

City of Biddeford
School Committee
January 26, 2022 7:00 PM Little Theater at BHS

Public Viewing

Public Viewing:
Local Public Access Station
City of Biddeford Website

Please click the link below to join the webinar:

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Webinar ID: 898 5641 7589

Public Participation - Further Instructions

A. Call to Order:

B. Roll Call:

C. Pledge of Allegiance:

D. Adjustments to Agenda:

E. Consideration of Minutes:

E.1. Minutes 1/12/2022

[Biddeford Minutes 1_12_2022.pdf](#)

F. Consent Agenda

F.1. Appointment:

Ryan Pare ~ Custodian District-Wide ~ Replacing Micheal Descoteaux

Jack Allsopp ~ Ed Tech II Self-Contained Behavior BMS ~ Replacing Shannon Foley

Mike Caliendo ~ Percussion Staff BHS Stipend

Resignation:

Debra Dineen ~ Math Teacher BHS ~ Retiring end of the school year 2022

Patsy Gendron ~ ELL Teacher BMS ~ Retiring end of the school year 2022

Debra Hapgood ~ CNA/Health Science COT ~ Retiring end of the school year 2022

Transfer:

Adam Flynn ~ BHS Math Teacher ~ Transferring to Student Service Coordinator BMS

~ Replacing Sue Sydnor

[2021-2022 Athletic & Nonathletic stipends nominations BHS.xlsx - Sheet1.pdf](#)

G. Superintendent's Report:

H. Committee Reports: Finance/Building, Grounds; Curriculum; Policy; Waterhouse Advisory Committee

I. Old Business:

J. New Business: Public participation opportunity after each item listed below (3 minutes per item)

- J.1. Roof Top Solar Option - Informational
- COVID Cases, Trends, Booster Clinics
- Budget Update and ED 279
- Grade Level Placement
- Review of Survey Data (3)
- High School Class Sizes
- Elementary Class Sizes
- District Student Enrollment Trends
- Survey Results
- Staff Survey Summary
- Student Survey Summary
- Parent Survey Summary

[Biddeford Roof Solar.pdf](#)

[BDS 279 - Jan 20.pdf](#)

[Class Size Memo.pdf](#)

[Future of BMS Faculty_Staff Results.pdf](#)

[8th_9th Grade Survey Results.pdf](#)

[BMS Parent Survey Results.pdf](#)

[Nursing Update 1.26.22.pdf](#)

K. Public Participation: (3 minutes; any item)

L. Communications:

M. Executive Session:

- M.1. Labor Contract Negotiations for Superintendent Pursuant to 1 M.R.S.A § 405(6)(D) to extend his contract one year.

N. Adjournment:

Biddeford School Department
Wednesday, January 12, 2022
5:00 pm **Minutes**

School Committee - Little Theater BHS in Person
Public Viewing - Zoom & Public Access

Public Viewing:

Local Public Access Station
City of Biddeford [Website](#)

Please click the link below to join the webinar:

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Webinar ID: 862 0091 3945

Public Participation - [Further Instructions](#)

- A. Call to Order:** ~ The meeting was called to order at 5:00 pm by Mayor Alan Casavant
- B. Roll Call:** ~ Mayor Alan Casavant, Meagan Desjardins, Lisa Vадnais, Michele Landry, Amy Grohman, Randy Forcier, Nate Bean, Rebecca Henry (via Zoom), Mandy Cyr and Jeremy Ray
- C. Pledge of Allegiance:** ~ The pledge was led by Mayor Alan Casavant
- D. Adjustments to Agenda:** ~ None
- E. Approval of Last Meeting's Minutes:** Minutes from [12/8/2021](#) ~ Randy Forcier moved to approve the last meeting minutes, Nate Bean seconded the motion and all were in favor.
- F. Consent Agenda:** ~ Nate Bean moved to approve the consent agenda, Amy Grohman seconded, and all were in favor.

Appointment:

- a. Harry Libby ~ Custodian ~ Replacing Patrick Morneau
- b. [Athletic Stipends BHS](#)
 - Kristy Kendrick ~ Unified Basketball Coach
 - Nicole Walker ~ Unified Basketball Coach
- c. Sarah Mitchell ~ AP Associate ~ Replacing Taylor Turner
- d. [Athletic Stipends BMS](#)
 - Jimmy Smith ~ Wrestling Head Coach
 - Mike Hallett ~ Indoor Track Head Coach
 - Derek Gaudreau ~ Indoor Track Assistant Coach
 - Katie Babineau ~ Indoor Track Assistant Coach
 - Kristy Kendrick ~ Unified Basketball Coach
 - Nicole Walker ~ Unified Basketball Coach

Resignation:

- a. Sue Sydnor ~ Student Services/Truancy BMS
- b. Susan Scully ~ Ed Tech II BPS

School Committee Members:

Alan Casavant-Chair	Randy Forcier
Lisa Vадnais-Vice Chair	Meagan Desjardins
Michele Landry	Nate Bean
Amy Grohman	Rebecca Henry

cc: Jeremy Ray- Superintendent
cc: Chris Indorf-Asst. Superintendent
cc: Mandy Cyr- Dir. Instr. & Innov.

Transfer:

- a. Gilbert Standish ~ Promoted from Head Custodian BPS to Lead Custodian Elementary ~ New Position

G. Superintendent's Report: ~ Jeremy Ray started off with a COVID-19 update from the latest SOP. At this point in time, no matter where we are public or in other places. We should always be taking precautions, looking at a situation we need to assume that somebody in our sphere or in public is positive and we are a close contact. We are going to notify families if you're in a pool that tests positive so you can continue to monitor and test if symptoms arise. We are asking that students and staff stay home if they are not feeling well and contact the nurse at the school. While we're home on remote, we have a link so that parents can enter if their student tests positive. When we talk about the closure of schools. As in this week being remote at the high school and middle school, these are the very last things that we want to do, we do not want to have our kids out of school. However, we have to have staff in our buildings appropriately to supervise the students. We had to shut it down for a little bit in the last week, especially over the weekend. There were several cases on Monday morning being called in by families and we felt it was important to hit the pause button for a week that included shutting down athletics. When you think about staff running your building it's not just teachers, we have to consider our lunch staff, we have to consider our custodians and maintenance staff. We are going to try to bring our kids back next week, depending on the information and the data that we get over the weekend, as this is something that can change quite quickly. We were able to work with Hyperlight today to purchase more masks for students. We got good news today that we are going to be able to replace all 800 Chromebooks at the high school for students. And we were able to pick up the combined grant with Dayton so they will receive 40 as well for the upper-level students. We have 100 hotspots that will be able to make sure that will help families with connectivity that we can use throughout the community whether that be for situations like today or where we are remote and people don't have access. Also for the homeless population who is in need of support with internet access. We have been meeting with Revision Energy and it looks like at the end of 2022 we should be online for a project so that our electricity will be coming from solar. Also, have a meeting set up to explore what rooftop solar units might look like and what value those could add to our school department.

H. Committee Reports:

I. Old Business:

J. New Business:

- a. [Class Size Option - Elementary - Informational](#) ~ Presented by Jeremy Ray
- b. [Staff Survey Results - 8th Graders at Maplewood Ave Campus](#) ~ Presented by Mandy Cyr ~ Director of Instruction and Intervention
- c. [COVID Update](#) ~ Presented by Jeremy Ray
- d. Budget Update ~ Presented by Jeremy Ray
- e. [ESSER III ~ Budget Overview](#) ~ Presented by Mandy Cyr
- f. Vote: To authorize and adopt the attached Restated [403b Plan](#) ~ Alan Casavant made a motion to approve a vote entitled, "Votes Concerning 403(b) Plan Restatement" be approved in the form presented to this meeting and that the Secretary file an attested copy of said vote with the minutes of this meeting. Whereas, the Biddeford School Department adopted a 403(b) Plan (the "403(b) Plan"), effective January 1, 2009, as amended, to allow eligible employees of the School Department to contribute salary pre-tax to save for retirement; Whereas, the School Department desires to amend and restate the 403(b) Plan to allow the

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Lisa Vadnais-Vice Chair	Meagan Desjardins
Michele Landry	Nate Bean
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cc: Jeremy Ray- Superintendent
cc: Chris Indorf-Asst. Superintendent
cc: Mandy Cyr- Dir. Instr. & Innov.

School Department to make discretionary employer contributions, in addition to employee salary deferrals, and the School Department's legal counsel has prepared the attached Amended and Restated 403(b) (the "Restated 403(b) Plan": that incorporates this change; Now, Therefore, the School Committee of the School Department hereby votes to authorize the adoption of the Restated 403(b) Plan as follows. Nate Bean seconded, and all were in favor

K. Public Participation: (3 minutes; any item) Raise digital hand

L. Communications: None

M. Executive Session: None

N. Adjournment: Nate Bean moved to adjourn the meeting at 5:55 pm, Randy Forcier seconded, and all were in favor.

Due to the COVID-19 PANDEMIC, the Biddeford School Committee will meet in person but will conduct the public hearing and meeting through a zoom webinar. The public will not be allowed to attend the meeting in person. However, the meeting may be viewed live on the City's Public Access Channel or on the City's website: www.biddefordmaine.org, selecting the Government tab and then clicking on "Video/Agendas/Minutes". Copies of the agenda and minutes are available on the City's website and School website www.biddefordschools.me.



Signed:
Jeremy Ray ~ Superintendent of Schools

Date: 1/14/2022

School Committee Members:

Alan Casavant-Chair	Randy Forcier
Lisa Vadnais-Vice Chair	Meagan Desjardins
Michele Landry	Nate Bean
Amy Grohman	Rebecca Henry

cc: Jeremy Ray- Superintendent
cc: Chris Indorf-Asst. Superintendent
cc: Mandy Cyr- Dir. Instr. & Innov.

2021-2022 Athletic Stipends Biddeford High School

FALL	Coach's Name	Season	Stipend	Nominated	Approved by Board
Varsity Football (H)	Steve Allosso	Fall	\$6,870.96	7/30/2021	8/11/2021
JV - Assistant Football (A)	Joie Hansen	Fall	\$4,122.58	7/30/2021	8/11/2021
JV - Assistant Football (A)	Jeff Wolfahrt	Fall	\$4,122.58	7/30/2021	8/11/2021
JV - Assistant Football (A)	Keith Leblanc	Fall	\$4,122.58	7/30/2021	8/11/2021
FR Football FR (H)	EJ Kruse	Fall	\$4,122.58	7/30/2021	8/11/2021
FR Football FR (A)	Jon Chenard	Fall	\$4,122.58	7/30/2021	8/11/2021
Varsity Soccer (G) (H)	Darren Boynton	Fall	\$4,580.64	7/30/2021	8/11/2021
JV Soccer (G) (A)	Alyssa Rondo	Fall	\$2,748.38	7/30/2021	8/11/2021
Head Varsity Boys Soccer	Paul Illiano	Fall	\$4,580.64	7/30/2021	8/11/2021
JV Soccer (B) (A)	VACANT	Fall		7/30/2021	
Varsity Field Hockey (H)	Caitlin Tremberth	Fall	\$4,580.64	7/30/2021	8/11/2021
JV - Field Hockey (A)	Laurie Maushart	Fall	\$1,374.19 (1/2)	7/30/2021	8/11/2021
JV - Field Hockey (A)	Suraiya Gobeil	Fall	\$1,374.19 (1/2)	7/30/2021	8/11/2021
Varsity Volleyball (H)	Ruth Shaw	Fall	\$4,198.92	7/30/2021	8/11/2021
JV - Volleyball (A)	Gerald Lapierre	Fall	\$2,519.35	7/30/2021	8/11/2021
Varsity Cheerleading (H) Fall	Deb Lebel	Fall	\$2,672.04	7/30/2021	8/11/2021
Varsity - Golf (H)	Jon Jacques	Fall	\$3,435.48	7/30/2021	8/11/2021
JV -Golf (JV Cheering Stipend)	Josh Williams	Fall	\$1,603.22	7/30/2021	8/11/2021
Varsity Cross Country (B/G)	Chris Quint	Fall	\$3,817.20	7/30/2021	8/11/2021
Field Lining - Fall	Shawn Descoteaux	Fall	\$1,500.00	7/30/2021	8/11/2021
WINTER	Coach's Name	Season	Stipend	7/30/2021	
Varsity - Basketball (B) (H)	Justin Tardif	Winter	\$6,107.52	7/30/2021	8/11/2021
FR - Basketball (B) (H)	Keith Leblanc	Winter	\$3,664.51	7/30/2021	8/11/2021
JV - Basketball (B) (A)	James Strohm (1/2)	Winter	\$1,827.55	11/23/2021	12/8/2021
JV - Basketball (B) (A)	Craig Dube (1/2)	Winter	\$1,827.55	11/23/2021	12/8/2021
Varsity - Basketball (G) (H)	Jeannine Paradis	Winter	\$6,107.52	7/30/2021	8/11/2021
FR - Basketball (G) (H)	Gerald Lapierre	Winter	\$3,654.51	12/1/2021	12/8/2021
JV - Basketball (G) (A)	Ron Cote	Winter	\$3,664.52	11/9/2021	11/10/2021
Varsity - Hockey (B) (H)	Jason Tremblay	Winter	\$5,344.08	7/30/2021	8/11/2021

2021-2022 Athletic Stipends Biddeford High School

FALL	Coach's Name	Season	Stipend	Nominated	Approved by Board
JV - Hockey (B) (A)	Ethan Basille	Winter	\$3,206.45	7/30/2021	8/11/2021
Varsity - Hockey (G) (H)	Adam Flynn	Winter	\$5,344.08	7/30/2021	8/11/2021
JV - Hockey (G) (A)	Josh Williams	Winter	\$3,206.45	11/9/2021	11/10/2021
Varsity - Wrestling (H)	Anthony Cincotta	Winter	\$5,344.08	7/30/2021	8/11/2021
JV - Wrestling (A)	Ryan Toussaint	Winter	\$3,206.45	11/9/2021	11/10/2021
Var - Cheerleading (H) Winter	Deb Lebel	Winter	\$3,817.20	7/30/2021	8/11/2021
JV - Cheerleading (A) Winter	VACANT	Winter	\$2,290.32		
Varsity Track Indoor (B/G) (H)	Chris Quint	Winter	\$4,962.36	7/30/2021	8/11/2021
JV - Track Indoor (B/G) (A)	Ron Ouellette	Winter	\$2,977.42	7/30/2021	8/11/2021
JV - Track Indoor (B/G) (A)	Erin O'Connor	Winter	\$2,977.42	7/30/2021	8/11/2021
JV - Track Indoor (B/G) (A)	EJ Kruse	Winter	\$2,977.42	7/30/2021	8/11/2021
Weight Lifting (School Year)	Steve Allosso	2020-2021	\$4,198.92	7/30/2021	8/11/2021
Unified Basketball (H)	Kristie Kendrick	Winter	\$1,908.60	1/4/2022	1/12/2022
Unified Basketball (A) Liaison	Nicole Walker	Winter	\$1,145.16	1/4/2022	1/12/2022
SPRING					
Varsity - Baseball (H)	Keith Leblanc	Spring	\$4,580.64	7/30/2021	8/11/2021
JV - Baseball (A)	Richard Letelliere	Spring	\$2,748.38	7/30/2021	8/11/2021
FT - Baseball (H)	James Kenney	Spring	\$2,748.38	7/30/2021	8/11/2021
Varsity - Softball (H)	Mike Fecteau	Spring	\$4,580.64	7/30/2021	8/11/2021
JV - Softball (A)	Dan Letelliere	Spring	\$2,748.38	7/30/2021	8/11/2021
Varsity - Lacrosse (B) (H)	Jason Martel	Spring	\$4,962.36	7/30/2021	8/11/2021
JV - Lacrosse (B) (A)	Jeffrey Wolfahrt	Spring	\$2,977.42	7/30/2021	8/11/2021
Varsity - Lacrosse (G) (H)	Caitlin Tremberth	Spring	\$4,962.36	7/30/2021	8/11/2021
JV - Lacrosse (G) (A)	Kaitlin Prince	Spring	\$2,977.42	7/30/2021	8/11/2021
Varsity - Track Outdoor (G) (H)	Chris Quint	Spring	\$4,580.64	7/30/2021	8/11/2021
Varsity - Track Outdoor (B) (H)	EJ Kruse	Spring	\$4,580.64	7/30/2021	8/11/2021
JV - Track Outdoor (B/G) (A)	Logan Gailitis	Spring	\$2,748.38	7/30/2021	8/11/2021
JV - Track Outdoor (B/G) (A)	Ron Ouellette	Spring	\$2,748.38	7/30/2021	8/11/2021
Varsity - Tennis (B)	Vacant	Spring	\$2,672.04	7/30/2021	8/11/2021

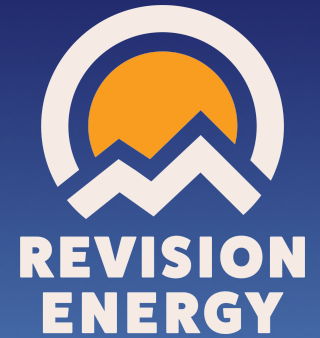
2021-2022 Athletic Stipends Biddeford High School

FALL	Coach's Name	Season	Stipend	Nominated	Approved by Board
Varsity - Tennis (G)	Teri Schang	Spring	\$2,672.04	7/30/2021	8/11/2021
Summer Conditioning	Steve Allosso	2022	\$1,908.60	7/30/2021	8/11/2021
Field Lining - Spring	Shawn Descoteaux	2022	\$1,500.00	7/30/2021	8/11/2021
BHS - Co-Curricular					
Annual - 2021-2022					
Choral Director	Wesley Raines	21-22	\$2,229.00	10/12/2021	10/27/2021
Drama Director	Bruce Brasier	21-22	\$2,229.00	10/22/2021	10/27/2021
Instrumental Director	Mike Murphy	21-22	\$3,343.50	10/12/2021	10/27/2021
Fall - 2021					
Marching Band Director	Mike Murphy	2021	\$3,343.50	10/12/2021	10/27/2021
BHS Drill Instructor	Brandon Johnson	2021	\$2,229.00	10/12/2021	10/27/2021
BHS Color Guard	Margaret Pitt	2021	\$2,229.00	10/12/2021	10/27/2021
BHS Percussion	Grace Murphy	2021	\$2,972.00	10/12/2021	10/27/2021
BHS Tech	Will Martin	2021	\$1,192.00	10/12/2021	10/27/2021
Winter - 2021-2022					
Marching Band Director	Mike Murphy	21-22	\$2,972.00	10/12/2021	10/27/2021
BHS Visual Design	Brandon Johnson	21-22	\$1,490.00	10/12/2021	10/27/2021
BHS Percussion	Grace Murphy	21-22	\$1,490.00	10/12/2021	10/27/2021
Percussion Staff - Winter	Mike Caliandro	21-22	\$1,486.00	1/21/2022	
BHS Tech	Will Martin	21-22	\$1,192.00	10/12/2021	10/27/2021
Non-Instrumental Stipends					
Civil Rights Team Advisor	Dave Nelson (1/4)	21-22	\$278.62	10/12/2021	10/27/2021
Civil Rights Team Advisor	Clarence Holman (1/2)	21-22	\$557.25	10/12/2021	10/27/2021
Civil Rights Team Advisor	Jordan Seavey (1/4)	21-22	\$278.62	10/12/2021	10/27/2021
Debate Team Coach	Not Offered				

2021-2022 Athletic Stipends Biddeford High School

FALL	Coach's Name	Season	Stipend	Nominated	Approved by Board
Interact	Hanah Johnson	21-22	\$1,114.50	10/12/2021	10/27/2021
Freshmen Mentor Advisor	Joyce Tarp	21-22	\$1,486.00	10/12/2021	10/27/2021
Robotics	Carol LePauloue	21-22	\$1,114.50	10/12/2021	10/27/2021
National Honor Society	Doreen Collin (1/2)	21-22	\$557.25	10/12/2021	10/27/2021
National Honor Society	Vicki Salo (1/2)	21-22	\$557.25	10/12/2021	10/27/2021
Journalism	Bruce Brasier	21-22	\$1,114.50	10/12/2021	10/27/2021
Math Team Advisor	James Grover	21-22	\$1,114.50	10/12/2021	10/27/2021
Odyssey of the Mind Cord.	Vicky Salo	21-22	\$1,114.50	10/12/2021	10/27/2021
Student Council Advisor	Becky Auten (1/3)	21-22	\$743.00	10/12/2021	10/27/2021
Student Council Advisor	Hannah Johnson (1/3)	21-22	\$743.00	10/12/2021	10/27/2021
Student Council Advisor	James Grover (1/3)	21-22	\$743.00	10/12/2021	10/27/2021
Yearbook Advisor	Heather Tremblay	21-22	\$2,972.00	10/12/2021	10/27/2021

Welcome!



On behalf of our nearly 300 employee-owners, thank you for exploring solar with ReVision Energy. Since 2003, we have designed and installed over 10,000 clean energy systems to become New England's leading full-service solar company. As a 100% employee-owned B Corporation, we would be honored to partner with you in bringing this project to life!



Certified



Corporation



PV Installation
Professional



Click to navigate  10



Solar for Nonprofits

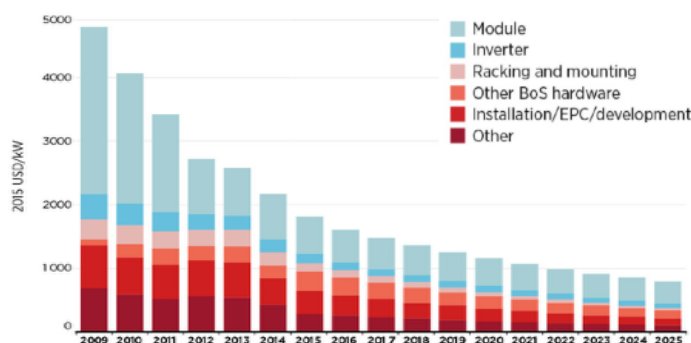
2021 Solar Financial Highlights



Nonprofit Solar Financials

- **\$0 Upfront Cost** power purchase agreements (PPA) or low-interest loans ensuring a cashflow-positive investment with electricity savings greater than PPA cost/loan payment from day 1
- **Net Metering and RECs:** Solar offsets full retail electricity rates onsite, provides net metering revenue from excess or offsite generation; Renewable Energy Credits sell for \$30+/MWh
- **Warranties:** All systems include 5-year workmanship warranty, 15-25 year equipment warranties, and 25-year panel production warranty with ReVision Energy as the single point of contact
- **Levelized Cost of Energy:** Factoring in upfront cost and O&M, nonprofit solar provides lowest average cost of energy at 4-7 cents per kWh over system life – 50%-75% lower than grid electricity
- **Net Savings/Revenue** total \$500,000 to \$5 million for most nonprofit systems over 25-year warranty and 40-year commercial life (depending on scale) compared to utility cost projections
- **Impact Investor Financing:** Local, mission-driven impact investors cover system installation and full operations & maintenance throughout PPA term

Cost of Solar, 2009-2025



Selected Nonprofit Clients





Solar for Nonprofits

Power Purchase Agreement Overview

Solar Power Purchase Agreements (PPA) are innovative financial structures which eliminate the primary barrier to nonprofits going solar: access to upfront capital. Instead of requiring a capital investment, ReVision Energy pairs tax-exempt organizations with local mission-motivated solar investors who can take advantage of federal tax incentives not available to cities and towns. The investor partner owns and operates the array at the nonprofit's location and sells the solar power to the host at below-market rates with \$0 upfront cost.

