



River Trails School District 26

Mission Statement

Together, family, staff, and community inspire our diverse student population to develop the knowledge, skills, and character necessary to excel in an ever-changing world, while providing a safe and nurturing environment.

River Trails School District 26

Operations Committee Meeting

Tuesday, March 15, 2016 6:00 PM

ESC, 1900 E. Kensington Road, Mount Prospect

**RIVER TRAILS SCHOOL DISTRICT 26
BOARD OF EDUCATION MEETING
Tuesday, March 15, 2016**

A Operation Committee meeting of the Board of Education will be held at ESC, 1900 E. Kensington Road, Mount Prospect, on Tuesday, March 15, 2016, at 6:00 PM.

NOTE: This is an agenda only. Action may not be taken on all items appearing on this agenda.

As a courtesy to everyone, the Board of Education requests that all cell phones and pagers be turned off during the meeting. Thank you.

A G E N D A

- | | |
|---|----|
| I. Call To Order, Committee Chair | |
| II. Approve Operations Committee Minutes of February 9, 2016 (Action) | 3 |
| III. Air Handling Unit Replacement (Information/Action) | 4 |
| IV. Energy Management System (Information/Action) | 6 |
| V. Better Building Challenge (Information) | 40 |
| VI. Adjournment | |

River Trails School District 26 is subject to the requirements of the *Americans with Disabilities Act* of 1990, as well as Section 504 of the *Rehabilitation Act* of 1973. Individuals with disabilities who plan to attend this meeting and who require certain accommodations in order to allow them to attend and/or participate, or who have questions regarding the accessibility of the meeting or the facilities, are requested to contact the Superintendent's office at (847) 297-4120.

**RIVER TRAILS SCHOOL DISTRICT 26
OPERATIONS COMMITTEE MINUTES
FEBRUARY 9, 2016 – ESC – 6:00 p.m.**

Call to Order

The meeting was called to order at 6:00 p.m.

Members Present: Donna Johnson, Linda Linder, Julia Nemcek
Member Absent:
Committee Guest: Dane Delli, Superintendent; Lyndl Schuster, Asst. Supt. for Business Services; Steve Kosmicki, Director of Buildings and Grounds; Sue Hoffman Director of Technology; Keir Rogers, Principal of River Trails Middle School; Ron Richardson and Josh Czerniak, FGM; Nick Papanicholas and David Torres, Nicholas & Associates

I. Approval of Minutes

The Minutes from the December 8, 2015 Operations Committee meeting was approved as presented.

II. Summer 2016 Construction Bids and Recommendation (Information/Action)

Mrs. Schuster, Mr. Richardson, Mr. Czerniak and Mr. Torres presented to the board the RTMS Office/STEM Lab Design, Administrative Feedback, Bid Recommendations, Schedule Overview and a Total Cost Update. Mrs. Schuster also mentioned that the District was not granted the QSCB (Qualified School Construction Bond).

III. Print Center Update (Information)

Ms. Schuster reported to the Board survey results regarding the Print Copy Centers.

IV. FY17 Grand Prairie Contract Extension (Information/Action)

Mrs. Schuster went over the recommendation to extend the contract with Grand Prairie for a period of one year beginning July 1, 2016 and ending June 30, 2017 at a rate increase of 1.5% per year.

V. Food Services Update and FY17 Intergovernmental Agreement (Information/Action)

Ms. Schuster went over the recommendation to continue our agreement with Arlington Heights District 25 Food Service Department. This year ISBE is requiring that we sign a new agreement rather than a renewal addendum as we have done in prior years.

VI. Performance Contract RFP Recommendation (Information/Action)

Ms. Schuster went over the recommendation to reject the RFP from Performance Services.

VII. Adjournment

The Operations Committee Meeting adjourned at 7:07 p.m.

Committee Chair

Date

III. Air Handling Unit Replacement (Information/Action)

Ms. Schuster will discuss the Air Handling Unit Replacement.

IV. Energy Management System (Information/Action)

Ms. Schuster will discuss the Energy Management System.

Per our attorney, we are also including a Resolution for approval, which is subject to final attorney review, for the usage of this purchasing cooperative.

RIVER TRAILS SCHOOL DISTRICT 26



Donna M. Johnson
President

Frank Fiarito
Vice-President

Linda K. Linder
Secretary

Dr. Dane A. Delli, Superintendent of Schools

Ms. Lyndl Schuster, Asst. Supt. for Business Services

Dr. Matthew A. Silverman, Asst. Supt. for Curriculum & Instruction

Dr. Miriam Cutler, Asst. Supt. for Special Services

Website: www.rtsd26.org

E-mail: ddelli@rtsd26.org

1900 E. Kensington Road, Mt. Prospect, Illinois 60056

· (847)297-4120 · FAX (847)297-4124

Date: March 1, 2016

To: Operations Committee

From: Lyndl Schuster and Steve Kosmicki

Re: District-wide HVAC projects – summer 2016 (Air Handler Units at all schools)

Background

The district needs to replace the air handler units in the cafeteria at Euclid School and Indian Grove School, and in the Band and Chorus rooms at River Trails Middle School.

Rational

As the committee is aware, the Air Handler Units in the cafeterias at both elementary schools, as well as in the band and chorus rooms at the middle school need to be replaced. They are older, noisy and not energy-efficient. The current units do not provide consistent ventilation and temperature-control throughout the day.

After an unsuccessful RFP process we approached Trane about this work. We have a strong, ongoing, working relationship with Trane and they have successfully completed past projects in the district. They are the manufacturer for the equipment that needs to be installed. We have attached a letter from Trane explaining the project in more detail.

Recommendation

Because we are members of US Communities (a government purchasing alliance), this project does not require us to go through the bid process. All US Communities contracts are competitively bid, evaluated, approved and awarded by a governmental entity serving in the lead agency role. The lead agency for the Trane contract with US Communities is Harford County Public Schools in Bel Air, MD. Each solicitation contains language that advises all suppliers that the contract may be used by other government agencies throughout the United States. This language is based on the lead jurisdiction "Joint Powers Authority" or "Cooperative Procurement Authority."

Therefore, the administration recommends that the district undertake this project at a cost of \$406,209, and award the contract for replacement of the Air Handler Units to Trane. The funds for this project will come from the Capital Projects Fund for the 2017 fiscal year.

RIVER TRAILS SCHOOL DISTRICT 26



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· (847)297-4120 · FAX (847)297-4124

Date: March 1, 2016

To: Operations Committee

From: Lyndl Schuster and Steve Kosmicki

Re: District-wide HVAC projects – summer 2016 (Building Automation System)

Background

In 2015 we began the process of upgrading the Building Automation System with the unit ventilator project. This will complete the upgrades.

Rational

In 2015, Trane installed a new Energy Management System throughout the district. The initial project included only the unit ventilators. The remaining Precision Control system is only minimally functional. Many of the workstations do not operate correctly, some not at all. It is very difficult to troubleshoot this system. Because the current system controls the bulk of the HVAC equipment, which is aging, underperforming and inefficient, the district is spending more money on energy costs than we should.

This project will include upgrading all remaining obsolete controls, retro-commissioning and energy demand management to increase the district's ability to realize energy savings, as well as an Energy Education Dashboard and Kiosk. This should enable the district to realize an estimated \$46,000 in annual energy savings, with a payback period of less than 7 years on the investment.

We have a strong, ongoing, working relationship with Trane and they have successfully completed past projects in the district. They are the manufacturer for the equipment to be installed. We have attached a letter from Trane explaining the project in more detail.

Recommendation

Because we are members of US Communities (a government purchasing alliance), this project does not require us to go through the bid process. All US Communities contracts are competitively bid, evaluated, approved and awarded by a governmental entity serving in the lead agency role. The lead agency for the Trane contract is Harford County Public Schools, Bel Air, and MD. Each solicitation contains language that advises all suppliers that the contract may be used by other government agencies throughout the United States. This language is based on the lead jurisdiction "Joint Powers Authority" or "Cooperative Procurement Authority."

We are also not required to go out to bid on this project because, according to purchasing sections 105 ILCS 5/10-20.21 of the Illinois School Code there are exceptions to bidding for the following:

“(vii) Purchases and contracts for the use, purchase, delivery, movement, or installation of data processing equipment, software, or services and telecommunications and interconnect equipment, software, and services”.

Therefore, the administration recommends that the district undertake this project at a total cost of \$334,200, and award the contract for the Building Automation System upgrade to Trane. The funds for this project will come from the Capital Projects Fund for the 2017 fiscal year.



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***River Trails School District
Project Proposal Summary***

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Overview

- Trane has been a consistent and reliable partner for River Trails School District over the years
- Trane Team was engaged to uncover opportunities to further reduce energy costs and improve operational capabilities within district
- Identify opportunities to address few remaining equipment “end of life” scenarios while also reducing noise and increasing comfort



Goals...

Develop a compelling project that addresses the following needs:

1. Address systems and equipment which is at end of useful life
2. Position District to manage increasing demand and grid charges through new technology
3. Further enhance energy savings capability
4. Enhance educational environment



District Needs

Gate 7



Building Automation System

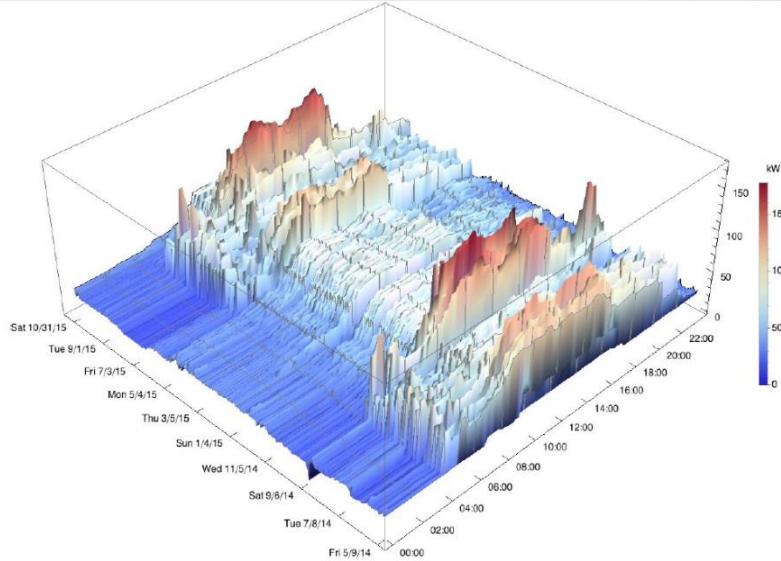
District Wide

- Replace and update old technology
- Standardize on operation and training
- Replace obsolete and failed operator stations with modern web based system

