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;;;Boston City Council 170623

[ GAVEL STRIKE ] ABOUT  
GOOD

MORNING, GOOD AFTERNOON, MY NAME  
IS MATT O'MALLEY, I'M THE  
DISTRICT 6 CHAIR.

TODAY IS A JOINT HEARING BETWEEN  
MY COMMITTEE AND MY DEAR FRIEND  
TIM McCARTHY DISTRICT 5,  
CHAIRMAN ON THE COMMITTEE OF  
DISTRICT SERVICES AND VETERANS  
AFFAIRS.

AND MICHELLE WU, LEAD SPONSOR  
ALONG WITH MICHAEL FLAHERTY ON  
0822, REDUCING CARBON FOOTPRINT  
OF BOSTON CITY HALL AND OTHER  
MUNICIPAL BUILDINGS.

I WOULD LIKE TO THANK THE MAKERS  
OF THE HEARING ORDER, COUNCIL  
PRESIDENT WU AND COUNCILOR  
FLAHERTY.

THERE WILL POSSIBLY BE OTHERS  
WHO JOIN US.

L STAFF WILL HELP US ENGAGE ON A  
GOOD CONVERSATION ON WAYS WE CAN  
MAKE BOTH CITY HALL AND  
HOPEFULLY ENCOURAGE OTHER  
MUNICIPAL BUILDINGS AND OTHER  
BUILDINGS, PRIVATE BUILDINGS AS  
WELL TO BE MORE ENERGY  
EFFICIENT.

I REALLY APPRECIATE THE  
LEADERSHIP DEMONSTRATED BY MAYOR  
WALSH SEVERAL WEEKS AGO WHEN THE  
PRESIDENT ANNOUNCED THAT THE  
UNITED STATES WOULD NO LONGER BE  
PART OF THE VOLUNTARY PARIS  
ACCORD AGREEMENT.

MAYOR WALSH LED LIT THIS  
BUILDING GREEN TO SHOW OUR  
COMMITMENT.

COMMERCIAL BUILDINGS IN BOSTON  
INCLUDING MUNICIPAL BUILDINGS  
CONTRIBUTE TO 52.2% OF THE  
CITY'S GREENHOUSE GAS EMISSIONS,  
IN PARTNERSHIP WITH THE CITY'S  
GREEN REVENUE COMMISSION,

NATIONALLY, OUR HOUSEHOLDS  
ACCOUNT FOR 40% OF OUR ENERGY  
CONSUMPTION.

THERE ARE THINGS WE CAN DO TO  
OBVIOUSLY ADDRESS THAT AND MAKE  
SURE THAT WE CAN HAVE GREENER  
BUILDINGS AND DO MORE TO MAKE  
THIS A LEADER ON SO MANY  
ENVIRONMENTAL INITIATIVES.

I WAS VERY PLEASED TO WORK WITH  
SOME OF YOUR PREDECESSORS, IN  
PASSING THE BERDO, BACK IN 2012  
AND 2013 UNDER FORMER MAYOR TOM  
MALONEY.  
MENINO.

I WANT TO THANK AT LARGE  
COUNCILOR AH ANYS RVETIONA ESS  
ABI-GEORGE FOR JOININGS US AS  
WELL.

>> THIS IS NOT A POPULAR  
CONVERSATION BECAUSE IT'S  
TAXPAYERS MONEY NOR BUILDING TO  
HEAT IT TO COOL IT, WE'LL SEE  
THE TRUE NUMBERS ON HOW MUCH  
WE'RE ACTUALLY LOSE BEING,  
REPAIR TO THIS BUILDING, HOW  
MUCH THAT WOULD COST VERSUS THE  
POSSIBILITY OF A NEW BUILDING.  
WHEN I WAS KNOCKING ON DOORS  
THREE, FOUR YEARS AGO, THERE WAS  
A GENTLEMAN IN ROSLINDALE, BE  
AND SAID WHAT DO YOU THINK OF  
CITY HALL?

I SAID IT'S NOT MY FAVORITE  
BUILDING.

HE SAID GREAT, FOR THE NEXT HOUR  
HE PULLED OUT PAPERS HOW HE  
WOULD REDESIGN THE BUILDING.  
YOU'RE WELCOME TO TAKE A LOOK AT  
THAT.

HE WAS TALKING ABOUT ENERGY  
SAVINGS AND COST SAVINGS.  
VERY INTERESTING CONVERSATION.  
THIS IS AN INTERESTING AND LONG  
CONVERSATION AND I'M LOOKING  
FORWARD TO THE PROCESS.  
THANK YOU, PLAYER.

>> THANK YOU, COUNCIL PRESIDENT  
WU.

>> THANK YOU FOR MY COLLEAGUES  
WHO ARE CHAIRING THIS.  
PUSHED UP THE TIMING, I DO WANT  
TO PASS ALONG WITH REGRET FROM  
COUNCILOR FLAHERTY, CALLED ME 15

MINUTES AGO, SOMETHING HE  
COULDN'T GET OUT OF, AN  
EMERGENCY CAME UP, HE WISHED HE  
COULD BE HERE.

HE HAS PASSED ALONG QUESTIONS TO  
ME THAT I'LL ASK ON HIS BEHALF  
LATER, FOR TWO OF US WHO ENTERED  
THIS HEARING ORDER AND I THINK  
ALL OF US ON THE COUNCIL, THE  
CONTEXT OF SUSTAINABILITY UNDER  
THIS PRESIDENTIAL  
ADMINISTRATION, I WAS THINKING  
WHAT WE COULD DO AROUND THE  
ANNOUNCEMENTS OF THE PARIS  
CLIMATE ACCORDS, THE ANSWER IS  
TO PUSH THE CITY THE BIGGEST ON  
ITS OWN AND THINK OF EVERYTHING  
WE CAN DO NO MATTER HOW SMALL TO  
HAVE AN IMPACT IMMEDIATELY.  
AND COUNCILOR FLAHERTY HAD  
ENTERED A SIMILAR ALMOST EXACTLY  
THE SAME TOPIC, VERY SIMILAR  
HEARING ORDER BACK IN 2008.  
HE'S BEEN THINKING ABOUT CITY  
HALL AND MUNICIPAL BUILDINGS AS  
WELL.

VERY EXCITED TO HAVE YOU HERE  
FOR A GOOD CONVERSATION NOT JUST  
CITY HALL AND SORT OF CITY OF  
BOSTON BUT ALSO BPS HERE AND BPD  
HAS SENT IN TESTIMONY AS WELL.  
LOOKING FORWARD TO GETTING INTO  
THE DETAILS.

>> THANK YOU COUNCILOR WU.  
COUNCILOR ESSAIBI-GEORGE.

>> PARTICIPATING IN TODAY'S  
HEARING LEARNING A LOT MY FIRST  
GO-ROUND AND STAFF'S LEADING.  
THANK YOU.

>> CHIEF DO YOU HAVE ANY OPENING  
REMARKS?

WOULD YOU LIKE TO INTRODUCE YOUR  
COLLEAGUES?

>> I'LL GET INTO THAT.

>> THIS IS BEING TAPED AND  
STREAMED ONLINE AS WELL AS ON  
TELEVISION.

TIM'S DAD AND MY MOM ARE PROBABLY  
THE ONLY ONES WATCHING, HI DAD,  
HI MA, IF THERE'S A SIGN UP IN  
THE BACK WE'LL GET TO EVERYBODY.  
APOLOGIZE FOR THE INTROWMTION.  
PRODUCE.

>> I'M AUSTIN BLACKMAN I'M

RESIDENT HERE IN BOSTON AS WELL.  
THANK YOU ARE COUNCILOR FOR  
INVITING US TO TESTIFY TODAY.  
THANK YOU TO COUNCILOR O'MALLEY  
AND THANK YOU COUNCILOR  
ESSAIBI-GEORGE, FOR ATTENDING AS  
WELL.

ON BEHALF OF MAYOR WALSH AND HIS  
TEAM I WOULD LIKE TO THANK YOU  
FOR YOUR PARTNERSHIP IN MAKING  
BOSTON A GREENER AND HAPPIER  
PLACE.

OBVIOUSLY, WE HAVE A LOT OF WORK  
TO DO.

THIS CONVERSATION IS MORE THAN  
EVER IMPORTANT TO LEAD BY  
EXAMPLE.

AS YOU KNOW MAYOR WALSH IS A  
LEADER ON CLIMATE ISSUE.

AS COUNCILOR O'MALLEY  
ANNOUNCERRED, WE LIT CITY HALL  
GREEN WITH LED BULBS.

TO ACCELERATE OUR EVEREST TO  
REDUCE CARBON EMISSIONS ASKING  
US TO FORM PLANS TO BECOME  
COMPLETELY CARBON NEUTRAL BY  
2050.

HE WAS ALSO ONE OF THE FIRST  
MAYORS TO CAUTION AND CRITICIZE  
PRESIDENT TRUMP FROM PULLING OUT  
OF THE PARIS AGREEMENT AND SINCE  
THEN HE HAS BEEN JOINED BY 300  
OTHER MAYORS, ACTUALLY MORE THAN  
300, BOTH REPUBLICANS AND  
DEMOCRATS REPRESENTING OVER 50  
MILLION AMERICANS.

THESE MAYORS HAVE ALL PUBLICLY  
PLEGGED TO UPHOLD THE TENETS OF  
THE PARIS AGREEMENT AS PART OF A  
GROUP CALLED CLIMATE MAYORS.

MAYOR WALSH IS PART OF A C-4  
CLIMATE GROUP, ALL OF THIS WORK  
IS INCREDIBLY IMPORTANT IT IS  
EVEN MORE IMPORTANT THAT WE LEAD  
BY EXAMPLE HERE IN BOSTON.

BEFORE WE TALK ABOUT OUR WORK ON  
THE GROUND I'D LIKE TO INTRODUCE  
MY ESTEEMED CLEEGD FROM THE  
CITY, JOE CALLAHAN THE DEPUTY  
COMMISSIONER OF PROPERTY  
MANAGEMENT HERE, HE'S JOINED BY  
PETER O'MALLEY SULLIVAN, ASSET  
AND CONSTRUCTION MANAGEMENT.  
KATHRYN WALSH TO MY LEFT IS

JOINING US FROM BOSTON PUBLIC SCHOOLS, THE SUSTAINABILITY AND ENVIRONMENTAL RESOURCES MANAGER. AND WOULD I LIKE TO THANK MY STAFF, ADAM JACOBS AND SUSAN CASINO, ADAM IS OUR CITY MANAGER, HE WORKS VERY CLOSELY ON OUR OTHER DEPARTMENTS TO IDENTIFY ENERGY USE AND REDUCTION, HERE IN THE CITY OF BOSTON, ALONG WITH A TEAM AT BOSTON PUBLIC LIBRARY, THE FINANCE CABINET AND USING A SYSTEM THAT OUR DEPARTMENT OF INFORMATION TECHNOLOGY HELPED PROCURE ADAM HELPED TO IDENTIFY SEVERAL BILLION IRREGULARITIES THAT HAVE SAVED OUR TAXPAYERS A MILLION DOLLARS JUST THIS TAX YEAR ALONE.

I WANTED TO MAKE SURE I GAVE ADAM SOME KUDOS FOR THAT. SEURCH IS ALSO OUR DIRECTOR FOR RECYCLING. SHE WORKS WITH THE DEPARTMENT OF STAFF.

MY COLLEAGUES IN THE CHAMBER ARE JUST A HANDFUL OF THE CITY'S TEAM THAT ARE WORKING TO MAKE OUR BUILDINGS HEALTHIER AND SAFER OR THE US TO WORK AND ACTUALLY VISIT.

MAYOR WALSH BELIEVES IT'S IMPORTANT TO PUSH FORWARD ON THIS WORK PARTICULARLY AS WE SEE THE FEDERAL GOVERNMENT RETREATING.

HEATING AND COOLING THESE BUILDINGS REPRESENT ABOUT 64% OF MUNICIPAL OPERATIONS, GREENHOUSE GAS EMISSIONS, SO THEY'RE OUR LARGEST OPPORTUNITY AND LARGEST AREA OF FOCUS FOR A PROGRAM CALLED RENEW BHOFT TRUST.

GOING TO COMMG'S COMMENT, MAKING SURE WE'RE RESPONSIBLE STEWARDS, THIS PROGRAM IS FOCUSING ON THE BEST OPPORTUNITIES TO SAVE MONEY FOR THE CITY.

WE'VE ALREADY DONE A PRELIMINARY ASSESSMENT OF 266 OF OUR CITY'S BUILDINGS, THAT'S COVERING ABOUT 90% OF THE SQUARE FOOTAGE IS THAT THE CITY MAINTAINS.

EVENTUALLY THIS PROGRAM WILL ALLOW US TO MANAGE ENERGY RETROAFFILIATES THAT ARE SELF-FINANCED.

IN OTHER WORDS THEY WILL IDENTIFY SO MUCH COST SAVINGS THAT THEY WILL OFFSET ANY OF THE CONSTRUCTION AND PLANNING COST FOR THE BUILDINGS THEMSELVES. SO TO MAKE SURE THAT WE'RE USING THOSE TAXPAYER DOLLARS VERY WISELY.

THE SELECTION OF THE PROPERTIES FOR FIRST PHASE OF THIS PROCESS IS CURRENTLY UNDERWAY AND SCHEDULED TO BE COMPLETED BY THE END OF THE YEAR.

ONCE THAT FIRST PHASE IS DONE, WE ANTICIPATE THAT WE WILL DO MORE PHASES TO ACTUALLY COMPLETE MORE AND MORE OF THESE UPGRADES. BUT WE DO WANT TO MAKE SURE WE FOCUS ON SOME OF THE LARGEST OPPORTUNITIES FIRST.

