Solar Generation At Arlington Public Schools





Agenda
Sustainability Commitment
PV Projects
Glebe Elementary School
Wakefield High School
Discovery Elementary School
Lessons Learned





Integrated Facility Sustainability Policy (2008)

LEED Silver Certification

Arlington County Community Energy Plan (2013)

Renewables – 160 MW Capacity by 2050

Public, Private and Non-Profit Sectors

Arlington Solar Co-Op

Community Energy Plan





Sustainability Commitment

Design and Construction - USGBC LEED Guidelines

Langston Brown – LEED Silver 2003

Washington-Lee HS – LEED Gold 2009

Reed Westover – LEED Gold 2010

Yorktown HS – LEED Gold 2014

Instruction

Maintenance and Operations

Superintendent's Advisory Committee on Sustainability





Glebe Elementary – Solar2Schools Initiative

NEED, SolarWorld, Astrum Solar and APS Partnership

1.1 kW Classroom Solar Demonstration

Online Portal





Wakefield High School Sustainable Design - LEED Benchmark Geothermal Heating and Cooling 90 kW PV System Solar Thermal - Domestic Hot Water





90 kW Solar Array Design Maintenance Curriculum Solar Dashboard



Commitment To Sustainability Beyond LEED

Net Zero

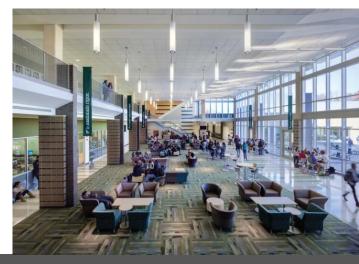
Geothermal Heating and Cooling

Natural Lighting

Solar PV Arrays

Solar Thermal – 100% Domestic Hot Water









Discovery Elementary School

630 students

Pre-K to 5th grade

Approximately \$35 million construction cost

98,000 gsf / 15.5 acres

Net Zero Design

496 kW Solar PV Generation



Discovery Elementary School

Insulated Concrete Forms

Geothermal Heating and Cooling

LED Lighting

Solar PV and Solar Thermal

Solar Lab

Solar Tubes







Lessons Learned Strong Teams Initial Design Phase Target EUI Flexibility Community Support



