREL contracted with Celtic Energy, Inc., a long time NREL consultant, who partnered with EMO Energy Solutions to conduct a comprehensive audit in only 30 days. The audit identified many different energy efficiency and renewable energy opportunities which will *save this school almost 60% of its costs*, and improve the learning environment for students. CEI also assisted NREL with audits on three other schools, identifying significant HVAC and lighting opportunities.

**Features:** Energy conservation measures to be implemented include:

- Upgrade EMS throughout
- Replace existing 32W Fluorescents with 28 W Lamps
- Occupancy Sensor Lighting Controls
- Install Computer "Sleep Mode" when not in use
- Install Photocell Control Ballasts
- Replace Fluorescent Fixtures
- Install permanent window treatments
- Weather Seal Doors and Openings
- Solar Water Heating
- Replace AHU's with Ground Source Heat Pumps (GSHP)
- Replace Chillers and Install variable speed drives (VSD) on chilled and hot water pumps

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