JUST A LITTLE BIT ON RECYCLING. RECYCLING IS ANOTHER OPPORTUNITY FOR THE CITY OF BOSTON TO IMPROVE AND WE'VE TAKEN STEPS HERE AT CITY HALL.

OVER THE PAST YEAR OUR RECYCLING RATES ALREADY IMPROVED BY 4% AND AS I MENTIONED THE CITY IS KICKING OFF IT'S ZERO WASTE PLANNING PROCESS.

WE RECENTLY RELEASED A REQUEST FOR PROPOSALS FOR A CONSULTANT TO GIVE US SOME RECOMMENDATIONS ON HOW THE CITY CAN BECOME A ZERO-WASTE CITY.

THE PLAN WILL RECOMMEND GOALS AND TIME LINES FOR WASTE REDUCTION AND DISPOSAL COST FOR THE COMMERCIAL, INDUSTRIAL, INSTITUTIONAL AS WELL AS THE RESIDENTIAL SECTORS.

WE EXPECT TO IDENTIFY A CONSULTANT THIS SUMMER AND BEGIN THE PROCESS THIS FALL.

OF THE RENEWED ENTHUSIASM AROUND THIS IS ABSOLUTELY EXCELLENT AND WE ARE EXTRAORDINARILY EXCITED TO CONTINUE TO WORK NOT ONLY WITH THE COUNCIL BUT WITH OUR PARTNERS IN THE COMMUNITY ON HOW

WE CAN MAKE OUR OPERATIONS HERE AT CITY HALL AND THROUGHOUT ALL OF OUR MUNICIPAL ASSETS MORE EFFICIENT TO REDUCE COST TO OUR TAXPAYERS AND TO REDUCE OUR GREENHOUSE GAS EMISSIONS TO BE THE LEADERS ON CLIMATE ACTION THAT BOSTON IS.

AND WITH THAT HAPPY TO TAKE ANY QUESTIONS THAT YOU MAY HAVE FOR US.

>> THANK YOU, DO EITHER OF YOU HAVE ANNUAL OPENING STATEMENT OR COMMENT?

-- AN OPENING STATEMENT OR COMMENT?

>> JUST BRIEFLY THAT THE PROPERTY MANAGEMENT DEPARTMENT IS VERY EXCITED TO BE HERE AND PARTICIPATE.

WE WORK VERY CLOSELY WITH THE ENVIRONMENT DEPARTMENT.

AND MR. BLACKMAN MENTIONED PETER O'SULLIVAN THAT WORKS WITH US.

IN ADDITION, I'D LIKE TO MENTION KENYA JERMAINE HAS JUST CONVENIENTLY JOINED OUR STAFF. SITTING BEHIND ME.

SHE WORKED CLOSELY WITH THE DEPARTMENT AND MS. CASINO ON THE CITY HALL.

>> MS. WALSH.

CITY'S CARBON TOOLKIT PRINT AND TO ADVANCE A MORE SUSTAINABLE PUBLIC SCHOOL SYSTEM.

FIRST, BPS IS ONE OF SEVEN QUEM DISTRICTS RECENTLY SELECTED TO TRACK REPORT AND SHARE THE SUSTAINABILITY METRICS OF OUR SCHOOLS.

BY PARTICIPATING IN THE VERSION 1 PROGRAM, WE WILL HAVE THE UNIQUE OPPORTUNITY TO BENCHMARK WITH OUR PEERS ACCESS CENTER FOR GREEN SCHOOLS, EXPERTISE AND SUPPORT.

AND HELP U.S. GBC DEVELOP THE PLATFORM FOR FUTURE K-12 DISTRICTS.

METRICS THAT WE WILL BE TRACKING INCLUDE ENERGY, WATER, WASTE, TRANSPORTATION, NEW EXPERIENCE, HEALTH AND WELLNESS AND CURRICULUM.

TEACHERS AND SCHOOL LEADERS WILL BE FULLY INVOLVED IN THE COLLECTION OF THESE METRICS WHICH IS AN EXCELLENT ENGAGEMENT OPPORTUNITY FOR US.

WE HAVE SELECTED 15 SCHOOLS TO PARTICIPATE THIS COMING YEAR. THIS PILOT WILL GREATLY IMPROVE THE TRACKING OF SUSTAINABILITY METRICS THEREBY HELPING US IDENTIFY OPPORTUNITIES FOR NEW INITIATIVES IN AREAS SUCH AS BUILDING PERFORMANCE, HEALTH AND WELLNESS AND SUSTAINABILITY LITERACY.

OUR PARTICIPATION IN ARC-PLUS SCHOOLS ALIGNS WITH THE VISION OF BUILD BPS.

UNDER THE LEADERSHIP OF MAYOR WALSH AND SUPERINTENDENT CHANG, BOSTON PUBLIC SCHOOLS WILL BE INVESTING \$1 BILLION IN THIS PROGRAM.

THE ENERGY FEACIALTS OF BPS BUILDINGS, INCORPORATING GREEN BUILDING GUIDELINES AND IMPROVING GUIDELINES FOR HEALTHY SCHOOL ENVIRONMENTS.

IN ADDITION TO BUILD BPS, BPS BUILDINGS ARE INCLUDED IN RENEW BOSTON TRUST, WHICH WILL RECOMMEND ENERGY EFFICIENCY IMPROVEMENT.

BPS IS COMMITTED TO REUSE AND SINGLE STREAM RECYCLING PROGRAMS AND A GOAL OF ZERO WASTE.

THESE INITIATIVES ARE REPRESENTED BY CITY FROM BPS AND CITY OF BOSTON, SEURCH CASINO HAS BEEN A COMPLETE CHAMPION WITH HELPING BPS SCHOOLS WITH OUR ZERO WASTE PROGRAMS.

BPS WILL ALSO BE PARTICIPATING IN THE LEAD BY EXAMPLE COMMITTEE AS PART OF THE CITY OF BOSTON'S ZERO WASTE PLANNING PROCESS.

LASTLY A GREAT POINT, A POINT OF GREAT PRIDE AND SUCCESS WITHIN BPS IS OUR BOSTON SCHOOLYARD INITIATIVE AND OUTDOOR CLOOMS. CLASSROOMS.

SINCE 1985, TRMPLED ASPHALT LOTS TO PLACES FOR PLAY LEARNING AND COMMUNITY.



OUTDOOR CLASSROOMS PROVIDE STUDENTS WITH HANDS ON OUTDOOR LEARNING OPPORTUNITIES IN SUBJECT AREAS LIKE COUNCILS MATH SOCIAL STUDIES LANGUAGE ARTS AND VISUAL ARTS.

THESE SPACE ALSO INCREASE BOSTON'S AVAILABLE GREEN SPACE AND HELP MITIGATE THE HEAT ISLAND EFFECT.

PLEASE LET ME KNOW IF YOU HAVE ANY QUESTIONS.

>> I'VE WORKED WITH EACH AND EVERY ONE OF YOU IN YOUR RESPECTIVE DEPARTMENTS AND APPRECIATE YOUR LEADERSHIP IN THIS CASE.

I HAVE A COUPLE OF OVERARCHING QUESTIONS BEFORE I TURN IT OVER TO MY COLLEAGUES.

I THINK I KNOW THE ANSWER TO THIS BUT IT'S PART AND PARCEL ABOUT US AT CITY HALL SPECIFICALLY ABOUT COMMUNITY CENTERS.

SEVERAL YEARS AGO, I THINK WE'RE GOING BACK SEVERAL YEARS AGO NOW, THERE WAS A GRANT FROM THE STATE THAT WOULD ALLOW FOR SOLAR PANELING ON THREE COMMUNITY CENTERS THAT WOULD BE USED TO STORE ENERGY FOR COMMUNICATES COMMUNICATION IN THE EVENT SERVICES WENT DOWN.

WHAT'S THE STATUS?

IN TWO GRANTS WE RECEIVED, ONE OF THE GRANTS IS ACTUALLY A PARTNERSHIP WITH THE BOSTON MEDICAL CENTER.

PART OF THAT IS TO PROVIDE SOME RESILIENCY BENEFITS WITH SOME BATTERY STORAGE AND A SOLAR FACILITY THAT WOULD ACTUALLY HELP POWER SOME OF THE COMMUNICATION ASSETS THAT WE HAVE IN THE CITY OF BOSTON. THROUGH THAT GRANT WE WERE ABLE TO PROVIDE SOME FUNDING TO BOSTON MEDICAL CENTER TO INSTALL THAT FACILITY, INTER-CONNECT IT TO OUR COMMUNICATIONS FACILITY. AND THAT ACTUALLY WE HAD THE RIBBON CUTTING FOR THAT EARLIER THIS YEAR.

SO THAT PROJECT IS UP AND

OPERATIONAL.

THE SECOND PROJECT --

>> AND THAT IS FOR EQUIPMENT AT BOSTON MEDICAL CENTER ONLY?

>> IT'S -- NO.

SO IT'S BOSTON MEDICAL CENTER AND THEIR OPERATIONS, MAKING THEM MORE RESILIENT BUT THEN ALSO THE REASON WHY THE CITY WAS PARTY TO THIS WAS BECAUSE IT ALSO IS GOING TO HELP POWER SOME OF OUR EMERGENCY COMMUNICATIONS EQUIPMENT INCLUDING SOME OF OUR SHOT SPOTTER TECHNOLOGY THAT'S USED BUSY BOSTON POLICE AS WELL AS THEIR COMMUNICATIONS INFRASTRUCTURE AND ASSETS.

>> AND IT'S SOLAR POWERED?

>> SOLAR POWERED WITH THE BATTERY.

>> AND WHERE ARE THE PV --

>> I BELIEVE THAT THEY'RE INSTALLED ON THE CENTER ITSELF.

>> AN THE ROOF?

>> EXACTLY.

AND SO THAT'S UP AND GOING.

>> OKAY GREAT.

>> SO WE ALSO RECEIVED ANOTHER GRANT FOR SOME OF OUR BCYF FACILITIES AS YOU MENTIONED TO MAKE THEM MORE RESILIENT TO USE STORAGE TECHNOLOGY.

WE'RE IN THE PROCESS OF WORKING WITH THE STATE.

WE'VE HAD A COUPLE CONVERSATIONS WITH THEM IN TERMS OF THE BEST WAY WE CAN FINANCING IT.

SO THERE WAS A LITTLE BIT OF DISCUSSION AS TO WHETHER THE CITY WOULD HAVE TO ACTUALLY OWN THOSE ASSETS OR IF WE COULD POTENTIALLY USE A FINANCING TOOL THAT WOULD ALLOW US AT A MUCH LOWER COST TO DEPLOY A BATTERY AND HAVE A MORE RESILIENT OPERATION AT THOSE FACILITIES. WE'RE STILL IN THE PROCESS OF EXECUTING THAT GRANT.

>> OKAY, DO YOU HAVE A TIME LINE ON WHEN YOU'D LIKE TO SEE THAT COMPLETED?

>> STILL WORKING WITH THE STATE IRONING OUT THE FINANCING BUT WE'RE HONING TO HAVE IT DONE AS

QUICKLY AS POSSIBLE.

>> KEEP US POSTED.

>> SURE.

>> I KNOW IT'S NOT AS SIMPLE AS PUTTING PV PANELING ON EVERY ROOF, THERE ARE A MILLION FACTORS THAT GO INTO IT. HAS THERE BEEN TALK, IT MAY NOT BE THE OPTIMAL SITE, BUT PUTTING A SOLAR ROOF ON CITY HALL?

>> IT IS SOMETHING CONSIDERED. AS YOU MENTIONED SHADING IS AN ISSUE.

ALSO THERE'S SOME CONSIDERATION IN TERMS OF WHETHER IT WOULD BE A MORE APPROPRIATE USE, ANY OF THE BUILDINGS NOT JUST CITY HALL, WHETHER IT WOULD BE MORE EFFECTIVE USE TO DO OFFSITE SOLAR AND THEN LEVERAGE THE LIMITED OPPORTUNITIES THAT WE HAVE WITH OUR SPACE HERE WITH GREEN ROOFS WHICH COULD ALSO HAVE SOME BENEFIT TO THERMAL ENVELOPES AND ALSO SOME BENEFITS TO STORM WATER MANAGEMENT AS WELL.

BUT THAT'S SOMETHING WE'RE CONTINUOUSLY STUDYING AS PART OF THE RENEW BOSTON TRUST AND SOME OTHER INITIALS AT CITY HALL.

>> THERE IS A LOT OF REAL ESTATE UP THERE.

SEVERAL TOWNS IN MASSACHUSETTS HAVE BUILT SOLAR FARMS WHICH THEY ARE USING FOR THEIR MUNICIPAL BUILDINGS, WE DON'T HAVE THE LUXURY OF THAT MUCH SPACE BUT I WONDER, ROXBURY COMMUNITY COLLEGE HAS BUILT SOLAR PANELING AND I GOT OTOUR IT AND MEET WITH THE PRESIDENT AND SOME OF HER TEAM.

IT'S WONDERFUL TO. WONDERFUL. SOME OF OUR OPEN SPACE WHERE WE COULD HAVE SUCH A THING IS THAT PART OF THIS CONVERSATION AS WELL?

>> IT CERTAINLY IS.

I'VE HAD A CHANCE TO TOUR THE FACILITY AT ROXBURY COMMUNITY COLLEGE AS WELL.

IT'S AN ABSOLUTE PHENOMENAL STRUCTURE, IT'S GOT THE

CAR-CHARGING STATIONS AS WELL.  
THOSE CARS ARE COMPLETELY  
EMISSIONS FREE WHEN THEY CHARGE  
THERE.

THAT'S GENERATE.

IT'S SOMETHING WE HAVE BEEN  
LOOKING AT FOR SOME OF THE SPACE  
THAT WE DOES HAVE HERE WITHIN  
OUR MUNICIPAL CONTROL.