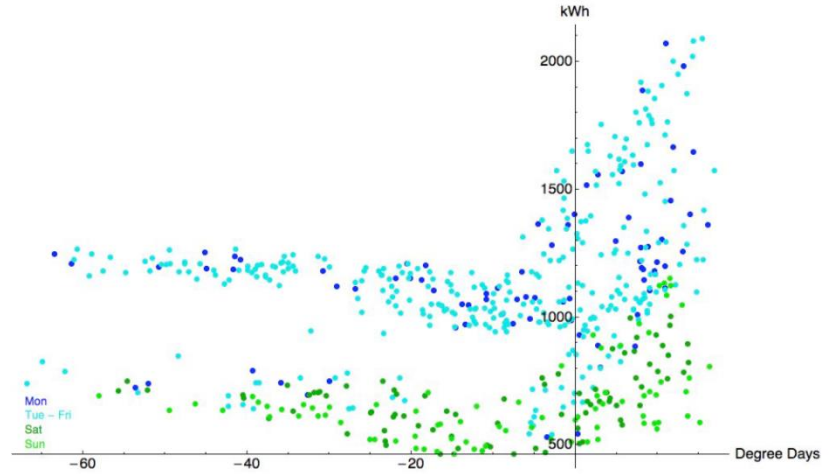


Utilize New Technology for Retro-commissioning

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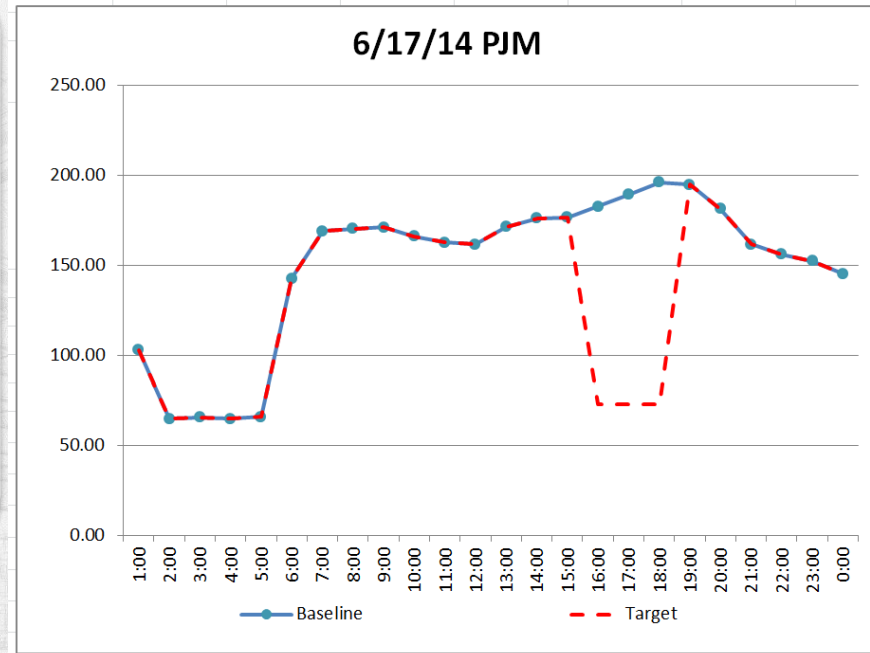
Energy Usage versus Degree Days



Impact of Grid Demand Charges on District

District wide

- Grid demand “tax” on district:
 - 2015-2016 - \$54,879
 - Represents ~25% of total utility spend



Multipurpose Room Improvements

Indian Grove, Euclid, and Middle School

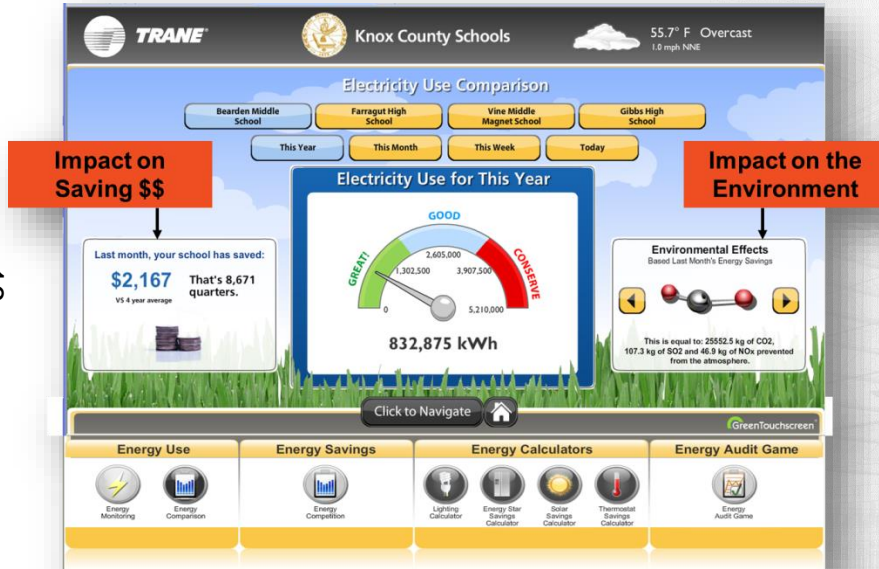
- Units at end of useful life
- Mechanical condition & ductwork causing excessive noise, humidity
- Technology causing comfort and operations problems



Educational Energy Dashboards and Display

Middle School

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Leverage the facility technology as a learning Tool

- Highlight District's Green Ribbon Award
- Display "Real Time" solar generation
- Display "Real Time" demand and KWH at each building
- Compare Schools to Benchmarks

Project Proposal



Project Financial Picture

Project Includes:

- Upgrade all remaining obsolete controls to new open architecture, web based system
- Utilize new technology to retro-commission systems
- Demand management
- Energy education dashboard and kiosk
- Multipurpose room equipment replacement and ductwork

Total Project Costs

- BAS Modernization Project – \$334,200
- Multipurpose Rooms - \$406,209

Estimated Annual Savings

- \$45,936

Estimated Incentives

- \$TBD – Dependent on State funding

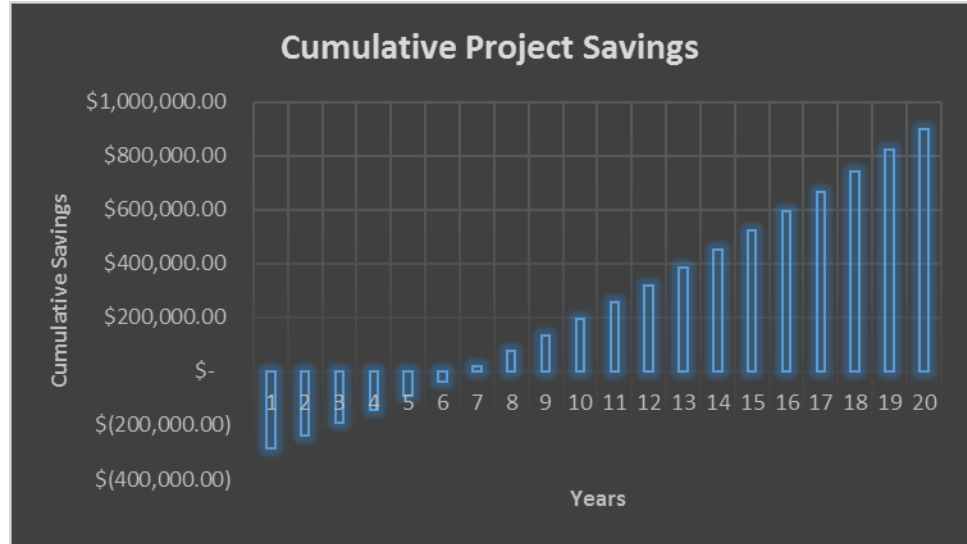
BAS Modernization Project Cash Flow

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Year	Annual Energy Savings (\$)	Cumulative Savings (\$)
1	\$ 45,936.00	\$ (288,264.00)
2	\$ 47,314.08	\$ (240,949.92)
3	\$ 48,733.50	\$ (192,216.42)
4	\$ 50,195.51	\$ (142,020.91)
5	\$ 51,701.37	\$ (90,319.54)
6	\$ 53,252.41	\$ (37,067.12)
7	\$ 54,849.99	\$ 17,782.86
8	\$ 56,495.49	\$ 74,278.35
9	\$ 58,190.35	\$ 132,468.70
10	\$ 59,936.06	\$ 192,404.76
11	\$ 61,734.14	\$ 254,138.90
12	\$ 63,586.17	\$ 317,725.07
13	\$ 65,493.75	\$ 383,218.82
14	\$ 67,458.56	\$ 450,677.39
15	\$ 69,482.32	\$ 520,159.71
16	\$ 71,566.79	\$ 591,726.50
17	\$ 73,713.79	\$ 665,440.29
18	\$ 75,925.21	\$ 741,365.50
19	\$ 78,202.97	\$ 819,568.47
20	\$ 80,549.05	\$ 900,117.52

\$ 1,234,317.52

TOTALS



Project Costs	\$334,200.00
Incentives*	\$ -
Cost after Incentives	\$334,200.00
Utility Escalation	3%

*Incentives dependent on DCEO future Funding

Next Steps...

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February 25, 2016

Dr. Dane Delli
Superintendent
River Trails School District #26
1900 East Kensington Road
Mount Prospect, IL 60056

Subject: US Communities Quote #30-10007-16-001
Contract Number (US Communities): USC 15-JLP-023
Trane Energy Management System and Air-Handling Unit Upgrades
River Trails School District #26

Dear Dr. Delli,

Thank you for the opportunity to present this proposal to the District. This proposal includes the extension of the existing Trane Energy Management System to the remaining HVAC systems across the District. It also includes the upgrade of the air handling system serving the multipurpose rooms at Indian Grove and Euclid and the River Trails Middle School Band and Chorus rooms.

We appreciate the opportunity to continue to serve your staff and the students of River Trails School District #26. We will continue to strive for delivering maximum value in the solutions and services we offer to help you and your staff create outstanding learning environments.

Air Handling Unit Replacements – Euclid, Indian Grove & Middle School

Euclid and Indian Grove Multi-Purpose Rooms

Existing Conditions

The Air Handling Units (AHUs) serving these spaces are older, noisy and do not always offer heating and cooling when required due to the limitations the existing 2-pipe dual temperature system. Because the units are tied into a dual temperature system the water that flows to the units is either hot or cold and therefore can only provide either heating or cooling from one day to the next, but never in the same day. This type of system can cause a lot of discomfort in the shoulder months of the year.

The local staff often turns off the units to conduct class due to the excessive noise from the units. This compromises proper ventilation and consistent temperature control. The units do



not have proper distribution ductwork so air distribution is compromised and sound levels are unacceptable.

The units are visibly unattractive and do not have many of the energy efficiency features of modern HVAC units. Since the Multi-purpose rooms are also used as a cafeteria it's important that the HVAC serving these spaces be quiet, clean, comfortable and flexible in their ability to operate heating and cooling as the load changes quickly. Incorporating energy efficiency into the units is very beneficial in a space like this because the ventilation and heating/cooling requirements can vary significantly throughout the day (in contrast to office and classroom areas where the occupancy and HVAC load is much more consistent).



Euclid School Multi-Purpose Room

Proposed Solutions

Trane looked at a variety of options that would be less costly than a complete replacement of the existing units but anything short of a complete replacement would not solve the challenges listed below or provide the District with a long-term solution.

Some of the options Trane considered were adding DX Coils & Condensing Units to the existing AHUs, adding controls to the existing units to quiet them down and improve energy efficiency and, finally, adding new AHUs to directly replace the existing unit. None of these options would provide a complete solution.

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Challenges:

- Noise – a result of old units creating mechanical noise, air velocity at discharge of the unit with no distribution ductwork, units are located in the space and the Euclid MPR has no means for deadening the sound without a drop ceiling (like there is at Indian Grove).
- Comfort – very difficult to maintain comfort in the shoulder months with the dual-temp system.
- Physically unattractive – The existing units were installed as replacements for previous ceiling unit ventilators and were more than likely the low cost solution with little consideration given to how the installation might negatively affect the aesthetics of the space.
- Energy Efficiency – Today’s controls and equipment offer great features for operating HVAC equipment more efficiently. Attempting to add more controls can be done if a capital project isn’t desired but requires complex programming and devices to accomplish on existing equipment.