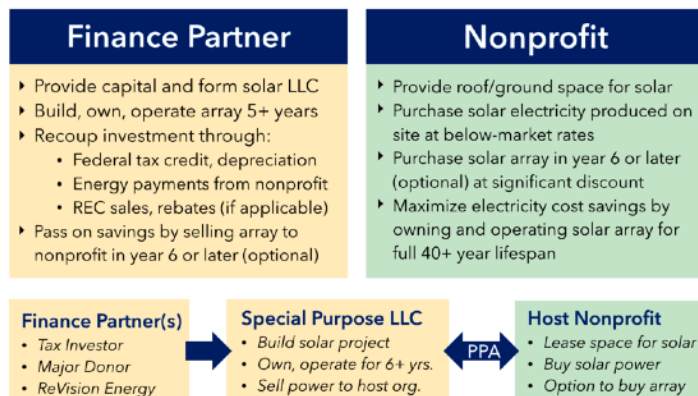
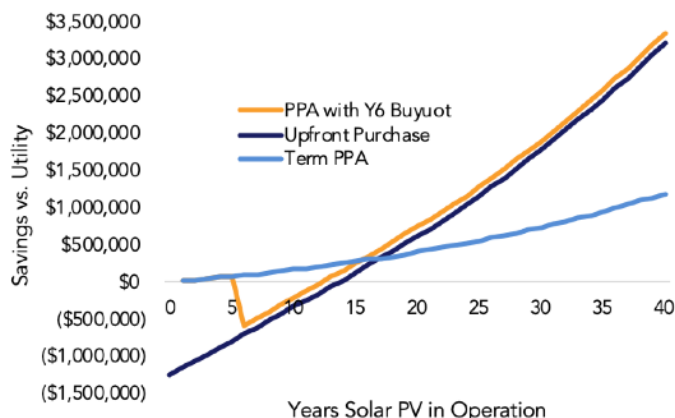
Challenge: Tax-Based Solar Incentives

- Solar incentives only apply to existing tax liability
- Outright purchase requires extended payback
- Many nonprofits cannot afford up-front cost or cashflow impact in spite of LT financial benefits

Solution: PPA Financing Partnership

- Nonprofit leases solar-ready site to impact investor partner for 5-25 years
- Investor owns/operates solar at no cost to host
- Nonprofit buys discounted solar power and has option to buy array after 5 years

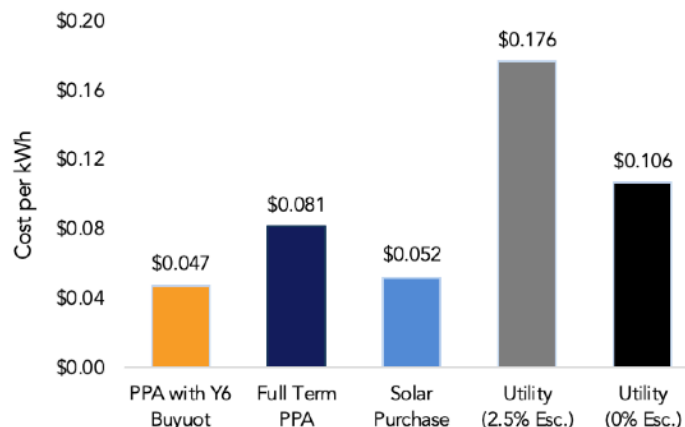
Savings vs. Utility (Sample PPA Project)



Long-Term Ownership Benefits

Although ReVision Energy PPAs come with a standard 25-year term and can be extended 10 additional years, all PPAs also include a flexible discounted early buyout option after 5 years. Long-term ownership ensures the lowest long-term levelized cost of electricity from any source at 50%-75% below current/projected utility costs while cutting carbon pollution. Buyouts are frequently financed through low-interest bonds, thereby remaining cashflow-positive throughout the system life including optional Operations & Maintenance (O&M) service. Nonprofits are never obligated to exercise their solar buyout option.

Levelized Cost of Energy (40 Years)





Solar for Biddeford Public Schools

Prelim. PPA Proposal for High School and COT

Prelim. proposal date

January 20, 2022

Solar Design Summary

Project size (DC)	1442 Panels	692.2 kW
Project size (AC)	33 Inverters	570.9 kW
Year 1 generation (kWh)		819,082

PPA Financial Summary

Upfront cost to Biddeford Public Schools	\$0.00
O&M cost to Biddeford Public Schools	\$0.00
Year 1 PPA rate (per kWh)	\$0.1200
PPA rate escalator starting year 2	2.0%
PPA term (minimum 5 years)	5-25 years
Year 6 early buyout estimate (optional)	\$1,014,926
Upfront cost financed by investor partner	\$1,490,560

PPA rate offer good for 30 days from date above

Engineer's Rendering: Roof



10 Maplewood Ave., Biddeford, ME 04005 (2019 Satellite Data)

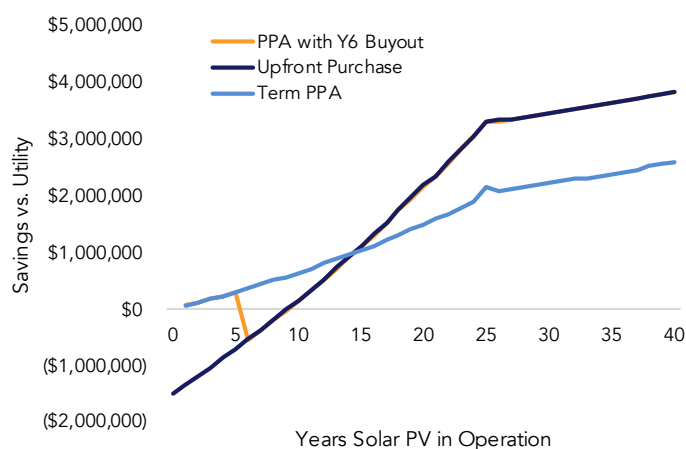
PPA Project Savings/Revenue

Estimated savings years 1-5 under PPA	\$299,000
Year 6 buyout (optional) less savings	\$715,926
O&M cost after buyout (per year, optional)	\$3,664
Term PPA savings, no buyout	\$2,131,000
25-Year net savings with year 6 buyout	\$3,278,000
40-Year net savings with year 6 buyout	\$3,811,000

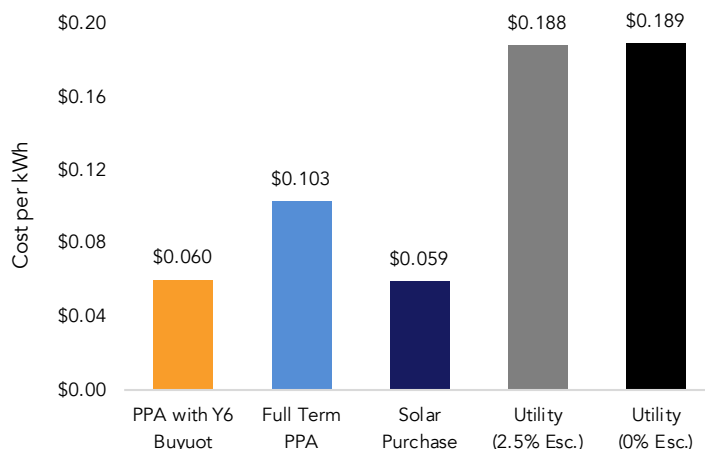
Environmental Benefits

Annual CO2e offset (lbs)	802,700
Equivalent to...	
Gallons of gasoline not burned	40,970
Passenger cars removed from the road	79
Pounds of coal not burned	401,167
Tons of waste recycled	124

Solar Savings vs. Utility



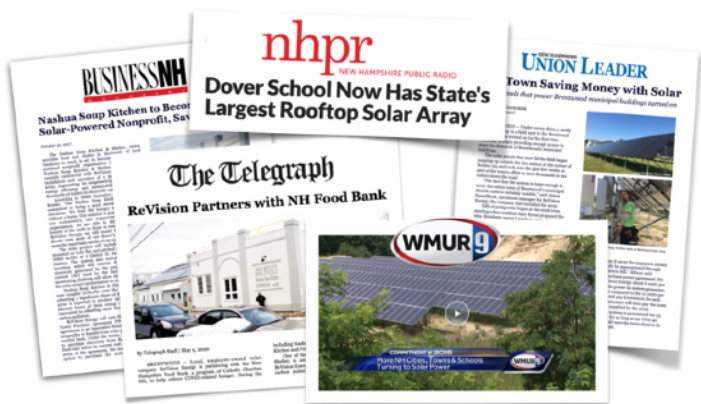
Levelized Cost of Energy





Partnership Offerings

Client & Community Engagement



Media Attention

We leverage our media connections, in-house copywriting staff and diligent use of social media to share your solar project with the world. Stories featuring our projects have appeared in *The New York Times*, *Boston Globe*, *US News*, and numerous print and broadcast outlets throughout the region.



Co-Branding Partnerships

We forge lasting partnerships with clients like Grandy Oats, Badger Balm, Throwback Brewery, and NH Children's Museum that feature client stories through videos, webinars, product promotion, sponsorships, and co-branding our dozens of company vehicles.



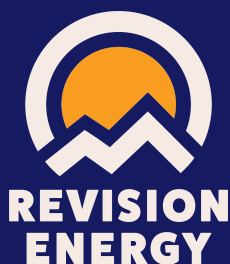
Client & Employee Engagement

We provide a range of tools for you to engage your own clients and employees in your sustainability journey, including electric vehicle chargers, custom websites, colorful or wood-engraved signage, real-time production monitors, and more.



Community Outreach

We plan solar ribbon cutting events for many of our clients with special guests like our US Senators, Mayors, and other public officials. We also willingly send our co-founders, electricians, engineers, and other solar professionals out to educate and engage your employees/stakeholders. When the community is engaged in your project, everybody benefits.



Project Next Steps

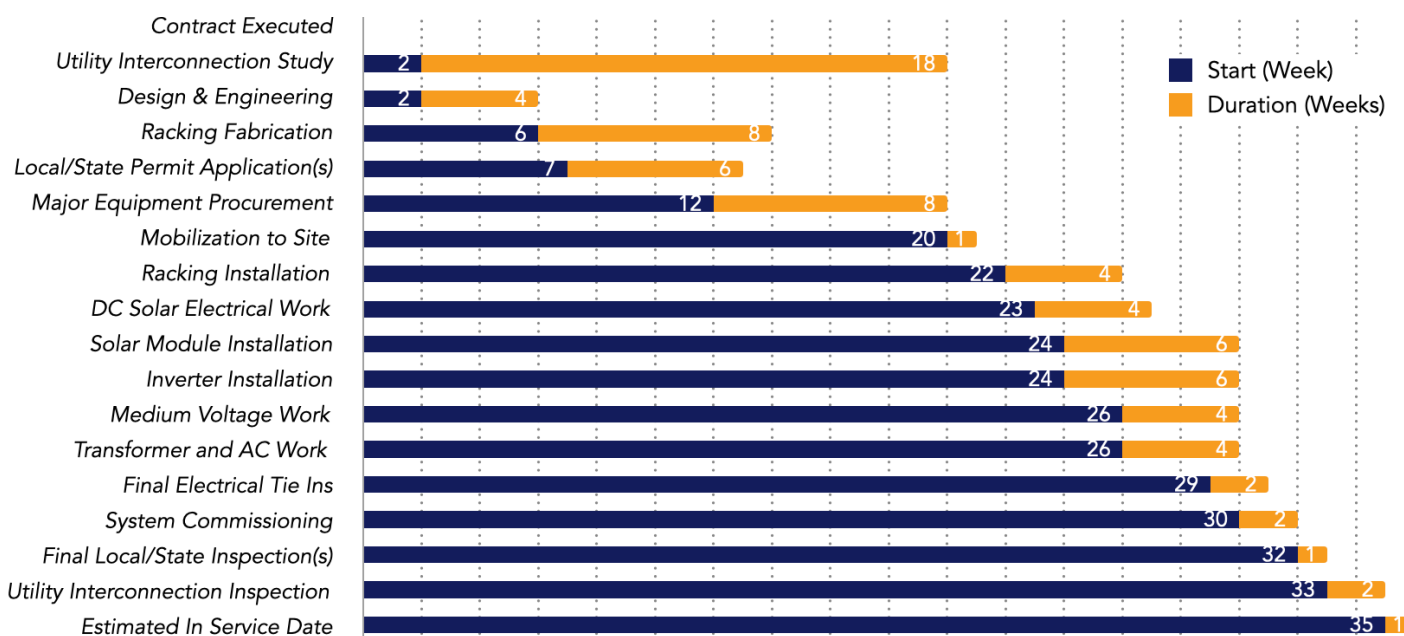
Full-Service Scope of Work & Timeline

Once you have completed your review of the solar proposal and are ready to move forward, ReVision Energy will provide the applicable Turnkey or PPA contract for your review. Upon contract execution, ReVision will initiate the following comprehensive scope of work according to the highest industry standards as your full-service solar contractor. If more than 30 days have elapsed since the proposal date, ReVision will review and, if necessary, update pricing based on current labor and equipment costs/availability prior to contract.

Scope of Work & Standards

1. Professional site review and final system design by ReVision Energy's in-house Engineering team
2. PE Stamp for structural engineering review as required by local or state officials (rooftop systems)
3. Completion of requisite local/state permitting applications with requisite PE stamps and securing of system approvals
4. Procurement of all materials necessary to mount and wire solar PV system, including disconnects, fusing, and metering
5. Completion of utility interconnection application(s) and utility system upgrades if necessary (estimated in contract)
6. Full PV system installation in compliance with federal, state and local construction codes and requirements using CEC-approved components, including UL 1703-listed PV modules and UL 1741-listed inverters
7. Interconnection of installed system to local distribution grid under applicable utility standards and procedures
8. Completion of Contractor's Commissioning Report to assure proper system functionality and performance
9. Transfer of all applicable manufacturer's warranties and product manuals for major system components to Owner
10. Training to operate and monitor PV system and review the measurement and allocation of energy credits by utility
11. Assistance with linking online monitoring system to Owner's website for production review and marketing purposes
12. Ongoing support and collaboration on marketing, service, and supplemental operations and maintenance if applicable

Sample Project Timeline





About ReVision

Mission, Background, and Values



Mission

We will lead our community in solving the environmental problems caused by fossil fuels while alleviating economic and social injustice.

Background

ReVision Energy is New England's leading solar design, installation, and service company. Our ~300 in-house solar professionals have completed over 10,000 solar, heat pump, EV charging, and battery installations in since 2003. ReVision is ranked #1 Rooftop Solar Installer in New England by *Solar Power World* magazine and Clean Energy Company of the Year by NECEC. We are 100% employee-owned and a certified B Corporation.

Core Values

1. **Humanity.** Treat everyone with respect and kindness to help build the better future we know is possible.
2. **Learning.** Educate everyone with the knowledge and skills to change the world; foster personal and professional growth in a cohesive, team-oriented atmosphere.
3. **Passion.** Aspire for excellence in everything we do because it advances our mission and sustains our employee-owned B Corp solar company.
4. **Communication.** Listen first, be honest, and deliver clarity to our colleagues and community.
5. **Stewardship.** We love being in nature with our families and friends and we are doing everything in our power to protect it.



Industry Recognition

Recent Honors and Associations



ReVision Energy Ranked #1 Solar Contractor in New England, #5 in U.S.

Solar Power World Magazine (2017-2020)



#1 Solar Company





ME Project Gallery

RFP Awards by ME Municipalities



City of Belfast

Public Works
883 kW (2018)



Town of Cumberland

Landfill
462 kW (2019)



City of South Portland

Landfill
1.02 MW (2017)



Town of Boothbay

Public Works
111 kW (2013)



Town of Camden

Offsite PPA
122 kW (2018)



Town of St. George

Transfer Station
67.5 (2018)



Town of Eliot

Landfill
132.5 kW (2018)



Town of Shapleigh

Salt & Sand Facility
68 kW (2017)



City of Portland

Landfill
954 kW (2018)



Town of Mt. Desert

Town Garage
76.5 kW (2018)



REVISION **SOLAR** IMPACT PARTNERS

Creating Positive Change Together

2018–2020 Impact Report



REVISION ENERGY

2018–2020 Impact

Together, we are reducing carbon pollution and strengthening our local schools, nonprofits and municipalities. The key to our approach is using a combination of tax equity investments and patient debt to overcome the financial hurdles faced by tax exempt organizations while delivering impact returns to investors and lenders.

With your partnership and financial support, we installed:



That’s equivalent to offsetting more than 1,600 homes’ entire energy use every year, and it brings clean, local energy to:



Read on to learn how impact investors are partnering with ReVision Energy to accelerate the clean energy transition while bringing economic and environmental sustainability to our most vital community institutions.

Nonprofits



Boys & Girls Club of Manchester, Camp Foster

Installing solar at zero up front cost, and delivering clean power cheaper than what the utilities can offer, gives our local nonprofits a helping hand in their work to support our communities and solve problems like hunger and homelessness. In reducing their operating costs and carbon footprint, frontline organizations like the Good Shepherd Food Bank use energy savings from their solar projects to defray the costs of the work they do, like delivering more than 50 million meals to hungry Mainers. The same is true for nonprofits like Crossroads House, Nashua Soup Kitchen, Saco Food Pantry and the Midcoast Hunger Prevention Program, to name just a few of the agencies benefiting from the work of ReVision Solar Impact Partners and its investors.

Project Name | Location

OF PANELS | ANNUAL CARBON OFFSET (LBS) | ARRAY SIZE (KW)

Boys & Girls Club of Manchester | Manchester, NH

Union St Headquarters

254 PANELS | 91,548 LBS | 81 KW

Boys & Girls Club of Manchester | Bedford, NH

Camp Foster

154 PANELS | 53,201 LBS | 49 KW



CLC YMCA



Capitol Center for the Arts | Concord, NH

Bank of NH Stage

131 PANELS | 46,604 LBS | 41 KW

Central Lincoln County YMCA | Damariscotta, ME

506 PANELS | 190,937 LBS | 164 KW

Downeast Community Partners

NONPROFITS



Dover Pool and Children's Museum



CrossWay Christian Church | Nashua, NH

186 PANELS | 67,527 LBS | 57 KW

Dover Pool & Children's Museum | Dover, NH

318 PANELS | 114,575 LBS | 101 KW

Downeast Community Partners | Franklin, ME

496 PANELS | 206,956 LBS | 171 KW

Federated Church of Marlborough | Marlborough, NH

70 PANELS | 24,198 LBS | 21 KW

Green Memorial AME Zion Church | Portland, ME

49 PANELS | 15,628 LBS | 14 KW

NONPROFIT SPOTLIGHT

Good Shepherd Food Bank

Hampden & Auburn, ME

703,800

lbs of carbon offset
every year

Good Shepherd Food Bank (GSFB) is the largest hunger relief organization in Maine, providing surplus and purchased food to more than 400 non-profit organizations throughout the state. Electricity from the Hampden and Auburn solar arrays will support GSFB's refrigeration for perishable items and reduce their carbon footprint.

1,659 PANELS | 717 MWH ANNUALLY | 600 KW (COMBINED)

"Solar energy was of interest for many reasons, the most notable of which is that long-term energy costs savings allow the Food Bank to invest more in its work to fight hunger in Maine. Additionally, studies show that the change on our climate disproportionately impacts low-income populations, so reducing the impact on our environment is also aligned with our mission."

– Kristen Miale, President



Keene Housing

Keene, NH

461,300

lbs of carbon offset
every year

Solar projects at Keene Housing's Harper Acres, Forest View, and North and Gilsum Street Apartments reduce the nonprofit affordable housing provider's electric bills, allowing them to share the savings with residents—with the added environmental benefits of generating clean electricity. The three arrays are expected to save Keene Housing almost \$3 million in electricity costs over the lifetime of the systems.

1,344 PANELS | 470 MWH ANNUALLY | 435 KW (COMBINED)

"We are very excited to take this next step towards reaching our goal of being 100% renewable by 2035. Thanks to our partnership with ReVision we're reducing our operating costs while significantly reducing our real estate portfolio's carbon footprint."

– Josh Meehan, Executive Director



Project Name | Location

OF PANELS | ANNUAL CARBON OFFSET (LBS) | ARRAY SIZE (KW)

Midcoast Conservancy | Edgecomb, ME

38 PANELS | 15,558 LBS | 12 KW

Monadnock Humane Society | Swanzey, NH

256 PANELS | 105,231 LBS | 89 KW



Wescustogo Hall

Midcoast Conservancy

Palace Theatre | Manchester, NH

236 PANELS | 92,752 LBS | 76 KW

Temple Beth Abraham | Nashua, NH

247 PANELS | 82,287 LBS | 77 KW

Unity Area Regional Recycling Center | Thorndike, ME

42 PANELS | 14,597 LBS | 12 KW

Wescustogo Hall | Yarmouth, ME

356 PANELS | 126,621 LBS | 110 KW



NONPROFITS

MacDowell Colony

Peterborough, NH

129,669

lbs of carbon offset
every year

In combination with their a solar array installed in 2016, the MacDowell Colony's recent installation now means the artist residency program generates about 10% more electrical power than the organization consumes over the course of a year on the 450-acre, 39-building property. This conversion to solar is part of MacDowell's long-term strategy to reduce carbon emissions and increase sustainability.

320 PANELS | 132 MWH ANNUALLY | 112 KW

“MacDowell’s path toward energy sustainability is being realized in overlapping stages: first, by preventing energy waste through insulation and weather-proofing; second, by adding photovoltaic arrays on site to generate renewable energy.”

– David Macy, Resident Director



NONPROFIT SPOTLIGHT

Mascoma Meadows

Lebanon, NH

173,153

lbs of carbon offset
every year

Mascoma Meadows is the first resident-owned community in NH to go solar, through a PPA agreement with the funding from a state grant and impact investors. The co-op of participating low-to-moderate income households expect to save approximately \$270 annually per household, thanks to the solar array.

384 PANELS | 176 MWH ANNUALLY | 132 KW

“The model developed for Mascoma Meadows, leveraging the cooperative structure and tax incentives, helps break some of the barriers to lower-income residents owning solar. The exciting part of this project is creating a model not just for New Hampshire resident-owned communities, but for ROCs across the country.”