AS YOU KNOW COUNCILOR, OPEN  
SPACE IS AT A PREMIUM HERE IN  
THE CITY OF BOSTON AS WE HAVE  
MORE RESIDENTS COME INTO OUR  
CITY.

SO LOOKING FOR THE OPPORTUNITIES  
OF SPACE WHERE WE CAN DEPLOY  
SOMETHING LIKE THAT, MY PERSONAL  
PREFERENCE WOULD BE TO SEE THAT  
ON LOCATIONS THAT AREN'T OPEN  
SPACE CURRENTLY OR COULD BE GOOD  
OPEN SPACE PARTICULARLY IN OUR  
RESIDENTIAL NEIGHBORHOODS.

AND SOME OF OUR MORE INDUSTRIAL  
LOCATIONS I THINK THAT  
PARTICULARLY FOR SOME OF THE  
BENEFITS THAT YOU MENTIONED  
WHETHER IT'S COVER EXISTING  
PARKING AND DURING THE WINTER  
PROVIDE SOME BENEFIT THERE IN  
TERMS OF REDUCING THE AMOUNT OF  
SNOW WE WOULD HAVE TO CLEAR  
WHILE ALSO OFFSETTLING A  
SUBSTANTIAL AMOUNT OF ELECTRIC  
LOAD, WE'LL BE LOOKING AT THAT  
WITH BOSTON TRUST AND OTHER  
INITIATIVES.

>> I HAVE SAID THIS AD NAUSEAM,  
NOT ONLY IS THERE THE ZEITGEIST  
OF AFFECTING THIS, NOT JUST OUR  
GRAND KIDS, WE HAVE TO ACT NOW.  
IT CAN BE BENEFICIAL TO THE  
TAXPAYER TO THE RATEPAYER FOR A  
WHOLE HOST OF REASONS.  
SPECIFICALLY AT CITY HALL, DO WE  
KOSMOS?

I KNOW WE HAVE TWO CAFETERIAS,  
DO WE KOSMOS THE FOOD, THE  
EXCESS FOOD THAT COMES FROM  
THOSE?

>> -- DO WE COMPOST THE FOOD?  
>> WE HAVE OPPORTUNITIES AT CITY  
HALL WHERE COMPOSTING IS IS  
AVAILABLE.

WE HAVE A SMALL BIN THAT WE USE.

WE ALSO HAVE ONE OF THE OUR  
PROJECT OSCAR, NEIGHBORHOOD BINS  
LOCATED ON CITY HALL PLAZA.

>> WHERE IS IT?

I BELIEVE YOU, I'VE JUST NOT  
NOTICED IT BEFORE.

>> NEAR THE BILL RUSSELL STATUE.

>> WHERE THE FOOD TRUCKS GO.

IF WE SO SOMEHOW ENCOURAGE MIKE  
AND PETER TO TAKE ADVANTAGE OF  
THOSE, A TEAM THAT WOULD HELP  
THEIR COST.

ONE OF MY FIRST HEARING ORDERS  
WAS GETTING MORE WATER FILLING  
STATIONS IN OUR PARKS AND  
PLAYGROUNDS.

IT'S BEEN GREAT.

MASSACHUSETTS RANKS FOURTH IN  
THE CURCH MORNING ALL STATES,  
EVEN POPULATION WISE WE'RE IN  
THE MIDDLE OF THE PACK, NUMBER 4  
IN OUR CONSUMPTION OF SINGLE USE  
PLASTIC BOTTLES, THE FACT THAT  
IF THOSE AREN'T RECYCLED THEY'RE  
LITTER.

MOST OF OUR SITES, POLAND SPRING  
ONES WHICH ARE GREAT, BUT WHAT  
ABOUT GETTING WATER-FILLING  
STATIONS YOU KNOW IN EVERY WING  
OF THIS BUILDING?

>> I THINK IT'S A GREAT IDEA,  
COUNCILOR, AND PART OF WHAT THIS  
STUDY WILL LOOK AT IN RENEW  
BOSTON TRUST.

SO JUST TO POINT THAT OUT, NOT  
JUST ABOUT ELECTRIC SAVINGS BUT  
IT'S ALSO ABOUT SAVINGS THAT WE  
CAN HAVE ON OUR WATER USE AS  
WELL.

SO EVEN IF THAT'S LOOKING AT OUR  
BUBBLERS, OR THE FACILITIES THAT  
WE HAVE IN OUR RESTROOMS, THAT'S  
CERTAINLY SOMETHING THAT WE'LL  
BE LOOKING AT.

AS YOU KNOW SOME OF OUR FILLING  
STATIONS HERE AT CITY HALL MAKE  
IT NOT PARTICULARLY EASY TO USE  
SOME OF THEM AREN'T IN THE BEST  
STATE OF REPAIR.

SO THAT'S WHY MANY OF THE  
DEPARTMENTS USE SOME OF THOSE  
BOTTLED WATER TECHNIQUES.

SO THAT'S SOMETHING WE'LL ALSO  
LOOK AT AS PART OF THE RENEW

BOSTON TRUST, THAT'S NOT JUST  
HERE AT CITY HALL BUT ACROSS OUR  
ASSET PORTFOLIO.

>> I WOULD ARGUE THAT INVESTING  
AND FIXING THE BROKEN-DOWN WATER  
FILLING STATIONS WOULD BE MORE  
THAN -- THE INVESTING IN THOSE  
WOULD BE SIGNIFICANTLY LESS THAN  
CONTINUING TO PAY FOR WHATEVER  
OUR MOLLY BILL IS FOR THE  
PRIVATE WATER DISTRIBUTION.  
AND THEN HAVE ALL CITY BUILDINGS  
AND THERE'S ABOUT HOW MANY, 260?  
266 BUILDINGS ACCOUNT FOR 90% OF  
THE SQUARE FOOTAGE.

HOW MANY TOTAL CITY BUILDINGS  
ARE THERE?

>> I BELIEVE THE NUMBER IS 320  
SOMEWHERE AROUND THERE.

>> AND THAT'S LIBRARIES SCHOOLS  
EVERYTHING?

POLICE STAKES FIRE STATIONS?

>> SHACKS IN PARKS.

>> GOTCHA.

AND ALL THOSE -- HAVE ALL THOSE  
COMPLIED WITH THE BEARDO  
MANAGEMENT SYSTEM?

>> EACH YEAR THOSE BUILDINGS  
HAVE BEEN COMPLIANT SINCE 2012.

>> SO THIS HAS BEEN FIVE YEARS  
NOW AND HAVE ALL THOSE RECEIVED  
ENERGY ASSESSMENTS IN THAT TIME?

>> SO THE PRELIMINARY AUDIT  
ASSESSMENT IS JUST ONE OF THE  
THINGS WE'VE DONE FOR THOSE 266  
BUILDINGS.

AS OF NEXT YEAR WE WILL HAVE TO  
ADDRESS HOW WE GET THE REMAINING  
BUILDINGS EITHER AN ASSESSMENT  
OR DEMONSTRATE THAT THEY HAVE  
REDUCED THEIR ENERGY USE BY 15%.

SO THAT'S SOMETHING THAT THE  
ENVIRONMENT DEPARTMENT IS  
ACTIVELY PURSUING RIGHT NOW TO  
MAKE SURE WE'RE IN COMPLIANCE IN  
MAY OF 2018 FOR THE 2017 AREA.

>> GREAT.

AND DO WE RUN OUR ESCALATORS ALL  
DAY 24 HOURS A DAY?

>> NO, WE SHUT THEM DOWN AT  
NIGHT.

>> RIGHT AND WHAT ABOUT THE  
LIGHTS?

I KNOW PEOPLE ARE HERE 24 HOURS

A DAY SO I DON'T THINK IT SHOULD GO COMPLETELY DARK AND SOME FOR SAFETY REASONS BUT --

>> SEVERAL YEARS AGO WE MODIFIED THE LIGHTING SYSTEM TO -- THEY'RE ON TIMERS NOW AND MOTION SENSORS.

>> GOOD, THANK YOU.  
OKAY.

>> WE ALSO COUNCILOR, EXCUSE ME, I JUST WANT TO POINT OUT IN ADDITION TO THE CURRENT LIGHTING SYSTEM WE JUST INSTALLED A VERY HIGH TECH LED SYSTEM IN THE LOBBY AND EXTERNALLY IN THE BUILDING.

AND THE REALLY NICE THING IS THAT THE LED BULBS LAST ABOUT 20 YEARS, COMPARED TO THE OLD VERSION, WHICH LASTED ABOUT FOUR YEARS.

SO WE'RE GOING TO SAVE SUBSTANTIALLY ON PLUS WE'RE GOING TO SAVE SUBSTANTIALLY ON ENERGY COST AND MANPOWER COST. THE AMOUNT OF TIME IT WOULD TAKE OUR EMPLOYEES TO REACH LIGHTBULBS AND CHANGE THEM BY MOVING TO THE LED BULBS IT IS A WIN WIN SITUATION FOR US.

>> HUGE, TAXPAYERS PAY FOR THOSE BULBS SO NOT ONLY ARE WE HAVING MORE ENERGY EFFICIENT TECHNOLOGY, WE'RE GETTING MORE FOR OUR BUCK.

THANK YOU.

COUNCILOR O'MALLEY.

>> TO TAKE THAT ANOTHER LEVEL, IF THIS BUILDING ISN'T EQUIPPED FOR SOLAR PANELS, I DON'T WANT TO BRING UP THE SHADOW ISSUE AGAIN, IF WE CAN'T PUT SOLAR PANELS UP THERE, HAVE WE THOUGHT OF A GREEN ROOF?

THE VIEWS ARE OWCTS UP THERE, HAVE WE TALKED ABOUT POSSIBLY PUTTING IN A GREEN ROOF? BECAUSE WE'VE BEEN TALKING ABOUT IT BEFORE.

>> YEAH AND WE DO HAVE A PILOTS GREEN ROOF ON SOME OF THE PUBLIC AREAS ON THE PATIO ON THE 8th AND I BELIEVE ALSO ON THE 9th FLOOR.

SO WE DO HAVE SOME INSTALLATIONS  
THERE AND WE'VE GOT SOME SMALL  
PLANTS THAT ARE NOT  
SUPERWATER-DEPENDENT AND LOW  
MAINTENANCE.

SO THAT'S CERTAINLY HELPING  
TOWARDS THAT CAUSE.

AND IT'S SOMETHING THAT WE'LL  
LOOK AT CONTINUING TO EXPAND.  
BUT I'LL LET JOE EXPAND ON SOME  
OF THE CHALLENGES AROUND THE  
TOTAL AREA AND INSTALLING A  
GREEN ROOF AND ACCESS ON THE TOP  
OF THE BUILDING.

AS MENTIONED, THE GREEN ROOFS ON  
THE TERRACES ON 8th AND 9th  
FLOORS ARE WORKING WELL, THEY  
WERE INSTALLED YEARS AGO, VERY  
LOW MAINTENANCE AND GREAT  
BENEFITS, THE AM BY ANSWER FOR  
OUR EMPLOYEES TO TAKE A LUNCH  
BREAK COFFEE BREAK OUT THERE,  
THE ROOFTOP MORE PROBLEMATIC.

WE GET INTO ALT KINDS OF  
ENGINEERING -- ALL KINDS OF JERK  
ISSUES WITH WEIGHT LOADS.

AND SAFETY ISSUES.

I CONSTANT GIVE YOU ANY DEFINITE  
ANSWER RIGHT NOW BUT WE'LL  
CONTINUE TO WORK WITH THE  
ENVIRONMENT DEPARTMENT ON THAT  
ISSUE.

>> OKAY.

SO I KNOW COUNCILOR FLAHERTY  
CALLED COUNCILOR WU, I KNOW ONE  
OF THE QUESTIONS HE'S GOING TO  
ASK IS, REGARDING THE LIGHTS,  
THAT SIDE OF THE BUILDING WE  
HAVE LIGHTS THAT NEVER SHUT OFF  
AND WE DON'T KNOW WHERE THE  
SWITCHES ARE.

WE'VE LIRMT SEARCHED FOR  
SWITCHES THAT SHUT THE LIGHTS  
OFF IN OUR OFLGHTS AND WEE CAN'T  
SHUT THEM OFF.

THAT'S MORE OF A BUILDING  
REQUEST THAN ANYTHING ELSE.