Solution:

Trane recommends installing a new Roof-top unit (RTU) which will provide all of the necessary heating, cooling and ventilation independent of the central plant system. This solution will provide a means for solving all of the challenges listed above:

- Noise - The new unit will be out of the space and located on the roof of the multipurpose room and new distribution ductwork will be installed. Exposed duct will be installed at Euclid and the new ductwork at Indian Grove will be coordinated with the new ceiling project this summer.
- Comfort – Independence from the Central Plant will provide maximum flexibility during all times of the year.
- Physically Unattractive – The existing AHU’s will be removed and the space will be free from unattractive HVAC cabinets and heating/cooling piping.
- Energy Efficiency – The new RTU will incorporate a variety of energy efficiency features including Demand Control Ventilation that manages ventilation based on CO₂, modulating gas valves, Single-zone variable air volume (VAV) that will modulate fan speed based on load in contrast with current AHU’s that run at constant volume.

The Scope of Work for the new Roof-top units includes the following:

- Demolition of existing AHU’s and associated piping cut back to multipurpose room wall and capped and electrical brought back to nearest J/B. Exterior wall penetrations will be sealed or covered with insulated cover.
- Furnish and install (1) new roof- mounted, gas-fired , 12.5 Ton DX Trane RTU with single-zone VAV fan control , Full economizer, modulating gas burner and Demand Control ventilation features.
- BACnet wireless controls and interface to the existing Trane Energy Management System.

- Turnkey installation including all necessary Crane lift, electrical, gas piping, roofing, structural, start-up, test and balance.
- New Distribution ductwork as shown in layout included with this proposal. *Notes: Indian Grove layout to be coordinated with summer ceiling project. Euclid will be non-painted & exposed.*
- Tie into existing Fire alarm
- Project management, engineering and technician labor
- ROE permit
- O&M manuals & training
- 5 year Parts and labor Warranty on Trane equipment

River Trails Middle School Band and Chorus Rooms

Existing Conditions

The Air Handling Units serving these spaces are older, create unacceptable noise in the Band room and do not always offer heating and cooling when required due to the limitations of a 2-pipe dual temperature system (similar to the multipurpose units at Euclid and Indian Grove).

These rooms are especially vulnerable to the lack of cooling in the shoulder months when the chiller is off since the Band room is an internal space and neither room has natural ventilation.

The local staff complains of air noise in the Band room due to an excessively noisy supply diffuser located in the wall adjacent to the penthouse mechanical room. The units appear to have the necessary duct distribution but the Band room would benefit from a new overhead supply duct to alleviate the noise issue.



River Trails Middle School Band Room

The units are located in the penthouse mechanical room and are not visible in the rooms. The mechanical room penthouse is a very cramped space as show in the picture below and offers few options to add or modify equipment or ductwork without the necessary demolition.

The existing units do not have many of the modern energy efficiency features available today and the areas would benefit from variable air volume control and demand control ventilation.



Band & Chorus Penthouse Mechanical Room

Proposed Solutions

Similar to Euclid and Indian Grove multipurpose rooms, Trane looked at a variety of options that would be less costly than a complete replacement of the existing units but determined that anything short of a complete replacement would also fail to solve the challenges listed below or provide the District with a long-term solution.

Some of the options Trane considered were adding DX Coils & Condensing Units to the existing AHU's, adding controls to improve energy efficiency and adding individual Roof-top units to directly replace the existing units but none of these options would provide a complete solution.

Challenges:

- Comfort - very difficult to maintain comfort in the shoulder months with the dual-temp system especially with the Band room being an interior zone and the Chorus room not having any natural ventilation
- Noise – Loud diffuser in Band room is distracting

- Humidity control – providing the necessary de-humidification during the shoulder months in an interior zone like the Band room is impossible without cooling available.
- Energy Efficiency – Today’s controls and equipment offer great features for operating HVAC equipment more efficiently. Attempting to add more controls can be done if a capital project isn’t desired but requires complex programming and devices to accomplish on existing equipment.

Solution:

Trane recommends installing one new variable air volume (VAV) Roof-top unit with individual room VAV boxes with reheat coils to provide all of the necessary heating, cooling and ventilation. This solution is not entirely independent of the dual temp system but the challenges with the dual temp system reside primarily with lack of cooling and not the heating in this space.

A VAV Rooftop w/reheat will provide a means for solving all of the challenges listed above:

- Comfort – Independence from the Central Plant cooling will provide maximum cooling flexibility during all times of the year. Utilizing the boiler hot water system for the VAV box reheat coils will provide significantly better comfort vs. separate gas fired Roof-top units for areas like these.
- Humidity – Having cooling available whenever it is needed will address humidity concerns during the summer and utilizing hot water reheat at the VAV boxes during the winter will provide a very comfortable environment.
- Energy Efficiency – The new VAV RTU will incorporate a variety of energy efficiency features including demand control ventilation that manages ventilation based on CO₂, VAV control that will modulate fan speed based on load in contrast with current air handling units that run at constant volume. Individual VAV boxes with reheat will provide superior zone control.

The Scope of Work for the new VAV Roof-top and Boxes w/reheat includes the following:

- Partial demolition of existing AHU’s and miscellaneous piping, ductwork and electrical in the penthouse. Exterior wall penetrations will be sealed or covered with insulated cover.
- Furnish and install (1) new roof- mounted, cooling only 17.5 Ton DX Trane VAV RTU with VAV fan control, Full economizer and Demand Control ventilation features. *New RTU will be located on Penthouse roof and ducted down into the mechanical room.*
- (2) New Trane VAV boxes with 2 row Hot water reheat coils.
- BACnet wireless controls and interface to the existing Trane EMS.
- Turnkey installation including all necessary Crane lift, electrical, roofing, structural, start-up, test and balance.
- Tie new RTU supply and return duct to existing supply and return duct connections in the penthouse mechanical room. New overhead supply duct will be installed in the Band room to alleviate the noise and existing duct in Chorus room will be inspected and repaired as necessary to ensure code compliant. The return air inlets are in good

shape and not in need of replacing. *The air distribution will be tested and re-balanced in both the Band & Chorus rooms to ensure adequate air volume and noise level.*

- Tie into existing Fire alarm
- Project management, engineering and technician labor
- ROE permit
- O&M manuals & training
- 5 year Parts and labor Warranty on Trane equipment

Energy Management System

Existing Conditions

New Trane EMS Investment

The new Trane Energy Management System (EMS) was installed in 2014/15 to replace the existing controls on the classroom unit ventilators. The Unit ventilators were not working properly creating uncomfortable conditions in the classrooms across the District, as well as driving increases in the cost to repair and maintain the units. Trane worked closely with District Administration, Buildings and Grounds and the School Board to design a cost effective project that would upgrade failing controls with new Trane wireless controls, replace old inefficient motors with highly efficient ECM motors and extend the life of the units.

The project resulted in the upgrade of all of the District's unit ventilator controls and provided the necessary Trane network backbone required for replacing the rest of the older Precision Controls system at a later date.

During the project, Trane also helped the District lay the ground work for STEM exposure by donating controls, lights, technology and technical labor to implement a mini STEM lab in River Trails Middle School Classroom 42. It's exciting to see the District now expanding the STEM program even further with the project scheduled for the front office area of the Middle School this summer.

Existing Precision Controls system

The Precision Controls system, although minimally functional, is in need of replacement at this time. None of the workstations operate properly; 2 of the 3 do not turn on and the work station at the Middle School starts but will oftentimes freeze and stops working after a few minutes of operation. The graphics are not all current with the equipment in the field and trying to utilize the system to trouble shoot problems and implement energy management programs is very difficult, if not impossible.

The Precision Controls system currently controls the Boilers, Chillers, Pumps, Air-handling Units, Roof-top units and other miscellaneous HVAC equipment across the District. The current controls system is underperforming and running equipment and expending energy

dollars at times when it's unnecessary. This became evident when Trane analyzed the District's energy consumption graphs and discovered the building's HVAC equipment starting too early and running too late , as well as, experiencing peaks in usage that are negatively affecting Electric Demand charges.

Current Energy Use and Opportunity

During the District-wide energy analysis it was discovered that the District has the opportunity to save on Electric and Gas Utility costs by ***retro-commissioning the HVAC Controls*** and implementing ***pro-active Utility Demand Management*** sequences. Both of these strategies require a more robust and reliable Energy Management system capable of implementing complex programs and sequences as well as reliably executing simple strategies such as Time of Day scheduling.

Completing the replacement of the remaining controls with new Trane controls will position the District to ***extend your investment*** in the Trane system while managing the facilities and their energy use as proactively as possible.

Proposed Solutions

Trane recommends expanding the existing Trane EMS to replace the remaining Precision Controls system throughout Indian Grove, Euclid and the Middle School. Each building currently has the Trane system backbone with the SC Controller networked throughout the buildings and therefore the new controls will simply need to be tied into the existing SC communications wireless network, thus allowing for a seamless, reliable and consistent system throughout.

The proposed Scope of work includes all labor and material necessary to switchover the existing Precision Controls points to the Trane system for the following HVAC systems:

I. Base Controls Project

Euclid School

Heating Cooling Plant Control system including control of all existing Input Output points for:

- 2 boilers
- 2 boiler circulation pumps
- 1 Chiller
- 1 Chilled Water pump
- 2 system pumps with VFD's and Variable speed control

Rooftop Units - RTU-2

- All existing Input Output points to be reinstalled

New MPR RTU

- New Input Output points

Radiant Panels - RP-1 through 5

- All existing Input Output points to be reinstalled

Exhaust Fans

- EF-1,6,10

- All existing Input Output points to be reinstalled

Fan Coil

- FCU-1

- All existing Input Output points to be reinstalled

Indian Grove School

Heating Cooling Plant Control system including control of all existing Input Output points for:

- 2 boilers
- 2 boiler circulation pumps
- 1 Chiller

Chilled Water pump

- 2 system pumps with VFD's and Variable speed control

Air Handling Units - AH-1, AH-2, AH-3, ASU-8

- All existing Input Output points to be reinstalled

New MPR RTU

- New Input Output points

Fan Coil Units - FCU-1

- All existing Input Output points to be reinstalled

Exhaust Fans - EF-1, 2, 8, 13-,18

- All existing Input Output points to be reinstalled

Cabinet Heater - CUH-1

- All existing Input Output points to be reinstalled

River Trails Middle School

Heating Cooling Plant Control system including control of all existing Input Output points for:

- 2 boilers
- 2 boiler circulation pumps

- 1 Chiller
- 1 Chilled Water pump
- 2 system pumps with VFD's and Variable speed control

Air Handling Units - AH-1 (newer Multi-zone) & ASU-5

- All existing Input Output points to be reinstalled

Rooftop Units - RTU-1, RTU-2, RTU-3

- All existing Input Output points to be reinstalled

New Band & Chorus VAV Rooftop Unit

- New Input Output points

Exhaust Fans - EF-11, 12, 19

- All existing Input Output points to be reinstalled

Cabinet Heater - CUH-1

- Existing Baseboard, Computer Room
- All existing Input Output points to be reinstalled

The general Scope of Work for the installation of the new Trane controls includes the following:

- Web based Operator interface with Custom Graphics
- Project engineering and management
- New BACnet compliant controllers to replace existing old controllers
- All existing end devices and wiring to be reused
- All Technician's labor for system programming and checkout
- Training
- One (1) year warranty on all material and labor
- Electrical Installation per local code requirements

Exclusions:

The following materials and/or labor is not included:

- Labor or material for any of the existing control devices or equipment found to be non-functional during checkout.
- Warranty on any existing end devices
- Operator Workstations – *District can access Trane system via existing District computers. This proposal does not include new computers.*
- Premium Time Labor.
- Fire Alarm System components (dampers, smoke detectors, etc.) and wiring.

