



# City of Manchester

*Sustainability Initiatives*

*January 2020*



## **Department of Public Works (DPW)**

- ✓ City Schools recognized as 8<sup>th</sup> in US DOE “Challenge Partner with Greatest Energy Savings” (2017)
- ✓ \$6.6 Million investment in Energy Efficiency in past year (ongoing)
- ✓ 42% Energy reduction in schools since 2009 (FY19 Data)
- ✓ LED Streetlighting Conversion-9,000 Units City wide resulting in 60% Energy Savings
- ✓ 17 of 22 Schools Energy Star Certified
- ✓ Better Buildings Challenge participant through US DOE for all City and School Buildings
- ✓ Roadways-Cold In Place Recycling-100% Recycled Material in Roadway Rehabilitation
- ✓ Green Snow Pro Certified Operators-All plow drivers trained on proper salt application techniques
- ✓ Large scale Solar development underway at closed landfill
- ✓ Major City Park being converted to full organic treatments
- ✓ City and School buildings upgraded or being upgraded to high efficiency condensing boilers, LED lighting, Energy Recovery Ventilation
- ✓ Investing in Building Automation Analytics to optimize building performance and efficiency



## **DPW-Environmental Protection Division**

- ✓ Resource Recovery Facility
- ✓ Ash byproduct recycled as road base and landfill cover
- ✓ Effluent discharge used by AES energy plant for cooling
- ✓ Treatment byproduct incinerated rather than landfilled
- ✓ Incinerator heat recuperated for process and building conditioning
- ✓ Recently completed conversion of fire tube boilers to high efficiency condensing boilers
- ✓ 18% energy reduction over past 6 years
- ✓ 2015 "Regional Industrial Pretreatment Program Excellence Award" by the US EPA
- ✓ Urban pond restoration program ongoing since 1998

## **Manchester Water Works**

- ✓ 11<sup>th</sup> utility in nation to achieve US EPA "Excellence in Water Treatment Award" (2012-present)
- ✓ 160,000 Customers and 8,000 acre watershed
- ✓ Practices sustainable forest management
- ✓ Hydroelectric generator in use since 1918
- ✓ Demand response participation to aid electricity grid and ISO-NE

## **NH Fisher Cats**

- ✓ First professional baseball field to become completely organic
- ✓ Owned by the City of Manchester
- ✓ Elimination of fertilizer and pesticides
- ✓ 50% reduction in water usage

## **Manchester Transit Authority**

- ✓ 80 school buses running on bio-diesel
- ✓ Current propane conversion ongoing
- ✓ Operates “Green Dash” hybrid bus running daily throughout downtown area