- Christa Shute, Former Vermont Law School Energy Fellow for Climate Justice



Wolfe's Neck Center for Agriculture & the Environment

Freeport, ME

117,769

lbs of carbon offset
every year

Regenerative farming has the potential to be one of the most important climate solutions for humankind. Wolfe's Neck Center for Agriculture and the Environment is one step closer in their process in their goal of becoming 100% solar-powered. The nonprofit seeks to inspire participation in a healthier food system through soil research, regenerative farming, and community education.

310 PANELS | 120 MWH ANNUALLY | 98 KW (COMBINED)

"We are thrilled to be partnering with ReVision Energy to achieve our goal of becoming 100% solar powered by the end of 2022. This is a goal we've been working towards for several years and are so pleased to be more than 50% of the way there. Utilizing renewable energy sources here on farm is a value-driven move for us that also make sound financial sense."

- Dave Herring, Executive Director



Schools



Dover High School

To empower students to deal with the legacy of fossil fuel pollution, scarcity and geopolitical conflict that our generation will leave behind, we are installing solar at zero up front cost for schools and engaging with classrooms to provide kids with hope and inspiration. Our approach benefits schools, taxpayers and the wider community by reducing energy costs and carbon pollution, enabling our school systems to spend more of their perennially tight budgets on students and teachers. Some of our private school partners are using their energy savings to provide more scholarships for students who need them.

Project Name | Location

ARRAY SIZE (KW) | ANNUAL CARBON OFFSET (LBS) | # OF PANELS

Bristol Consolidated School | Pemaquid, ME

266 PANELS | 90,789 LBS | 81 KW

College of the Atlantic | Bar Harbor, ME

Center for Human Ecology

323 PANELS | 105,942 LBS | 103 KW

Bristol Consolidated School



Dartmouth College | Hanover, NH

Class of '53 Commons

131 PANELS | 49,898 LBS | 41 KW

Dana Hall

149 PANELS | 57,683 LBS | 57 KW

Fahey-McLane Building

198 PANELS | 80,126 LBS | 76 KW

Friends of Dartmouth Rowing

222 PANELS | 73,554 LBS | 71 KW

Indoor Practice Facility

1,844 PANELS | 610,497 LBS | 599 KW



College of the Atlantic

Project Name | Location

OF PANELS | ANNUAL CARBON OFFSET (LBS) | ARRAY SIZE (KW)

Dartmouth College | Hanover, NH

Kemeny-Haldeman Building

251 PANELS | 99,836 LBS | 80 KW

McLaughlin Cluster

417 PANELS | 158,919 LBS | 133 KW



Moore Hall

156 PANELS | 59,565 LBS | 49 KW

Russell Sage Building

56 PANELS | 21,703 LBS | 17 KW

Silsby Building

116 PANELS | 48,157 LBS | 35 KW

Sudikoff Building

132 PANELS | 52,341 LBS | 42 KW

Dartmouth College, McLaughlin Cluster



SCHOOLS

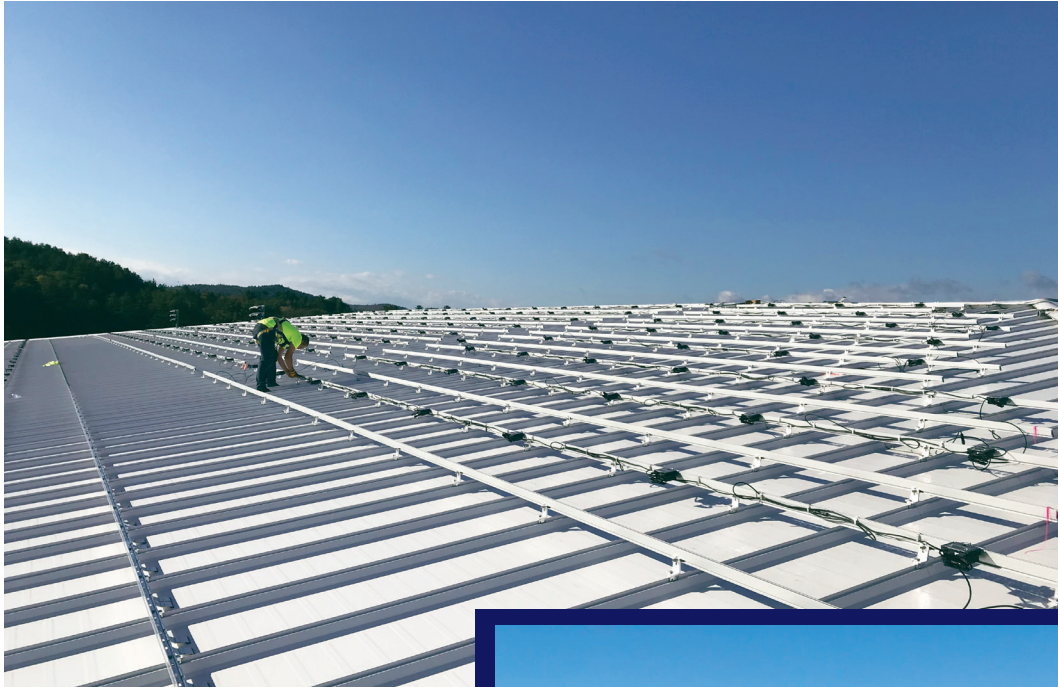
Sunsquatch is educating future generations about the climate crisis!

Dover High School | Dover, NH

2,851 PANELS | 1,035,279 LBS | 912 KW

Dr. Crisp Elementary School | Nashua, NH

534 PANELS | 222,877 LBS | 200 KW



*Dartmouth College,
Indoor Practice Facility*



Fairgrounds Middle School | Nashua, NH

1,760 PANELS | 744,698 LBS | 660 KW

Hollis Montessori School | Hollis, NH

175 PANELS | 68,093 LBS | 56 KW

Dr. Crisp Elementary School

Project Name | Location

OF PANELS | ANNUAL CARBON OFFSET (LBS) | ARRAY SIZE (KW)

Islesboro Central School | Islesboro, ME

176 PANELS | 79,082 LBS | 65 KW

Mt. Ararat High School | Topsham, ME

1,687 PANELS | 714,659 LBS | 632 KW

Proctor Academy | Andover, NH

Outdoor Center

182 PANELS | 64,537 LBS | 56 KW

Mt. Ararat High School



River Valley Charter School



River Valley Charter School | Newburyport, MA

359 PANELS | 130,913 LBS | 114 KW

The Derryfield School | Manchester, NH

Auditorium

105 PANELS | 34,709 LBS | 33 KW

Wellness Center

464 PANELS | 197,790 LBS | 171 KW

SCHOOLS

SCHOOL SPOTLIGHT

The Ecology School

Saco, ME

323,069

lbs of carbon offset
every year

To eliminate its own carbon footprint and teach kids about sustainability, The Ecology School is the first in the U.S. to meet the strict environmental stewardship standards of the *Living Building Challenge** by generating 105% of its annual energy demand with solar. Every year, The Ecology School delivers environmental education and training to 12,000 students from northern New England. The solar arrays on campus will help students understand how complementary clean technology, like battery storage, EV charging and zero-emission heating and cooling of the school's buildings, paired with solar can create a clean energy future.

712 PANELS | 329 MWH ANNUALLY | 257 KW (COMBINED)

"Solar was the obvious choice to generate our own clean electricity. In addition to the environmental benefits, the educational benefits of solar panels on site will provide thousands of program participants with the opportunity to see exactly how the system works. We're flipping the switch to a carbon neutral future, right now."

- Drew Dumsch, President & CEO



*www.living-future.org

Municipalities



Town of Chebeague

When we reduce energy costs and carbon

pollution from municipal operations, we are strengthening our communities and making them more resilient to withstand budget challenges and the unknown future impacts of climate damage. Now that solar electricity is more cost-effective than brown power from the utility grid, we are enabling municipalities to achieve energy independence, particularly when solar projects are combined with battery storage, heat pumps and electric vehicle charging stations. Everyone wins when costs paid by taxpayers go down, and carbon pollution declines.

Project Name | Location

ARRAY SIZE (KW) | ANNUAL CARBON OFFSET (LBS) | # OF PANELS

Caribou Utilities District-PV | Caribou, ME

2,756 PANELS | 1,024,007 LBS | 964 KW

City of Keene | Keene, NH

Public Works Department

2,010 PANELS | 724,742 LBS | 643 KW

City of Lebanon | Lebanon, NH

Dept of Public Works Admin Building

70 PANELS | 27,317 LBS | 21 KW

Dept of Public Works Garage

744 PANELS | 259,690 LBS | 230 KW

Kilton Library

330 PANELS | 104,328 LBS | 102 KW

Landfill Maintenance Building

168 PANELS | 60,808 LBS | 52 KW

City of Lebanon, Kilton Library



Landfill Recycling

317 PANELS | 100,530 LBS | 98 KW

Police Station

134 PANELS | 43,332 LBS | 41 KW

Waste Water Treatment Facility

688 PANELS | 272,608 LBS | 229 KW

City of Lebanon, Police Station

Project Name | Location

OF PANELS | ANNUAL CARBON OFFSET (LBS) | ARRAY SIZE (KW)

City of Nashua | Nashua, NH

Lake St Fire Station

413 PANELS | 131,572 LBS | 128 KW

Transit Garage

318 PANELS | 127,373 LBS | 111 KW

Conway Arena

1,296 PANELS | 402,442 LBS | 401 KW

City of Nashua, Lake St. Fire Station

City of Nashua, Transit Garage



City of Portland | Portland, ME

Sunfill North Landfill

2,816 PANELS | 1,220,830 LBS | 985 KW

East Kingston Public Library | East Kingston, NH

84 PANELS | 28,470 LBS | 26 KW

MUNICIPALITIES

MUNICIPAL SPOTLIGHT

Limestone Water and Sewer District

Limestone, ME

687,430

lbs of carbon offset
every year

A quasi-municipal entity, the Limestone Water and Sewer District serves upwards of 21,000 customers in Limestone County and surrounding areas in northeast Maine.

1,728 PANELS | 700 MWH ANNUALLY | 596 KW (COMBINED)

Installed in December of 2018, the array had already saved the Water and Sewer District more \$3,000 in electricity costs by March of 2019. Over the lifetime of the array, solar production is estimated to generate upwards of \$2 million in energy savings—savings that will also directly benefit Limestone County taxpayers.



Project Name | Location

OF PANELS | ANNUAL CARBON OFFSET (LBS) | ARRAY SIZE (KW)

Falmouth Memorial Library | Falmouth, ME

201 PANELS | 76,704 LBS | 65 KW

Kennebec Sanitary Treatment District | Waterville, ME

2,808 PANELS | 1,197,438 LBS | 968 KW

Newfields Village Water & Sewer District | Newfields, NH

216 PANELS | 91,174 LBS | 75 KW

Old Orchard Beach Chamber of Commerce | Old Orchard Beach, ME

67 PANELS | 26,234 LBS | 21 KW



Falmouth Memorial Library

Town of Bow | Bow, NH

575 PANELS | 202,835 LBS | 186 KW

Town of Bucksport | Bucksport, ME

258 PANELS | 85,004 LBS | 78 KW

Town of Chebeague | Chebeague Island, ME

180 PANELS | 77,739 LBS | 62 KW

Town of Cumberland | Cumberland, ME

1,248 PANELS | 620,474 LBS | 461 KW



Town of Cumberland

MUNICIPALITIES

Town of Deering | Deering, NH

162 PANELS | 56,077 LBS | 51 KW

Town of Eliot | Eliot, ME

384 PANELS | 167,892 LBS | 132 KW

Town of Gray | Gray, ME

960 PANELS | 475,995 LBS | 360 KW

Town of Hanover | Hanover, NH

Fire & Public Safety Complex

183 PANELS | 73,280 LBS | 66 KW

*Town of Hanover,
Fire & Public Safety Complex*

*Town of Hanover,
Water Department*



Salt Shed

162 PANELS | 54,690 LBS | 50 KW

Vehicle Storage

220 PANELS | 79,274 LBS | 68 KW

Water Department

1,872 PANELS | 837,441 LBS | 702 KW

Project Name | Location

OF PANELS | ANNUAL CARBON OFFSET (LBS) | ARRAY SIZE (KW)

Town of Hope | Hope, ME

120 PANELS | 53,602 LBS | 42 KW

Town of Islesboro | Islesboro, ME

Transfer Station

100 PANELS | 33,658 LBS | 32 KW

Town of Hope



Town of Windham

Town of Jackson | Jackson, NH

Highway Department

167 PANELS | 59,415 LBS | 53 KW

Town Office

41 PANELS | 15,831 LBS | 13 KW

Town of Madison | Madison, NH

180 PANELS | 79,186 LBS | 63 KW

Town of Windham | Windham, ME

1,344 PANELS | 671,879 LBS | 504 KW



MUNICIPALITIES

Special Small Business Partners



Our local small businesses are leading the

transition to a just, clean energy economy. With solar power, they are not only more resilient as businesses, they are improving the resilience of local energy grids, and bolstering local economies, providing jobs and products with greatly reduced carbon footprints. These businesses are taking the initiative to create the kind of sustainable world we imagine for our future. Impact investment helps them to make large strides that benefit us all, while maximizing their ability to grow their business and continue to support our communities.

SMALL BUSINESS SPOTLIGHT

Badger Balm

Gilsum, NH

590,800

lbs of carbon offset
every year

At the 2019 United Nations Climate Change Conference in Madrid, Badger Balm, along with over 500 leading Certified B Corporations, announced their commitment to accelerate the reduction of their greenhouse gas emissions to reach a 1.5 degree trajectory leading to net zero by the year 2030 – 20 years ahead of the 2050 targets set in the Paris Agreement. Two solar arrays at their manufacturing facility will help them achieve those goals.

1,384 PANELS | 602 MWH ANNUALLY | 486 KW (COMBINED)

“This is the first Badger manufacturing facility that we’ve built from the ground up. We envisioned that it would eventually be solar powered.”

– Rebecca Hamilton, Co-CEO



SMALL BUSINESS SPOTLIGHT

Sun Moon Farm

Rindge, NH

109,185

lbs of carbon offset
every year

Sun Moon Farm is a family farm with a commitment to stewardship, community and providing fresh, nutritious local vegetables, fruit, herbs and flowers to CSA members. All are grown with emphasis on ecologically-responsible practices, reducing waste and strengthening community. The farm also accepts SNAP food stamp benefits, as one part of their commitment to making their food accessible to as many families as possible.

250 PANELS | 111 MWH ANNUALLY | 90 KW

“Not only did the investment allow our farm business to change its energy source, but the intentionally visible array, and the stories that we can share, help our neighbors and customers to visualize the future that we all need to invest in.”

– Craig Jensen, Sun Moon Farm Family



Thank you

for investing in the communities we love.

WE ARE LOOKING FOR MORE INVESTORS!

As the clean energy transition gathers momentum, we are developing relationships with many more schools, nonprofits and municipalities that want to move away from fossil fuels and reduce their carbon footprint, but we need impact investors to help finance these solar projects.

Tax equity investor returns over the 5-year time horizon have been averaging 5% to 15%*, depending on individuals' specific tax situation and state incentives. We would love to connect with you regarding projects that need tax equity financing in 2021, 2022 and beyond.

Please contact Nicolas Warren, Director of Community Investments:

nwarren@revisionenergy.com

215.285.8132

<https://www.linkedin.com/in/nicolaswarren/>

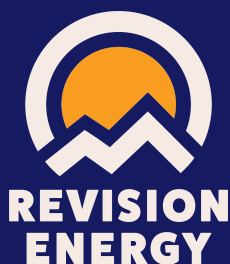
** Returns: Consistently reporting 5%-15% IRR over 5 years.*

Please note that returns vary individually depending on tax brackets, debt leverage, state energy prices, rebates, and individual circumstances that affect the unique investors' capitalization of credits and depreciation.



REVISION ENERGY

[ReVisionEnergy.com/SolarImpact](https://RevisionEnergy.com/SolarImpact)



Warranty & Maintenance

System Warranties and O&M Services

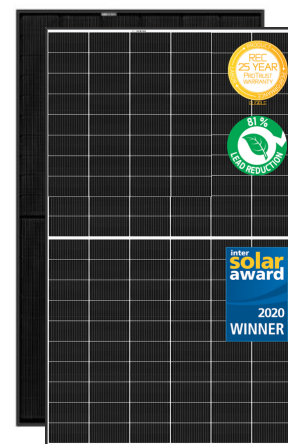
Workmanship Warranty (5 Years)

ReVision Energy warrants its workmanship supplied in connection with equipment purchased from and installed by ReVision. ReVision will repair, at no cost to the customer, equipment sold to the customer by ReVision in accordance with the terms of the equipment manufacturer's warranty. After 5 years, ReVision shall service warranties of manufacturers of equipment sold to the customer by ReVision but the customer shall be responsible to pay the cost of standard labor rates.



Manufacturer Warranties (5-25 Years)

Equipment	Manufacturers	Warranty	Lifespan
Solar Panels	REC, Jinko, QCells, LG	25 years	40+ years
Solar Inverters	SolarEdge, SMA, CPS	10-20 years	15-20 years
Racking Systems	RBI, IronRidge, PanelClaw	20-25 years	40+ years
Data Monitoring	SolarEdge, Locus, AlsoEnergy	5-10 years	15-25 years
Wiring	Standard AWG copper etc.	5-10 years	40+ years



Operations & Maintenance (O&M) Service

Service Item	Bronze	Silver	Gold	Platinum
Annual Mechanical Site Inspection	✓	✓	✓	✓
Annual Electrical Site Inspection	✓	✓	✓	✓
Annual Production Report	✓	✓	✓	✓
Guaranteed Response Time	✓	✓	✓	✓
Remote Troubleshooting	✓	✓	✓	✓
Thermal Imaging Inspection		✓	✓	✓
Alarm Monitoring			✓	✓
Unscheduled Site Visit				✓
Production Monitoring	Monthly	Monthly	Weekly	Daily
Flat Annual Fee	\$550	\$750	\$1,000	\$1,800
Per-kW Fee	\$4.00	\$4.50	\$6.00	\$7.50



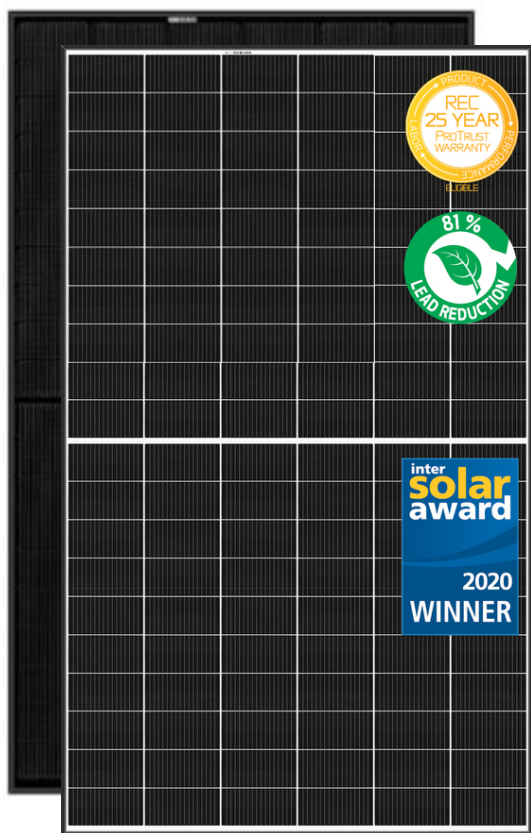


Solar PV Hardware

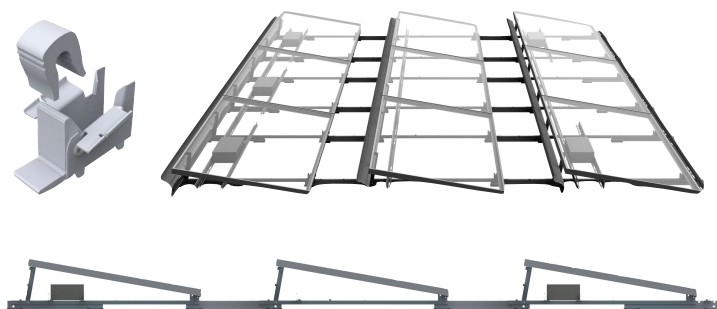
Flat Roof System Components



Solar Panels
330-445 watts (DC)
25-year warranty



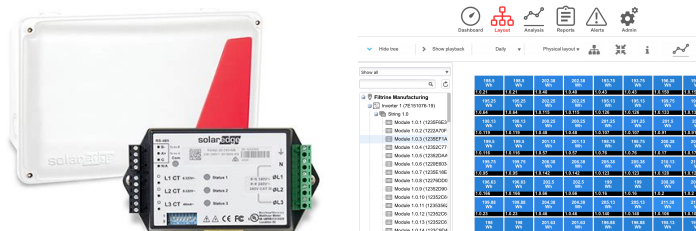
Racking System
25-year warranty



Inverters
14.4-100 kW (AC)
12-20 year warranty



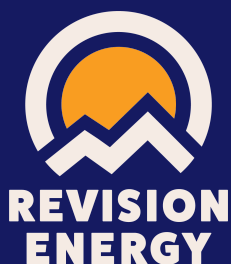
Meters/Monitoring
25 year warranty



Power Optimizers (AC)
25-year warranty



PV Installation
Professional



Solar PPA Basics

Power Purchase Agreements FAQ

What is a Solar PPA?

A Solar Power Purchase Agreement (PPA) is an innovative financial structure which eliminates the primary barrier to nonprofits, schools and municipalities going solar: access to upfront capital. Instead of requiring a capital investment, ReVision Energy pairs tax-exempt entities with mission-motivated solar investors who can take advantage of tax incentives to lower the cost of solar. The investor partner pays ReVision to install and maintain the array at the host's location and sells 100% of the solar generation to the host at below-market rates for a specified term up to 25 years.

Why should we choose a PPA?

Without the PPA structure nonprofits, schools, and municipalities cannot benefit from federal/state tax benefits due to their tax-exempt status. PPA benefits include:

- Zero upfront cost to install and use solar onsite
- Predictable cost of electricity over 25+ years
- No need to deal with complex design and permitting
- No ongoing operations/maintenance responsibilities
- Lower electricity rates from solar while maintaining 24-7 grid power and selling excess solar energy to the grid

Who finances ReVision's PPAs?

Since ReVision first brought solar PPAs to northern New England in 2010, we have engaged dozens of local, mission-aligned investors to finance over 200 PPA projects for nonprofits, schools, and municipalities. Our equity investors consist of families, businesses, retired individuals, and professional investors. They are joined by lender investors including the NH Community Loan Fund, Coastal Enterprises Institute and other mission-driven institutions. Although there are multiple players involved, ReVision serves as the host's sole contact throughout the process and is fully responsible for system design, engineering, procurement, construction, and ongoing operations/maintenance on behalf of our investor partners. Once the project is complete, we introduce the host to their investor.