Base Controls Project Contingency Fund for failed End Devices

Trane recommends establishing a Contingency fund for replacing any existing failed end devices or wiring. Trane will secure authorization to access the Fund during the installation. The District will be credited for any unused funds at the end of the project.

II. Additional Controls not currently on the Precision Controls System

The following HVAC systems are not currently interfaced to either the Precision Controls or the Trane system. Trane recommends installing the necessary controls to interface these important systems to the Trane system:

- RTMS, Euclid & Indian Grove Small Gymnasium AHU 's (Total of 6)
- RTMS Large Gymnasium AHU's – integrate to existing Honeywell DDC (qty. of 2)

III. Retro-Commissioning and Utility Demand Management programs

In order to effectively manage HVAC energy costs and improve and maintain the operation of the HVAC systems as efficiently as possible Trane recommends implementing the following scope of work across the new Trane system in all (3) school buildings:

- Provide engineering to evaluate current operation of all HVAC systems and technician labor to implement controls adjustments and strategies for maximizing efficiency
- Evaluate and implement overall building strategies to decrease elevated BTU/sq.ft. and establish strategies for maintaining to Industry benchmark
- Install a parallel Electric Smart meter at each building for capturing real-time consumption and inputting meter data into the Trane EMS.
- Accept Utility grid signals and initiate Demand Peak reduction sequences – minimum of 5 events per year.
- Provide engineering and technician labor to design and program Peak Demand reduction sequences utilizing the Trane EMS for execution.

IV. Other Proposal Offerings

- Trane 1 year Service Agreement on all new controls – *to start upon final project completion and acceptance.*
- Expansion of the energy educational dashboards and a display to be included in the River Trails Middle School new main entrance

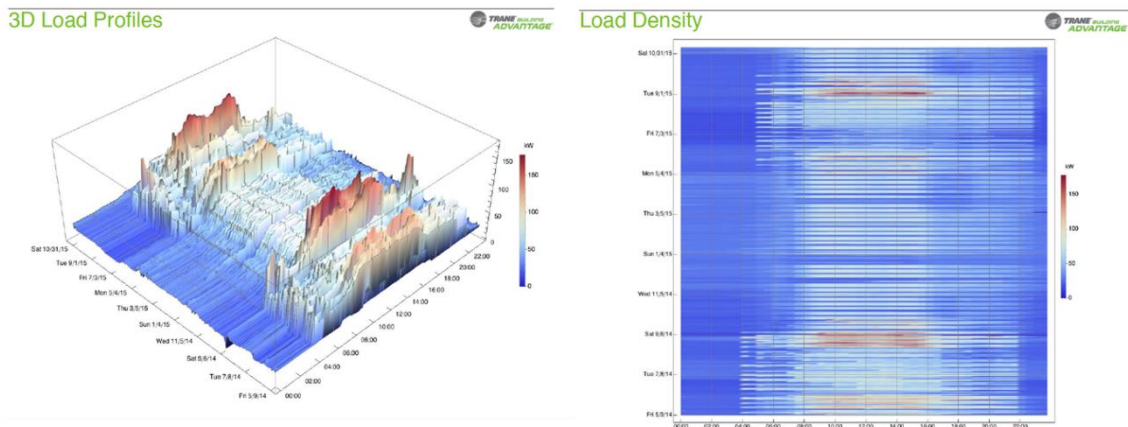
Energy Savings Benefits

Energy Management System Improvements and Retro-Commissioning

Migrating the remaining facility systems to the Trane Energy Management system will have a tremendous impact on the utility spend of the district. Utilizing the newly installed controls, Trane will retro-commission the district buildings. The retro-commissioning process looks over all schedules and equipment operation via the energy management system, and identifies areas of inefficiency. This process will calibrate the building and make sure that it is running at optimum efficiency. During this process, Trane will create strategic alarms that will notify the District if any of the optimized or re-calibrated systems waiver.

As a part of the building systems analysis, utility metering data, utility rates, infrastructure, and the building automation system were also evaluated for savings opportunities. By reviewing electrical metering interval data (energy usage data recorded every 30 minutes) and comparing it to sequences in building systems, we were able to identify energy conservation measures and behavioral strategies that could also generate savings.

Example of tools and analytics implemented to identify savings shown below:



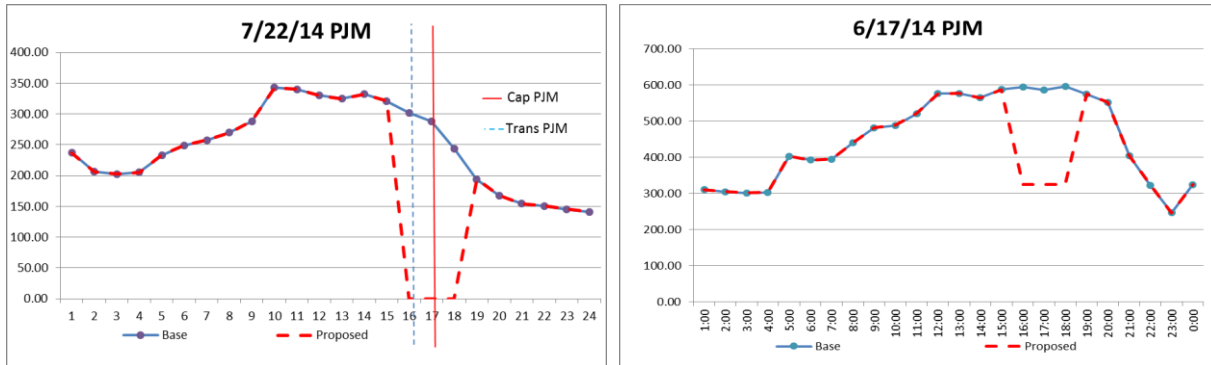
Projected Annual Energy Savings: Up to \$30,601 depending on final scope selection

Utility Demand Management Savings

A large portion of the District's electricity bills has been the result of a shift in how utility companies charge customers. These new utility charges are based on the District's energy usage during a handful of days in the summer when the electricity grid (which stretches from North Carolina to New Jersey to Illinois) have the most electricity demand. Based on how the District uses electricity on those days, a charge will be imposed on the district for the entire next year.

Essentially, these new charges are a “demand tax” on those entities who cannot manage their electricity demand. School Districts are in an incredibly strong position to minimize or eliminate this “demand tax” due to the timing of these events, which happen on weekday afternoons during the summer. Through the technology and protocols developed by this project, the District will be in a position to proactively manage how electricity is consumed on these days.

These Graphs Depict Peak Load Management Strategies for the District



Projected Annual Energy Savings: Up to \$15,335 depending on final scope

Air Handling Unit Replacements – Euclid, Indian Grove & Middle School

Replacement of the existing air handling units at Euclid, Indian Grove, and River Trails Middle School with more energy efficient mechanical technology and system design will generate energy savings for the district. These savings are generated from utilization of variable air volume (VAV) systems to replace constant volume units, more energy efficient fans, high efficiency motors, and demand control ventilation.

Projected Annual Energy Savings: Up to \$2,500 depending on final scope

Rebates and Incentives

As of December 2015, the DCEO Public Sector Custom Incentive Rebates for a project of this type have not been funded by the State of Illinois. Upon funding becoming available, Trane will apply for all eligible DCEO rebates after project work has been completed.

Summary of Pricing

Euclid, Indian Grove & River Trails M.S. AHU Replacements	\$406,209
Base Controls Project	\$144,441
Contingency Fund for failed end-devices	\$10,000
Additional Controls not in Base Controls Project	\$76,759
Retro-commissioning & Utility Demand Management	\$74,000
1 year Service Agreement for Trane EMS	\$15,000
Educational Energy Dashboards and Display	\$14,000

Prices will remain in effect for 90 days from date of this proposal.

SALES TAX: NOT INCLUDED

Payment terms:

Progress billing. Monthly Invoicing via AIA Standard Documentation due Net 30 days, 1 ½% Monthly Finance Charge will be applied to past due.

Thank you for this opportunity to be of continued service to River Trails SD #26.

Sincerely,

Dan Brandolino
Comprehensive Solutions Team Leader

Trane Chicago
7100 S. Madison
Willowbrook, IL 60527

BUYER’S ACCEPTANCE AND AUTHORIZATION

THE ABOVE PRICES, SPECIFICATIONS AND ALL TERMS AND CONDITIONS ARE SATISFACTORY AND ARE HEREBY ACCEPTED. WE OFFER TO BUY THE WORK AS SPECIFIED AND AUTHORIZE YOU TO PROCEED. PAYMENT WILL BE MADE AS STATED ABOVE.

BY: _____
TITLE: _____
DATE ACCEPTED: _____
PURCHASE ORDER NO. _____

SELLER’S ACCEPTANCE

THE UNDERSIGNED HEREBY ACCEPTS YOUR OFFER BASED ON THIS PROPOSAL

BY: _____
TITLE: _____
DATE ACCEPTED: _____
PURCHASE ORDER NO. _____

TERMS AND CONDITIONS - INSTALLATION

“Company” shall mean Trane Canada Co. for Work performed in Canada, Trane U.S. Inc. for Work performed in the United States, except North Carolina and South Carolina, where Company shall mean Trane Comfort Solutions Inc.

1. Acceptance. These terms and conditions are an integral part of Company’s offer and form the basis of any agreement (the “Agreement”) resulting from Company’s proposal (the “Proposal”) for the work described (the “Work”). The Proposal is subject to acceptance in writing by the party to whom this offer is made or an authorized agent (“Customer”) delivered to Company within 30 days from the date of the Proposal. If Customer’s order is an acceptance of the Proposal, without the addition of any other terms and conditions of sale or any other modification, this document shall be treated solely as an acknowledgment of such order. If Customer’s order is expressly conditioned upon Company’s acceptance or assent to terms and/or conditions other than those expressed herein, return of such order by Company with these terms and conditions attached or referenced serves as Company’s notice of objection to Customer’s terms and as Company’s counter-offer to provide Work in accordance with scope and terms and conditions of the Proposal. If Customer does not reject or object in writing to Company within 10 days, Company’s counter-offer will be deemed accepted. Customer’s acceptance of goods and/or Work by Company will in any event constitute an acceptance by Customer of these terms and conditions. This Agreement is subject to credit approval by Company. Upon disapproval of credit, Company may delay or suspend performance or, at its option, renegotiate prices and/or terms and conditions with Customer. If Company and Customer are unable to agree on such revisions, this Agreement shall be cancelled without any liability, other than Customer’s obligation to pay for Work rendered by Company to the date of cancellation.

2. Pricing and Taxes. Unless otherwise noted, the price in the Proposal includes standard ground transportation and, if required by law, all sales, consumer, use and similar taxes legally enacted as of the date hereof for equipment and material installed by Company. Tax exemption is contingent upon Customer furnishing appropriate certificates evidencing Customer’s tax exempt status. Company shall charge Customer additional costs for bonds agreed to be provided. Equipment sold on an uninstalled basis and any taxable labor/labour do not include sales tax and taxes will be added. Following acceptance without addition of any other terms and condition of sale or any other modification by Customer, the prices stated are firm provided that notification of release for immediate production and shipment is received at the factory not later than 3 months from order receipt. If such release is received later than 3 months from order receipt date, prices will be increased a straight 1% (not compounded) for each one-month period (or part thereof) beyond the 3 month firm price period up to the date of receipt of such release. If such release is not received within 6 months after date of order receipt, the prices are subject to renegotiation, or at Company’s option, the order will be cancelled. Any delay in shipment caused by Customer’s actions will subject prices to increase equal to the percentage increase in list prices during that period of delay and Company may charge Customer with incurred storage fees.

