BRINGING AROUND REAL CHANGE
JOBS. ECONOMY. ENVIRONMENT.

INNOVATIVE ENERGY EFFICIENCY
FINANCE SOLUTIONS
K-12 school districts spend more than $8B annually on energy.

Energy costs are second only to personnel costs in K-12 operating budgets.

As much as 30% of a district's energy is used inefficiently or unnecessarily.

Estimated $2B can be saved annually by improving energy efficiency in K-12 schools.

Equivalent to the cost of nearly 40 million new textbooks.
Energy efficient lighting systems and controls to improve light quality and reduce heat gain

Install occupancy sensors to turn off lights and other services when not in use

Upgrade & maintain heating and cooling equipment – replace CFC chillers, retrofit/upgrade boilers to energy-efficient standards

Install window films, insulation or reflective cool roofs to reduce energy consumption

Implement programmable thermostats and/or energy management system to control and optimize energy consumption

Install solar generation system for renewable power

EXAMPLES: ENERGY UPGRADES FOR SCHOOLS
BENEFITS OF ENERGY EFFICIENCY IN K-12 SCHOOLS

REDUCE ENERGY COSTS

- Schools spend approx $200 per student on gas & electric bills annually – reduce by 25-30%

IMPROVE STUDENT PERFORMANCE

- Improved indoor air quality (heating, ventilation & air conditioning) reduces illness by up to 40%
- Natural lighting (widows, glass doors, skylighting) shown to improve student performance
- Incorporating green measures into school design can decrease absenteeism (Washington study)
- Increased safety and security (energy efficient exterior lighting) can positively effect school environment

REDUCE GREENHOUSE GAS (GHG) EMISSIONS

DEMONSTRATE LEADERSHIP

- Investing in Energy Efficiency helps foster market demand from local residents and businesses
- Demonstrates responsible stewardship of public resources

BENEFIT LOCAL COMMUNITY THROUGH JOB CREATION
HOW TO FUND ENERGY UPGRADES IN SCHOOLS?

PACE legislation is an innovative financing structure that funds Energy Efficiency and Renewable Energy Projects

- Local governments establish PACE financing districts
- Participation by properties (public, commercial, residential) is voluntary
- Repaid through property tax assessment on participating property
- 20 year repayment term
- 100% financed, no up-front cost
30 States and the District of Columbia have adopted PACE legislation

Ygrene is only national provider of PACE financing

Currently operate in CA, GA and FL, expanding to other states
IMPROVEMENTS ELIGIBLE FOR SCHOOLS

ENERGY EFFICIENCY
- Energy Management Systems
- Insulation & Air Sealing
- Windows & Doors
- HVAC systems
- Boilers & Furnaces
- Lighting
- Motors & Drives
- Chillers & Refrigeration
- Geothermal HVAC
- Cool Roofs
- Reflective Paints & Coatings

RENEWABLE ENERGY
- Solar Photovoltaic
- Solar Thermal
- Wind
- Geothermal

WATER CONSERVATION (CA)
- Irrigation Systems
- Core Plumbing
- Graywater Systems
- Recirculation
- High Efficiency
- Low Flow Fixtures
INNOVATIVE PUBLIC PRIVATE PARTNERSHIP

LOCAL GOVERNMENT:
Form District Under State PACE Legislation

LOCAL TRADES:
Utilize the Funding to Complete EE/RE Upgrades

BUILDING OWNERS:
Access the Funding to Finance EE/RE Projects
MISSION: Be the leading provider of clean energy finance. Make energy efficiency retrofits easy and affordable for every building.

- Deliver $2-3B in clean energy finance into the marketplace
- Complete energy efficiency retrofits on 100,000+ buildings
- Save 360,000 metric tons of CO$_2$ emissions from atmosphere
- Create 45,000 new jobs and $7.5B in economic stimulus
- Build a truly great organization
CASE STUDY – METRO CENTER, SACRAMENTO

$3,160,000 FINANCING

MECHANICAL SYSTEMS, INTERIOR AND EXTERIOR LIGHTING

WITH JOHNSON CONTROLS, COLLIERS INTERNATIONAL, METZLER REAL ESTATE

ANNUAL SAVINGS: 27% $140,000

JOBS CREATED: 50

Sacramento Unveils Nation's Largest Clean Energy PACE Retrofit

GREEN TECH | 7/31/2013 @ 10:36PM | 1,241 views

Forbes
CASE STUDY – CAPITOL MALL, SACRAMENTO

$528,555

REPLACED CHILLER, COOLING TOWER, WATER TREATMENT SYSTEM

COST = R&M SAVINGS + UTILITY SAVINGS (NO ADDED COST)

PASS-THROUGH TO TENANTS UNDER A TRIPLE NET LEASE

$47,465
IN YEAR 1
SAVINGS
EXPLORING HOW PACE CAN WORK FOR SCHOOLS

- Apply for funding
- Scope energy efficiency upgrade project
- Assume tax assessment obligation on property - semi-annual payment
- State Treasurer’s office to impound energy savings up to tax payment amount
ECONOMIC IMPACT

$100 MILLION IN PACE ACTIVITY YIELDS:

$25 MILLION in tax revenue

1,500 JOBS

$250 MILLION in economic output