How long is a standard PPA term?

PPA contracts are for 20-25 years and include the option of two five-year extensions at the end of the contract term, by mutual agreement of the host and investor. The host also has the option to buy the array early in order to own its power and maximize savings over the 40-year system life.

How soon can we own our solar array?

Beginning in year six after tax incentives have been applied, the host has the option to purchase the solar project from the owner at Fair Market Value (FMV). The future buyout cannot be set at a fixed price in the PPA contract under IRS rules and is set at the greater of FMV and a fixed pricing schedule. The annual buyout schedule calculates FMV according to the industry standard formula to give the host and investor predictability for planning purposes. Buying the array is always at the host's discretion.

What is the cost of an early buyout?

Fair market value (FMV) is the price that property would sell for on the open market as agreed to between a willing and informed buyer and seller. All factors affecting value are relevant and must be considered in FMV calculations, including the cost or selling price of the asset, sales of comparable assets, replacement cost, and opinions of experts. For solar, investors and hosts use the income method for determining FMV of a solar project, meaning that FMV is estimated as a calculation of projected future revenue streams expected from the solar project, as shown in the PPA buyout schedule. For more information, see IRS Publication 5612 or www.seia.org/research-resources/valuation-solar-generation-assets

Are we responsible for maintenance?

During the term of the PPA, ReVision's investor partner is responsible for all operations and maintenance (O&M), which it contracts with ReVision to complete. Once the PPA

host obtains ownership of the solar project, it becomes responsible for any future O&M. For ground-mounted solar arrays, the host typically continues basic vegetation management to avoid shading the array. Solar arrays contain no moving parts and require minimal maintenance throughout their 25-year warranty period and 40-year commercial lifespan. The cost of an optional O&M contract to maximize long-term performance and financial benefits is included in ReVision's PPA proposal and cash-flow model.

How does billing work?

The investor partner will monitor solar production and bill the host for the kWh generated on a quarterly basis (with the option of monthly or annual billing). The host purchases all solar generation at the "Point of Delivery" where the solar generation enters the host's existing electrical service. Depending on the host's real-time electricity needs, solar generation will either be used instantly onsite or delivered to the grid via the existing utility interconnection and credited to the host via NEB/net metering. The host will continue receiving monthly statements from the utility showing electricity purchases and solar generation credits.

How does net metering work?

By signing the PPA, the host agrees to purchase 100% of solar generation at the point where the solar equipment connects to the host's electrical service. As the interconnecting customer, the host holds the NEB/net metering contract with the utility. Electricity generated by the solar project and purchased by the host will first go to serve onsite load. Should solar generation exceed on-site load, excess generation will be net metered by the utility and credited to the host account under the applicable state rules. Net metering varies by state and utility territory; PPA proposals contain conservative estimates of NEB/net metering benefits according to host location and situation.

Who owns the RECs in a PPA?

Renewable Energy Credits (RECs) automatically accrue to the owner of the solar project. Although the investor partner owns the RECs during the PPA term, the host may negotiate the purchase of RECs generated by the solar project from the investor. If the host chooses to exercise its buyout option, all rights to RECs transfer to the host along with full ownership rights and equipment warranties.

Do we need special insurance coverage?

During the term of the PPA, the investor partner is responsible for property and general liability (GL insurance). The PPA host will be asked to add the solar project as a rider to its existing GL coverage, typically at no additional cost to the PPA host. If and when the host chooses to buy the array, it will be responsible for property insurance.

What happens if our solar goes offline?

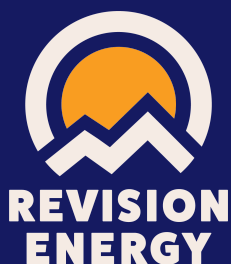
The investor partner and ReVision monitor system generation online and promptly identify if the system experiences any downtime or performance issues. If an issue arises, ReVision's Service Division conducts the necessary service to return the system to full operation as quickly as possible. Since the investor partner can only bill the host for solar power delivered, it has a strong incentive to maintain the system in peak condition. The host maintains its grid connection to ensure continuous power.

What if the array under produces?

ReVision's production estimates are engineered using industry leading solar generation estimating tools and our in-house Engineering team has mapped data from operating systems around the region to arrive at highly accurate projections of future generation. There will be yearly variation within the range of +/-10% based on weather. Because the PPA is an agreement that the host purchase all power generated by the solar project, under production in any year will only result in the host purchasing less power from the solar project and more power from the utility, generally offset by overproduction in a subsequent year, and over the life of the PPA contract, there will be negligible economic impact. There is an added cost if the host requires a performance guarantee, available at the industry standard of 90% of estimated production. Because solar arrays have minimal O&M, the likelihood of significant downtime is extremely low and performance guarantees are not typically worth paying for in solar PPA projects.

What happens at the end of the PPA?

If, at the end of the contract term, the host and investor choose not to renew the PPA, the host may choose to purchase the solar array at FMV or have the investor remove it from their property at the investor's expense.



Solar Project Portfolio

Selected Municipal & Nonprofit Arrays

<i>Solar Projects</i>	<i>Location</i>	<i>Capacity (DC)</i>	<i>Utility</i>	<i>Installation</i>	<i>Year</i>
Town of Skowhegan, ME	ME	3.9 MW	CMP	Ground	2020
City of Nashua, NH (portfolio)	NH	2.3 MW	Eversource	Rooftops (5)	2019-21
City of Keene, NH (portfolio)	NH	2.2 MW	Eversource	Ground + Roof	2018-21
Town of Hanover, NH (portfolio)	NH	2.0 MW	Liberty	Ground	2019-21
City of Portland/S Portland Landfills	ME	2.0 MW	CMP	Ground	2017-18
Dartmouth College Campus (portfolio)	NH	1.5 MW	Liberty	Rooftops (20+)	2017-20
MRRA - Brunswick Landing	ME	1.5 MW	CMP	Ground	2017-18
City of Dover, NH (High School, Pool)	NH	1.0 MW	Eversource	Rooftops (3)	2018-19
Town of North Conway WWTF	NH	1.0 MW	Eversource	Ground	2020-21
Town of Kennebec WWTF	ME	1.0 MW	CMP	Ground	2018
Caribou Utilities District WWTF	ME	1.0 MW	CMP	Ground	2019
City of Belfast Public Works	ME	1.0 MW	CMP	Ground	2018
Town of Freeport WWTF	ME	928 kW	CMP	Ground	2019
City of Lebanon, NH (portfolio)	NH	836 kW	Liberty	Ground + Roofs	2019
Town of Hooksett WWTF	NH	786 kW	Eversource	Ground	2020-21
Town of Durham Portfolio	NH	771 kW	Eversource	Ground + Roofs	2014-17
City of Concord WWTF	NH	720 kW	Unitil	Ground	2020-21
Mt. Ararat High School	ME	633 kW	CMP	Rooftop	2020
Town of Limestone WWTF	ME	596 kW	CMP	Ground	2018
Phillips Exeter Academy Field House	NH	535 kW	Liberty	Rooftop	2017
Town of Windham	ME	503 kW	CMP	Ground	2019
Proctor Academy Campus Portfolio	NH	485 kW	NHEC	Ground + Roofs	2015-19
Town of Cumberland	ME	462 kW	CMP	Ground	2019
Town of Gray	ME	360 kW	CMP	Ground	2019
Inter-Lakes High School	NH	346 kW	NHEC	Ground	2015
Hebron Academy Athletic Center	ME	267 kW	CMP	Rooftop	2016
Village District of Eastman	NH	260 kW	Liberty	Ground	2015-16
The Ecology School	ME	257 kW	CMP	Rooftop	2019
The MacDowell Colony	NH	240 kW	Eversource	Ground	2016-19
Franklin Pierce University	NH	237 kW	Eversource	Rooftop	2020-21
Derryfield School	NH	192 kW	Eversource	Rooftop	2019
Town of Bow Public Works	NH	187 kW	Eversource	Rooftop	2019
City of Claremont WWTF	NH	151 kW	Liberty	Ground	2020

Renewable Energy Credits (RECs)

A REC is a certificate representing the environmental benefits from one megawatt-hour (1,000 kilowatt-hours) of electricity produced from a renewable resource like sunlight. RECs are not tied to the physical energy produced by the system, meaning they can be 'unbundled' and sold to an entity that is not necessarily using the electricity that produced them.

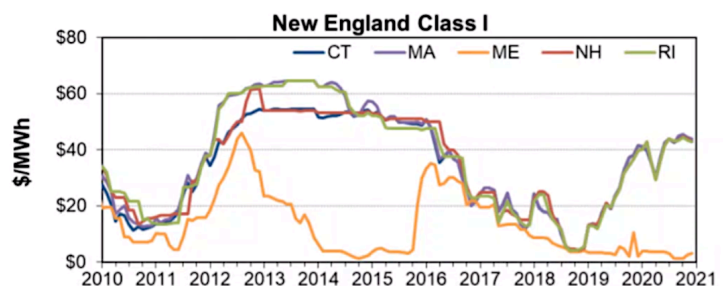
How Does the REC Market Work?

RECs were conceptualized about a decade ago as a way to keep track of the amount of renewable energy being generated within any region of the country. Generally, there are two types of REC markets: (1) voluntary and (2) compliance. The voluntary market is comprised of participants that have no legal obligation to procure renewable energy or reduce carbon emissions; they are typically entities such as businesses, universities, or individuals that are mission-driven to promote the environment and the development of renewable energy. Compliance markets were born with the creation of state Renewable Portfolio Standards (RPS), laws that mandated that electricity retailers source a certain percentage of their electricity from renewable resources. Compliance market RECs are the states' way of tracking whether the electric retailers are indeed procuring the amount of renewable energy mandated by their Legislatures as meeting their RPS standards.

How much are RECs worth?

REC prices can be highly volatile, as they are subject to changes in RPS laws, as well as supply and demand fundamentals. Prices range widely depending on the state market and if they can be used for compliance purposes. In the voluntary market there is no legally obligated 'demand.'

Instead, buyers enter the market at their own free will. The supply is typically provided by renewable energy projects located in areas that don't allow the projects to qualify to generate more valuable compliance market RECs. However, you do not have to have a legal obligation to be able to buy RECs that qualify for compliance purposes, but they are typically more expensive than voluntary-only RECs.



In the compliance markets, REC prices depend on each State's regulatory requirements and on supply and demand. Like any traded good, prices change frequently. Most programs have what are called Alternative Compliance Payments (ACPs). ACPs act as the price ceiling, as those with compliance obligations can pay the ACP in lieu of purchasing RECs on the open market (however, the ACP is typically considerably above the market price).

Will all generation from my system count towards the creation of RECs?

Yes, although the initial registration and approval process can take several months, so the first quarter's worth of generation may not count for RECs. Projects may be registered at any time on a rolling basis, but historical generation will not count for RECs prior to registration.

Are all solar energy systems eligible to create RECs?

Yes. In order to create and sell RECs, a solar array must have a revenue grade meter (RGM), which ReVision automatically installs with most solar projects today, and an active internet connection to automatically report data to the REC banking entity, NEPOOL-GIS.

As the system owner, what do I need to do to ensure my system generates RECs?

Solar owners should maintain their internet connection and periodically monitor system production. Extended internet outages may cause the loss of data for RECs. Due to the sheer volume of systems installed, it isn't feasible for ReVision to keep watch on all the systems in the field. We ask that you please keep an eye to make sure your internet remains connected. We see the most internet connectivity issues arise due to changes in internet service providers, changes to your wifi password, or the installation of new internet hardware. We also encourage solar owners to track their solar generation at least monthly and give ReVision a call if you have any service-related issues. We will be more than happy to help troubleshoot and remedy the problem. We also provide comprehensive operations and maintenance (O&M) services, which include remote monitoring, annual onsite inspections, and preventive maintenance for customers wishing to ensure maximum system performance with little or no downtime over the 25-year solar panel warranty period.

RECs & Environmental Claims

Since REC programs are legislatively designed to reduce carbon pollution through the deployment of clean energy, ReVision encourages customers looking for the most affordable path to solar ownership to take advantage of REC sales for added revenue. Most commercial solar owners opt to sell their RECs for this reason. In so doing, they also sell the right to make any claim about the "green" status of their solar generation, even though they are typically consuming the generated electricity onsite. In the interest of accuracy and transparency, customers selling their RECs should therefore disclose in all public communications that they are delivering solar electricity and RECs to the utility. Since a typical ReVision cashflow assumes 10 years of REC sales, customers can be confident that for most of the system life they will be able to own and claim all environmental benefits without compromising their financial performance. For detailed guidance on making environmental claims when selling RECs, please see www.epa.gov/greenpower/solar-power-use-claims.

For more information, please call your local ReVision branch or email recs@revisionenergy.com

State's largest rooftop solar array in Londonderry

By Ryan Lessard
October 15, 2020

LONDONDERRY — A beverage distribution company showcased what will be the largest rooftop solar array in the state during a small Oktoberfest-themed celebration with local dignitaries Wednesday.

Construction of a new, 142,000-square-foot distribution center for Bellavance Beverage Company is nearing completion at its Pettengill Road location in Londonderry. About 115,000 square feet of roof will be covered by 3,088 panels when the installations are complete, according to company owner Joe Bellavance.

This will make it the largest rooftop solar array in the state, according to Daniel Weeks with ReVision Energy, the New England-based solar company contracted to install the array.

The previous largest rooftop array was at Dover High School, based on panel count, and at Worthen Industries in Nashua based on kilowatt capacity, Weeks said. Bellavance is bigger on both counts.

"This one settles the debate, so to speak," Weeks said.

The 1.16 megawatt array is big enough to cover more than all of the building's energy needs over the course of the year. It's projected to generate over 1.3 million kilowatt hours of clean energy annually, which is enough to offset 1.4 million pounds of carbon dioxide emissions, according to ReVision.

Bellavance wasn't sure if the building was going to have solar panels when he began planning the new facility. Speaking before the Londonderry Heritage Commission in May 2019, he said it was a possibility but still being discussed.

Bellavance said Wednesday he made the decision by the end of last year not only to install solar but to "upsized" it to maximize their energy production.

"Initially we wanted to look at it and just be able to cover our annual operating needs. Our electrical operating needs," Bellavance said.

Instead, they maximized the roof area and added extra solar panels so they could generate more than what they thought they needed to cover the business energy use.

"If we can provide a little extra green energy to the grid and help New Hampshire with some of its carbon reduction and renewable energy goals, that would be nice too," Bellavance said.

Bellavance declined to comment on how much the building or the array cost to construct.

Weeks said the price of the technology has declined about 70% over the past decade. The price for a large-scale rooftop array is now well below \$2 per watt, he said.

In New Hampshire, large projects like these can pay for themselves over the course of five to seven years, Weeks said.

Weeks called the largest rooftop array an "important milestone" for the company and the state at the Oktoberfest celebration, which was attended by state Sens. Sharon Carson, Lou D'Allesandro and Kevin Cavanaugh, state Rep. Doug Thomas, Manchester Mayor Joyce Craig and Londonderry Town Manager Kevin Smith.



Craig spoke at the event, saying she hopes the solar array serves as an example for other New Hampshire businesses to follow. Representatives from the offices of Sens. Jeanne Shaheen and Maggie Hassan and Congressman Chris Pappas also attended and shared messages of congratulations from the delegates.

Visitors were given a chance to see the rooftop solar panels by taking turns on a hydraulic lift overlooking the single-story, high-bay warehouse.

Bellavance expects to finish construction in mid-December and move into the building by mid-January. He plans to consolidate all operations at the Londonderry facility and close the company's existing operations in Hooksett and Nashua.

"We'll be running approximately 30 routes a day out of the warehouse and inbound loads are probably between 15 and 20," Bellavance said.

In the past three years, the company has grown by acquisition, he said. He acquired distribution territory in the Greater Manchester area, excluding Manchester proper, from Great State Beverage in 2016, and territory in the Keene area and Upper Valley from Clark Distributors in 2017. In doing so, the company grew from 30 communities to about 100, and doubled the number of employees to about 150.

The company's portfolio added non-alcoholic brands such as Snapple and Sparkling Ice, and distributes beer from nine local breweries, including Anheuser Busch in Merrimack.

Bellavance said the company is looking to hire more drivers and delivery assistance workers.

Savings exceed projections for Brentwood solar

By Kathleen D. Bailey
April 19, 2020

When Jane Byrne first drove past the solar panels next to the Brentwood Fire Station, her reaction was, “Oh, what have I done?” The sight of the 300-plus panels in a formerly open field disconcerted the longtime Brentwood resident. But Byrne readily admits that the sight of the panels grew on her, especially when she saw the savings realized on her and others’ tax bills.

Byrne, a former member of the Select Board, was part of a committee creating a proposal for the town to invest in solar. Though the warrant article failed the first time it went before voters, committee members tweaked and tuned it, and the article passed the following year.

Byrne, also a member of the Conservation Commission, became interested in solar for municipalities after doing extensive reading. She was already familiar with the concept because Highland Hardwoods, a longtime Brentwood business, was sharing its own excess solar energy with the town. She brought the idea to the Select Board in 2015, and the board approved forming a commission. Town Administrator Karen Clement attended meetings as the “eyes and ears” of the Select Board, Byrne said.

The committee included Byrne, Emily Schmaltzer, Malcolm Allison and Rob Wolfchuck. Wolfchuck was a “numbers guy” and Allison had an engineering background, she recalled, so their expertise was crucial. The committee interviewed five companies. “We got a warrant article together but it failed on the floor of the 2016 Town Meeting,” she said. But the Budget Committee suggested the Solar Committee do more study, and they studied more.

“Rob and Malcolm dug in and proved to themselves that yes, it would work,” Byrne said.

Brentwood holds the traditional Town Meeting on a Saturday in March, in which all money articles are discussed and voted on from the floor. The solar array was brought forth again in March 2017 with the backing of the Select Board, library trustees, conservation, fire department and building inspector.

At that time, the 99-kilowatt system was projected to generate roughly 100 percent of the energy needed to provide power to the municipal buildings.

The town had two options: to buy the system outright with a 20-year bond, or to lease it and purchase it in year seven. The estimated 20-year savings on the outright purchase were \$238,765 (20 years) and \$941,014 (40 years).

The savings on the lease/ purchase were estimated at \$301,738 (20 years) and \$1,003,987 (40 years).

The town contracted with ReVision Energy, down the road on Route 125, and the panels were installed and a ribbon cut in 2017.

The solar array now provides electricity for all town buildings, including the Town Office Building, Recreation Building, Mary E. Bartlett Library, Highway Shed, Historical Society/ Grange Hall and Fire Station. The Swasey School is under its own form of government, Byrne added.



The panels are on a lease-purchase agreement, Byrne said, and the town has the option to buy them back after seven years. The town currently puts a sum away every Town Meeting in its capital Reserve Fund for Solar Array.

Has it worked? Yes and yes, according to Wolfchuck. Wolfchuck wrote in an email, “The system is producing 10% more electricity than projected which has resulted in greater than projected savings. We estimated savings of \$6,000 per year and after the first two full years, we have saved \$16,600.”

Dan Weeks, director of market development for ReVision Energy, isn’t surprised. Though he wasn’t directly involved with the Brentwood project, he often drives by the array since ReVision is located in Brentwood. While solar is a win for private homeowners, it’s a win-win for municipalities, who save on both direct costs for energy and costs to the taxpayer.

“Electricity is a meaningful part of any town budget,” Weeks said, “and it’s one over which they have very little control.” But with solar, he added, there’s a high degree of predictability and therefore control.

While the outright purchase option is available, Weeks said the majority of his municipal clients opt for the Power Purchase Agreement, or PPA, as Brentwood did.

“The upfront cost could be seven figures,” Weeks said.

It makes more sense for a town to take the PPA, in which an investor subsidizes them. “With the PPA they partner with investors,” he said. The rate of return is lower than what the investor could make in the market, but they know they’re doing good. The town or city will partner with the investor for five years, after which the town can buy the solar array at a discounted rate, he said.

ReVision has done approximately 130 PPA-built systems in New Hampshire and Maine, he said, including nonprofit organizations, school districts and towns.

For towns, they’ve helped more than a dozen in NH, including Durham, Lebanon and Hanover, and more than a dozen in Maine. This summer they’re doing their largest yet: 3,000 panels to benefit two Nashua schools. Last fall they completed three Gate City projects, totaling 2,000 panels.

“We have 250 employees and we aim to keep them working,” he said.

Solar Power World

Case Study: ReVision Energy installs largest rooftop solar array at New Hampshire school



By Billy Ludt • *Solar Power World*
April 1, 2020

Dover High School & Career Technical Center was a building 10 years in the making. Its doors opened for the first time to 1,476 students for the 2018-2019 school year after a decade of navigating proposals, planning, permitting, board review and construction. The final touch on the prolonged project was a yet-to-be-installed rooftop solar system.

During the first official school year in the new school, students saw equipment hoisted to the rooftop, where installers were setting up 2,851 solar panels that

would account for 40% of the building's electricity needs.

ReVision Energy developed and designed the 912-kW solar array occupying the rooftop of Dover High School and Dover Regional Career Technical Center in Dover, New Hampshire. The Northeast solar company subcontracted Ayer Electric, whose headquarters is just 20 minutes west of Dover, for construction of the system. Both Ayer and ReVision have employees who graduated from the school district, taught there or have children currently enrolled.

"We live in these communities. We feel a connection to many of the projects we do personally around the

state and that was very much true of Dover,” said Dan Weeks, director of market development at ReVision Energy.

The former Dover High School was built in the 1960s and was in dire need of repairs. The city determined it was more cost-effective to rebuild rather than renovate, so a new 100,000-sq.-ft larger school was designed and equipped with modern necessities like energy-efficient lighting, air conditioning and dehumidifiers. Nothing could be installed on the school’s rooftop until after the general contractor completed construction of the building and placement of the new HVAC system. Prior to even breaking ground on the new school, ReVision used GPS coordinates, drone imaging and building blueprints to design a solar system for a building that didn’t exist yet.

“Unfortunately, nobody ever thinks about putting solar on the roof,” said Marc Wiemer, project manager at Ayer Electric.

But in the case of the new Dover High School, it was designed to support the weight of a ballasted solar array, and the electrical infrastructure of the building was ready for connection to solar. The roof itself posed some navigational challenges for the installers, since the building varies between a two- and three-story height, and the building footprint is square, with an open-air courtyard in the center.

Solar construction began in January 2019, just as students were entering their second semester. Cranes had to be brought in during off-hours, weekends and holidays to lift equipment to the rooftop to leave school bus routes uninterrupted. Components were dropped off in four segments and staged from there, because structurally the rooftop couldn’t handle the entire project load at a single point. Ayer’s installers used a Garlock Equipment power jack to safely, and as quietly as possible, move components across level sections of the rooftop.