>> IF EAST SIDE, CONGRESS SEAT  
SIDE, OFFICES --

>> MY OFFICE COUNCILOR LINEHAN,  
COUNCILOR BAKER, COUNCILOR  
FLAHERTY, AND THE BUDGET OFFICE  
THEY HAVE LIGHTS THAT NEVER SHUT  
OFF AND WE DON'T KNOW WHERE THE



SWITCHES ARE.  
WE'VE LOOKED EVERYWHERE.  
I'M SURE IT'S NOT KILLING THE  
CITY BUT IT'S, I DON'T KNOW  
WHERE THEY ARE.  
>> WE WILL LOOK INTO THAT AND  
LET YOU KNOW.  
>> AND I THINK THE ULTIMATE  
QUESTION THAT WE ALL HAVE TO  
TALK ABOUT JUST SPECIFICALLY  
ABOUT CITY HALL BEFORE I PASS IT  
ON IS, WHERE IS THE BREAKING  
POINT FOR RETROFITTING THIS  
BUILDING, RIGHT?  
HOW MUCH WOULD WE SPEND TO MAKE  
IT WORTHWHILE AND WOULD IT BE  
WORTHWHILE TO LOOK AT ANOTHER  
PLACE IF THAT MONEY IS TOO MUCH?  
I KNOW THAT'S WHAT YOUR REPORT  
IS GOING TO DO BUT ULTIMATELY  
WHEN WE GO FORWARD WITH THE  
WORKING SESSIONS THAT'S WHAT WE  
HAVE TO TALK ABOUT.  
ON THE FIFTH FLOOR YOU ASK SEE  
UP ALMOST TO THE CEILING, IT'S  
COMPLETE WASTED SPACE.  
WE HEAT THAT, WE COOL THAT FOR  
NO APPARENT REASON.  
WHEN WE LOOK UNDERNEATH THE  
BUILDING FOURTH FLOOR AREA THERE  
ARE GIANT PILLARS WITH OPEN  
SPACE.  
WHEN WE LOOK FOR MORE SPACE IN  
CITY HALL, HAVE WE LOOKED INTO  
CLOSING BUTTONGING THIS PLACE UP?  
I'M LOOKING FORWARD TO THE  
REPORT, TO SEE WHERE WE STAND.  
THANK YOU FOR YOUR EFFORTS,  
PETER AND SUE HAVE BEEN ALWAYS  
SO RESPONSIVE TO ME.  
I'VE NEVER MET ADAM BUT CLEARLY  
GOOD RETURN ON INVESTMENT THERE.  
YOU SAVED A MILLION BUCKS,  
THAT'S NOT BAD.  
GOOD STUFF.  
THANKS COUNCILOR.  
>> THANK YOU, MADAM PRESIDENT.  
>> THANK YOU MR. CHAIR.  
I THINK I WAS BLINDED BY MY LOVE  
FOR ARCHITECTURE AND THE  
BUILDING.  
THROUGHOUT BOSTON WE HAVE LOTS  
OF OLD BUILDINGS THAT ARE  
HISTORIC AND BEAUTIFUL AND

SIGNIFICANTLY FOR THOART WAYS SO WE NEED TO -- MY CASE IS WE NEED TO USE CITY HALL AS AN EXAMPLE HOW TO BLEND, BALANCE HISTORIC FRERVETION WITH FORWARD-LOOKING SUSTAINABILITIES.

I WILL DEFEND CITY HALL TO THE VERY END.

I THINK I'LL GO A COUPLE OF ROUNDS BUT FOR THE FIRST ROUND I WANTED TO FOCUS ON THE ENERGY CONTRACT PROCUREMENT STUFF AS WELL AS RECYCLING JUST AS TWO AREAS THAT I THINK ARE MORE IMMEDIATE.

BECAUSE EVERYTHING ILLS, HEATING AND COOLING LIGHTING, WATER MANAGEMENT ROOF STUFFER REQUIRES INVESTMENT IN INFRASTRUCTURE CHANGE THAT YOU KNOW, IT IS EVEN IN THE MEDIUM TERM PROBABLY COST SAVINGS BUT DOES REQUIRE MORE OF A BIG SHIFT, WHEREAS THESE TWO ARE EASILY WITHIN OUR GRASP.

I GUESS TAKING ONE STEP BACK AND FOLLOWING ALONG COUNCILOR O'MALLEY'S LINE OF QUESTIONING, CHIEF COULD YOU GO INTO A LITTLE MORE DETAIL, SUMMARIZING THE CITY'S CARBON FOOTPRINT.

YOU MENTIONED 320 BUILDINGS. WHAT ABOUT THE CAPITAL C INTOAFT CITY OFBOSTON PUTS OUT?

>> THEY ARE CERTAINLY THE AREA OF FOCUS AND WE ARE KISLYAK MOVING ON THAT IN THE CAPITAL BUDGET THIS YEAR, I BELIEVE LS \$10 MILLION OVER THE NEXT TWO YEARS IN OUR CAPITAL PLAN TO DEDICATE TO THE RENEW BOSTON TRUST.

THAT WILL GET US STARTED ON OUR FIRST PROJECTS.

THE MAYOR HAS MADE IT CLEAR TO MYSELF, TO CHIEF SWEENEY AND CHIEF BROPHY.

THIS IS A IMPORTANT ASPECT OF THE PROGRAM.

>> TRANSPORTATION OVERALL?

>> NO OVERALL.

AND THEN YOU KNOW EVEN IF YOU GO A BIT MORE GRANULAR AND I THINK THIS IS WHY IT'S IMPORTANT IF YOU REALLY TRY AND FOCUS ON THE

LARGEST STUNTS, CITY HALL ALONE -- OPPORTUNITIES, CITY HALL ALONE IS 4% OF OUR GREENHOUSE GAS PROFILE. SO IN TERMS OF AREAS WHERE TO FOCUS, BROADLY OUR BUILDINGS ARE OUR BIGGEST OPPORTUNITY. AND OUR LARGEST BUILDINGS, CITY HALL BEING ONE OF OVER 300 BUILDINGS BUT YET STILL BEING 4% OF OUR EMISSIONS PROFILE, OUR LARGEST BUILDINGS ARE THOSE THAT WE SHOULD REALLY BE FOCUSING ON TAKING ON FIRST. AND LOOKING AT WAYS WE CAN REDUCE OUR EMISSIONS PROFILE, WHETHER IT IS OUR FLEET AT PUBLIC WORKS OR OTHERWISE. >> THANK YOU VERY HELPFUL. STARTING WITH CITY HALL, THE CONCRETE MAKES IT SUCH THAT INSULATION IS NOT A DHAFFERTION WE CAN REALISTICALLY HAVE. SO IT GETS TO WHERE IS THE ENERGY THAT WE ARE PURCHASING, ELECTRICITY THAT WE'RE PURCHASING COMING FROM. CAN YOU TELL US WHAT IS THE ALL 320 BUILDINGS ON A SEPARATE ENERGY PRO COOURLT? WHAT IS THE TERM LIKE COST ET CETERA? >> JUST TO GO BACK TO CITY HALL FOR A QUICK MOMENT, ONE OF THE THINGS WE WILL LOOK AT IS IMPROVING THE THERMAL ENVELOPE AT CITY HALL. WE HAVE A LOT OF SINGLE-PANE WINDOWS, SOME AREAS HAVE NO INSULATION OTHER THAN THE CONCRETE, NOT THE BEST OPPORTUNITY. THERE ARE OPPORTUNITIES FOR US TO IMPROVE THE THERMAL ENVELOPE HERE AT CITY HALL. IN TERMS OF WHAT WE DO TO PROCURE ENERGY FOR ALL OF OUR MUNICIPAL ASSETS, WE'RE ACTUALLY DUE TO PROCUREMENT IN THE DAY-AHEAD MARKET FOR OUR NATURAL GAS AND ELECTRICITY SO WE'RE ON A THIRD-PARTY SUPPLY. IF YOU WOULD LIKE MORE DAYLIGHTS I'M HAPPY TO PROVIDE THEM TO

YOU.

WE ALSO HAVE NINE SOLAR FACILITIES ACROSS OUR CITY ASSETS.

THOSE SAVE US ABOUT \$80,000 A YEAR AND WE'VE GOT OUR LARGEST FACILITY BEING AT THE PUBLIC WORKS YARD, AT FRONTAGE ROAD. AND THAT GENERATES RENEWABLE ENERGY CERTIFICATES THAT HELP OFFSET SOME OF OUR EMISSIONS AWELL.

BUT CERTAINLY, OPPORTUNITIES TO IMPROVE UPON THAT IS SOMETHING THAT WILL BE ADDRESSED IN THE RENEW BOSTON TRUST, OPPORTUNITIES FOR RENEWABLE DEPLOYMENTS AND ALSO LOOKING AT SOME OTHER OPPORTUNITIES IN TERMS OF WHAT WE MIGHT BE ABLE TO DO OFFSITE AS WELL.

>> GREAT.

SO WHAT IS THE TERM OF THE CONTRACT, SO LET'S JUST TALK ELECTRICITY, HOW LONG IS IT SIX MONTHS LIKE, OR IS IT LONGER?

>> WE LITERALLY GO OUT AND WE HAVE A VENDOR GO AN PROCURE AND PROCURE ENERGY FOR US.

ADAM CORRECT ME IF I'M WRONG BUT IT'S THREE YEARS.

THEY GO OUT AND PURCHASE THOSE UTILITIES FOR US BASICALLY AT EACH DAY BASED ON WHAT OUR PROJECTED --

>> THE VENDOR GOES OUT AND MAKES THE -- GETS THE PRICING DAILY ESSENTIALLY?

>> RIGHT.

>> ARE THERE -- AND WHAT IS THE CURRENT PERCENTAGE OF CLASS 1 SORT OF CLEAN GREEN ENERGY AT THAT TIME CITY BUILDINGS ARE ON?

>> I'LL HAVE TO GET BACK TO YOU IN TERMS OF THE MASSACHUSETTS CLASS ONE IN TERMS OF THE EMISSIONS FACTOR THAT WE HAVE FROM THE BROADER ELECTRIC SUPPLY, IT'S ABOUT 10% IN TERMS OF RENEWABLES.

>> SO ARE WE GOING ANYTHING -- ARE WE ABOVE THE STATE MANDATED LEVEL AT ALL?

>> WE ARE BECAUSE WE HAVE THOSE

OAN SITE FACILITIES THAT OFFSET EMISSIONS FROM THE REST OF THE ELECTRICITY THAT WE USE.

>> NOTHING ADDITIONAL IN THE CONTRACT OR THE INSTRUCTIONS TO THE VENDOR WHO'S DOING THE PROCUREMENT TO DO ADDITIONAL SOURCING OF GREEN ENERGY ABOVE RPS?

>> I BELIEVE THAT'S CORRECT.

>> OKAY.

WOULD WE HAVE THE ABILITY TO CHANGE THAT WITHIN THE THREE-YEAR OR WITHIN THE-BEFORE THE CONTRACT WITH THE VENDOR ENDS?

IS THERE FLEXIBILITY IN THE CONTRACT?

>> IN OTHER WORDS COULD WE MODIFY THE EXISTING CONTRACT, THAT'S SOMETHING I'M WILLING TO LOOK INTO BUT IT'S CERTAINLY SOMETHING WE NEED TO LOOK AT AS WE RENEW THAT CONTRACT.

>> WHEN IS IT UP FOR RENEWAL DO YOU KNOW?

>> 2019.

>> 2019, OKAY.

HAVE WE LOOKED INTO AT ALL WHAT THE POTENTIAL COST DIFFERENTIAL OR WHAT THE IMPACT WOULD BE OF THE CITY MOVING ALL OF THEIR BUILDINGS ON TO 100% RENEWABLE ENERGY PER THE CONTRACT?

>> IF WE WERE TO OFFSET ALL OF OUR ENERGY USE, THERE WOULD BE WE COULD PURCHASE RENEWABLE ENERGY CREDITS AND JUST AS SOME VERY BRIEF BACKGROUND ON RENEWABLE ENERGY CREDITS.

WHEN YOU GO OUT AND BUY ELECTRICITY, YOU ARE BASICALLY BUYING TWO THINGS.

PARTICULARLY AS IT RELATES TO RENEWABLES.

YOU ARE BUYING THE ELECTRONS THAT ARE COMING OUT OF THE POWER PLANT.

BUT IN ORDER FOR ALL THESE UTILITIES TO MEET THE RENEWABLE PORTFOLIO STANDARDS AND OTHER REQUIREMENTS ACROSS THE NATION THERE HAD TO BE A SYSTEM TO PROVE WHETHER THAT ELECTRON WAS

RENEWABLE OR NOT.  
YOU COULD THINK OF THE WAY CRUDE  
OIL IS PRODUCED.  
ONCE IT GOES INTO A PIPELINE YOU  
DON'T KNOW WHERE IT CAME FROM.  
WHETHER NORTH DAKOTA, SOUTH  
DAKOTA, ELSE ET CETERA.  
SAME WITH AN ELECTRON, YOU DON'T  
KNOW IF IT'S PRODUCED AT A COAL  
PLANT OR SOLAR POWER PLANT.  
A SYSTEM HAD TO BE CREATED TO  
TRACK WHETHER THOSE ELECTRONS  
WERE GREEN ELECTRONS ARE NOT.  
THAT'S WHAT RENEWABLE ENERGY  
CREDITS YOU ARE.  
RENEWABLE ENERGY CREDITS CAN BE  
PURCHASED ANYWHERE IN THE  
NATION.  
A WIND FARM IN TEXAS OR HERE IN  
THE STATE OF MASSACHUSETTS.  
YOU GET A IDEA OF THE CREATION  
OF A FLUCTUATION OF PRICE.  
HERE IN MASSACHUSETTS WITH OUR  
RENEWABLE OFFENSIVE STANDARDS,  
MANY STANDARDS, THEREFER  
RENEWABLE ENERGY CREDITS IN  
MASSACHUSETTS ARE MANY MUCH MORE  
EXPENSIVE THAN THEY ARE IN OTHER  
PLACES THROUGHOUT THE INFLATION.  
I'M GOING TO GIVE YOU A COUPLE  
OF NUMBERS TO GIVE YOU A SENSE  
THIS TERMS OF HOW EXPENSIVE IT  
WOULD BE TO OFFSET ALL OF OUR  
ELECTRICITY.  
WE USE GREEN E RECS, NOT MUCH OF  
A MARKET, THESE ARE THE LOW COST  
RECS, WE COULD OFFSET OUR  
ENTIRE PORTFOLIO FOR ABOUT  
\$140,000.  
>> PER YEAR?  
>> PER YEAR, ANNUALLY.  
THAT WOULD BE -- THAT WOULD NOT  
BE WHAT I WOULD RECOMMEND US  
DOING.  
BAISTLES WE WOULD NOT BE --  
BASICALLY WE WOULD NOT BE  
CONTRIBUTING TO MAKE ANYTHING  
GREENER.  
WE WOULD BASICALLY BE TAKING THE  
RENEWABLE CREDITS FROM A PLACE  
IN TEXAS OR KANSAS AND TRANSFER  
IT HERE.  
WE ACTUALLY WOULDN'T BE MAKING  
AN IMPROVEMENT WHATSOEVER.