3. Exclusions from Work. Company’s obligation is limited to the Work as defined and does not include any modifications to the Work site under the Americans With Disabilities Act or any other law or building code(s). In no event shall Company be required to perform work Company reasonably believes is outside of the defined Work without a written change order signed by Customer and Company.

4. Performance. Company shall perform the Work in accordance with industry standards generally applicable in the area under similar circumstances as of the time Company performs the Work. Company may refuse to perform any Work where working conditions could endanger property or put at risk the safety of persons. Unless otherwise agreed to by Customer and Company, at Customer’s expense and before the Work begins, Customer will provide any necessary access platforms, catwalks to safely perform the Work in compliance with OSHA or state industrial safety regulations.

5. Payment. Customer shall pay Company’s invoices within net 30 days of invoice date. Company may invoice Customer for all equipment or material furnished, whether delivered to the installation site or to an off-site storage facility and for all Work performed on-site or off-site. No retention shall be withheld from any payments except as expressly agreed in writing by Company, in which case retention shall be reduced per the contract documents and released no later than the date of substantial completion. Under no circumstances shall any retention be withheld for the equipment portion of the order. Customer shall be liable to Company for all reasonable shutdown, standby and start-up costs as a result of the suspension. Company reserves the right to add to any account outstanding for more than 30 days a service charge equal to 1.5% of the principal amount due at the end of each month. Customer shall pay all costs (including attorneys’ fees) incurred by Company in attempting to collect amounts due and otherwise enforcing these terms and conditions. If requested, Company will provide appropriate lien waivers upon receipt of payment. Customer agrees that, unless Customer makes payment in advance, Company will have a purchase money security interest in all equipment from Company to secure payment in full of all amounts due Company and its order for the equipment, together with these terms and conditions, form a security agreement. Customer shall keep the equipment free of all taxes and encumbrances, shall not remove the equipment from its original installation point and shall not assign or transfer any interest in the equipment until all payments due Company have been made.

6. Time for Completion. Except to the extent otherwise expressly agreed in writing signed by an authorized representative of Company, all dates provided by Company or its representatives for commencement, progress or completion are estimates only. While Company shall use commercially reasonable efforts to meet such estimated dates, Company shall not be responsible for any damages for its failure to do so.

7. Access. Company and its subcontractors shall be provided access to the Work site during regular business hours, or such other hours as may be requested by Company and acceptable to the Work site’ owner or tenant for the performance of the Work, including sufficient areas for staging, mobilization, and storage. Company’s access to correct any emergency condition shall not be restricted.

8. Completion. Notwithstanding any other term or condition herein, when Company informs Customer that the Work has been completed, Customer shall inspect the Work in the presence of Company’s representative, and Customer shall either (a) accept the Work in its entirety in writing, or (b) accept the Work in part and specifically identify, in writing, any exception items. Customer agrees to re-inspect any and all excepted items as soon as Company informs Customer that all such

excepted items have been completed. The initial acceptance inspection shall take place within ten (10) days from the date when Company informs Customer that the Work has been completed. Any subsequent re-inspection of excepted items shall take place within five (5) days from the date when Company informs Customer that the excepted items have been completed. Customer's failure to cooperate and complete any of said inspections within the required time limits shall constitute complete acceptance of the Work as of ten (10) days from date when Company informs Customer that the Work, or the excepted items, if applicable, has/have been completed.

9. Permits and Governmental Fees. Company shall secure (with Customer's assistance) and pay for building and other permits and governmental fees, licenses, and inspections necessary for proper performance and completion of the Work which are legally required when bids from Company's subcontractors are received, negotiations thereon concluded, or the effective date of a relevant Change Order, whichever is later. Customer is responsible for necessary approvals, easements, assessments and charges for construction, use or occupancy of permanent structures or for permanent changes to existing facilities. If the cost of such permits, fees, licenses and inspections are not included in the Proposal, Company will invoice Customer for such costs.

10. Utilities During Construction. Customer shall provide without charge to Company all water, heat, and utilities required for performance of the Work.

11. Concealed or Unknown Conditions. In the performance of the Work, if Company encounters conditions at the Work site that are (i) subsurface or otherwise concealed physical conditions that differ materially from those indicated on drawings expressly incorporated herein or (ii) unknown physical conditions of an unusual nature that differ materially from those conditions ordinarily found to exist and generally recognized as inherent in construction activities of the type and character as the Work, Company shall notify Customer of such conditions promptly, prior to significantly disturbing same. If such conditions differ materially and cause an increase in Company's cost of, or time required for, performance of any part of the Work, Company shall be entitled to, and Customer shall consent by Change Order to, an equitable adjustment in the Contract Price, contract time, or both.

12. Pre-Existing Conditions. Company is not liable for any claims, damages, losses, or expenses, arising from or related to conditions that existed in, on, or upon the Work site before the Commencement Date of this Agreement ("Pre-Existing Conditions"), including, without limitation, damages, losses, or expenses involving Pre-Existing Conditions of building envelope issues, mechanical issues, plumbing issues, and/or indoor air quality issues involving mold/mould and/or fungi. Company also is not liable for any claims, damages, losses, or expenses, arising from or related to work done by or services provided by individuals or entities that are not employed by or hired by Company.

13. Asbestos and Hazardous Materials. Company's Work and other services in connection with this Agreement expressly excludes any identification, abatement, cleanup, control, disposal, removal or other work connected with asbestos, polychlorinated biphenyl ("PCB"), or other hazardous materials (hereinafter, collectively, "Hazardous Materials"). Customer warrants and represents that, except as set forth in a writing signed by Company, there are no Hazardous Materials on the Work site that will in any way affect Company's Work and Customer has disclosed to Company the existence and location of any Hazardous Materials in all areas within which Company will be performing the Work. Should Company become aware of or suspect the presence of Hazardous Materials, Company may immediately stop work in the affected area and shall notify Customer. Customer will be exclusively responsible for taking any and all action necessary to correct the condition in accordance with all applicable laws and regulations. Customer shall be exclusively responsible for and shall indemnify and hold harmless Company (including its employees, agents and subcontractors) from and against any loss, claim, liability, fees, penalties, injury (including death) or liability of any nature, and the payment thereof arising out of or relating to any Hazardous Materials on or about the Work site, not brought onto the Work site by Company. Company shall be required to resume performance of the Work in the affected area only in the absence of Hazardous Materials or when the affected area has been rendered harmless. In no event shall Company be obligated to transport or handle Hazardous Materials, provide any notices to any governmental agency, or examine the Work site for the presence of Hazardous Materials.

14. Force Majeure. Company's duty to perform under this Agreement is contingent upon the non-occurrence of an Event of Force Majeure. If Company shall be unable to carry out any material obligation under this Agreement due to an Event of Force Majeure, this Agreement shall at Company's election (i) remain in effect but Company's obligations shall be suspended until the uncontrollable event terminates or (ii) be terminated upon 10 days notice to Customer, in which event Customer shall pay Company for all parts of the Work furnished to the date of termination. An "Event of Force Majeure" shall mean any cause or event beyond the control of Company. Without limiting the foregoing, "Event of Force Majeure" includes: acts of God; acts of terrorism, war or the public enemy; flood; earthquake; tornado; storm; fire; civil disobedience; pandemic insurrections; riots; labor/labour disputes; labor/labour or material shortages; sabotage; restraint by court order or public authority (whether valid or invalid), and action or non-action by or inability to obtain or keep in force the necessary governmental authorizations, permits, licenses, certificates or approvals if not caused by Company; and the requirements of any applicable government in any manner that diverts either the material or the finished product to the direct or indirect benefit of the government.

15. Customer's Breach. Each of the following events or conditions shall constitute a breach by Customer and shall give Company the right, without an election of remedies, to terminate this Agreement or suspend performance by delivery of written notice declaring termination, upon which event Customer shall be liable to Company for all Work furnished to date and all damages sustained by Company (including lost profit and overhead): (1) Any failure by Customer to pay amounts when due; or (2) any general assignment by Customer for the benefit of its creditors, or if Customer becomes bankrupt or insolvent or takes the benefit of any statute for bankrupt or insolvent debtors, or makes or proposes to make any proposal or arrangement with creditors, or if any steps are taken for the winding up or other termination of Customer or the liquidation of its assets, or if a trustee, receiver, or similar person is appointed over any of the assets or interests of Customer; (3) Any representation or warranty furnished by Customer in this Agreement is false or misleading in any material respect when made; or (4) Any failure by Customer to perform or comply with any material provision of this Agreement.

16. Indemnity. Company and Customer shall indemnify, defend and hold harmless each other from any and all claims, actions, costs, expenses, damages and liabilities, including reasonable attorneys' fees, resulting from death or bodily injury or damage to real or tangible personal property, to the extent caused by the negligence or misconduct of their respective employees or other authorized agents in connection with their activities within the scope of this Agreement. Neither party shall indemnify the other against claims, damages, expenses or liabilities to the extent attributable to the acts or omissions of the other party. If the parties are both at fault, the obligation to indemnify shall be proportional to their relative fault. The duty to indemnify will continue in full force and effect, notwithstanding the expiration or early termination hereof, with respect to any claims based on facts or conditions that occurred prior to expiration or termination.

17. Limitation of Liability. NOTWITHSTANDING ANYTHING TO THE CONTRARY, NEITHER PARTY SHALL BE LIABLE TO THE OTHER FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING WITHOUT LIMITATION REFRIGERANT LOSS, PRODUCT LOSS, LOST REVENUE OR PROFITS), OR PUNITIVE DAMAGES WHETHER CLAIMED UNDER CONTRACT, WARRANTY, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER LEGAL THEORY OR FACTS. NO EVENT SHALL COMPANY BE LIABLE FOR ANY DAMAGES (WHETHER DIRECT OR INDIRECT) RESULTING FROM MOLD/MOULD, FUNGUS, BACTERIA, MICROBIAL GROWTH, OR OTHER CONTAMINATES OR AIRBORNE BIOLOGICAL AGENTS.

18. Patent Indemnity. Company shall protect and indemnify Customer from and against all claims, damages, judgments and loss arising from infringement or alleged infringement of any United States patent by any of the goods manufactured by Company and delivered hereunder, provided that in the event of suit or threat of suit for patent infringement, Company shall promptly be notified and given full opportunity to negotiate a settlement. Company does not warrant against infringement by reason of Customer's design of the articles or the use thereof in combination with other materials or in the operation of any process. In the event of litigation, Customer agrees to reasonably cooperate with Company. In connection with any proceeding under the provisions of this Section, all parties concerned shall be entitled to be represented by counsel at their own expense.