The solar system uses REC 320-W N-Peak panels, seven SolarEdge 100K 3-phase inverters, Ecolibrium Solar’s EcoFoot2 flat roof ballast racking and a Locus L Gate 360 monitoring system.

“All the students were in place. They had buses coming in and out, trying to get deliveries. There’s a road going all the way around, so that means the entire perimeter of the school is being used at all times,” Wiemer said. “Now, we also have a construction project going on during classes, so not only that, we’re trying to make sure that noise and interruptions to the school are at the absolute minimum.”

Since the system would use ballast, crews did not want to void the warranty of the Sika membrane. So, slip sheets of the same Sika material had to be purchased and laid underneath every ballast foot for



extra layering for the weighted mounting solution to qualify for the warranty.

In addition to the extra precautions, crews had to navigate subzero temperatures and heavy snowfall that delayed installation until March.

"We did get a fair amount of snow, which we had to work around or let it melt," Weeks said. "Definitely below freezing temperatures, which is something our crews deal with throughout winter, so this was no exception. They had some weather to deal with, but they soldiered through."

The system officially came online in September 2019.

When the City of Dover initially requested plans for a solar array on the school in 2018, it asked for a more modest 400-kW design.

"We wanted to provide what they were looking for in the form of a 400-kW design, but also just felt that there was a really good opportunity based on our understanding of net metering to max out that roof," ReVision's Weeks said. "We knew that it was designed to accommodate solar across the entire structure, and so we included a full-sized design at 912-kW, which they ultimately went with."

New Hampshire net metering caps off at 1,000 kW for commercial customers and 100 kW for smaller, residential systems. The original vision for the array didn't include any export of electricity, but schools have fluctuating energy needs throughout the year, where the facilities wouldn't be used as much during summer months.

"We [requested] a baseline system that had been suggested by a consultant that we had brought on previously. The concern was the lack of net metering in this state and some of the regulatory impediments that the state has put in place," said Chris Parker, assistant city manager. "So, ReVision, when they bid on it, said we could do the smaller system, but they said the larger system would still meet the regulatory framework but also provide a much better opportunity. That's why we went with the larger array."

Before any solar could be installed, plans had to be approved by both the school board and city council. Both the school and the city had a say in the permitting because it was a school district-owned building residing on public land.

"New Hampshire is not the only state this way, but we're a bit famous as the 'Live Free or Die' state, for our local system approach, where you've got a lot of different entities claiming at least partial jurisdiction over projects of this nature," Weeks said.

The high school array was financed through a power purchase agreement with the city, and after 10 years of operation, Dover has the option to buy the solar system.

"The community in general has been looking at ways to implement solar options on municipal buildings and looking at ways to be more mindful of our

environment and our impacts on the environment," Parker said.

Weeks said that a small experienced labor pool has slowed ReVision's growth but installing solar systems for settings like technical schools, where electrical training is offered, might encourage students to seek a career in solar.

A school official said the array isn't implemented into any official curriculum at Dover High School yet, but it has been part of conversations on subjects of climate issues and local government, and the school's Eco Club participated in the array's ribbon-cutting ceremony back in September.

Pictures of Dover High School's rooftop solar system are featured in the building's main lobby alongside how much power it's producing.

"Early solar was done for rich people and environmentalists," Weeks said. "God bless them for being early adopters, but we really wanted to move beyond that, and particularly make solar accessible to public sectors and nonprofits. We also felt we could, over time, develop a market and provide to the local school."

Read online at SolarPowerWorldOnline.com:

<https://www.solarpowerworldonline.com/2020/04/live-free-of-fossil-fuels-or-die-trying-a-new-hampshire-solar-case-study/>



The Telegraph

ReVision Partners with NH Food Bank



By Telegraph Staff | May 9, 2020

BRENTWOOD – Local, employee-owned solar company ReVision Energy is partnering with the New Hampshire Food Bank, a program of Catholic Charities NH, to help relieve COVID-related hunger. During the month of May, ReVision Energy will provide at least 3,500 meals to Granite Staters through the NH Food Bank as an extension of its past work to bring cost-saving solar energy to soup kitchens, homeless shelters and low-income housing throughout New Hampshire.

“We’re grateful to be able to join the many businesses and individuals in our community who are stepping up to help neighbors in need,” said Dan Weeks, director of market development for ReVision Energy. “Our 275 employee-owners envision a clean environment and a just society for all, which means feeding hungry people while growing the clean energy economy through solar energy, batteries, EV chargers, heat pumps and other technologies.”

As a special incentive to customers, ReVision Energy is donating 100 additional meals for every residential contract and 500 additional meals for every commercial contract signed in May, to help keep its employee-owners and union partners on the job as “essential workers” during the worst unemployment crisis since the Great Depression.

“We are grateful to ReVision Energy for recognizing the need here in New Hampshire and taking action to support us during such a critical time,” said Eileen Liponis, executive director of the NH Food Bank. “We receive no federal or state funding for food distribution and rely on the generosity of businesses like ReVision Energy to ensure we can provide food to those in need.”

The NH Food Bank is facing unprecedented demand during the pandemic, with requests up 44% compared to this time last year. ReVision Energy employee-owners regularly volunteer at the Food Bank’s member agencies,

including Nashua Soup Kitchen & Shelter, Claremont Soup Kitchen and Friends of Mascoma Food Bank.

One of the largest agencies, Nashua Soup Kitchen & Shelter, is using solar power installed and financed by ReVision Energy at no interest to reduce energy costs and carbon pollution. Nashua Soup Kitchen & Shelter is expected to save roughly \$175,000 over the life of the solar array. ReVision Energy also is installing solar this month for Claremont Soup Kitchen and Food Bank, helping them reduce their utility bills and carbon footprint. ReVision Energy also has installed and financed dozens of solar arrays for public and low-income housing across the state and donated a solar array to the Cross Roads House shelter in Portsmouth.

With this new donation plan in place for May, signing a contract with ReVision Energy will help relieve COVID-related hunger while stimulating the local economy and protecting the environment.

ReVision Energy is a local, employee-owned company on a mission to accelerate New England’s clean energy transition from fossil fuels to solar energy. As a Certified B Corporation, ReVision is part of a global movement using business as a force for good to solve social and environmental challenges. ReVision Energy has completed more than 8,000 solar installations since its founding in 2003, and operates five branches across Maine, New Hampshire and Massachusetts.

The NH Food Bank, a program of Catholic Charities NH, has been working to relieve hunger in the Granite State since 1984. The NH Food Bank receives no federal or state funding for food distribution.

In 2019, as the state’s only Food Bank, the NH Food Bank efficiently procured and distributed more than 14.2 million pounds of food to people in need through more than 425 nonprofit registered agencies.

For more information about the NH Food Bank, visit www.nhfoodbank.org.

CLIENTPOINT DOWNLOAD RECEIPT

DOWNLOADED: 01-21-2022

CLIENTPOINT ID: 636109

STATE CALCULATION FOR FUNDING PUBLIC EDUCATION (PreK-12) REPORT

ORG ID : 65

Biddeford Public Schools

2022 - 2023

Section 1: Computation of EPS Rates

A) Attending Counts:

	PreK-K		1-5		6-8		PreK-8		9-12		Total
1) Attending Pupils (October 2020)	240.0	+	874.0	+	493.0	=	1,607.0	+	735.0	=	2,342.0
2) Attending Pupils (October 2021)	279.0	+	824.0	+	508.0	=	1,611.0	+	735.0	=	2,346.0
3) Attending Pupils Average	259.5	+	849.0	+	500.5	=	1,609.0	+	735.0	=	2,344.0
							68.64 %		31.36 %		100.00 %

Section : 1

Average Student Count

B) Staff Positions

	PreK-K EPS FTE	Student to Staff	+	1-5 EPS FTE	Student to Staff	+	6-8 EPS FTE	Student to Staff	+	9-12 EPS FTE	Student to Staff	=	EPS FTE Total	÷	Actual FTE Total	=	% Of EPS	x	SAU Data in EPS Matrix	=	Adjusted EPS Salary	=	Elementary Salary	Secondary Salary
1) Teachers	17.30	(15: 1)	+	53.06	(16:1)	+	31.28	(16:1)	+	45.94	(16:1)	=	147.58	÷	156.4	=	0.94	x	8,809,511	=	8,312,743	=	5,706,144	2,606,599
2) Guidance	0.74	(350: 1)	+	2.43	(350:1)	+	1.43	(350:1)	+	2.94	(250:1)	=	7.54	÷	7.0	=	1.08	x	368,304	=	396,564	=	272,215	124,349
3) Librarians	0.32	(800: 1)	+	1.06	(800:1)	+	0.63	(800:1)	+	0.92	(800:1)	=	2.93	÷	2.0	=	1.47	x	136,604	=	200,126	=	137,373	62,753
4) Health	0.32	(800: 1)	+	1.06	(800:1)	+	0.63	(800:1)	+	0.92	(800:1)	=	2.93	÷	5.0	=	0.59	x	290,940	=	170,491	=	117,031	53,460
5) Education Techs	2.28	(114: 1)	+	7.45	(114:1)	+	1.60	(312:1)	+	2.33	(316:1)	=	13.65	÷	22.5	=	0.61	x	490,274	=	297,518	=	204,226	93,292
6) Library Techs	0.52	(500: 1)	+	1.70	(500:1)	+	1.00	(500:1)	+	1.47	(500:1)	=	4.69	÷	4.0	=	1.17	x	87,230	=	102,234	=	70,177	32,057
7) Clerical	1.30	(200: 1)	+	4.25	(200:1)	+	2.50	(200:1)	+	3.68	(200:1)	=	11.72	÷	8.9	=	1.32	x	319,097	=	420,203	=	288,441	131,762
8) School Admin.	0.85	(305: 1)	+	2.78	(305:1)	+	1.64	(305:1)	+	2.33	(315:1)	=	7.61	÷	6.3	=	1.21	x	608,923	=	735,421	=	504,818	230,603

Staff EPS Ratios

C) Computation of Benefits:

	Percentage		Elementary Salary		Secondary Salary		Elementary Benefits	Secondary Benefits
1) Teachers, Guidance, Librarians & Health	19.00%	X	6,232,763		2,847,161	=	1,184,225	540,961
2) Education & Library Technicians	36.00%	X	274,403		125,349	=	98,785	45,126
3) Clerical	29.00%	X	288,441		131,762	=	83,648	38,211
4) School Administrators	14.00%	X	504,818		230,603	=	70,675	32,284

D) Other Support Per-Pupil Costs:

	PreK-8	9-12		Elementary Students		Secondary Students		Elementary Support	Secondary Support
1) Substitute Teachers (1/2 Day)	47	47	X	1,609.0		735.0	=	75,623	34,545
2) Supplies and Equipment	405	560	X	1,609.0		735.0	=	651,645	411,600
3) Professional Development	69	69	X	1,609.0		735.0	=	111,021	50,715
4) Instructional Leadership Support	33	33	X	1,609.0		735.0	=	53,097	24,255
5) Co- and Extra-Curricular Student	44	134	X	1,609.0		735.0	=	70,796	98,490
6) System Administration/Support	135	135	X	1,609.0		735.0	=	217,215	99,225
7) Operations & Maintenance	1186	1408	X	1,609.0		735.0	=	1,908,274	1,034,880

E) Other Adjustments:

1) Regional Adjustment for Staff & Substitute Salaries	Regional Index = 1.09							663,844	303,248
--	-----------------------	--	--	--	--	--	--	---------	---------

Section 1: Totals

Divided by Attending Pupils:

Regional Adjustment Index

÷ 1,609.0 735.0

Calculated EPS Rates Per Pupil:

= 7,762 8,229

Preliminary FY 2022-2023 Governor's Supplemental Budget - Adjustments may be made to these printouts throughout FY 23

EPS Student Rate

STATE CALCULATION FOR FUNDING PUBLIC EDUCATION (PreK-12) REPORT

ORG ID : 65

Biddeford Public Schools

2022 - 2023

Section 2: Operating Cost Allocations

Section : 2

A) Subsidizable Pupils (Includes Superintendent Transfers)

		4YO/PreK	K-8	9-12	Total	
1)	October 2020	60.0 +	1,543.0 +	732.0 =	2,335.0	Subsidizable Pupil Count
2)	October 2021 (may include 4YO/PreK estimates)	72.0 +	1,536.0 +	724.0 =	2,332.0	
3)	Subsidizable Pupils Average	66.0 +	1,539.5 +	728.0 =	2,333.5	

B) Basic Counts

		Average Pupils		SAU EPS Rates from Page 1	Basic Cost Allocations
1)	4YO/PreK Pupils (Most Recent Oct Only)	72.0	X	7,762 =	558,864.00
2)	K-8 Pupils	1,539.5	X	7,762 =	11,949,599.00
3)	9-12 Pupils	728.0	X	8,229 =	5,990,712.00
4)	Adult Education Courses at .1	2.1	X	8,229 =	17,280.90
5)	4YO/PreK Equiv. Instruction Pupils (Most Recent Oct Only)	0.000	X	7,762 =	0.00
6)	K-8 Equiv. Instruction Pupils	0.375	X	7,762 =	2,910.75
7)	9-12 Equiv. Instruction Pupils	0.125	X	8,229 =	1,028.63

Disadvantaged Rate

EPS
Weights/
Students

C) Weighted Counts

(Most Recent Oct Only)

		Pupils	EPS Weights		SAU EPS Rates from Page 1	Weighted Cost Allocations
1)	4YO/PreK Disadvantaged @ 0.5748	41.4	X	0.20	7,762 =	64,269.36
2)	K-8 Disadvantaged @ 0.5748	884.9	X	0.20	7,762 =	1,373,718.76
3)	9-12 Disadvantaged @ 0.5748	418.5	X	0.20	8,229 =	688,767.30
4)	4YO/PreK English Learners	9.0	X	0.500	7,762 =	34,929.00
5)	K-8 English Learners	135.0	X	0.500	7,762 =	523,935.00
6)	9-12 English Learners	49.0	X	0.500	8,229 =	201,610.50

D) Targeted Funds

		Pupils	EPS Weights		EPS Targeted Amount	Targeted Cost Allocations
1)	4YO/PreK Student Assessment (Most Recent Oct Only)	72.0	X		53.00 =	3,816.00
2)	K-8 Student Assessment	1,539.5	X		53.00 =	81,593.50
3)	9-12 Student Assessment	728.0	X		53.00 =	38,584.00
4)	4YO/PreK Technology Resources (Most Recent Oct Only)	72.0	X		115.00 =	8,280.00
5)	K-8 Technology Resources	1,539.5	X		115.00 =	177,042.50
6)	9-12 Technology Resources	728.0	X		345.00 =	251,160.00
7)	4YO/PreK Pupils (Most Recent Oct Only)	72.0	X	0.10	7,762 =	55,886.40
8)	K-2 Pupils	555.0	X	0.10	7,762 =	430,791.00
9)	4YO/PreK Disadvantaged Targeted (Most Recent Oct Only)	41.4	X	0.05	7,762 =	16,067.34
10)	K-8 Disadvantaged Targeted	884.9	X	0.05	7,762 =	343,429.69
11)	9-12 Disadvantaged Targeted	418.5	X	0.05	8,229 =	172,191.83

E) Isolated Small School Adjustment

1)	PreK-8 Isolated Small School Adjustment	=	0.00
2)	9-12 Isolated Small School Adjustment	=	0.00

Section 2: Operating Allocation Totals

22,986,467.46

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Operating Allocation

STATE CALCULATION FOR FUNDING PUBLIC EDUCATION (PreK-12) REPORT

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Biddeford Public Schools

2022 - 2023

Section 3: Other Allocations

Section : 3

A) Other Subsidizable Costs

		Base Year Expenditure		Inflation Adjustment		
1)	Gifted & Talented Expenditures from 2020 - 2021	178,695.90	X	101.50%	=	181,376.34
2)	Special Education - EPS Allocation		X		=	5,375,714.22
3)	Special Education - High-Cost Out-of-District Allocation		X		=	0.00
4)	Transportation Operating - EPS Allocation		X		=	1,291,717.72
5)	Approved Bus Allocation (Purchase Year FY 22 or earlier)		X		=	166,766.80
Total Other Subsidizable Costs					=	7,015,575.08
						<u>755,356.32</u>

B) Teacher Retirement Amount (Normalized Cost)

Total Adjusted Operating Allocation (Page2) plus Total other Subsidizable Costs plus Teacher Retirement = 30,757,398.86

C) Debt Service Allocations

1)	Town / District	Payment Date	Name of Project	Principal		Interest		Total
	BIDDEFORD	11/01/2022	NEW MIDDLE SCHOOL	899,661.00	+	48,387.47	=	948,048.47
		05/01/2023	NEW MIDDLE SCHOOL	0.00	+	30,615.48	=	30,615.48
2)	Total Debt Service Principal & Interest Payments			899,661.00		79,002.95		978,663.95
3)	Approved Lease for 2021 - 22		Biddeford Public Schools					0.00
4)	Approved Lease Purchase for 2021 - 22 for		Biddeford Public Schools					0.00
Total Debt Service Allocation						=	978,663.95	

Section 3 : Total Combined Allocations (Page 2 Adjusted Total plus Other Subsidizable plus Debt Service)

= 31,736,062.81

Preliminary FY 2022-2023 Governor's Supplemental Budget - Adjustments may be made to these printouts throughout FY 23

Combine Operating and other subsidizable costs

STATE CALCULATION FOR FUNDING PUBLIC EDUCATION (PreK-12) REPORT

ORG ID : 65

Biddeford Public Schools

2022 - 2023

Section 4 : Calculation of Required Local Contribution - Mil Expectation

Section : 4

A) Subsidizable Pupils (Excludes Superintendent Transfers for SADs, RSUs & CSDs) by Member Municipality

Member Municipality	Average Subsidizable Pupils	Percentage of Total Pupils	Oper., Othr Sub, & Tchr. Ret. Allocation Distribution	Municipal Debt Allocation Distribution	Total Municipal Allocation Distribution as a Percentage of Pupils
Biddeford Public Schools	2339.5	100.00%	30,757,398.86	978,663.95	31,736,062.81
Total	2,339.5	100.00%	30,757,398.86	978,663.95	31,736,062.81

B) State Valuation by Member Municipality

Member Municipality	3-Yr Average or Previous Yr State Valuation	Mil Expectation	Total Municipal Allocation Distribution per Valuation x Mil Expectation
Biddeford Public Schools	2,642,466,667	7.10	18,761,513.34
Total	2,642,466,667		18,761,513.34

C) Required Local Contribution = the lesser of the previous two calculations :

Member Municipality	Total Allocation by Municipality	Required Local Contribution by Municipality	Calculated Mil Rate	State Contribution by Municipality (Prior to adjustments)
Biddeford Public Schools	31,736,062.81	18,761,513.34	7.10	12,974,549.47
Total	31,736,062.81	18,761,513.34		12,974,549.47

Preliminary FY 2022-2023 Governor's Supplemental Budget - Adjustments may be made to these printouts throughout FY 23

State Subsidy PreK-12

STATE CALCULATION FOR FUNDING PUBLIC EDUCATION (PreK-12) REPORT

ORG ID : 65

Biddeford Public Schools

2022 - 2023

Section 5: Totals and Adjustments

Section : 5

	Total Allocation	Local Contribution	State Contribution
A) Total Allocation, Local Contribution, and State Contribution Prior to Adjustment	31,736,062.81	18,761,513.34	12,974,549.47
Totals after adjustment to Local and State Contributions	31,736,062.81	18,761,513.34	12,974,549.47
B) Other Adjustments to State Contribution Only			
1) Plus Audit Adjustments			0.00
2) Less Audit Adjustments			0.00
3) Less Adjustment for Unappropriated Local Contribution			0.00
4) Less Adjustment for Unallocated Balance in Excess of 3%			0.00
5) Special Education Budgetary Hardship Adjustment			0.00
6) Career & Technical Education Center Allocation	Vocational Subsidy		3,016,642.87
7) Plus Long-Term Drug Treatment Centers Adjustment			0.00
8) Education Service Center Member Allocation	Regional Service Center Subsidy		89,656.51
9) Minimum Teacher's Salary Adjustment			0.00
10) Less MaineCare Seed - Private			0.00
11) Less MaineCare Seed - Public			0.00

C) Adjusted State Contribution	16,080,848.85
Local and State Percentages Prior to Adjustments :	Local Share % = 59.12 % State Share % = 40.88 %
Local and State Percentages After Adjustments :	Local Share % = 59.12 % State Share % = 40.88 %
FYI : 100% EPS Allocation	31,736,062.81

State Share vs Local Share

Section F: Adjusted Local Contribution by Town

***** WARRANT ARTICLE *****

Member Municipality	Total Allocation	Adjusted Local Contribution	Adjusted Percentage	Adjusted Mil Rate
Biddeford Public Schools	31,736,062.81	18,761,513.34	100.00%	7.10
Totals	31,736,062.81	18,761,513.34	100.00%	

Preliminary FY 2022-2023 Governor's Supplemental Budget - Adjustments may be made to these printouts throughout FY 23

STATE CALCULATION FOR FUNDING PUBLIC EDUCATION (PreK-12) REPORT

ORG ID : 65

Biddeford Public Schools

2022 - 2023

Section 6: SCHEDULED PAYMENTS & YEAR TO DATE PAYMENTS

Section : 6

MONTH	SUBSIDY	PAID TO DATE	DEBT SERVICE	PAID TO DATE
July	1,258,515.41	0.00	0.00	0.00
August	1,258,515.41	0.00	0.00	0.00
September	1,258,515.41	0.00	0.00	0.00
October	1,258,515.41	0.00	0.00	0.00
November	1,258,515.41	0.00	948,048.47	0.00
December	1,258,515.41	0.00	0.00	0.00
January	1,258,515.41	0.00	0.00	0.00
February	1,258,515.41	0.00	0.00	0.00
March	1,258,515.41	0.00	0.00	0.00
April	1,258,515.41	0.00	0.00	0.00
May	1,258,515.41	0.00	30,615.48	0.00
June	1,258,515.39	0.00	0.00	0.00
TOTAL	15,102,184.90	0.00	978,663.95	0.00

Preliminary FY 2022-2023 Governor’s Supplemental Budget - Adjustments may be made to these printouts throughout FY 23

MEMO

TO: Jeremy Ray, Superintendent
FROM: Mandy Cyr, Director of Instruction
CC: Chris Indorf, Assistant Superintendent
RE: Class Size Memo
DATE: November 17, 2021

As a response to the COVID-19 pandemic, Biddeford School Department reconfigured grade placement in our buildings allowing students to remain in school while adhering to the guidance from the CDC and Maine Department of Education. Our internship program, in collaboration with our postsecondary partners, has been a success and has helped us space students and drastically reduce elementary class sizes.

The attached documents are based on anticipated enrollments for the 2022 - 2023 school year.