MASS CLASS 1 RECS YOU ARE QUITE  
A BIT MORE AFFORDABLE.  
THOSE GREEN E-CERTIFIED NATIONAL  
HE RECS ARE WHEN A 1/10 OF A  
PENNY.

AND THE MASS CLASS 1 RECS,  
AUTHORIZED TO HAVE THAT  
ADDITIONAL THAT WOULD BE A \$2.8  
MILLION ANNUALLY WE COULD OFFSET  
OUR IS LOAD.

ALTERNATIVELY, IF WE WANTED TO  
OFFSET OUR LOADS WITH SOLAR, WE  
HAVE DONE VERY QUICK BACK OF THE  
ENVELOPE MATH.

IT WOULD BE ABOUT IF YOU TAKE  
THE CAPACITY FACTOR, AND HOW  
MUCH ENERGY OR HOW LARGE OF  
FACILITIES WE WOULD NEED IT'S  
ABOUT 107 MEGAWATTS THAT THE  
CITY OF BOSTON WOULD NEED.

THE COST OF AN INSTALLATION AT  
CURRENT COMMERCIAL AND  
INDUSTRIAL RATES THAT WE'RE  
SEEING IN MASSACHUSETTS, THE  
COST OF THAT \$162 MILLION.

IF WE WERE TO FINANCE THAT IN  
THE CITY'S BORROWING THAT WOULD  
BE ABOUT \$9 MILLION ANNUALLY.

>> AND HAVE YOU LOOKED INTO --  
WHAT ABOUT RECS FROM NEW ENGLAND  
AND NOT MASSACHUSETTS  
SPECIFICALLY?

>> THAT'S SOMETHING I DON'T HAVE  
THE DATA ON TODAY.

BUT YES WE DO LOOK AT RECS IN  
NEW ENGLAND AS WELL.

PART OF WHAT WE DO WITH OUR  
SOLAR RECS IS MAKE SURE WE'RE ON  
TOP OF THE MARKET AND WE  
EVALUATE WHERE THE PRICES ARE,  
NOT JUST HERE IN NEW ENGLAND BUT  
ACROSS THE COUNTRY.

>> OKAY, FROM MY PERSPECTIVE THE  
BENEFIT OF DOING IT MORE LOCAL  
IS NOT ONLY THAT IT'S MORE  
VETTED ANT TRUSTED BUT WE ARE  
FEEDING THE PIPELINE FOR JOB  
CREATION AND SORT UF OTHER SIDE  
OF ECONOMIC OPPORTUNITIES  
AVAILABLE FOR OUR RESIDENTS AS  
WELL.

SO GREAT BUT THAT TWOM 8 NUMBER  
IS VERY, VERY HELPFUL.

I.S.I.L. GOING TO SHIFT FOR A

SECOND.

I'LL CONCLUDE OFTEN THIS AS SAYING, IT SEEMS LIKE TREMENDOUS POTENTIAL ESPECIALLY IF WE ARE NOT LOCKED IN FOR ANY LONG TERM IN TERMS OF WHICH ELECTRONS WE'RE USING.

SO WE'LL BE EXPLORING IT MORE. MR. CHAIR DO YOU MIND IF I TAKE ON RECYCLING NOW?

>> PLEASE.

>> CHIEF YOU SAID THE RECYCLING HAD GONE UP BY 4% SO WHAT IS IT NOW IN CITY HALL?

>> AT CITY HALL IT IS 33%.

>> WHAT IS IT?

>> 33%.

>> WHAT DOES THAT INVOLVE, PAPER FROM DOCUMENTS, BOTTLES, YOU KNOW --

>> PAPER PLASTICS AND ALUMINUM I BELIEVE, SOME METALS FOR -- PEOPLE BRING THOSE IN.

>> AND HOW ARE YOU MEASURING THAT?

WHERE DOES THAT 33% NUMBER COME FROM?

>> IT'S THROUGH TONNAGE AND WE'LL GET REPORTS ON THAT.

SO WE HAVE ABOUT 180 TONS YEAR-TO-DATE FOR FISCAL 17.

AND ABOUT 88 RECYCLING TONS.

>> AND WHAT IS THE WASTE MANAGEMENT CONTRACT SAY ABOUT RECYCLING?

IS THERE -- THERE ARE ANY RESTRICTIONS AND ARE WE PAYING, ARE WE BEING PAID?

HOW DOES THAT WORK?

>> SO IN TERMS OF THE COST THAT WE HAVE, WE'RE CERTAINLY AT A OPPORTUNITY TO SAVE WHEN WE DO MORE RECYCLING.

SO FOR THE DISPOSAL COST THAT WE HAVE FOR EACH TON OF TRASH, IT'S ABOUT \$74.

AND FOR I RECYCLING -- RECYCLING IT'S ABOUT \$5.

BOTH OF THOSE ARE PER TON.

THAT'S BASICALLY THE CEILING OF OUR RECYCLING COAST.

THOSE FLUCTUATE, BASED ON WHAT THE RECOVERY VALUE IS FOR THE -- PARTICULARLY RECENTLY WITH



PAPER.

AND THE MARKET DEMAND FOR THAT.  
AND SOMETIMES, WE CAN ACTUALLY  
RECYCLE MATERIALS AT A PROFIT.  
BUT RIGHT NOW, BASED ON WHERE  
THE DEMAND IS FOR PAPER, GLASS,  
AND SOME OF THOSE METALS AS  
WELL, WE HAVE NOT BEEN RECYCLING  
AT A PROFIT.

>> RIGHT.

SO EVEN AT A MINIMUM IT WOULD BE  
ALMOST \$70 A TON THAT WE WOULD  
BE SAVING WITH MORE RECYCLING.  
SO HOW DOES THE 88 TONS GET TO  
THE RECYCLING COMPANY?

IS IT LITERALLY WHATEVER GETS  
PUT INTO BINS AT CITY HALL OR  
DOES SOMEBODY SEPARATE OUT AT  
SOME POINT?

>> WE HAVE A SEPARATE COMPACTER,  
WE HAVE BINS AT CITY HALL AND  
THOSE ARE HAULED TO A RECYCLING  
FACILITY IN THE CITY OF BOSTON.

>> DOES EVERY DEPARTMENT HAVE  
RECYCLING BINS AVAILABLE?

>> YES, I BELIEVE THEY DO WHEN  
WE'RE ALSO WORKING, I MENTIONED  
MS. KENYA JERMAINE, ALONG WITH  
PETER AND MS. CASINO FROM  
ENVIRONMENT, WE ARE WORKING ON  
IMPROVING THE STAPLE.

WE ARE -- THE SYSTEM.

WE WILL PROCURE ADDITIONAL BINS  
AND ALSO CHANGE THE PLASTIC BAGS  
RIGHT NOW.

WE USED TO DARK BAGS AND WE'RE  
GOING TO SWITCH TO CLEAR BAGS TO  
CLEARLY DELINEATE THAT IT'S  
RECYCLING.

WE'LL PUT MORE BINS IN HIGH  
VISIBILITY AREAS, WE'RE GOING TO  
WORK ON BETTER MESSAGING TO THE  
STAFF FOR THE IMPORTANCE OF  
RECYCLING, WHAT MATERIALS CAN BE  
RECYCLED, AND ALSO, WE'RE  
CONTINUING TO WORK, WE HAVE A  
NIGHT-CLEANING CREW ON CONTRACT  
THAT COMES INTO CITY HALL,  
WORKING WITH THEM ON THE  
RECYCLING TO MAKE SURE THEY'RE  
DOING EVERYTHING THEY CAN.

>> IS THERE ANY LIMIT ON WHAT --  
IS THERE ANY CAP ON HOW MUCH  
RECYCLING TONNAGE WE CAN SEND

OVER, AND GET A PROFIT ON OR  
SAVE MONEY ON?  
OR THEY'LL TAKE WHATEVER WE'LL  
GIVE THEM?  
>> I'M NOT AWARE OF ANY CAP, NO.  
>> OKAY, SO IT'S A MATTER OF  
ASKING PEOPLE TO PUT PAPER IN  
THE RECYCLING BIN VERSUS THE  
TRASH CAN AND DEPARTMENT BY  
DEPARTMENT.  
AND WHAT ABOUT IN TERMS OF  
OUTREACH, I MEAN IT'S SORTS OF  
THIS CULTURAL SHIFT REQUIRING  
INVOLVEMENT, CHAMPIONS WITHIN  
EACH DEPARTMENT AND ON EACH  
FLOOR.  
ARE THERE OTHER EFFORTS TO KIND  
OF HAVE EVERY DEPARTMENT  
NOMINATE SOMEONE TO BE IN CHARGE  
OF THAT OR --  
>> I DON'T HAVE ALL THE DETAILS  
BUT I'M CHECK ON THAT SPECIFIC  
QUESTION AND LEGALITY YOU KNOW.  
>> TO FOLLOW UP ON THAT  
COUNCILOR WU, AS PART OF THE  
ZERO WASTE PROCESS WE HAVE BOTH  
AN EXTERNAL FACING GROUP THAT'S  
LED BY MYSELF AND CHIEF OSGOOD,  
THAT'S INCLUDING WHAT WE CAN DO  
TO HELP OUR BUSINESSES AND  
RESIDENTS IMPROVE ON RECYCLING  
AND DIVERSION RATES.  
BUT THEN WE ALSO HAVE AN  
INTERNAL GROUP WHICH IS LED BY  
SMIEF AND CHIEF BROPHY WHICH  
LEADS OPERATIONS FOR THE CITY OF  
BOSTON, THOSE FOCUSES ARE HOW WE  
IMPROVE CITY HALL AND OUR  
MUNICIPAL EFFORTS AND THERE IS A  
LARGE COMPONENT OF THAT THAT  
WILL BE BEHAVIORAL BUT WE'LL  
ALSO BE LOOKING AT OTHER POLICY  
RECOMMENDATIONS THAT WE CAN DO  
TO SEE IF THERE'S ANYTHING IN A  
COST EFFECTIVE MANNER WE CAN DO  
TO ENSURE THAT THE MATERIALS WE  
DO USE ARE RECYCLABLE SO WE CAN  
IMPROVE OUR DIVERSION RATE THERE  
AS WELL.  
>> OKAY.  
YOU SAID YEAR-TO-DATE IT'S BEEN  
180 TONS OF NONRECYCLABLE  
MATERIALS.  
WHAT DO YOU PROJECT FOR -- THIS

IS FISCAL YEAR, WE'RE ALMOST THERE.

>> CORRECT.

>> MY CALCULATIONS, LITTLE OVER \$12,000 THAT WE COULD SAVE JUST LIKE THAT IF THINGS WERE DIVERTED OVER TO RECYCLING?

>> PRETTY CLOSE.

EVEN IF WE HIT ABOUT AN 85% RECYCLING RATE THEN WE WOULD STAND TO SAVE ABOUT \$9,000.

>> OKAY, SO EACH OF THOSE BINS THAT WE'RE LOOKING TO PUT OUT IS AN INVESTMENT THAT'S GOING TO COME BACK WITH TENFOLD OR MORE RETURNS.

WHAT'S THE TIME LIKE ON THAT PROCESS?

IN TERMS OF GETTING THE BINS OUT TO HIGH VISIBILITY AREAS AND ALL OF THOSE EFFORTS?

>> WE'RE WORKING ON IT NOW, AIT'S A DETERMINATE, I DON'T HAVE THE EXACT DATE BUT WE'LL GET THAT FOR YOU.

>> OKAY I WILL TAKE A BREAK AND COME BACK FOR ROUND 2.

>> COUNCILOR ESSAIBI-GEORGE.

>> THANK YOU, CHAIRMAN AND THANK YOU ALL FOR BEING HERE AND CERTAINLY BEING I THINK THOROUGH AND IN DEPTH ON THE CONVERSATION.

CERTAINLY I THINK DICTATED WHICH THE QUESTIONS OF MY COLLEAGUES. I HAVE SOME QUESTIONS VERSUS LONG TERM GOALS VERSUS SHORT TERM GOALS.

WHAT ARE WE DOING IN THE IMMEDIATE FUTURE TO IMPROVE OUR OUTCOMES ON WHETHER IT'S THE RECYCLING, WHETHER IT'S THE ENERGY EFFICIENCY EFFORTS, JUST IN THE SHORT TERM, WHAT ARE SOME OF THE THINGS THAT WE'RE DOING?

>> YEAH SO IN THE SHORT TERM MAYOR WALSH HAS GIVEN US \$10 MILLION IN THE CAPITAL BUDGET TO FOCUS ON THE BIGGEST OPPORTUNITIES FOR ENERGY EFFICIENCY.

SO HOPEFULLY WE'LL HAVE SOME PROJECTS IDENTIFIED BY THE END OF THIS CALENDAR YEAR.

AND HOPEFULLY WE'LL MOVE INTO  
CONSTRUCTION THIS THAT IN 2018.

>> HOW ABOUT SOME SMALL DOABLE  
STEPS IN THE NEAR TERM AS  
OPPOSED TO THE BIG DOLLAR  
AMOUNTS?

SOMETIMES IT'S THE SMALL CHANGES  
THAT MAY HAVE THE GREATEST  
IMPACT ON BEHAVIOR AND THE LONG  
TERM OUTCOMES.

>> JUST BECAUSE WE'RE DOING  
THESE LARGE THINGS DOESN'T MEAN  
WE'RE NOT TAKING THE OPPORTUNITY  
TO DO THE SMALLER THINGS AS  
WELL.