19. Warranty. Company warrants that for a period of 12 months from the date of substantial completion (a) the equipment manufactured by Company and furnished hereunder is free from defects in material and manufacture; and (b) the labor/labour furnished is warranted to have been properly performed (the "Warranty"). Company obligations of equipment start-up, if any are stated in the Proposal, are coterminous with the Warranty period. Substantial completion shall be the earlier of the date that the Work is sufficiently complete so that Customer can utilize the Work for its intended use or the date that Customer receives beneficial use of the Work. If such defect is discovered within the Warranty period, Company will correct the defect or furnish replacement equipment (or, at its option, parts therefor) and, if said equipment was installed pursuant hereto, labor associated with the replacement of parts or equipment not conforming to this Warranty. Defects must be reported to Company within the Warranty period. Exclusions from this Warranty include damage or failure arising from: wear and tear; corrosion, erosion, deterioration; Customer's failure to follow the Company-provided maintenance plan; modifications made by others to Company's equipment. Company shall not be obligated to pay for the cost of lost refrigerant or lost product. Additional terms and conditions of warranty coverage are applicable for refrigeration equipment. Notwithstanding the foregoing, all warranties provided herein terminate upon termination or cancellation of this Agreement. No liability whatsoever shall attach to Company until the Work has been paid for in full and then said liability shall be limited to the lesser of Company's cost to correct the defective Work and/or the purchase price of the equipment shown to be defective. Equipment, material and/or parts that are not manufactured by Company are not warranted by Company and

have such warranties as may be extended by the respective manufacturer. **THE WARRANTY AND LIABILITY SET FORTH IN THIS AGREEMENT ARE IN LIEU OF ALL OTHER WARRANTIES AND LIABILITIES, WHETHER IN CONTRACT OR IN NEGLIGENCE, EXPRESS OR IMPLIED, IN LAW OR IN FACT, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND/OR OTHERS ARISING FROM COURSE OF DEALING OR TRADE. UNLESS EXPRESSLY WARRANTED IN WRITING FOR CERTAIN HUSSMANN BRANDED EQUIPMENT, COMPANY MAKES NO REPRESENTATION OR WARRANTY EXPRESS OR IMPLIED REGARDING PREVENTION BY THE WORK, OR ANY COMPONENT THEREOF, OF MOLD/MOULD, FUNGUS, BACTERIA, MICROBIAL GROWTH, OR ANY OTHER CONTAMINATES. COMPANY SPECIFICALLY DISCLAIMS ANY LIABILITY IF THE WORK OR ANY COMPONENT THEREOF IS USED TO PREVENT OR INHIBIT THE GROWTH OF SUCH MATERIALS.**

20. Insurance. Company agrees to maintain the following insurance while the Work is being performed with limits not less than shown below and will, upon request from Customer, provide a Certificate of evidencing the following coverage:

Commercial General Liability	\$2,000,000 per occurrence
Automobile Liability	\$2,000,000 CSL
Workers Compensation	Statutory Limits

If Customer has requested to be named as an additional insured under Company's insurance policy, Company will do so subject to Company's manuscript additional insured endorsement. In no event does Company waive right of subrogation.

21. General. Except as provided below, to the maximum extent provided by law, this Agreement is made and shall be interpreted and enforced in accordance with the laws of the state or province in which the Work is performed. Any dispute arising under or relating to this Agreement that is not disposed of by agreement shall be decided by litigation in a court of competent jurisdiction located in the state or province in which the Work is performed. To the extent the Work site is owned and/or operated by any agency of the Federal Government, determination of any substantive issue of law shall be according to the Federal common law of Government contracts as enunciated and applied by Federal judicial bodies and boards of contract appeals of the Federal Government. This Agreement contains all of the agreements, representations and understandings of the parties and supersedes all previous understandings, commitments or agreements, oral or written, related to the subject matter hereof. This Agreement may not be amended, modified or terminated except by a writing signed by the parties hereto. No documents shall be incorporated herein by reference except to the extent Company is a signatory thereon. If any term or condition of this Agreement is invalid, illegal or incapable of being enforced by any rule of law, all other terms and conditions of this Agreement will nevertheless remain in full force and effect as long as the economic or legal substance of the transaction contemplated hereby is not affected in a manner adverse to any party hereto. Customer may not assign, transfer, or convey this Agreement, or any part hereof, or its right, title or interest herein, without the written consent of the Company. Subject to the foregoing, this Agreement shall be binding upon and inure to the benefit of Customer's permitted successors and assigns. This Agreement may be executed in several counterparts, each of which when executed shall be deemed to be an original, but all together shall constitute but one and the same Agreement. A fully executed facsimile copy hereof or the several counterparts shall suffice as an original.

22. Equal Employment Opportunity/Affirmative Action Clause. Company is a federal contractor that complies fully with Executive Order 11246, as amended, and the applicable regulations contained in 41 C.F.R. Parts 60-1 through 60-60, 29 U.S.C. Section 793 and the applicable regulations contained in 41 C.F.R. Part 60-741; and 38 U.S.C. Section 4212 and the applicable regulations contained in 41 C.F.R. Part 60-250 in the United States and with Canadian Charter of Rights and Freedoms Schedule B to the Canada Act 1982 (U.K.) 1982, c. 11 and applicable Provincial Human Rights Codes and employment law in Canada.

23. U.S. Government Work. The following provision applies only to direct sales by Company to the US Government. The Parties acknowledge that all items or services ordered and delivered under this Agreement are Commercial Items as defined under Part 12 of the Federal Acquisition Regulation (FAR). In particular, Company agrees to be bound only by those Federal contracting clauses that apply to "commercial" suppliers and that are contained in FAR 52.212-5(e)(1). Company complies with 52.219-8 or 52.219-9 in its service and installation contracting business.

The following provision applies only to indirect sales by Company to the US Government. As a Commercial Item Subcontractor, Company accepts only the following mandatory flow down provisions: 52.219-8; 52.222-26; 52.222-35; 52.222-36; 52.222-39; 52.247-64. If the Work is in connection with a U.S. Government contract, Customer certifies that it has provided and will provide current, accurate, and complete information, representations and certifications to all government officials, including but not limited to the contracting officer and officials of the Small Business Administration, on all matters related to the prime contract, including but not limited to all aspects of its ownership, eligibility, and performance. Anything herein notwithstanding, Company will have no obligations to Customer unless and until Customer provides Company with a true, correct and complete executed copy of the prime contract. Upon request, Customer will provide copies to Company of all requested written communications with any government official related to the prime contract prior to or concurrent with the execution thereof, including but not limited to any communications related to Customer's ownership, eligibility or performance of the prime contract. Customer will obtain written authorization and approval from Company prior to providing any government official any information about Company's performance of the work that is the subject of the Proposal or this Agreement, other than the Proposal or this Agreement.

Supersedes 1-26.251-10(1009)

1-26.251-10(1209)

RESOLUTION

WHEREAS, River Trails School District 26 is a member of the U.S. Communities Government Purchasing Alliance; and

WHEREAS, the U.S. Communities Government Purchasing Alliance has awarded a contract (15-JLP-023) with Trane, U.S. Inc. for comprehensive HVAC products, labor based installation, as well as related products and services; and

WHEREAS, pursuant to 5 ILCS 220/3 provides that any powers, privileges, functions or authority exercised or which may be exercised by a public agency of this state may be exercised, combined, transferred, and enjoyed jointly with any other public agency of this state and with any other public agency of any other state of the United States; and

WHEREAS, the Board of Education of River Trails School District 26 has determined the need to replace the air handler units in the cafeteria at Euclid School and Indian Grove School, as well as the band and chorus rooms at River Trails Middle School; and

WHEREAS, the Board of Education has also determined the need to upgrade the building automation system with a unit ventilator project; and

WHEREAS, the building automation system with a unit ventilator involves products previously purchased by and installed by Trane, U.S. Inc.; and

WHEREAS, Trane, U.S. Inc. has submitted a proposal for the above described work in the sum of \$740,409.00; and

WHEREAS, 105 ILCS 5/10-20.21(vii) provides an exception for bidding involving purchases and contracts for the use, purchase, delivery, movement, or installation of data processing equipment, software, or services in telecommunications and internet equipment, software, and services.

NOW, BE IT HEREBY RESOLVED, by this Board of Education as follows:

1. That the preambles as set forth above are hereby fully adopted.
2. That this Board does hereby award the contract to Trane, U.S. Inc. in accordance with the U.S. Communities Government Purchasing Alliance to replace the air handler units in

the cafeterias at Euclid School and Indian Grove School as well as the band and chorus rooms at River Trails Middle School and to upgrade the building automation system with a unit ventilator project in the total sum of \$740,409.00.

That the Superintendent is hereby authorized to execute any and all contracts in regards to the above stated work subject to final attorney review and approval.

Member _____ moved adoption of the foregoing Resolution, and Member _____ seconded the motion. Upon a roll call vote being taken, the members voted as follows:

AYE:

NAY:

The President declared the motion duly adopted.

Dated: _____

President

Dated: _____

Secretary

V. Better Building Challenge **(Information)**

Ms. Schuster will go over the Better Building Challenge with the Board.

RIVER TRAILS SCHOOL DISTRICT 26



Donna M. Johnson
President

Julia Nemcek
Vice-President

Linda K. Linder
Secretary

Dr. Dane A. Delli, Superintendent of Schools

Ms. Lyndl Schuster, Asst. Supt. for Business Services

Dr. Matthew A. Silverman, Asst. Supt. for Curriculum & Instruction

Dr. Miriam Cutler, Asst. Supt. for Special Services

Website: www.rtsd26.org

E-mail: ddelli@rtsd26.org

1900 E. Kensington Road, Mt. Prospect, Illinois 60056

· (847)297-4120 · FAX (847)297-4124

To: Operations Committee

From: Lyndl Schuster and Steve Kosmicki

Date: February 25, 2016

RE: Better Buildings Challenge

River Trails School District 26 has joined the U.S. Department of Energy Better Buildings Challenge. The Better Buildings Challenge is a Presidential leadership initiative which calls on chief executive officers, university presidents, and state and local leaders to create American jobs through energy efficiency. Better Buildings Challenge Partners will make public commitments to action—specifically committing to reducing their energy intensity across their entire portfolio by at least 20 percent within 10 years—and implement their plans to achieve lasting energy savings, improve our environment, and reduce our dependency on foreign oil.

River Trails is committing to reducing our energy by 20 percent from 2013 to 2023. We have already implemented a couple projects toward this end including the upgrades to the unit ventilators, LED lighting in the gyms and cafeterias at the elementary schools, and LED lighting for our parking lot lights and other outdoor lighting. The Energy Management project you just reviewed will further reduce our energy consumption.

Please see the attached announcement from the White House on our involvement in this program, our agreement and the program guide.

From: McDonald, Crystal
Sent: Friday, January 29, 2016 2:54 PM
To: 'llschuster@rtsd26.org' <llschuster@rtsd26.org>; 'SKosmicki@rtsd26.org' <SKosmicki@rtsd26.org>
Cc: Jen Singer <Jen.Singer@icfi.com>; Brittany Ryan (bryan@jdmgmt.com) <bryan@jdmgmt.com>
Subject: FW: White House Announces Better Buildings Results and New Partnerships

Dear Lynn and Steve,

Having joined the Better Buildings Challenge program after the 2015 Summit, you are one of our newest partners. For that reason, we wanted to take a moment to thank you for your leadership, and share a [White House Fact Sheet](#) released this morning, that celebrates your organization's commitment to energy efficiency.

We encourage you to help us spread the word about this announcement through your own social media channels, and we will do the same. Follow us [@BetterBldgsDOE](#) or on [LinkedIn](#) to see the latest tweets and posts. You can [find the latest news in the Better Buildings newsroom](#).

If it's helpful, here is a quote from Secretary of Energy Moniz that you may include in your own announcements:

"Better Buildings partners demonstrate how powerful a public-private partnership dedicated to solving a specific problem can be," said U.S. Secretary of Energy Ernest Moniz. "Bringing energy efficiency to scale is a national priority. We applaud the dedication of our partners to come up with innovative solutions that advance our nation's ability to reduce carbon emissions, and spur economic savings in our businesses and communities."

As always, we are grateful for your contribution to making our nation's buildings 20 percent more efficient in 10 years— saving billions in energy bills, reducing carbon emissions, and creating more sustainable communities.