Full Internship Program with 2 Additional Teachers Funded with ESSER III

- 8 Resident Intern Positions
- Additional teacher - grade 3 and grade 4
- K-4 class sizes remain 16 - 17

No Interns with 2 Additional Teachers Funded with ESSER III

- Additional teacher - grade 2 and grade 4
- Class Sizes
 - K 17/18
 - 1 17/18
 - 2 16/17
 - 3 18/19
 - 4 17/18

No Interns or Extra Teacher Positions

- Class Sizes
 - K 17/18
 - 1 17/18
 - 2 18/19
 - 3 18/19
 - 4 19

est. 1848

No Interns or Extra Teacher Positions																		
Pre-K		Grade K			Grade 1			Grade 2			Grade 3			Grade 4				
Teacher	Class Size	90	Teacher	Class Size	190	Teacher	Class Size	206	Teacher	Class Size	169	Teacher	Class Size	182	Teacher	Class Size	171	
Teacher 1 AM	13	☐	Teacher 1		17	☐	Teacher 1	18	☐	Teacher 1	19	☐	Teacher 1	18	☐	Teacher 1	19	☐
Teacher 1 PM	13	☐	Teacher 2		17	☐	Teacher 2	18	☐	Teacher 2	19	☐	Teacher 2	18	☐	Teacher 2	19	☐
Support Staff		☐	Teacher 3		17	☐	Teacher 3	17	☐	Teacher 3	19	☐	Teacher 3	18	☐	Teacher 3	19	☐
			Teacher 4		17	☐	Teacher 4	17	☐	Teacher 4	0	☐	Teacher 4	18	☐	Teacher 4	19	☐
Teacher 2 AM	13	☐	Teacher 5		17	☐	Teacher 5	17	☐	Teacher 5	19	☐	Teacher 5	18	☐	Teacher 5	19	☐
Teacher 2 PM	13	☐	Teacher 6		17	☐	Teacher 6	17	☐	Teacher 6	19	☐	Teacher 6	19	☐	Teacher 6	19	☐
Support Staff		☐	Teacher 7		17	☐	Teacher 7	17	☐	Teacher 7	19	☐	Teacher 7	18	☐	Teacher 7	19	☐
			Teacher 8		17	☐	Teacher 8	17	☐	Teacher 8	19	☐	Teacher 8	18	☐	Teacher 8	19	☐
			Teacher 9		18	☐	Teacher 9	17	☐	Teacher 9	18	☐	Teacher 9	18	☐	Teacher 9	19	☐
Teacher 3 AM	13	☐	Teacher 10		18	☐	Teacher 10	17	☐	Teacher 10	18	☐	Teacher 10	19	☐			☐
Teacher 3 PM	13	☐	Teacher 11		18	☐	Teacher 11	17	☐					☐				
Support Staff		☐					Teacher 12	17	☐									
Headstart 1	13	☐																
Headstart 2	13	☐																
# of Rooms	8		# of Rooms	11		# of Rooms	12		# of Rooms	10		# of Rooms	10		# of Rooms	9		
Review by Princ.	☒		Review by Princ.	☒		Review by Princ.	☐		Review by Princ.	☐		Review by Princ.	☒		Review by Princ.	☒		
Teacher Ratio			Teacher Ratio	33/00		Teacher Ratio	17/1000/6057		Teacher Ratio	18/777/7778		Teacher Ratio	18/1		Teacher Ratio	18/90		



Faculty/Staff Survey Summary

The Future of the BMS

CENTRAL QUESTION

Given:

The changing demographics of our community;

That BHS is currently a 8-12 school, BMS is a 5-7 school, BIS is a 3-4 school;

That the future of the JFK school, in need of more than \$10,000,000 of infrastructure investment, is uncertain

That the arc of the pandemic remains uncertain;

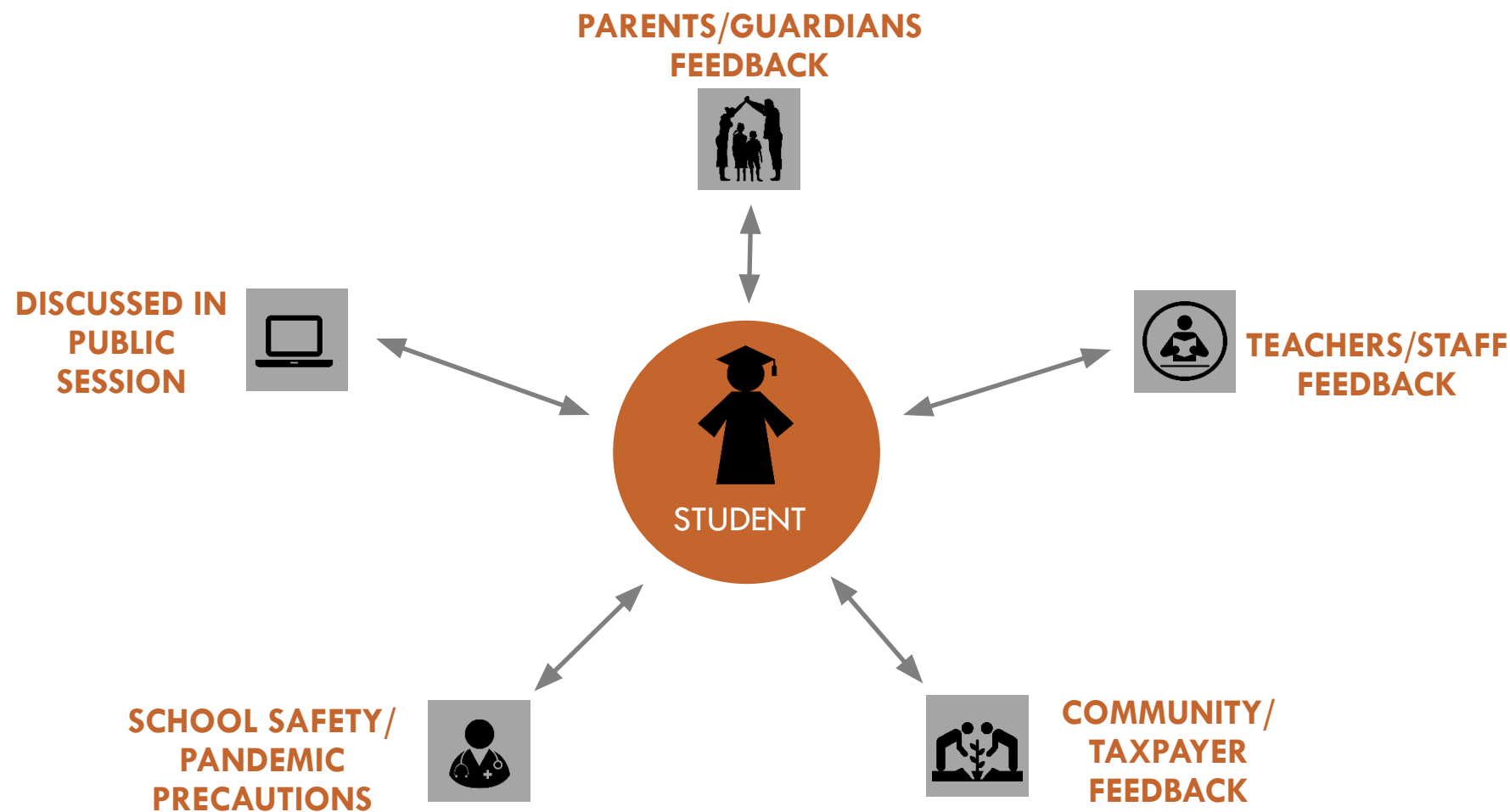
The question before the school committee is how to best populate buildings to:

- Maximize program opportunities for students;
- Run effectively and efficiently;
- Maximize opportunities for collaboration;
- Operate safely.

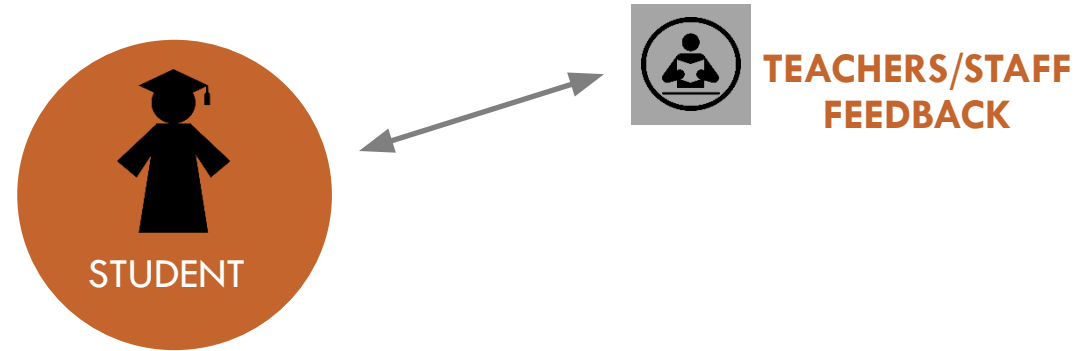
In sum, there are three options on the table at this hour:

1. Keep the 8th grade at BHS, utilizing federal funds to provide a private wing and expand CTE offerings
2. Return 8th grade to BMS, and utilize federal funds to build a wing to create a grades 5-8 BMS to maintain smaller class sizes, the REE program, and to be prepared for future distancing requirements
3. Status quo ante.

STAKEHOLDER FEEDBACK



STAKEHOLDER FEEDBACK



SURVEY INSTRUMENT

Director of Instruction Mandy Cyr distributed an electronic survey via email to faculty and staff. It was written by her and Assistant Superintendent Indorf.

Feedback from Superintendent, HS and 8th Grade Assistant Principal during development.

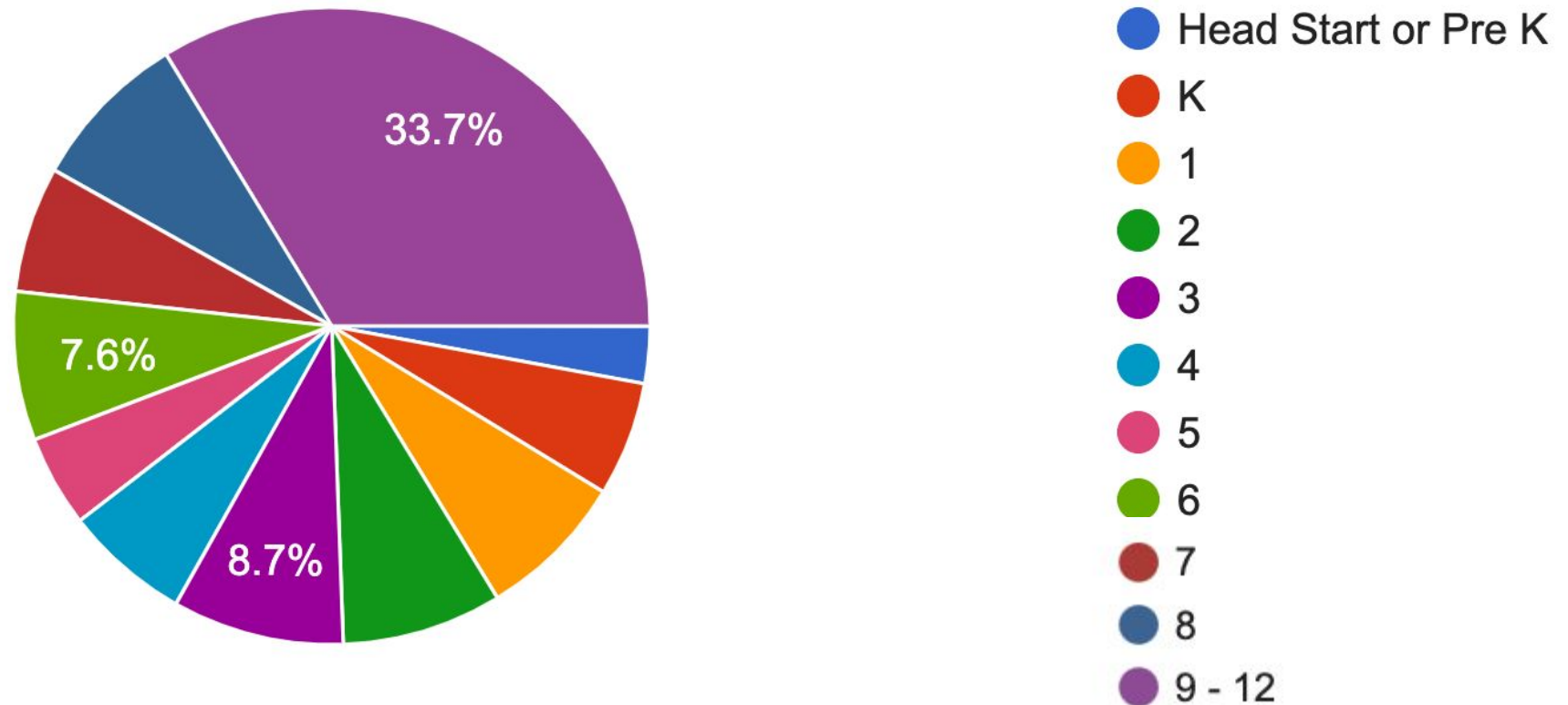
Response rate adequate for validity.

- **174 total responses** from faculty and staff, representing all grade levels and schools
- This is the third survey, following **mixed results from parents** (the most evenly split), **students** (overall, slightly more in favor of keeping the 8th grade at the Maplewood campus), and was **the most definitive**.
- Today is the fourth opportunity for the public to join in providing feedback on this important program and infrastructure consideration.

SURVEY RESULTS - *Demographics*

What grade do you teach?

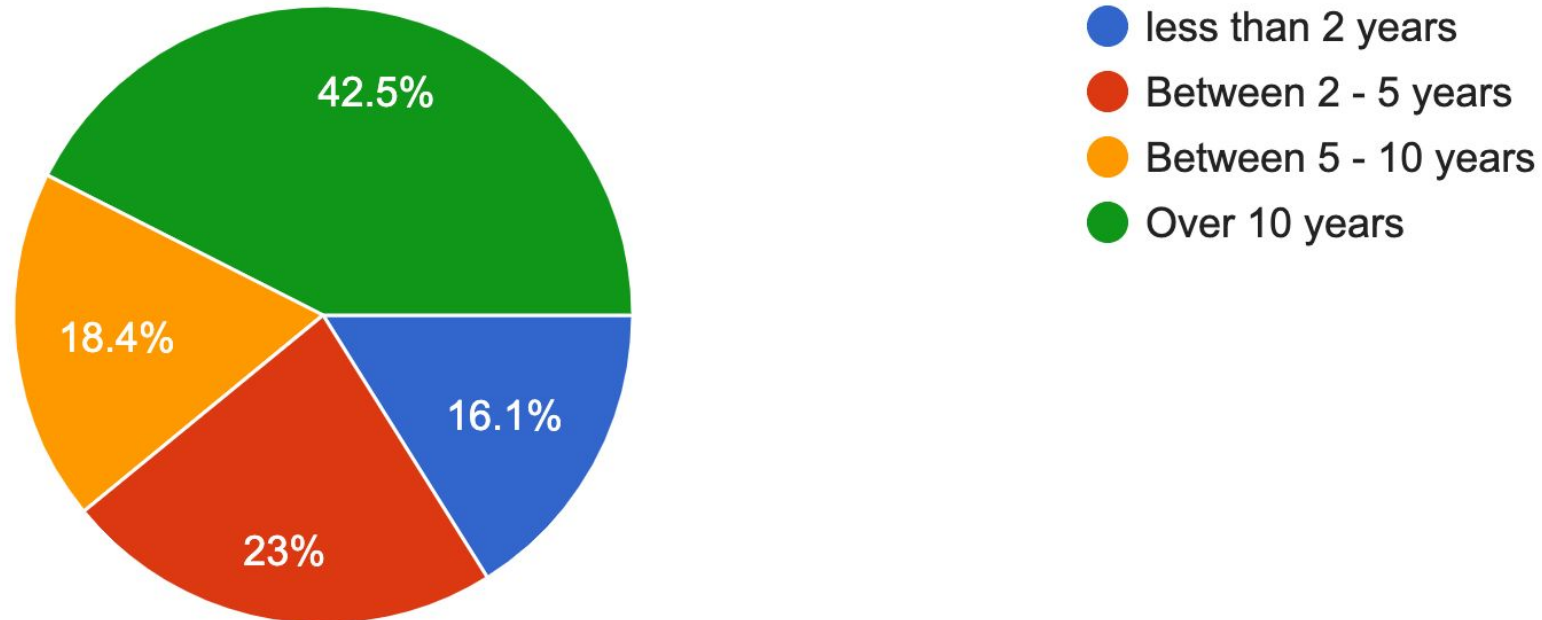
172 responses



SURVEY RESULTS - *Demographics*

How many years have you been teaching in Biddeford?

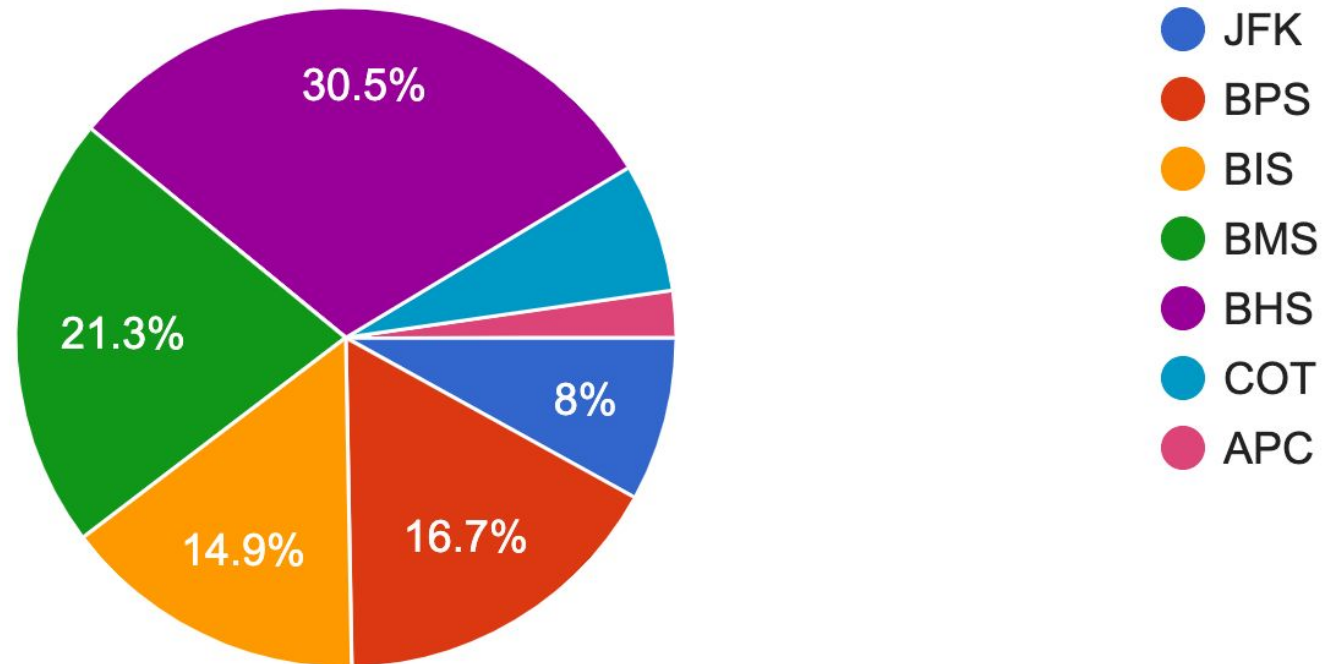
174 responses



SURVEY RESULTS - *Demographics*

In which building do you currently teach or teach most often?

174 responses

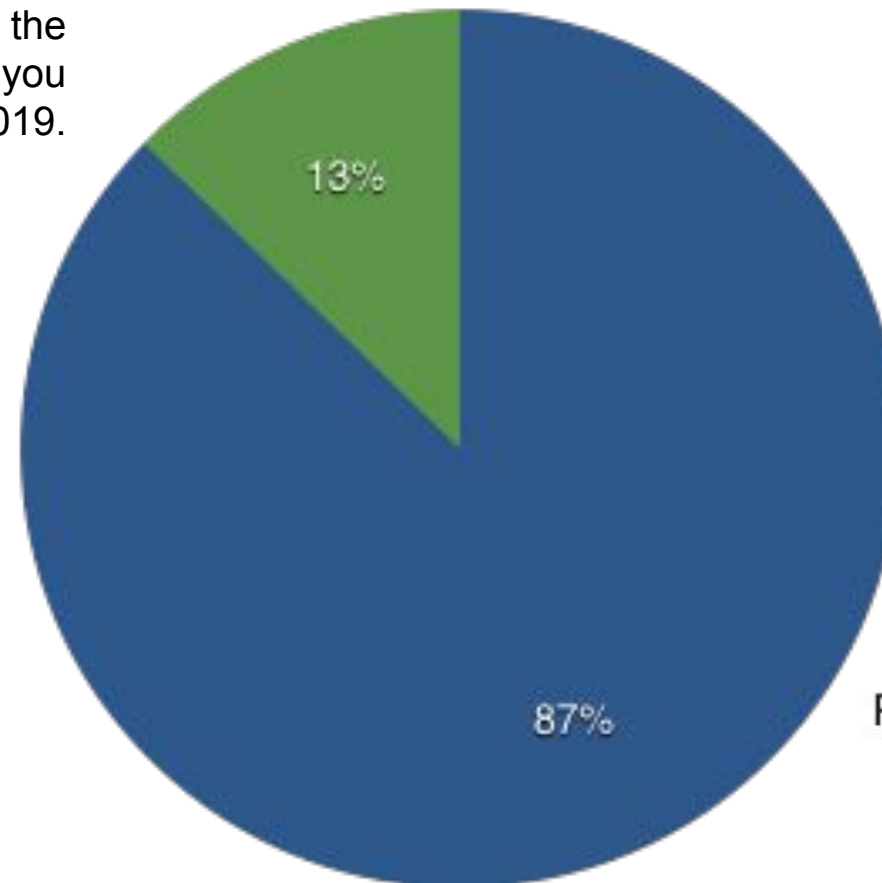


SURVEY RESULTS - *Teachers recently moved*

If you are a current 3rd grade, 5th grade, or 8th grade teacher, do you

117 responses

Prefer to return to the
building in which you
taught in 2019.