IMPROVING OUR COMPUTER SYSTEMS  
AND THEIR ABILITY TO  
AUTOMATICALLY GO TO SLEEP,  
ENERGY SYSTEMS AT NIGHT, I KNOW  
AT THE PUBLIC WORKS YARD WE HAVE  
GOT QUITE A FEW LED BULBS THAT  
CAN REPLACE SOME OF THE  
FLUORESCENTS YOU SEE HERE AND AS  
THOSE GO OUT WE ARE SWAPPING  
THOSE OUT WITH LEDS AND THAT'S A  
COST SAVINGS TO THE TAXPAYER  
HERE IN THE CITY OF BOSTON.  
WE ARE CONTINUALLY HERE AND THE CITY OF  
BOSTON.

WE'RE CONTINUALLY WORKING IN THE  
COMMUNITY.

I KNOW YOU'VE COME TO QUITE A  
FEW OF OUR COFFEE HOURS THAT WE  
HAVE THROUGH MAYOR WALSH AND OUR  
PARTNERS AT EVERSOURCE HAVE BEEN  
GENEROUS TO DONATE L.E.D. BULBS  
TO OUR RESIDENTS SO THEY CAN  
INSTALL THEM IN THEIR HOMES.

I ENCOURAGE OUR RESIDENTS  
WATCHING, WHETHER IT'S MR. AND  
MRS. McCARTHY OR O'MALLEY AND  
OTHERS SO THEY CAN GO TO  
EVERSOURCE.SAVE.COM.

YOU CAN HAVE ALL THE L.E.D.S IN  
YOUR HOME REPLACED AT NO COST.  
GREAT RESOURCES THERE THAT OUR  
RESIDENCES AND BUSINESSES CAN  
USE TO TAKE ACTION RIGHT AWAY.  
SO ONE THING THAT MY DEPARTMENT  
THROUGH GREENOVATE BOSTON, WE  
HELP ALL THE RESIDENTS TO SAVE  
ON ELECTRICITY.

FOR MOTHER'S DAY, I WENT HOME  
AND REPLACED ALL OF THE LIGHT

BULBS AT MY PARENT'S PLACE WITH  
L.E.D.s.  
TAKE A LOOK AT THEIR ELECTRIC  
BILL.  
THEY SAVED 25 PERCENT OVER THREE  
WEEKS.  
THAT WAS MY MOTHER'S DAY GIFT TO  
MY PARENTS.  
FOR FATHER'S DAY, THEY GOT  
PROGRAMMABLE THERMOSTATS.  
MY MOM WAS VERY HAPPY WITH IT.  
THAT'S WHAT SHE TOLD ME.  
JUST TO FOLLOW UP ON THAT,  
THERE'S THINGS THAT WE CAN DO IN  
THE INTERIM, HOW WE CAN HELP OUR  
EMPLOYEES TO DO THAT.  
MAYBE THIS WOULD BE A GOOD  
OPPORTUNITY TO TALK ABOUT  
EDUCATING OUR STUDENTS AND HOW  
THEY CAN BE SUSTAIN ABILITY  
LEADERS AND TAKE ACTION AT HOME  
AS WELL.  
>> THANK YOU.  
ONE OF THE FIRST THINGS WE'RE  
DOING FOR THE UPCOMING ACADEMIC  
YEAR, JUST WORKING WITH OUR  
RECYCLING PROGRAM.  
EDUCATION AROUND WASTE IS  
CRITICAL TO SUCCESS.  
WE NEED FOLKS IN THE SCHOOLS WHO  
ARE HELPING TO CHAMPION THEIR  
WASTE.  
WE'LL BE RECRUITING, WHETHER  
IT'S TEACHERS, STAFF, STUDENT  
LEADERS TO TAKE ON THE ROLES AS  
RECYCLING COORDINATORS.  
THIS YEAR PART OF THE ARC  
PROGRAM IS TO HAVE A  
DISTRICTWIDE COMMITTEE.  
WE'LL BE CALLING UPON OUR  
PARTNERS THROUGHOUT THE DISTRICT  
THAT REPRESENT DIFFERENT AREAS  
LIKE FOOD SERVICES,  
TRANSPORTATION, ENERGY AND  
ENVIRONMENTAL TEAMS.  
EVEN COMMUNITY PARTNERS TO  
PARTICIPATE IN THIS COMMITTEE SO  
THAT WE CAN ALMOST LOOK AT EVERY  
SCHOOL AND SEE IF WE CAN PARTNER  
WITH THE HEALTH AND WELLNESS  
COUNCIL TO CREATE A SCHOOL-BASED  
GREEN ACTION PLAN.  
EVEN THOUGH WE'RE A DISTRICT  
WITH ONE COMMUNITY, EACH SCHOOL

HAS THEIR UNIQUE CHALLENGES AND THEIR OWN FOCUS AREAS.

WE HAVE THE BOSTON GREEN ACADEMY, WHICH IS A DIFFERENT FOCUS THAN A BOSTON LATIN SCHOOL MIGHT BE.

WORKING WITH THE COMMUNITIES TO CREATE A PLAN THAT WORKS FOR THEM.

HOPEFULLY EACH OF THOSE SCHOOL PLANS WILL ACTUALLY FUNNEL UP INTO THIS GREATER DISTRICT PLAN, WHICH OF COURSE IS TIED TO THE CITY'S CLIMATE ACTION GOALS.

WE FULLY UNDERSTAND WE'RE A MAJOR PART OF THE CITY'S CARBON FOOT PRINT BOTH IN OUR BUILDINGS AND AS CHIEF BLACK MENTIONED, TRANSPORTATION.

SO WE WANT TO MAKE SURE THAT WE'RE NOT WORKING IN A VACUUM OR SILO, THAT WE ARE FULLY CONNECTED WITH THE CITY.

>> DO WE HAVE RECYCLE BUCKETS IN OUR CLASSROOMS, ESPECIALLY FOR THE PAPER PRODUCT THAT IS WASTED EVERY DAY IN OUR SCHOOLS?

>> WE DON'T NECESSARILY HAVE THEM RIGHT THIS MOMENT IN EVERY CLASSROOM.

I THINK AT ONE POINT THAT WAS IN EXISTENCE AND WE ARE WORKING OF AGAIN REFRESHING ALL OF THAT.

ONE OF THE PLANS WE HAVE THANKS TO OUR INCREDIBLE CUSTODIAL TEAM AT BPS IS TO DO AN AUDIT OF OUR EXISTING RECYCLING EQUIPMENT.

SO THAT WE CAN KNOW WHAT WE CURRENTLY HAVE AND REPLACE WHAT MAY BE MISSING OR ADD IN AREAS THAT CLEARLY WE NEED MORE CARTS, BINS AVAILABLE IN THOSE SPACES.

>> THAT WOULD BE A GREAT SHORT TERM GOAL.

>> ABSOLUTELY.

>> I THINK EVERY SCHOOL PROBABLY DEFINITELY HAS ONE OF THE BIG BLUE BINS IN THE MAIN OFFICE OR SOME LOCATION.

WHEN I WAS IN THE CLASSROOM, I SAW -- MY COLLEAGUES WOULD HAVE A CARDBOARD BOX AS A RECYCLING BIN IN OUR CLASSROOM.

IF IT WAS IDENTIFIED AS SO, THE

CUSTODIAN STAFF WOULD COME THROUGH AND WE WOULD EMPTY THAT OURSELVES.  
THAT WOULD BE A GREAT SHORT TERM GOAL.  
EVERY CLASSROOM IN BPS HAS A BLUE RECYCLING BIN.  
I ALSO WONDER ABOUT COMPOSTING IN SCHOOL CAFETERIAS.  
THE EDUCATION ADULTS WOULD HAVE AND THE DIFFERENT TYPES OF TRASH.  
THAT LEADS ME TO THE USE OF STYROFOAM TRAYS.  
>> THEY'RE TRAYLESS FROM MY UNDERSTANDING.  
SO WE WENT AWAY FROM STYROFOAM. I'M NEW BUT IT WAS A FEW YEARS AGO.  
THAT'S SOMETHING THAT BPS IS NO LONGER DOING, STYROFOAM TRAYS.  
>> SPEAKING OF SCHOOLS AND ENERGY EFFICIENCY.  
I DON'T KNOW WHETHER IT'S AN ATTAINABLE GOAL.  
I'D LOVE TO SEE IT ACHIEVED.  
CAN WE GET THE HEAT RIGHT IN OUR SCHOOLS?  
IT'S EITHER FREEZING COLD OR UNBELIEVABLY HOT AND THE WINDOWS ARE OPEN.  
THERE'S A PARTICULAR PROBLEM IN THE COMPUTER LAB CLASSROOMS.  
THE COMPUTERS ARE GENERATING SO MUCH HEAT.  
IT'S THE MIDDLE OF WINTER, WHATEVER TIME OF YEAR IT IS AND WE HAVE TO OPEN EVERY SINGLE WINDOW.  
THEN WE HAVE WINDOWS, TOO.  
AT THE SCHOOL BUILDING AUTHORITY, WE'RE REPLACING WINDOWS.  
THEY'RE A DANGER BECAUSE THEY'RE SO HEAVY.  
THE LOCKING MECHANISMS BREAK, WE'RE JAMMING BOOKS UNDER THEM.  
WE'RE NOT ABLE TO VENTILATE CLASSROOMS IF WE NEED TO.  
I LOVE TO SEE, IF IT'S NOT A GREAT TOPIC FOR ENERGY EFFICIENCY BUT TO TALK ABOUT AIR CONDITIONING IN SOME OF OUR SCHOOLS.

THAT'S ANOTHER TOPIC.  
>> IF I MAY, COUNCILLOR.  
>> ABSOLUTELY.  
>> 120 SCHOOLS WERE ALL INCLUDED  
IN THIS REPORT.  
A VAST COMPONENT OF THE SAVINGS  
THAT WE SEE IS IMPROVING OUR  
ABILITY TO REGULATE TEMPERATURE  
IN THOSE FACILITIES.  
AS A FORMER EDUCATOR, I KNOW YOU  
KNOW IT HAS AN IMPACT ON  
STUDENTS AND THEIR OUTCOMES,  
THEIR ABILITY TO LEARN AND TAKE  
TESTS.  
FOR MANY OF THE SCHOOLS, ONE OF  
THE ISSUES IS THAT THE DUCT WORK  
ISN'T GREAT OR THEY'RE ON A  
SINGLE ZONE.  
THE TOP FLOORS ARE SUPER HOT AND  
DOWN ON THE FIRST FLOORS,  
THEY'RE SUPER COLD.  
AS YOU MENTION, ANYWHERE WE HAVE  
COMPUTERS AND THE HEAT THEY GIVE  
OFF, YOU'RE 100% ON THAT.  
THAT'S SOMETHING TO ADDRESS.  
>> WE SHOULDN'T HAVE TO OPEN OUR  
WINDOWS IN DECEMBER, JANUARY.  
>> A HUGE WASTE OF ENERGY.  
>> AND DID YOU SAY 9% OF OUR  
SCHOOL BUSES CREATE 9% OF OUR  
EMISSIONS?  
>> THAT'S RIGHT.  
>> I WANTED TO MAKE SURE I HAD  
THAT NOTE CORRECT.  
THAT'S IT.  
THANKS VERY MUCH, CHAIRMAN.  
THANKS FOR BEING HERE.  
>> THANK YOU, COUNCILLOR  
ESSAIBI-GEORGE.  
JUST A COUPLE FOLLOW UPS.  
SO THE 33% RECYCLING RATE AT  
CITY HALL, IS THAT WASTE OR 33%  
PARTICIPATE RAISE?  
>> 33% OF OUR WASTE IS RECYCLED.  
>> WHAT IS THE CITY AVERAGE?  
>> IT FLUCTUATES BUT FLUCTUATES  
BETWEEN 18 AND 22%, WHICH IS  
WHAT IT'S BEEN FOR A WHILE.  
AN OPPORTUNITY FOR US TO DO A  
LOT BETTER.  
>> AND HOW MUCH OF OUR WASTE IS  
ABLE TO BE RECYCLED?  
>> A MUCH GREATER PROPORTION  
THAN THAT.



A BIG PROPORTION OF THE OPPORTUNITY, AS COUNCILLOR GEORGE PUT FORWARD, IS ORGANICS IN OUR WASTE STREAM. I'M TALKING GLOBALLY HERE FOR THE CITY. WE ALSO ARE SEEING QUITE A BIT OF WASTE IN OUR WASTE STREAM THAT SHOULDN'T BE THERE. A RECENT AUDIT SHOWED THAT 25% OF OUR WASTE STREAM WAS CONSTRUCTION WASTE, WHICH SHOULD BE BANNED. THERE'S SOME WORK -- >> 25% IN THE CITY IS CONSTRUCTION WASTE? >> THAT'S RIGHT. >> ORGANICS, I'M WITH YOU. I'VE BEEN CALLING FOR A CURB SIDE COMPOST PROGRAM SINCE 20 WITH UN-1. CAMBRIDGE HAS DONE THIS WELL. A PILOT PROGRAM. COMPOSTING STILL GENERATES REVENUE. RECYCLING DOESN'T. YOUR WAIST DOESN'T. CURB COMPOSTING DOES GENERATE REVENUE. THAT'S SOMETHING THAT WE NEED TO BE DOING AT OUR SCHOOLS. THIS ISN'T AN INDICTMENT ON YOU. BUT WITH THE NUMBER OF FOOD WASTE AT OUR SCHOOLS, MANY, MANY CHILDREN ARE RECEIVING AT LEAST TWO MEALS A DAY AT BPS. THAT'S ONE WAY THAT WE CAN -- WE DON'T NEED AND AUDIT. WE NEED TO DO THAT IN SEPTEMBER. SIMILARLY WITH THE -- HAVING A RECYCLE BIN IN EVERY CLASSROOM. I JUST -- I HAVE HEARD THAT BEFORE FROM PEOPLE, EDUCATORS. IT SEEMS TO ME THAT WE'RE -- WE KNOW -- AGAIN, I DON'T MEAN THIS -- TO SOUND ADVERSARIAL BECAUSE I APPRECIATE WHAT YOU'RE DOING AND WE NEED TO TAKE A HOLISTIC APPROACH, BUT THERE'S CERTAIN LITTLE THINGS THAT WE CAN DO THAT WILL HAVE AN IMMEDIATE IMPACT. I'M HOPEFUL THAT WE CAN GET TO THAT.