Best regards,

Crystal T. McDonald, Policy Advisor
Office of Energy Efficiency and Renewable Energy / WIPO-Policy & Technical Assistance
US Department of Energy, Washington DC
[202.287.1799](tel:202.287.1799) (O) / [202.604.5245](tel:202.604.5245)(BB) / Crystal.McDonald@ee.doe.gov

Today the White House with the Energy Department released a [Fact Sheet](#), profiling how the actions of its Better Buildings Energy Data Accelerator partners led to a historic expansion of whole-building energy data access to building owners by 2017 – significantly increasing opportunities for building energy benchmarking. Also announced are new partnerships with cities, states, and companies, aimed at finding new ways to utilize energy data and put it to work to create a cleaner, healthier, and more energy efficient America.

[Read the full White House Fact Sheet](#)

[Learn more about Energy Data Accelerator Partner Accomplishments and Results](#)

FACT SHEET: Cities, Utilities, and Businesses Commit to Unlocking Access to Energy Data for Building Owners and Improving Energy Efficiency

Making buildings and homes more energy efficient is a win for jobs and economic growth, operating costs and bottom lines, and the President’s commitment to reduce carbon emissions and fight climate change. That is why, today, as part of the President’s Better Buildings Program, the Administration is announcing:

- 18 utilities serving more than 2.6 million customers, will provide access to energy data building owners by 2017, the first step to improve the energy efficiency of their buildings;
- 30 cities and states and 21 organizations from across the country are committing to take new actions to make it easier to identify ways to cut energy waste by making energy data available to building owners.
- 24 cities, states, and businesses are committing to improve the energy efficiency of their buildings by 20 percent by 2020; and
- Seven cities and states from across the country are committing to install more efficient outdoor lighting

The actions announced today build on commitments made by 285 organizations representing nearly 4 billion square feet since the Administration launched the President’s Better Buildings program in 2011. The program’s mission is to partner with the Energy Department to improve energy efficiency 20 percent by 2020, and share successful strategies that maximize efficiency deployment over the next decade. These new commitments from cities, school districts, and businesses like Nike and Wendy’s will help cut waste in our buildings, saving energy and money and reducing pollution.

Today’s commitments complement the Supreme Court’s decision earlier this week on the Federal Energy Regulatory Commission’s authority to enable consumers to get paid for cutting energy demand when prices are high. This decision allows us to continue realizing billions of dollars in annual savings from demand response measures that help ensure the reliability of our electricity system as we integrate more energy efficiency and renewable energy onto the power grid. [Read more in the Better Buildings newsroom.](#)

**ANNOUNCING NEW COMMITMENTS TO THE PRESIDENT’S CALL TO ACTION
24 Cities, State, and Businesses Commit to Improving the Energy Efficiency of Their**

Buildings 20 Percent by 2020: Today, 24 new partners representing 38 million square feet of building space, and 11 plants and facilities, are committing to join the President’s **Better Buildings Challenge** and improve their energy efficiency 20 percent by 2020. Since its launch in 2011 more than 285 organizations are partnering with the Energy Department to achieve 20 percent portfolio-wide energy savings across a total of 4 billion square feet of building space, and **share successful strategies** that maximize efficiency over the next decade. To date, partners are sharing 225 of their proven strategies and are on-track to meet their goals, with cumulative energy savings of 94 TBTUs, the equivalent of \$840 million dollars. Across the country, these partners have shared energy data for more than 32,000 properties, and are already reporting energy savings of 20 percent or more at 4,500 properties, and 10 percent or more at 12,000 properties. Altogether these new partners will work to improve efficiency across their entire portfolio of buildings. Today’s new partners and their commitments include:

- CBJ Energy *Baltimore, MD – joins as a financial ally and commits \$5 million*
- City of Chattanooga, *Chattanooga, TN – 2 million square feet*
- Columbia Association, *Columbia, MD – 490 thousand square feet*
- Electrolux *Charlotte, NC – 5 plants*
- H.J. Russell & Company *Atlanta, GA – 1 million square feet*
- Huntsville City Schools *Huntsville, AL – 5.3 million square feet*
- Intuit *Quincy, WA – 1 data center*
- IO Data Centers *Phoenix, AZ – 4 data centers*
- Iron Mountain Data Centers *Boston, MA – committing 8 data centers*
- Ithaca Area Wastewater Treatment Facility *Headquarters: Ithaca, NY – 1 plant*
- Jamestown *Atlanta, GA – 6.3 million square feet*
- Keene Housing *Keene, NH – 385 thousand square feet*
- Manchester School District *Manchester, NH – 2.3 million square feet*
- Nike Inc. *Beaverton, OR – committing 8.8 million square feet*
- Orange Water and Sewer Authority, *Carrboro, NC – 5 facilities*
- River Trails School District 26, *Mt. Prospect, IL – 220 thousand square feet*
- Sabey Data Center Properties *Seattle, WA – 7 data centers*
- Saunders Hotel Group *Boston, MA – 245 thousand square feet*
- Shari's Cafe & Pies *Beaverton, OR – 400 thousand square feet*
- The Wendy's Company *Dublin, OH – 920,000 square feet*
- U.S. Space and Rocket Center *Huntsville, AL – 350 thousand square feet*

- University of Maryland Medical Center, *Baltimore, MD – 2.5 million square feet*
- University of Nebraska Medical Center (UNMC) *Omaha, NE – 6.5 million square feet*
- Vistula Management Company *Toledo, OH – 340 million square feet*



Program Guide

For Portfolio Partners



Welcome to the U.S. Department of Energy’s (DOE) Better Buildings Challenge. The Better Buildings Challenge is a voluntary leadership initiative with the goal of making commercial and industrial buildings and multifamily residential housing across the country at least 20 percent more energy efficient over 10 years—saving American organizations \$80 billion annually in energy costs. Partners may also choose to work with the Department of Energy to track and reduce water use across their portfolio. Through this program, Partners will join other industry and community leaders to create and share real solutions that reduce energy and water consumption, create jobs, and save money. This program guide provides details on Partner milestones as well as program tools and support. The Better Buildings Challenge program team will work with each Partner to achieve program milestones and will provide ongoing quarterly check-ins.

Thanks again for participating in this important national leadership initiative, for committing to energy and water efficiency, and for creating and sharing solutions to persistent challenges to efficiency improvements. We look forward to working with you.

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Information Submission Forms (Available Separately in Microsoft Word)

- Website Profile Template
- Showcase Project Template
- Organization-wide Plan Template

This is one of a series of guides for the Better Buildings Challenge, including:

- ▶ Better Buildings Better Plants Program Guide
- ▶ Energy Data Tracking Manual for Better Buildings Challenge Partners
- ▶ Energy Data Tracking Manual for Better Buildings, Better Plants Partners

Partner Milestones

Since 2011, Better Buildings Challenge Partners have made significant commitments to energy efficiency, transparency, and leadership. In order to track and recognize these commitments, DOE has asked Partners to reach specific milestones within the first year of joining the Better Buildings Challenge. In the spirit of an ongoing partnership, DOE will track achievements and progress with regular check-ins.

FIGURE 1: BETTER BUILDINGS CHALLENGE MILESTONES

Within	Milestone	How
Start	<ul style="list-style-type: none"> ▶ Join Better Buildings Challenge 	<ul style="list-style-type: none"> ▶ Senior Executive signs and submits Partnership Agreement
1 Month	<ul style="list-style-type: none"> ▶ Assign senior leader and primary point of contact ▶ Submit information for program website 	<ul style="list-style-type: none"> ▶ Submit contact information to Better Buildings Challenge program team ▶ Use Website Profile Template
3 Months	<ul style="list-style-type: none"> ▶ Announce first showcase project 	<ul style="list-style-type: none"> ▶ Use Showcase Project Template
6 Months	<ul style="list-style-type: none"> ▶ Announce use of implementation model ▶ Develop and share organization-wide plan and energy/water reduction milestones ▶ Make available facility-level portfolio-wide energy/water data 	<ul style="list-style-type: none"> ▶ Dialogue with Better Buildings Challenge program team ▶ Use Organization-wide Plan Template ▶ See Sharing Data (Appendix 1)
9 Months	<ul style="list-style-type: none"> ▶ Begin implementation of first showcase project 	<ul style="list-style-type: none"> ▶ Use Showcase Project Template
Ongoing	<ul style="list-style-type: none"> ▶ Quarterly: provide updates on showcases, models, and progress ▶ Annual: update of facility-level portfolio-wide energy/water data 	<ul style="list-style-type: none"> ▶ Check-in with Better Buildings Challenge program staff ▶ See Better Buildings Challenge Data Manual ▶ Use Organization-wide Plan Template

Website Profile

Each Partner will have a profile page on the Better Buildings Challenge website. This page will highlight the Partner's commitment to the Better Buildings Challenge, progress towards that commitment, and the Partner's showcase projects and market innovations. If Partners commit to a water reduction goal, this commitment will be reflected on the profile page as well.

Examples of Partner pages can be found on the Better Buildings Challenge website at: www4.eere.energy.gov/challenge/partners

FIGURE 2: EXAMPLE OF A PARTNER PROFILE PAGE

The screenshot displays the partner profile page for Ascension Health. At the top left is the Better Buildings Challenge logo, and at the top right is the U.S. Department of Energy logo. A navigation bar includes links for Home, Partners, Allies, Media, About, and Contact, along with a search bar. The breadcrumb trail reads: Home > Partners > Better Buildings > Corporate Partners > Ascension Health. The Ascension Health logo is prominently displayed. The page features a table with energy performance metrics:

Energy Performance	
Goal	Commitment
20% Reduction in Energy Intensity by 2020	35 Million Square Feet
Progress	
Progress Update coming soon.	

Below the table are two columns: 'Showcase Project' (Saint Thomas Hospital, Nashville, TN) and 'Implementation Model' (Ascension Health's Playbook, Facilities Infrastructure Pool). A 'BACKGROUND' section follows, describing Ascension Health's mission and commitment to energy efficiency. At the bottom, a footer contains links for U.S. Department of Energy, FAQ, Contacts, Web Site Policies, Security & Privacy, FOIA, No Fear Act, and USA.gov.

Please use the Web Profile Template to submit profile page information for the Better Buildings Challenge.

Showcase Projects

Showcase Projects demonstrate that Better Buildings Challenge Partners are taking immediate, concrete actions resulting in significant and real savings. Showcases are an opportunity to highlight specific projects that are innovative, aggressive, and notable and to share strategies, solutions, and results. These are not intended to be exhaustive case studies, or focused on the technical details, but will be high-level stories of the development, implementation, and results of real projects that result in significant reduction in energy and/or water use intensity. Partners are encouraged to have multiple showcases, but are asked to identify at least one showcase within three months of joining the program and begin implementation within nine months.

FIGURE 3: EXAMPLE OF A SHOWCASE PROJECT



Recommendations

To create a compelling showcase project, select a discrete project that:

- ▶ Is expected to produce significant energy/water and cost savings, with a preference for 20 percent savings or more, in line with the Better Buildings Challenge goals
- ▶ Is replicable and demonstrates to others how to take action
- ▶ Is reflective of your commitment as a leader

Note, Partners that have both energy and water reduction goals may submit a showcase project reflecting work in both or either areas.

Reporting and Recognition

DOE will create a Web page for each showcase project when information is provided and will update it as the project is implemented and the results are measured. The following information, as well as any additional details that are unique to the specific project, will be collected about each project, as reflected in the Showcase Project Template.