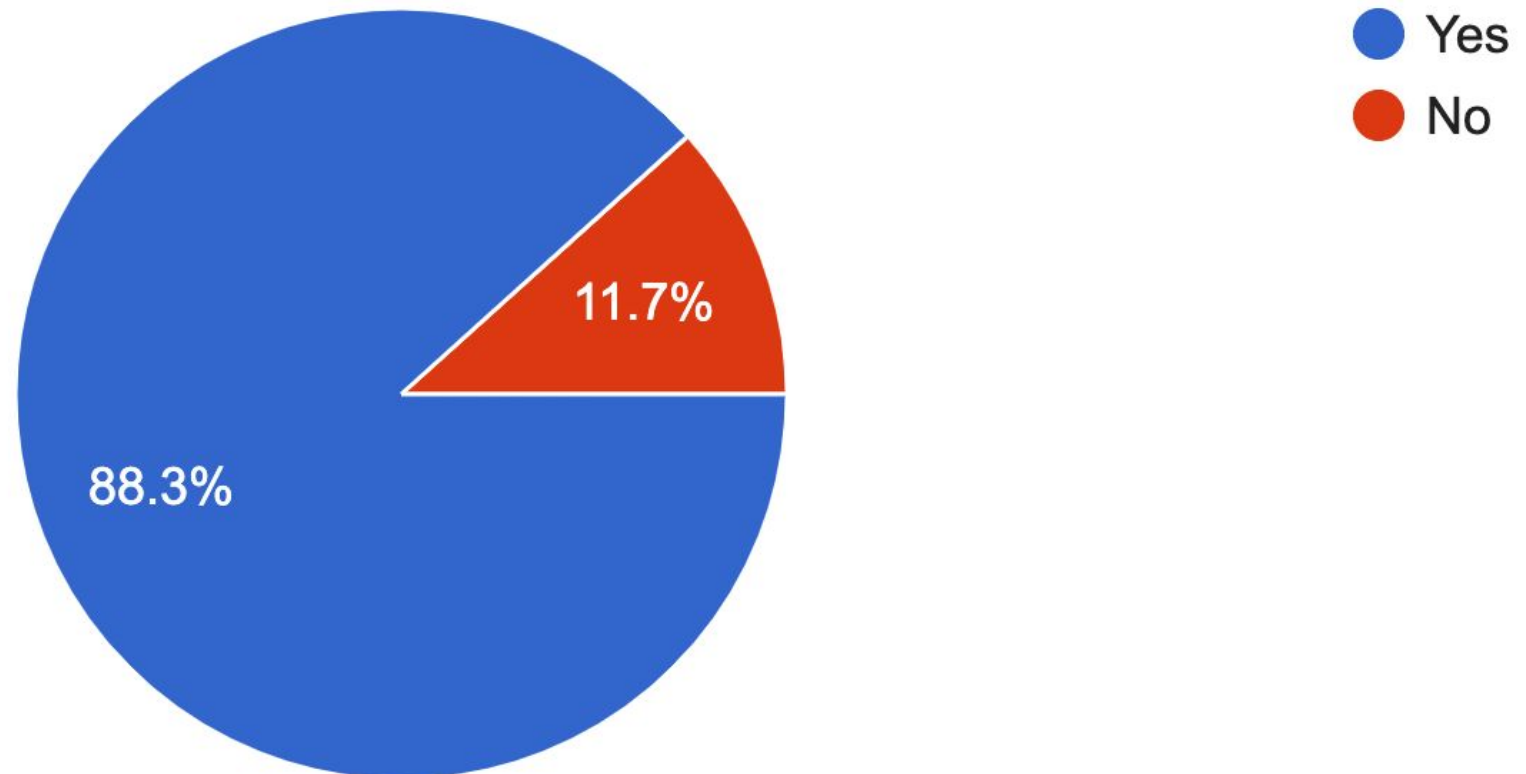


Prefer to stay in the building in
which you currently work.

SURVEY RESULTS - *Elementary teachers on REE*

Would you like to continue with the REE Mentorship Program?

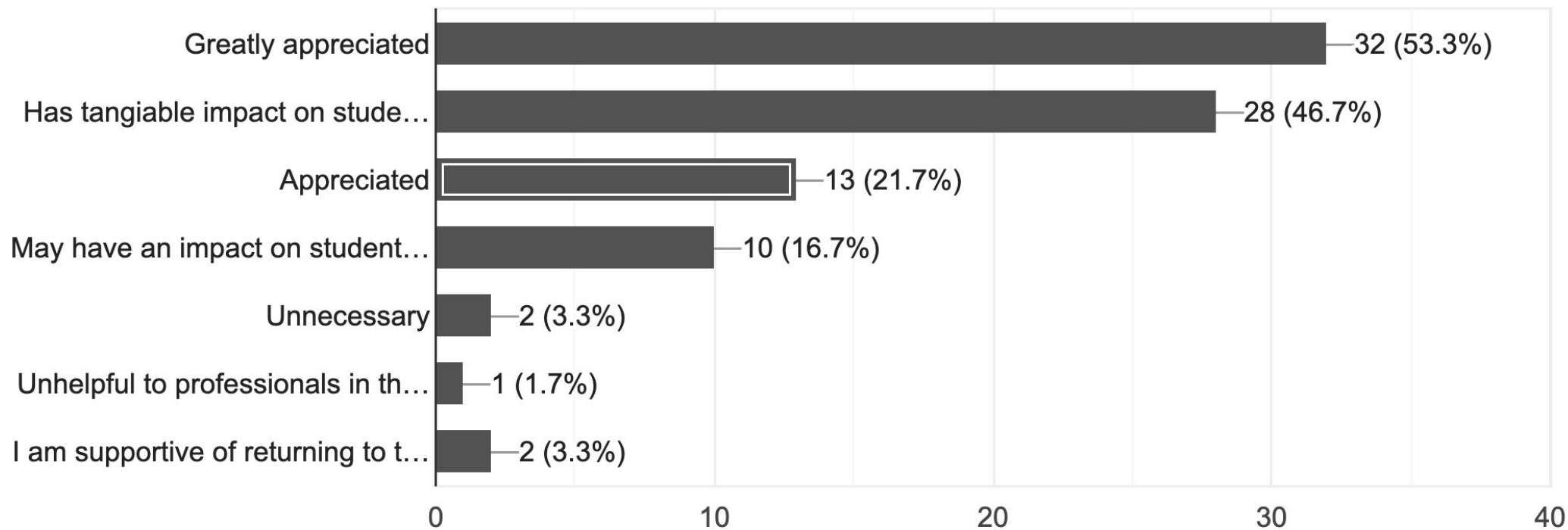
60 responses



SURVEY RESULTS - *Elementary teachers on REE*

Which of the following statements most closely matches your sentiments on smaller class sizes and a greater presence of resident interns and student teachers?

60 responses



SURVEY RESULTS - *Silver Linings*

The changes related to the pandemic have highlighted the resiliency of the faculty and its ability to change quickly and adapt to a new situation.

I love eating lunch with my students. (7)

Smaller class sizes are great. Cleaner classrooms and students sanitizing is also wonderful. (124)

Technology more readily available, increase use of g.classroom so students always have access to content and assignments

I feel that for my program the use of google classroom and zoom has helped my population deal with anxiety relating to school.

Longer contact time with math students (everyday) has been fantastic and will help to improve our scores as we have time to make up for the deficits that the students come to us with.

I have had the opportunity to implement learning strategies via Zoom. These strategies incorporated multiple subjects and grade levels.

Fewer behavior issues due to relationships built with smaller classes

SURVEY RESULTS - *Editors' Preliminary Findings*

- Teachers feel students are well served by resident interns, and in current building configurations.
- Most teachers like the current model better than the 2019 model.
- Class size, class size, class size, class size.
- Relationships, relationships, relationships.



QUESTIONS?



Student Survey Summary

The Future of the BMS

CENTRAL QUESTION, REVISITED

Given:

The changing demographics of our community;

That BHS is currently a 8-12 school, BMS is a 5-7 school, BIS is a 3-4 school;

That the future of the JFK school, in need of more than \$10,000,000 of infrastructure investment, is uncertain

That the arc of the pandemic remains uncertain;

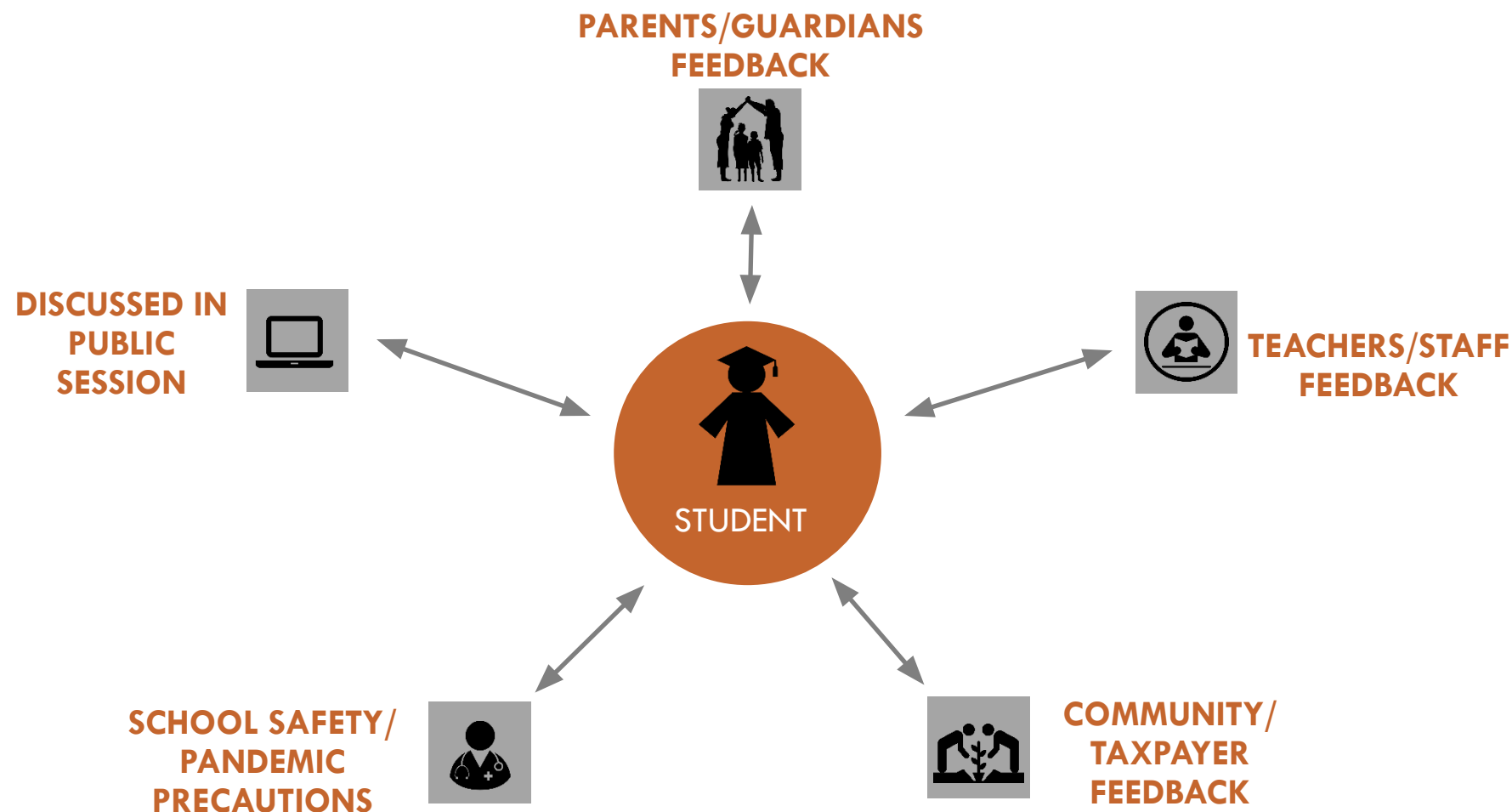
The question before the school committee is how to best populate buildings to:

- Maximize program opportunities for students;
- Run effectively and efficiently;
- Maximize opportunities for collaboration;
- Operate safely.

In sum, there are three options on the table at this hour:

1. Keep the 8th grade at BHS, utilizing federal funds to provide a private wing and expand CTE offerings
2. Return 8th grade to BMS, and utilize federal funds to build a wing to create a grades 5-8 BMS to maintain smaller class sizes, the REE program, and to be prepared for future distancing requirements
3. Status quo ante.

STAKEHOLDER FEEDBACK



STAKEHOLDER FEEDBACK



SURVEY INSTRUMENT

Principal Jacques and Assistant Principal distributed an electronic survey written by Assistant Superintendent Indorf and Director of Instruction Cyr.

Feedback from Superintendent, HS and 8th Grade Assistant Principal.

Response rate adequate for validity

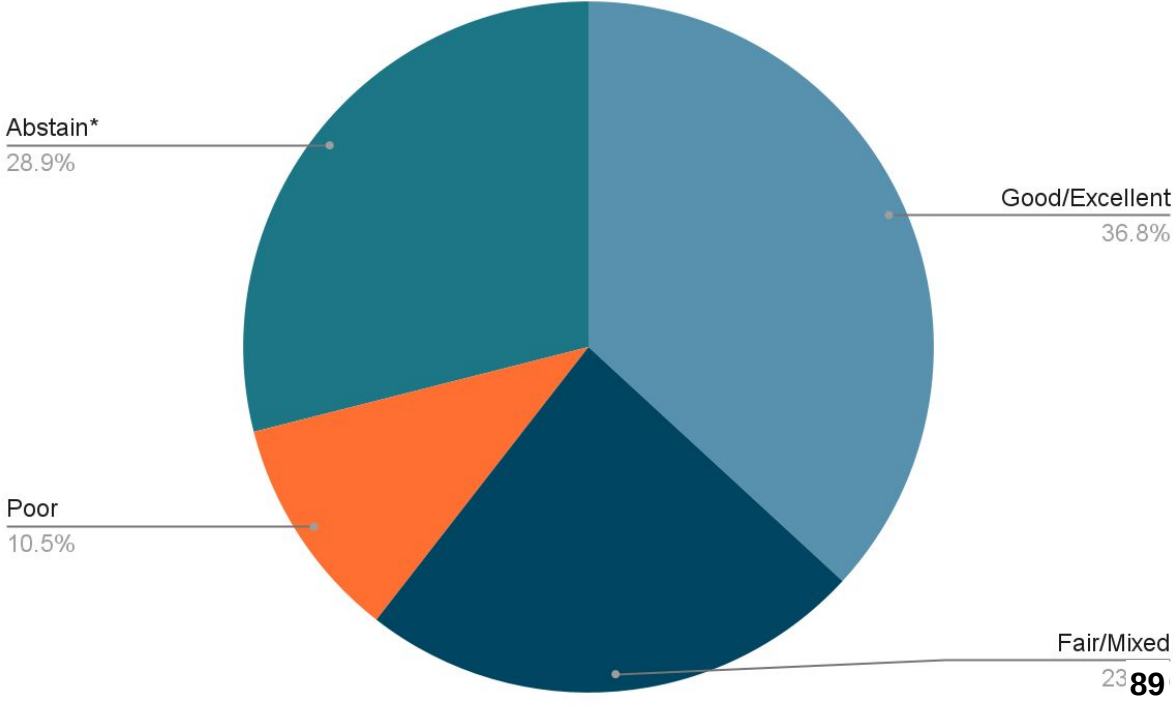
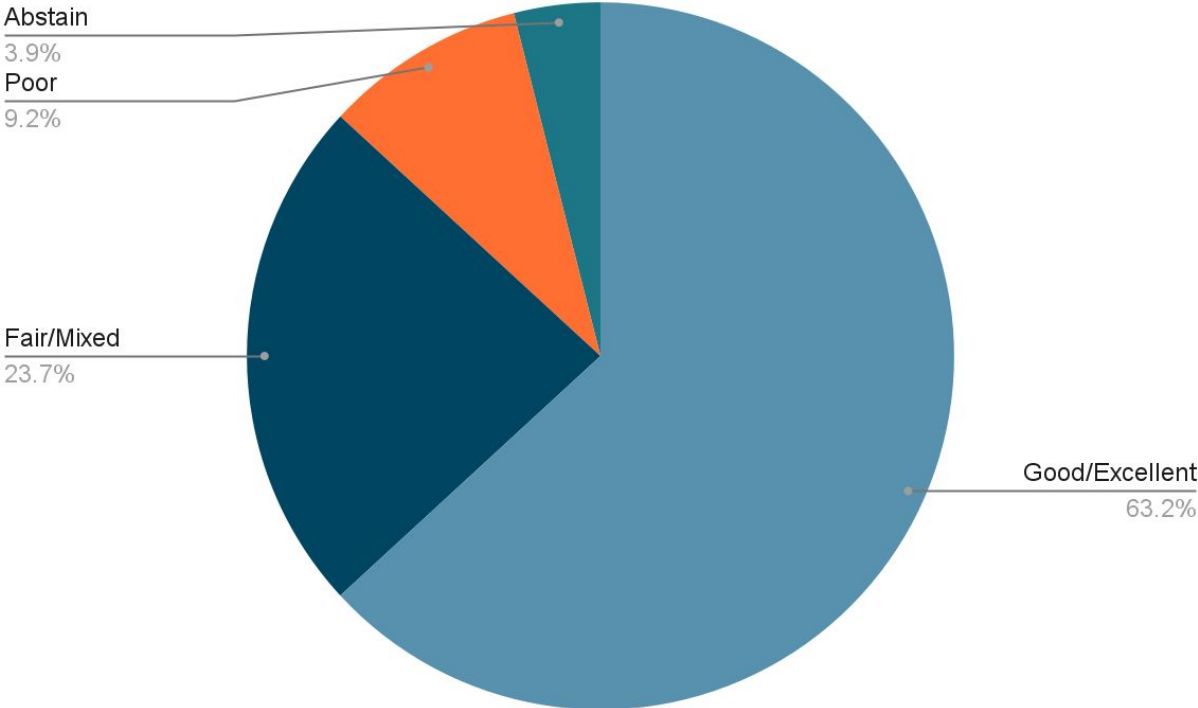
- **153 total responses; 50.7% respondents 9th graders**
- As with the parent survey, the survey results are **mixed**, and while they offer the Team critical insights on both messaging and things we and this Board should consider, they don't reveal a clear direction for decision-makers.

SURVEY RESULTS - *Distillation of Pros and Cons*

True free response question: Describe your experience so far this year in 8th grade being on the high school campus (or, last year if you're a current 9th grade student).

Current 8th Graders	Former 8th Graders
"Good. Different and theirs [sic.] more freedom with is really nice i like it better."	"Being on campus last year felt a little weird especially with the bell ringing in the middle of class when we had completely different schedules from the upperclassmen but I think it's a lot more helpful for kids to transition if they get a little tour of the school towards the end of the year."
"I like the teachers at the high school but not being at the high school"	"8th grade was one of my best years here in Biddeford. The teachers were so enthusiastic and were almost always in a good mood. I feel that everyone else could have a good year like I did in any school and I mainly don't have a preference but, If I were to choose, I would decide to keep the 8th graders in the High School as it may adjust their mindsets and help them prepare more to go into 9th grade."
"I don't like it here. The high schoolers are rude. I hate climbing up all the stairs, it's very annoying. and I miss some of my friends that are in stem."	"It was ok. It wasn't the best because I couldn't see my friends, old teachers that I had previously had so that was hard. I didn't have that much fun because I was with the same people all day."
"Well my experience here is great. High Schoolers walk by and they sometimes say "Hi" and to be honest I really like it here. I feel safe comfortable and happy."	"Well it was fun [and] easy to get used to the high school easier to meet teachers get to my classes and easier moving on to my freshman year at Biddeford High School."
"I think this year was great! We get to know what it feels it would be to go to High school and even meet new people!"	"I think they should be at the high school, because it gives them what they need to know all about the campus."
"It was bad bc sometimes you would get bored because we would sat in the same class for like 6 hours and it gets really boring so maybe if they switched classes then it would be better."	"It was going pretty badly, but I got help. Now I'm doing great and better then ever."
"I don't mind being at the high school, because we are in our own wing, it doesn't really feel like we are in the high school."	"I Think its good because they get a feel for what the high-school and see what one of the wings looks like, its easier changing midway through the year."