WHAT DO WE NEED TO SEE EVERY  
CLASSROOM IN BOSTON HAVE A  
RECYCLE BIN FOR SEPTEMBER?

>> I CAN GET BACK TO YOU ON  
THAT.

THAT IS A GOAL OF OURS, IS TO  
MAKE SURE THAT EVERY SCHOOL HAS  
THE APPROPRIATE AMOUNT OF  
INFRASTRUCTURE IN PLACE TO HAVE  
A SUCCESSFUL RECYCLING RATE AND  
TO UP THE RECYCLING RATES AND  
LESSEN THE LANDFILL RATES.

>> GREAT.

I SEE THIS AS, YOU KNOW, IF  
THERE WAS A SCHOOL WHERE -- IF  
THERE WAS A CLASSROOM WHERE THE  
TEACHER DIDN'T HAVE A CHAIR, WE  
CAN GET THAT CHAIR IMMEDIATELY.  
SIMILARLY WITH THESE BINS.

SO I WILL CONTINUE TO PUSH.

I SAY THIS RESPECTFULLY.

BUT AS A FIRM REQUEST AT A  
MINIMUM, I KNOW THE COMPOSTING  
IS A LARGER CONVERSATION.

GOING TO PUSH THAT IN BPS.

BUT AT A ABSOLUTE MINIMUM, I  
WANT EVERY CLASSROOM IN THE  
BOSTON PUBLIC SCHOOLS BUT THE  
FIRST WEEK OF SEPTEMBER,  
WHATEVER THE DATE IS, SEPTEMBER  
7 OR 8, HAVE A RECYCLE BIN.  
I THINK THE IMPACT WOULD BE  
SIGNIFICANT.

AGAIN, SAVES US MONEY.

THE IDEA OF DOING AN ON-SITE  
SOLAR, 107 MEG WATTS OF  
ELECTRICITY, \$162 MILLION  
FINANCED OVER \$9 MILLION, I  
THINK WE SHOULD BE DOING THAT.  
IN A \$3 BILLION BUDGET WILL SAVE  
MONEY.

I APPRECIATE THOSE FIGURES.  
I'M CRAFTING ANOTHER HEARING IN  
MY HEAD IN HOW WE GET TO ALL  
ON-SITE SOLAR IN THE CITY.  
RECYCLING IN EVERY CLASSROOM IN  
BOSTON.

SIMILARLY, WE NEED TO DO  
SOMETHING IN THIS BUILDING TO  
GET THAT RATE UP.

WE NEED TO HAVE FRANK  
CONVERSATIONS WITH PEOPLE.

I DON'T KNOW MAYBE EVERY  
DIVISION, YOU KNOW, GET A

RECYCLING CAPTAIN, JUST  
SOMETHING TO GET THOSE THINGS  
UP.

I THINK IT'S EMBARRASSING, QUITE  
FRANKLY, THAT THE RATE IS THAT  
LOW AND WE'RE TRYING TO LEAD.  
THOSE ARE QUESTIONS AS MUCH AS  
REQUESTS FOR NOW.

THAT'S ALL I HAVE.

COUNCILLOR McCARTHY.

>> THANKS VERY MUCH.

I HAD WRITTEN THAT NUMBER DOWN,  
9% THAT COUNCILLOR  
ESSAIBI-GEORGE MENTIONED  
REGARDING SCHOOL BUSES.

I'VE NOT BEEN A BIG FAN OF BPS  
TRANSPORTATION SINCE I GOT HERE.  
I WASN'T A FAN WHEN I WASN'T  
HERE.

WE CONSISTENTLY SEE BUSES  
ROLLING THROUGH THE CITY 44  
SEATS WITH THREE OR FOUR KIDS.  
WE'RE EXPLAINING THAT WELL, THEY  
HAVE TO DROP KIDS OFF.

I'VE HEARD ALL OF IT.

THE ONE THING THAT I TALKED  
ABOUT, IF YOU'RE GOING TO PUT  
EIGHT KIDS ON A SCHOOL BUS OR  
FOUR KIDS ON A SCHOOL BUS, WHY  
DON'T WE GO TO VANS?

SWITCH OVER TO VANS.

LESS ON FUEL, LESS IMPACT ON THE  
ENVIRONMENT.

LESS IMPACT ON TRAFFIC.

I WOULD ARGUE SAFER FOR THE  
KIDS.

PROBABLY SAFER FOR THE DRIVER AS  
WELL.

IF I CAN'T GO THERE BPS TO GET  
SOME CHANGES, MAYBE WE'LL TAKE  
THE ENVIRONMENTAL ROUTE AND SEED  
IF WE CAN GET SOME CHANGES.

I KNOW THAT'S ONE OF MY BIGGEST  
COMPLAINTS THAT I RECEIVE AND  
I'M SURE MY COLLEAGUES WILL  
ECHO.

PEOPLE GET FRUSTRATED WHEN  
YOU'RE ON A BUS WITH THREE KIDS  
WITH IT AND IT'S TAKING UP 50  
FEET.

I DON'T KNOW WHAT THE ANSWER  
THERE IS.

IT'S MORE OF A STATEMENT THAN A  
QUESTION, I GUESS.

I CERTAINLY WOULD LIKE TO SEE US GOING IN THAT DIRECTION. ONE, 300 OF THOSE BUSES ARE IN MY SECTION, WHICH I'M NOT APPRECIATIVE OF.

IT WOULD BE MUCH BETTER ON THOSE THREE FACETS, RIGHT?

>> THERE'S A FEW THINGS THAT WE'VE DONE TO LOOK AT THIS. THERE'S OPPORTUNITIES THAT WE'VE TAKEN TO DO SOME SMALL PILOTS.

I'M FORGETTING THE NUMBER OF PROPANE BUSES THAT WE USE WHICH ARE LOWER EMISSIONS.

WE'VE LOOKED AT SOME RETRO-FITS IN CREATING -- TAKING THE BUSES AND PUTTING THEM ON AN ELECTRIC HYBRID SYSTEM.

SO THERE'S OPPORTUNITIES THERE AS WELL.

BUT YOUR POINT IS WELL-TAKEN, COUNCILLOR, IN TERMS OF THE UTILIZATION OF VEHICLES.

IT'S A CHALLENGE ACROSS OUR ENTIRE FLEET TO GIVE A LOT OF CREDIT TO PUBLIC WORKS.

IF YOU LOOK AT FLEETS ACROSS THE NATION AND WHAT THEY HAVE DONE, WHETHER IT'S THROUGH FLEET HUB OR OTHERWISE TO IMPROVE UTILIZATION RATES AND MAKE SURE WE'RE NOT MAINTAINING AND PUTTING FUEL IN VEHICLES THAT AREN'T BEING USED.

THEY ARE WORLD CLASS.

84 POINT IS WELL-TAKEN ON THE UTILIZATION OF THE BUS FLEET.

>> I WAS VERY HAPPY TO BE ON THAT TEAM.

WE TOOK THE ZIP CAR TECHNOLOGY AND, YOU KNOW, I THINK WE SURPLUSSED 54 VEHICLES OUT OF THE GATE.

NOW YOU SEE THEM IN CITY PARKING AREAS THAT ARE BEING USED.

SO PEOPLE WATCHING, DAD AND MRS. O'MALLEY, THAT PEOPLE SHARE THOSE VEHICLES SO THEY'RE NOT ASSIGNED.

WHEN YOU HAVE CARPOOLING, IT SAVES A TON OF MONEY.

THANKS.

>> COUNCILLOR WU.

>> THANK YOU.

SORRY.

JUST TO GO BACK FOR ONE  
CLARIFYING QUESTION ON THE  
RECYCLING.

THE 180 TIMES IN 88 RECYCLING  
TIMES, THAT'S FOR ALL STILL  
BUILDINGS OR CITY HALL?

>> CITY HALL.

>> OKAY.

ARE THE OTHER BUILDINGS ON THE  
SAME WASTE MANAGEMENT CONTRACT  
OR DO THEY DO THEIR OWN OR --

>> I BELIEVE SO.

THEY'RE ON THE SAME HAULING  
CONTRACT.

YES.

THEY'RE ON THE SAME DISPOSAL AND  
RECYCLING CONTRACTS.

>> YOU THINK -- I GUESS THE  
SCHOOLS ARE DIFFERENT IN TERMS  
OF THE ORGANIC WASTE COMPONENT.  
WOULD YOU SAY THAT 33% RATE IS  
PROBABLY SIMILAR ACROSS THE  
OTHER BUILDINGS AS WELL?

>> I'LL HAVE TO GET BACK TO YOU  
ON THAT.

MY GUESS IS WE HAVE A DECENT  
NUMBER OF RECYCLING BINS IN CITY  
HALL COMPARED TO MANY OF OUR  
OTHER FACILITIES.

I'D GUESS WE'RE AHEAD OF THE  
CURVE.

I'D HAVE TO GET BACK TO YOU ON  
THAT.

>> THAT \$12,000 POTENTIAL IN  
YOUR COST SAVINGS IS JUST FOR  
CITY HALL.

THERE'S 319 OTHER BUILDINGS THAT  
THAT CAN BE EXPANDED UPON.

CAN YOU TALK ABOUT HEATING AND  
SCHOOL SOMETHING YOU SAID IT'S  
64% OF MUNITIONS.

THE PLAN ARE TO USE THE NEW  
BOSTON TRUST.

SO CITY HALL, ARE WE DOING STEAM  
AT ALL?

>> I'LL START OUT WITH THIS AND  
DEFER TO MY COLLEAGUE.

FOR CITY HALL, WE ARE STILL ON  
STEAM.

SO THE STEAM THAT IS PRODUCED IS  
ACTUALLY A WASTE PRODUCT.

SO WE'RE ACTUALLY DOING  
SOMETHING RESPONSIBLE THERE.

THERE'S -- OUR PROVIDER HAS A  
COMBINED HEAT AND POWER PLANT  
THAT THEY OPERATE TO PRODUCE  
ELECTRICITY.  
WHEN THEY CREATE THAT  
ELECTRICITY, THEY ALSO PRODUCE  
STEAM AS A BYPRODUCT.  
THAT IS PIPED THROUGH A SERIES  
OF INFRASTRUCTURE INTO CITY HALL  
WHERE IT'S EXCHANGED IN OUR  
FACILITY TO HEAT THE BUILDING.  
AT ONE POINT WE USED TECHNOLOGY  
CALLED AN ABSORPTION CHILLER.  
THAT'S SOMETHING THAT WE HAVE  
MOVED AWAY FROM.

>> TOO EXPENSIVE OR --  
>> EXPENSIVE TO MAINTAIN THAT  
EQUIPMENT.  
>> OKAY.

WHAT OPPORTUNITIES DO YOU SEE  
WITHIN THIS TO IMPROVE FOR  
EMISSIONS SAKE ON CITY HALL FOR  
HEATING AND COOL SOMETHING.  
>> THE THERMAL AT CITY HALL IS A  
BIG OPPORTUNITY.

WE HAVE THE COURT YARD  
STRUCTURE, WHICH MAKES IT A BIT  
OF A CHALLENGE.  
WE HAVE MORE EXTERIOR AREA THAN  
A TYPICAL BUILDING WOULD HAVE.  
SO THAT MEANS THAT THE WINDOWS  
THAT WE HAVE AND GETTING THEM TO  
DOUBLE PANES IS A LARGE  
OPPORTUNITY.

SOME OF THE LOCATIONS IN CITY  
HALL, IF WE DID HAVE THE  
OPPORTUNITY TO PROVIDE A BETTER  
THERMAL BARRIER OTHER THAN THE  
CONCRETE, THERE'S CHALLENGES  
AROUND THAT.

THAT'S AN OPPORTUNITY AS WELL.  
COMMISSIONER, YOU WANT TO ADD  
ANYTHING?

>> THANK YOU.

WE WORK WITH THE BUDGET OFFICE  
AND CAPITAL CONSTRUCTION  
PROGRAM.