Initial information on showcase project:

- ▶ Location, climate, building type, ownership type, project cost, size, photo(s)
- ▶ A paragraph describing the project, including the process for identifying the opportunity, defining the project, and deciding to proceed
- ▶ Expected energy/water savings, cost savings, and other results
- ▶ Investment details
- ▶ Expected duration of implementation

Quarterly updates on project implementation:

- ▶ An updated description of progress, including any changes to expected results or implementation schedule

Information at project completion:

- ▶ A brief description of any barriers addressed, innovations used, or lessons learned over the course of the project
- ▶ The types of energy or water efficiency measures implemented and the percentage of savings produced

Ongoing information after project completion:


- ▶ Actual energy/water savings compared with expectations, as pulled from actual facility-level data (as described later in this guide)
- ▶ Updates to actual cost savings compared with expectations

Implementation Models

Through the Better Buildings Challenge, DOE will highlight the development and use of innovative strategies to overcome persistent challenges to energy efficiency and water savings improvements. As a cornerstone of participation, Partners will identify at least one implementation model that they have used to address widespread barriers in the market; share the process they followed; and articulate the specific tools, documents, and steps they used to achieve success. Partners are encouraged to develop more than one implementation model to show how they achieved significant savings.

FIGURE 4: EXAMPLE OF AN IMPLEMENTATION MODEL

HEI HOTELS & RESORTS



Implementation Model: Energy Looking Glass Dashboard

ORGANIZATION TYPE
Hospitality

BARRIER
Lack of centralized information on energy, other key data

SOLUTION
Energy management tracking tool

OUTCOME
HEI is now able to recognize areas for improvement and realize savings

Overview

HEI developed an energy management tracking tool that analyzes key variables such as weather normalized utility consumption, and hotel occupancy alongside capital and operational energy efficiency initiatives. HEI named their system the Energy Looking Glass (ELG) Dashboard. It serves not only to track energy use and compare use across facilities, but it facilitates organizational behavior change by encouraging teamwork to meet company goals.

Your Hotel Name

ENERGY Looking Glass® (v29)

YOUR PROPERTY	September 25, 2012
Cooling Degree Days	0.0
Heating Degree Days	37.0
OR - Yesterday PM	353
OR - Yesterday AM	284
Energy Conservation Committee	
Bob Holesko-Chief Engineer	
Matt Klein-Banquet Manager	
Dan Walworth-Housekeeping	
Laura Grant-Executive Chef	
Property Characteristics	
Sq. Ft.: 330,000 Yr Built: 1986	
Orig Rating: 43 (RED)	
Curr Rating: 55 (GOLD)	
Top 25% of peer group!	
Qualified for Energy Star <i>plaque</i>	
Approx 2010 Carbon Footprint (metric tons of CO ₂ equivalent): 3,188.4	

Snapshot of ELG with a customized display for each property

Recommendations

To identify an implementation model that can be used by other organizations, select one that:

- ▶ Is innovative but replicable
- ▶ Addresses an acknowledged barrier to achieving energy efficiency
- ▶ Has led to demonstrated, measurable results
- ▶ Includes specific strategies and tools that were developed and used to achieve success that others can learn and borrow from
- ▶ Is related to organizational processes, high-level decision making and policies, business decisions, or financial and budget structures

Reporting and Recognition

Implementation models will be highlighted on Partner profile Web pages and in other areas of the Better Buildings Challenge program. DOE expects implementation models to be diverse and unique and therefore does not have a fixed list of data or information required for each. The Better Buildings Challenge program team will work with each Partner to identify and determine the best way to highlight the specifics of their implementation model. The following is an example of the kind of information DOE will collect and highlight to support this program milestone. Within six months of joining:

- ▶ A short description of the model, the barrier(s) it is designed to overcome, and how it was created and used
- ▶ A short description of the success achieved or expected by using the model and how the Partner has or will measure success
- ▶ Documents (such as policies, procedures, implementation summaries, presentations, contracts, models, or other tools and resources) that are developed to support the model that others might use to replicate success

Ongoing at quarterly check-ins:

- ▶ Any update on the use and impact of the model and related energy/water savings, cost savings, or other benefits
- ▶ Any updated or additional materials that support the model

Organization-wide Plan

Partners are asked to provide an organization-wide plan including specific energy reduction milestones that they will use to achieve their commitment of at least a 20 percent reduction in energy intensity over 10 years. The plan provides a brief overview of the strategies the Partner will use, defines major initiatives or projects that will contribute to energy reduction, and sets specific interim energy reduction targets that support the overall commitment. If the Partner chooses to share a water commitment, water efforts should be included as well.

Recommendations

To develop an effective and actionable organization-wide plan:

- ▶ Follow tried-and-true steps for strategic energy/water management planning, including securing the commitment of staff and executives, assessing management practices at an organizational level, assessing portfolio energy/water use and identifying opportunities for savings, and planning for the anticipated resource and funding needs to execute the plan
- ▶ Include internal and external communications strategies to recognize staff contributions, celebrate successes, and encourage the sharing of new ideas
- ▶ Incorporate evaluation mechanisms to track how well the plan has been implemented and what it has achieved

A compelling energy/water reduction milestone:

- ▶ Is ambitious but achievable
- ▶ Encompasses the entire portfolio, accommodating facilities with more and less energy efficiency potential as well as potential new acquisitions or construction
- ▶ Sets a three-year maximum horizon for realistic measurement and tracking

Reporting and Recognition

DOE encourages Partners to establish the organization-wide plan and energy reduction milestones within six months of joining the Better Buildings Challenge. A useful organization-wide plan includes:

- ▶ Summary of roles and responsibilities for achieving the commitment
- ▶ List of key actions and strategies that will be used to achieve the goal

Specific energy/water reduction milestones with associated dates:

- ▶ Summary of metrics used internally for tracking success

Ongoing at quarterly check-ins:

- ▶ Implementation updates, including progress made, results, and lessons learned through implementation

Facility-Level Portfolio-Wide Performance Data

Energy Data

To document the significant and sustained savings achieved by Better Buildings Challenge Partners, DOE will regularly collect facility-level performance data. The data will be used to document the progress made by the Partners toward achieving the energy reduction goal of the Better Buildings Challenge and to recognize the achievements of the Partners. As such, this data may be tracked at an aggregate or facility level¹ of detail. To chart progress toward the energy savings goal, DOE will use standard energy performance data collected annually, although Partners are encouraged to submit data semi-annually if data is already being tracked internally on a more frequent basis. For Partners that are tracking energy consumption in Portfolio Manager, these data can be shared for the Better Buildings Challenge as defined in the *Data Tracking Manual for Better Buildings Challenge Partners*.

The following are examples of data that will be collected and used to measure overall reduction in energy use throughout the portfolio:

- ▶ Total square feet of floor space

The following metrics are averaged over the previous 12 months:

- ▶ Current total site energy use
- ▶ Current total source energy² use
- ▶ Weather-normalized energy intensity³
- ▶ Energy intensity adjusted for space attributes/operating characteristics, where available
- ▶ Total energy cost
- ▶ Energy cost per square foot

Water Data

Partners who have also committed to a water reduction will be asked to submit water use data on an annual basis, along with their energy data. Depending on metering capacity, data should be submitted by facility or meter. Partners may choose to define their water portfolio as their entire set of buildings, or may instead chose to focus on a set of buildings in a region experiencing water scarcity. The data will be used to document and recognize the progress of Partners, and will be included on Partner's data page, along with the energy data display. For Partners that are tracking consumption in Portfolio Manager, these data can be shared for the Better Buildings Challenge as defined in the *Data Tracking Manual for Better Buildings Challenge Partners*.

¹ Facility names and addresses will not be displayed, except for facilities that are part of showcase projects.

² Source energy includes the energy used during transmission from the generation source to the building site. This value is calculated by Portfolio Manager.

³ Weather-normalized energy intensity uses weather data to account for an unusual number of days when buildings need to be heated or cooled, and adjusts energy intensity accordingly so that it can be compared between years. This value is calculated by Portfolio Manager.

The following are examples of data that will be collected and used to measure overall reduction in water use throughout the portfolio:

- ▶ Current total site water use
- ▶ Number of units
- ▶ Use of water
- ▶ Source of water
- ▶ Total water cost
- ▶ Water cost per square foot
- ▶ Recycled water use



The **Better Buildings Challenge** is a Presidential leadership initiative which calls on chief executive officers, university presidents, and state and local leaders to create American jobs through energy efficiency. **Better Buildings Challenge Partners** will make public commitments to action—specifically committing to reducing their energy intensity across their entire portfolio by at least 20 percent within 10 years—and implement their plans to achieve lasting energy savings, improve our environment, and reduce our dependency on foreign oil.

The Partner Agrees to:

✓ **Commit**

- ▶ **Publicly pledge** to improve energy intensity of the entire portfolio by at least 20 percent by 2020 or within 10 years
- ▶ Assign a **senior executive and primary point of contact** to fulfill Better Buildings Challenge commitments within 1 month
- ▶ Develop an **organization-wide plan with energy reduction milestones** to achieve energy savings commitment within 6 months

✓ **Take Action**

- ▶ **Publicly announce an initial showcase project** (e.g., retrofit, retro commissioning) within 3 months and initiate the project within 9 months
- ▶ Announce the use of one or more **energy efficiency implementation models** within 6 months

✓ **Report Results**

- ▶ **Share information** on the energy efficiency implementation models used to achieve the energy savings commitment
- ▶ Make available **portfolio-wide, building-level energy performance** information used to document progress toward achieving energy reduction goals on an annual basis. Partners are encouraged to submit data in 6 month intervals
- ▶ **Provide regular updates on progress** with showcase projects and energy efficiency implementation models, energy savings across the organization, and energy performance as the basis for recognition

The Department of Energy Agrees to:

✓ **Assist**

- ▶ Provide **technical assistance and energy efficiency implementation models** to support Partners' commitment to measure, track, and improve portfolio energy performance
- ▶ Collaborate with Partner on a regular basis

✓ **Connect**

- ▶ **Establish a marketplace of energy efficiency stakeholders**, such as government, industry, service providers, financial institutions, and technology companies
- ▶ **Connect Partners** with Allies that commit to transparency and good faith efforts to provide products, services, financing, and other resources to evaluate and support energy efficiency projects

✓ **Recognize Success**

- ▶ **Provide national recognition to Partners** for achieving program milestones and energy efficiency results
- ▶ **Recognize Partners** who leverage, develop, and share innovative and cost-effective energy efficiency implementation models

Agreement

My organization is committed to continuous improvement in energy efficiency and agrees to the General Terms of the Better Buildings Challenge.



Senior Executive Officer

11-30-15

Date

Contact Information

Organization: River Trails School District 26 Address: 1900 E. Kensington Rd., Mt Prospect, IL 60056
Name: Lyndl Schuster/Steve Kosmicki Title: Asst. Supt. for Business Services/Director Buildings & Grounds
Phone: 224-612-7302/7306 Email: lschuster@rtsd26.org/skosmicki@rtsd26.org
Square Footage Commitment: 220,000
Energy Savings Goal (e.g., 20% reduction in energy intensity by 2023): 20% reduction by 2026

General Terms

- ▶ All parties concur that this agreement is wholly voluntary and may be terminated by any party at any time, and for any reason, with no penalty.
- ▶ Partner will not construe, claim, or imply that its participation in the Better Buildings Challenge constitutes Federal Government approval, acceptance, or endorsement of anything other than Partner's commitment to the program.
- ▶ Partner understands its participation in the Better Buildings Challenge does not constitute Federal Government endorsement of Partner or its buildings, homes, products, services, or industrial facilities.
- ▶ Partner understands that the activities it undertakes in connection with the Better Buildings Challenge are voluntary and not intended to provide services to the Federal Government. Partner will not submit a claim for compensation to any federal agency.
- ▶ The Better Buildings Challenge will honor all requests to keep the Partner's information and data confidential.