SURVEY RESULTS - *Distillation of Pros and Cons (cont'd)*



*or Didn't Attend, or attended STEM Academy

SURVEY RESULTS - *Comparing Parent and Student Voice*

Parent Survey



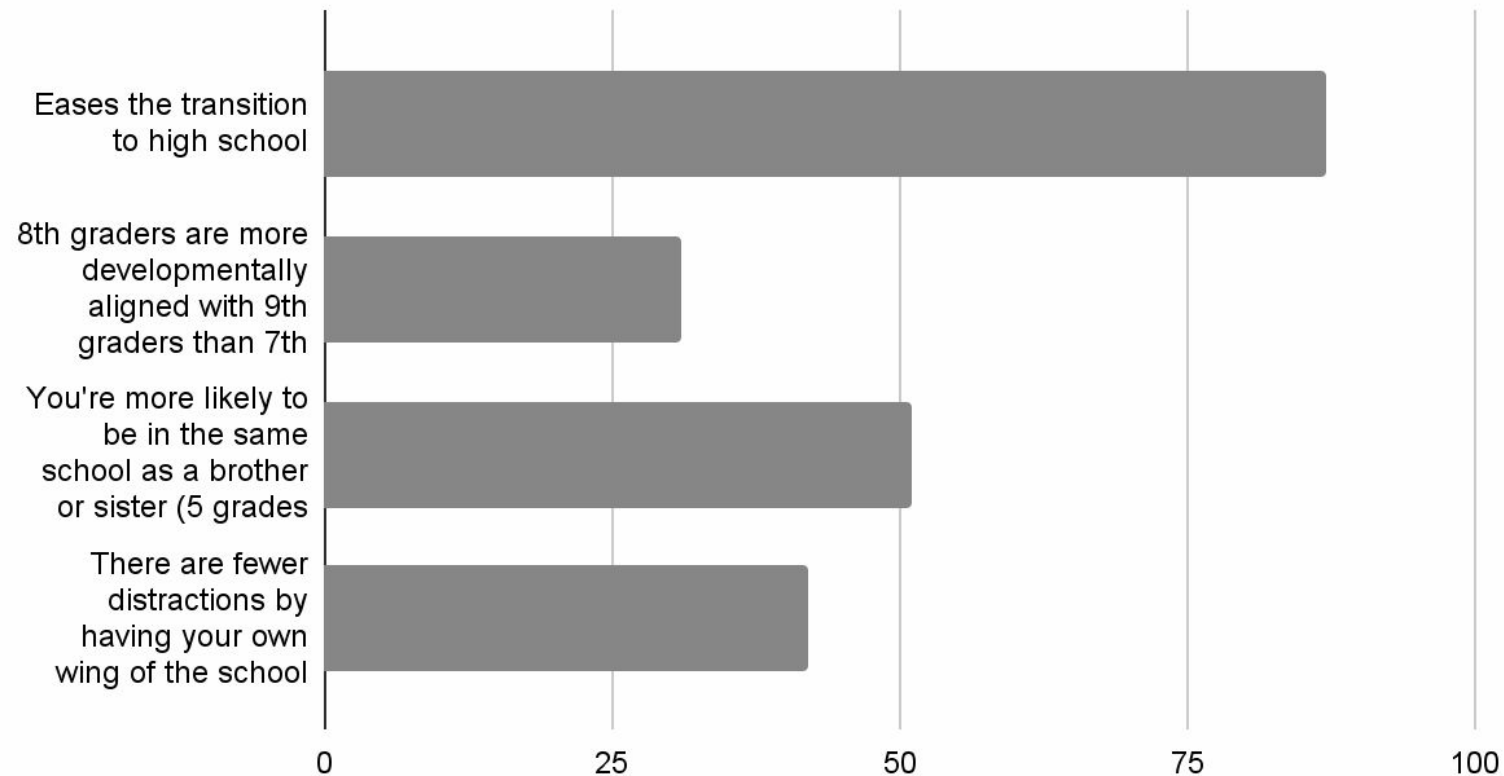
Student Survey



SURVEY RESULTS - *Benefits of 8th Grade at Maplewood*

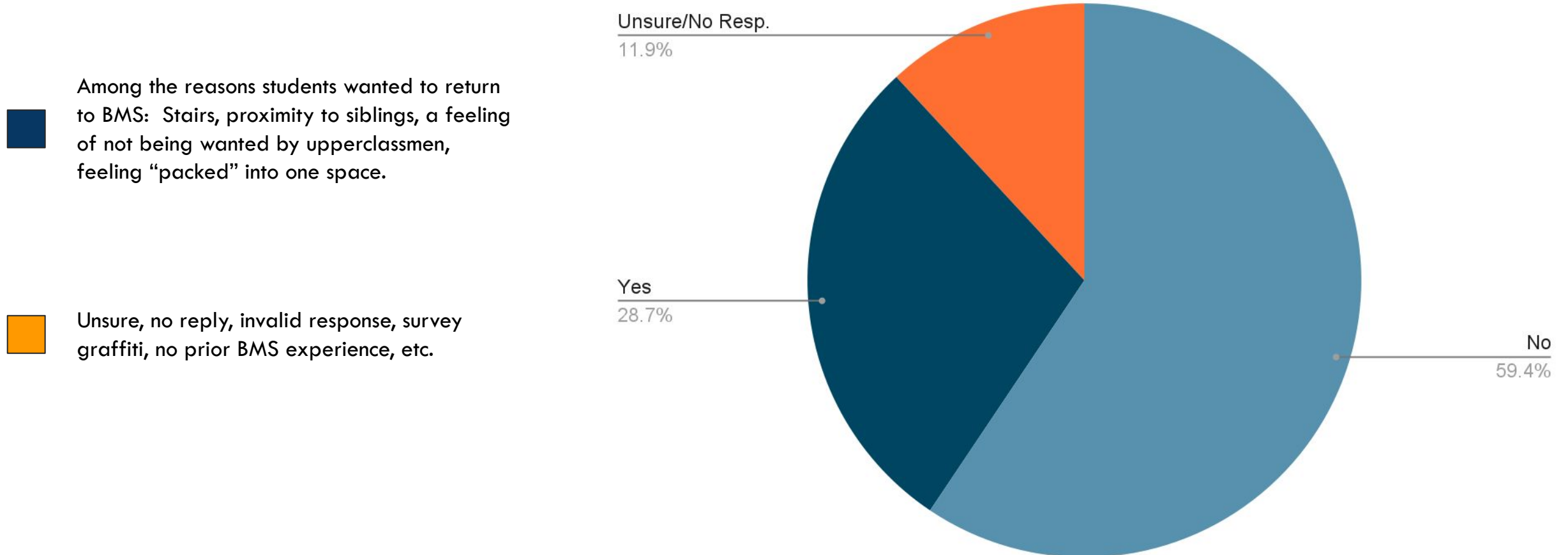
Several themes emerged from the parent survey, and we asked 8th and 9th graders how much they agreed with their parents; that is, to identify which benefits they enjoy being on the Maplewood Campus.

Top 4 themes



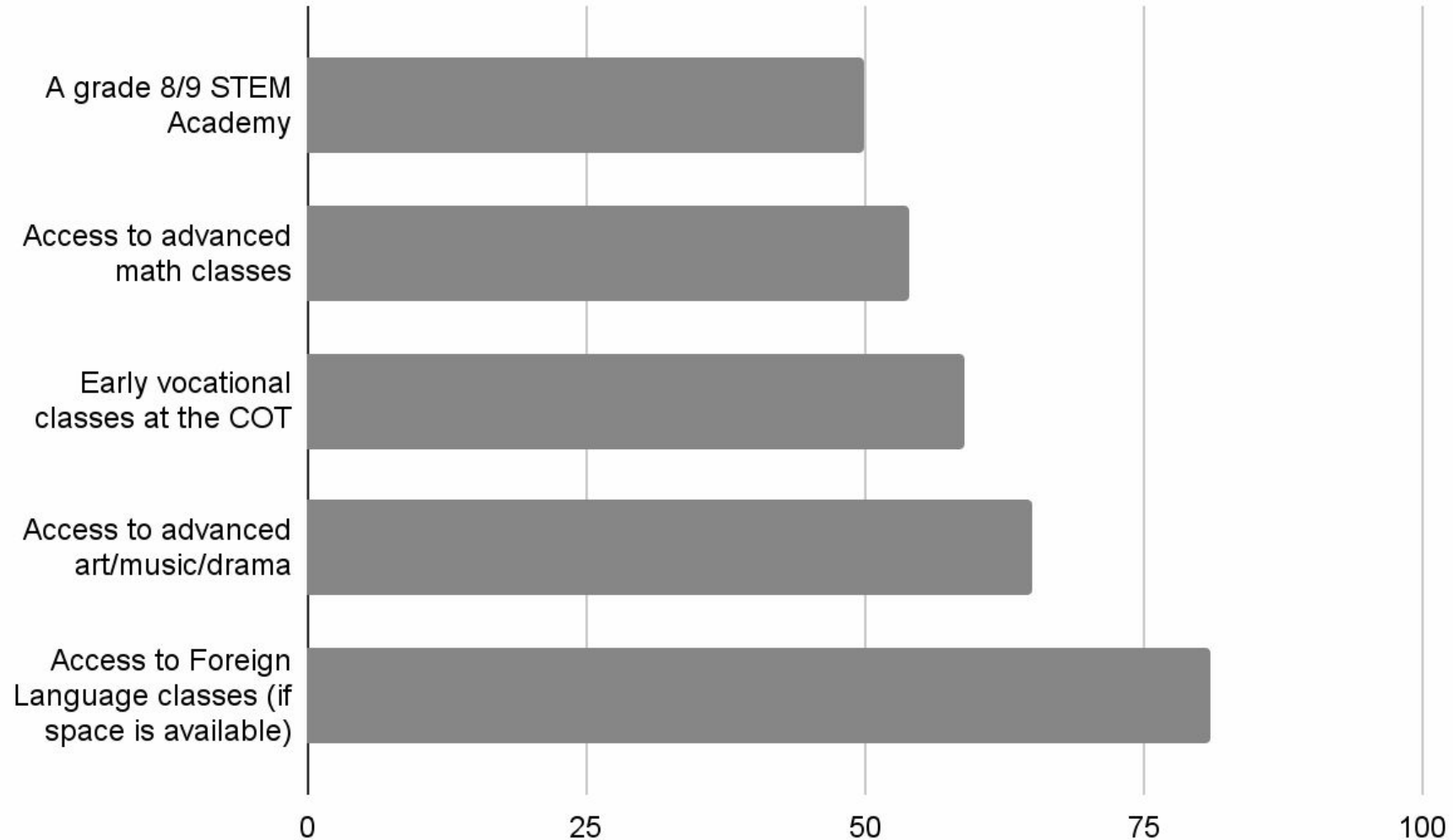
SURVEY RESULTS - *Benefits of 8th Grade at Maplewood*

Are there any reasons you'd prefer to have 8th grade located at the Middle School on Tiger Way?



SURVEY RESULTS

One-in-five students participate in high school programming; many want more!



SURVEY RESULTS - *Editors' Preliminary Findings*

- There is no general agreement among parents about the best composition of our schools. There is more agreement among students.
- Parents and students *both* have concerns about school configuration (8-12, 5-8, *status quo ante*) but those concerns rarely overlap.
- The primary theme emerging after two stakeholder surveys: keeping the 8th Grade at the Maplewood Campus opens opportunities for students to take HS classes and CTE offerings and eases the transitions for many.
- Parents who reported positive school experiences were more likely to be deferential in their comments, or in favor of 8th grade staying put. Student responses mirror this trend, with current 8th graders generally more positive.

NEXT STEPS



SITE SELECTION*

**FINALIZE BUILDING
PLANS, SURVEYS,
CODE AND FIRE
MARSHALL CHECKS
FOR PROJECT
VIABILITY AND COST**



ADDITIONAL INFO

**ADDITIONAL
STAKEHOLDER
INFORMATION MUST
BE SOLICITED**



PUBLIC PARTICIPATION

**THE PUBLIC IS
WELCOME TO
COMMENT AT THIS OR
FUTURE MEETINGS**



QUESTIONS?



Parent Survey Summary

The Future of the BMS

CENTRAL QUESTION

Given:

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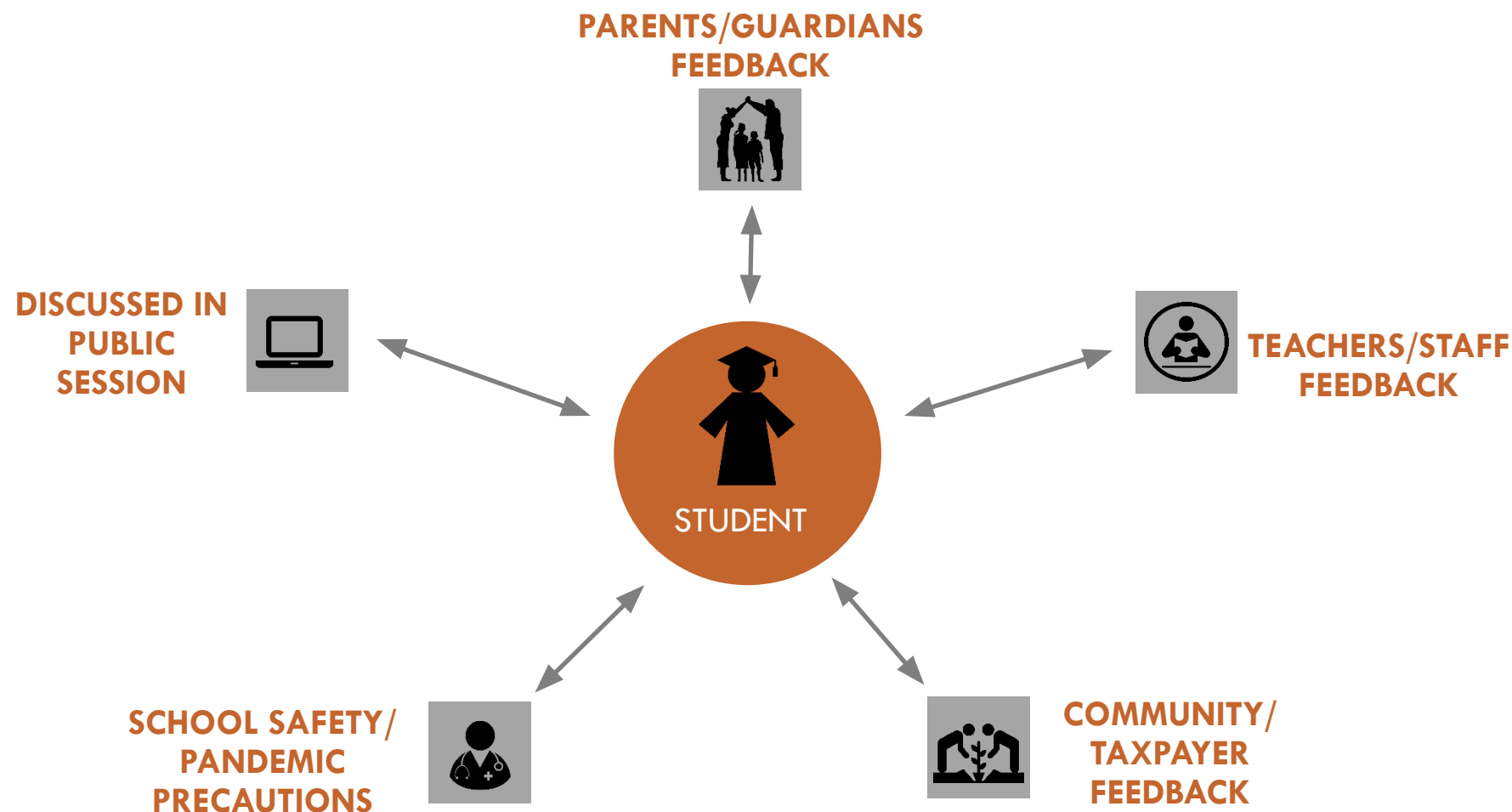
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3. Status quo ante.

STAKEHOLDER FEEDBACK



STAKEHOLDER FEEDBACK

PARENTS/GUARDIANS
FEEDBACK



SURVEY INSTRUMENT

Principal Scott Descoteaux distributed an electronic survey written by him, Assistant Superintendent Indorf and Director of Instruction Cyr.

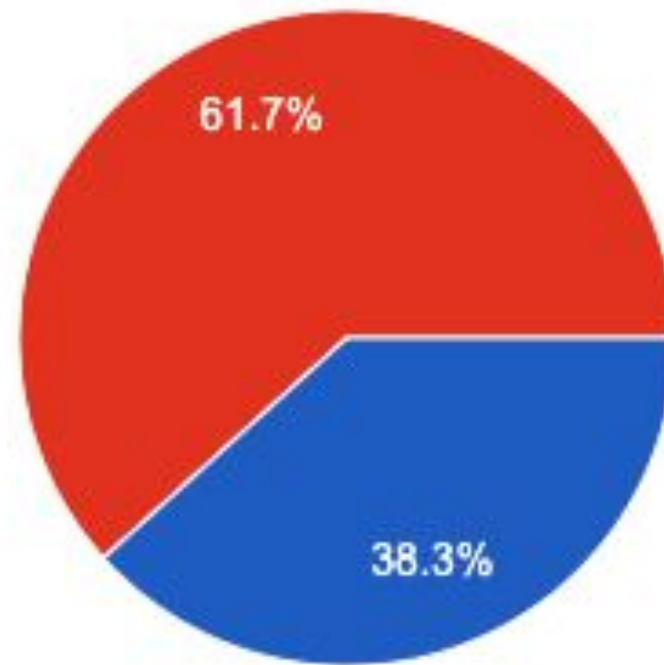
Feedback from Superintendent, HS and 8th Grade Assistant Principal.

Response rate adequate for validity

- **92 total responses** from a parent/guardian representing ~480 fifth, eighth, and ninth and graders.
- The original survey contained a faulty setting, for which **I take full responsibility**, and the misfire likely hampered participation.
- The survey results are **mixed**, and while they offer the Team critical insights on both messaging and things we and this Board should consider, they don't reveal a clear direction for decision-makers.

SURVEY RESULTS - *Demographics*

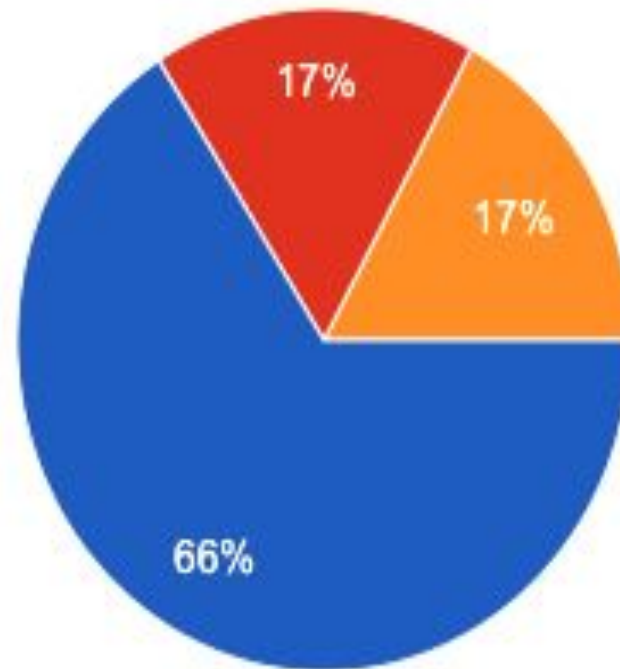
What is your child's gender?



- Female
- Male
- Other/prefer not to say

SURVEY RESULTS - *Demographics*

For my child, school is generally



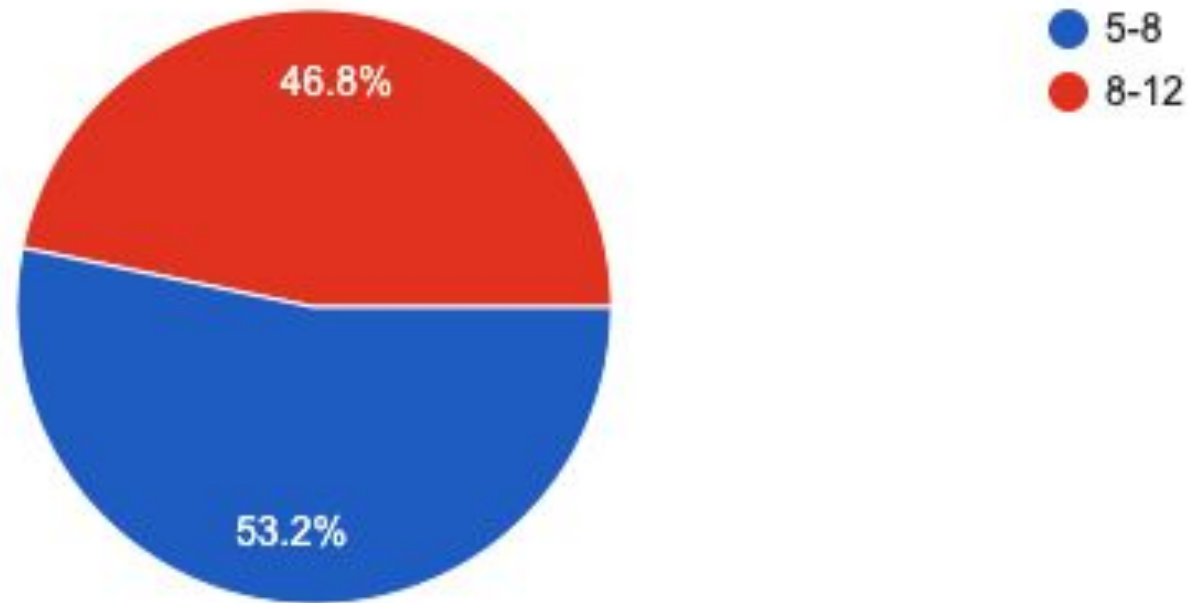
- Easy to navigate and be successful
- Manageable, with moderate success
- Challenging/difficult with barriers to success
- Simply not working at all for him/her/ them.

SURVEY RESULTS - *Distillation of Pros and Cons*

Positive outcomes (experienced or forecast) of having 8th grade students remain on the Maplewood Campus	Negative outcomes (experienced or forecast) of having 8th grade students remain on the Maplewood Campus
Eases the transition to high school, reduces anxiety	Discomfort with 8th and 12th graders mingling
Program benefits (e.g., access to Algebra I or expanded arts opportunities)	Concerns about athletics--will 8th graders lose opportunity or gain it? Will they have to compete against 9th graders?
Promotes independence; perception of helping students break from a “middle school” model to secondary prep	References to exposure “high school behaviors.” Respondents were light on specifics, but I intuit substances, routine rules violations, relationships.
8th graders are better aligned to their peers on an 8-12 campus than in a 6-8 or 5-8 school	General opposition to any grade realignment
Access to vocational programs	Transportation of students after school to BMS to access athletics facilities
Transition between 8th and 9th grade STEM Programs	Having the STEM academy bifurcated
Potential access to APEX, alternative education programs	

SURVEY RESULTS - *Forced Choice*

As the parent of a middle schooler, you understand adolescent development. If the district were to select between a grades 8-12 school with the possibility of limited mingling between the classes, and a 5-8 school with same, which would be preferable?



SURVEY RESULTS - *Visualizing Parents' Voice*

When current 8th & 9th grade parents were asked to describe their student's experience at the BHS...



SURVEY RESULTS - *Visualizing Parents' Voice*

When current 5th, 6th and 7th grade parents were asked what benefits they *perceive* of having 8th graders on the Maplewood campus...



SURVEY RESULTS - *Visualizing Parents' Voice*

When current 5th, 6th and 7th grade parents were asked what concerns they carry having 8th graders on the Maplewood campus...



SURVEY RESULTS - *Editors' Preliminary Findings*

- There is no general agreement among parents about the best composition of our schools.
- The administration must articulate non-negotiables; many survey respondents pondered items not on the table in *any* circumstance (e.g., 8th grade girls in class with 12th grade boys, 8th graders competing in basketball with 9th graders).
- Parents who reported positive school experiences were more likely to be deferential in their comments, or in favor of 8th grade staying put.

NEXT STEPS



SITE SELECTION*

**FINALIZE BUILDING
PLANS, SURVEYS,
CODE AND FIRE
MARSHALL CHECKS
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QUESTIONS?

MEMO

TO: School Committee
FROM: Jeremy Ray, Superintendent of Schools
RE: Nursing Overview: COVID Stats
DATE: January 26, 2022

Below are charts with the total COVID positive cases and pooled testing results- broken down by week and school from the start of the school year.

Through a partnership with the York County Emergency Management Agency, we were able to provide 125 boosters at the clinic held at Biddeford High School last week for all Biddeford, Saco, and Dayton students and staff (12+).

TOTALS BY SCHOOL (9/3/21-1/22/22):

School	Number of Student Positive Cases	Number of Staff Positive Cases	Number of Positive Pools
JFK	45	9	10
BPS	63	20	15
BIS	63	11	15
BMS	111	21	14
BHS/APC/COT	192	34	23
Other Depts	0	19	0
TOTALS	474	114	77

WEEKLY TOTALS (9/3/21-1/22/22):

Dates	Positive Cases Total	Positive Pools
9/10/2021	2	0
9/17/2021	6	0
9/24/2021	5	0
10/1/2021	7	0
10/8/2021	5	1
10/15/2021	8	1
10/22/2021	9	1
10/29/2021	10	3
11/5/2021	6	0
11/12/2021	8	3
11/19/2021	9	0
11/26/2021	9	0
12/3/2021	17	5
12/10/2021	27	4
12/17/2021	36	10
12/24/2021	29	0
12/31/2021	32	0
1/7/2022	120	11
1/14/2022	169	26
1/21/2022	74	12
TOTALS BY WEEK	588	77