WE'RE CONTINUOUSLY UPGRADING  
COOLING EQUIPMENT, CHILDERS,  
COOLING TOWERS AND BOILERS.  
ALSO ONE FACTOR THAT HAS HELPED  
OUT IS OVER THE LAST TWO YEARS,  
THE DEPARTMENT OF RENOVATION AND  
TECHNOLOGY IS MOVING SOME OF THE

SERVER EQUIPMENT OFFSIDE.  
THAT'S GOES TO HELP SAVE US  
MONEY.  
BECAUSE THAT IS AN ENORMOUS NEED  
TO COOL THE SERVER EQUIPMENT IN  
THE BASEMENT.  
COUNCILLOR, IF I COULD JUST GO  
BACK.  
I WAS PROVIDED WITH SOME UPDATED  
INFORMATION.  
YOU ASKED ABOUT WHEN WE WERE  
GOING TO START THE NEW PROGRAM  
WITH THE LINERS.  
IT'S GOING TO BE JULY 6.  
AND WE HAVE IDENTIFIED RECYCLING  
MONITORS IN EACH DEPARTMENT IN  
CITY HALL.  
I DON'T CURRENTLY HAVE A LIST.  
WE CAN GET ONE.  
>> WONDERFUL.  
THANK YOU.  
AND SO WHAT ABOUT NONCITY HALL  
BUILDINGS AND HEATING WITH STEAM  
VERSUS GAS?  
>> THE NONCITY HALL BUILDINGS,  
IT'S SOMETHING THAT WE HAVE  
LOOKED AT.  
THE LIBRARY ALSO OPERATES ON  
STEAM.  
OUR OPPORTUNITIES TO USE THAT  
ARE A LITTLE DICTATED BY WHERE  
THE INFRASTRUCTURE IS AND HOW  
EASY OR COSTS ASSOCIATED WITH  
CONNECTING NEW BUILDINGS INTO  
THE TECHNOLOGY.  
CERTAINLY SOMETHING THAT WE WANT  
TO CONTINUE TO LOOK AT.  
NONCITY HALL BUILDINGS ARE --  
THE WAY WE HEAT THEM VARIES,  
WHETHER IT'S FROM USING NATURAL  
GAS OR OTHER FORMS OF FUEL TO  
HEAT THOSE BUILDINGS.  
IT'S SOMETHING THAT WE CERTAINLY  
WILL BE TAKING A LOOK AT AS PART  
OF RENEW BOSTON TRUST AND  
WHETHER THERE ARE OPPORTUNITIES  
TO LIMIT -- TO DOWN SIZE THE  
EQUIPMENT WITH NEW, MORE  
EFFICIENT EQUIPMENT, IMPROVE THE  
THERMAL ENVELOPES.  
I SHOULD HAVE MENTIONED FOR CITY  
HALL AS WELL, WE HAVE  
FLUORESCENT LIGHTING THAT IS  
GREAT --

>> IT WILL BE DIFFERENT AT THE  
CHAMBER RENOVATIONS.  
>> MORE OPPORTUNITIES TO IMPROVE  
LIGHTING HERE AS WELL.  
>> SO HEATING, COOLING,  
LIGHTING.  
WATER MANAGEMENT.  
WHAT HAPPENS NOW AND WHAT ARE  
YOU LOOKING AT?  
>> WATER MANAGEMENT, AGAIN,  
RENEW BOSTON TRUST, SOMETHING  
THEY'RE LOOKING AT IN TERMS OF  
THE FIXTURES THAT THEY CAN USE  
IN OUR REST ROOMS.  
THEY'RE EVALUATING OUR -- THE  
INFRASTRUCTURE THAT WE HAVE FOR  
KEEPING OUR WATER IN THE  
BUILDINGS AS WELL.  
WHETHER THERE'S ANY EFFICIENCY  
THERE.  
PARTICULARLY FOR OUR BUILDINGS,  
THE BATHROOM FIXTURES ARE THE  
LARGEST OPPORTUNITY ACROSS THE  
PORTFOLIO.  
>> AND WE TALKED A LOT ABOUT  
GREEN ROOF ALREADY IN THIS  
BUILDING.  
THE ONLY THING I WOULD ADD TO  
THAT IS STRUCTURALLY TOTALLY  
UNDERSTAND THE WEIGHT ISSUES.  
WHAT ABOUT SETTING UP CATCHMENT  
INFRASTRUCTURE SO THE WATER  
COMES DOWN AND YOU CAN PUT THE  
RAIN GARDEN ON THE PLAZA AND  
HAVE A MUCH MORE PLEASANT  
EXPERIENCE ANYWAY.  
>> CERTAINLY AN OPPORTUNITY.  
THAT'S SOMETHING THAT WE'LL BE  
LOOKING AT.  
WHETHER IT'S SOMETHING LIKE THAT  
OR POTENTIALLY SOMETHING MORE  
INVOLVED.  
RAIN WATER MANAGEMENT, GRAY  
WATER MANAGEMENT.  
OBVIOUSLY, WHATEVER WE DO HAS TO  
BE COST-EFFECTIVE.  
WE HAVE TO HAVE THE SAVINGS PAY  
FOR THE ULTIMATE CORRECTION.  
THOSE ARE ALL OPPORTUNITIES THAT  
WE WANT TO MAKE SURE WE  
UNDERSTAND.  
MAKE A VERY RATIONALE DECISION  
IN TERMS OF WHAT WE IMPLEMENT.  
>> AN FINALLY ON THE FLEET.



ARE WE LOOKING AT ELECTRIC  
VEHICLES, HYBRID?  
WHAT IS THE CURRENT STATE OF HOW  
MANY VEHICLES ARE GAS ONLY  
VERSUS NOT?

>> I DON'T HAVE THE EXACT  
NUMBERS FOR YOU ON THE FLEET.  
YES, THE SHORT ANSWER IS WE'RE  
CONTINUING TO LOOK AT  
OPPORTUNITIES TO INCREASE THE  
NUMBER OF HYBRIDS OR FULLY  
ELECTRIC VEHICLES THAT ARE IN  
OUR FLEET.

MAYOR WALSH IS PART OF THE  
CLIMATE GROUP THAT WE HAD IN MY  
OPENING STATEMENT.

WE SUBMITTED THE DATA ON THE  
NUMBER OF VEHICLES WE HAD IN OUR  
FLEET THAT COULD BE ELECTRIFIED  
AS WELL AS CURRENT PRODUCTS AND  
THE VEHICLES THAT WE HOPE ONE  
DAY THAT THERE WILL BE THAT  
TECHNOLOGY TO BE ELECTRIFIED.  
NEED TO DEMONSTRATE TO THE  
AUTOMAKERS THAT THERE'S A MARKET  
IN THE U.S.

MANY OF THEM AFTER PRESIDENTIAL  
ELECTION WERE SEEING THAT IT WAS  
DIFFICULT TO JUSTIFY PRODUCING  
THESE ELECTRIC VEHICLES BECAUSE  
THE MARKET DEMAND WASN'T THERE.  
SO THE ACTION THAT MAJOR WALSH  
TOOK ALONGSIDE -- I THINK IT WAS  
OVER 50 MAYORS ACROSS THE  
NATION, TO DEMONSTRATE WITH  
THOSE MUNICIPAL FLEETS, THERE  
WAS OVER 100,000 VEHICLES WORTH  
OF DEMAND JUST FROM THOSE  
MUNICIPALITIES LET ALONE ANYONE  
WHO -- WHETHER IT'S MY SELF OR  
COUNCILLOR O'MALLEY THAT WANTED  
TO APPROACH AN ELECTRIC VEHICLE.  
WITH THAT BASIS, SHOULD BE  
ENOUGH TO JUSTIFIED THE FACILITY  
FOR THE EQUIPMENT MANUFACTURERS.  
THERE'S BEEN SUBSTANTIAL EFFORTS  
WITHIN THE COMMONWEALTH NOT ONLY  
TO MAKE THOSE ELECTRIC VEHICLES  
AVAILABLE AND MORE ACCESSIBLE  
BUT TO IDENTIFY INCENTIVES.  
THERE'S FEDERAL INCENT TIES  
AVAILABLE AND SOME AVAILABLE AT  
OTHER LEVELS AS WELL.  
WE ALWAYS TRY TO MAKE SURE THAT

WE PUBLICIZE THOSE AS BEST WE CAN.

>> HAVE YOU DONE THE CALCULATIONS OR WHAT WE WOULD SAVE PER VEHICLE IN FUEL COSTS?

>> NOT PER VEHICLE.

BECAUSE WE DO HAVITE -- HAVE QUITE A FEW DIDN'T VEHICLE.

IT'S THE FUEL SAVINGS.

EVERY COMMISSIONER WAS MENTIONING, SIMILAR TO L.E.D.s, QUITE A BIT COMES FROM THE LABOR AND THE MAINTENANCE.

ELECTRIC VEHICLES, SINCE YOU'RE NOT DEALING WITH A COMBUSTION ENGINE AND NOT DEALING WITH THINGS LIKE CARBURETORS AND THINGS LIKE THAT, THERE'S QUITE A BIT LESS MAINTENANCE THAT IS INVOLVED.

SO YOU ACTUALLY END UP SAVING ON THE LABOR COSTS AS WELL.

OBVIOUSLY, THERE'S UP-FRONT INVESTMENTS TO DEPLOY ELECTRIC VEHICLES, WHETHER IT'S CHARGING STATIONS OR OTHERWISE.

SIMILARLY WITH PROPANE VEHICLES OR OTHER ALTERNATIVE VEHICLES, YOU HAVE RETRO-FITS.

THE PAY BACKS ARE DEPENDENT ON WHAT THE INCENTIVES ARE THAT ARE AVAILABLE.

BUT THAT'S WORTH IT.

OUR FLEET GROUP DOES, AS THEY'RE LOOKING AT IMPROVING AND REPLACING VEHICLES COMING OUT OF OUR FLEET.

>> GREAT.

OKAY.

SO AFTER ALL THIS, I HAVE THREE FOLLOW UP ITEMS I'LL WAIT TO HEAR BACK FROM YOU ON.

ON THE FLEET, WHAT PERCENTAGE OF HYBRID OR IF WE HAVE FULL EVs VERSUS CHRISTMAS AND THE COST DIFFERENTIAL.

AND ON RECYCLING WHAT IS THE TONNAGE ACROSS THE ENTIRE PORTFOLIO.

AND THIRD ON PROCUREMENT, IF YOU CAN GET THE NUMBER ON WHAT THE COST WOULD BE TO SHIP TO 60% WITHIN NEW ENGLAND AND MASSACHUSETTS.

CURIOUS WHAT THE NUMBER IS.  
IT WOULD BE LESS THAN 2.8  
MILLION PER YEAR AND THE  
CONTRACT CONSIDERATIONS TO MAKE  
THAT SHIFT BEFORE 2019.

THANK YOU.

>> THANK YOU, MADAM PRESIDENT.  
COUNCILLOR ESSAIBI-GEORGE.

>> ONE QUESTION ABOUT WE HAVE  
OUTSIDE FOLKS DOING THE SPECIAL  
EVENT ON CITY HALL PLAZA OR IN  
CITY HALL, ANY OF OUR BUILDINGS.  
DO WE TALK TO THEM ABOUT WHETHER  
IT'S -- THEIR ENERGY PLAN OR  
THEIR RECYCLING PLAN FOR THAT  
EVENT?

>> NOT YET.

IT'S SOMETHING THAT I HOPE  
WE'LL -- THAT WILL BE ONE OF THE  
RECOMMENDATIONS WE'LL HAVE  
COMING OUT OF THE ZERO WASTE  
PLANT.

>> THAT WAS MY ONLY QUESTION.  
I'M GOOD.

THANK YOU.

>> I APPRECIATE YOUR QUESTIONS.  
YEAH, JUST TO ECHO -- TO -- I  
TOO WOULD BE INTERESTED IN THE  
TOTAL CITY VEHICLE FUEL COSTS  
ACROSS THE BOARD IN ADDITION.  
THE WEAR AND TEAR IS ADDED TO  
THAT.

A VERY VALID POINT.

JUST WHAT WE'RE SPENDING THERE.  
I THINK I AM -- I'M NOT A  
LAWYER.

MANY LAWYERS ASK THE QUESTION  
THAT YOU KNOW THE ANSWER TO.  
I'M FAIRLY CONFIDENT THAT THE  
PRICE DIFFERENTIAL IN AN  
ELECTRONIC OR HYBRID VEHICLE  
WOULD BE OFFSET BY THE SAVINGS  
IN FUEL COSTS.

WE'RE TALKING ABOUT LARGE  
NUMBERS OF FLEET.

MRS. WALSH, IT WOULD BE GREAT IF  
I CAN GET ASSURANCES AFTER THE  
FACT AS WE GET INTO SEPTEMBER,  
WE'LL HAVE RECYCLING BINS IN  
EVERY CLASSROOM IN BOSTON.

DO WE HAVE -- ANY PUBLIC  
TESTIMONY?

ANYONE SIGNED UP?

ANYONE THAT WANTS TO ADD THEIR

VOICE?

I ALSO WANTED TO PARAPHRASE A LETTER FROM MARK GREEN, THE DIRECTOR OF FACILITIES MANAGEMENT.

IT READS "ON BEHALF OF BPD, I APPRECIATE THE OPPORTUNITY TO REATE THE STEPS THE DEPARTMENT HAS.

THANK YOU, MAYOR WALSH, YOUR EFFORTS TO REDUCE CARBON FOOTPRINTS THROUGHOUT THE STAY. THE DEPARTMENT HAS TAKEN EVERY OPPORTUNITY TO INCORPORATE SUSTAINABLE PRODUCTS.

WE HAVE ATTAINED LEAD GOAL STATUS THAT INCLUDES A VEGETATIVE ROAD AND L.E.D. LIGHTING THROUGHOUT AND DISTRICT A-15, WE INCORPORATED L.E.D. LIGHTING.

WE HAVE PARTNERED WITH NSTA TO INSTALL L.E.D. LIGHTING THROUGHOUT THE BUILDING. WE'VE INSTALLED MECHANICAL SYSTEMS FOR ENERGY SAVINGS. AT PRESENT, WE ESTIMATE 95% OF OUR OUTSIDE LIGHTING IS L.E.D. AND 50% INSIDE HAS BEEN UPGRADED TO L.E.D.

WE HAVE ASSESSED VARIOUS OPPORTUNITIES FOR THE BOSTON TRUST PROGRAM.

SO THAT IS -- WE APPRECIATE THE WRITTEN TESTIMONY FROM THE BOSTON POLICE DEPARTMENT.

I DON'T HAVE ANY FURTHER QUESTIONS.

I DON'T THINK MY COLLEAGUES DO AS WELL.

THERE'S NO PUBLIC TESTIMONY. THANK YOU FOR YOUR TIME THIS AFTERNOON.

WE APPRECIATE IT.

THIS HEARING IS HEREBY ADJOURNED.

>> THANK YOU.