# MassMutual Financial Group Springfield, MA

**Sustainability Program** 

- Electric Vehicles Charging Program



## MassMutual's Sustainability Program

# The Three Pillars of MassMutual's Sustainability Program

- Conservation
- Sustainable Operations (LEED-EB)
- Renewable Energy (solar)

## MassMutual Sustainability Program Highlights

#### **Conservation**

- "The greenest energy is the one you never use"
- Use and promote EnergyStar-rated equipment
- Energy, building automation and lighting programs
- Smart building technologies and controls

## MassMutual Sustainability Program Highlights

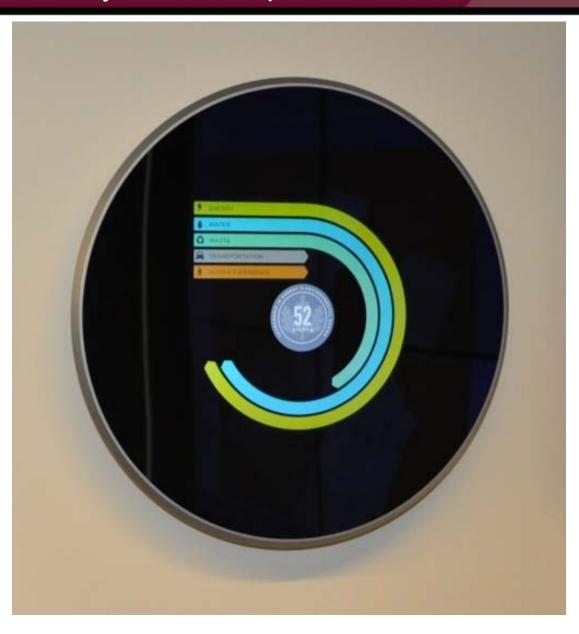
#### **Sustainable Operations**

- Leadership in Energy and Engineering Design for existing buildings
  - Silver Designation 2011
  - Gold Designation 2016
- EnergyStar rating of 91
- Low VOC paint, cleaning products, recycling, etc.
- Support employee transportation
  - Promote employee EV use
  - Switched from electric scooters to tricycles
  - Vanpool, commuter, carpool programs

# 2011 USGBC Plaque - Silver



# 2016 USGBC Dynamic Plaque - Gold



## 2016 USGBC Dynamic Plaque - Gold

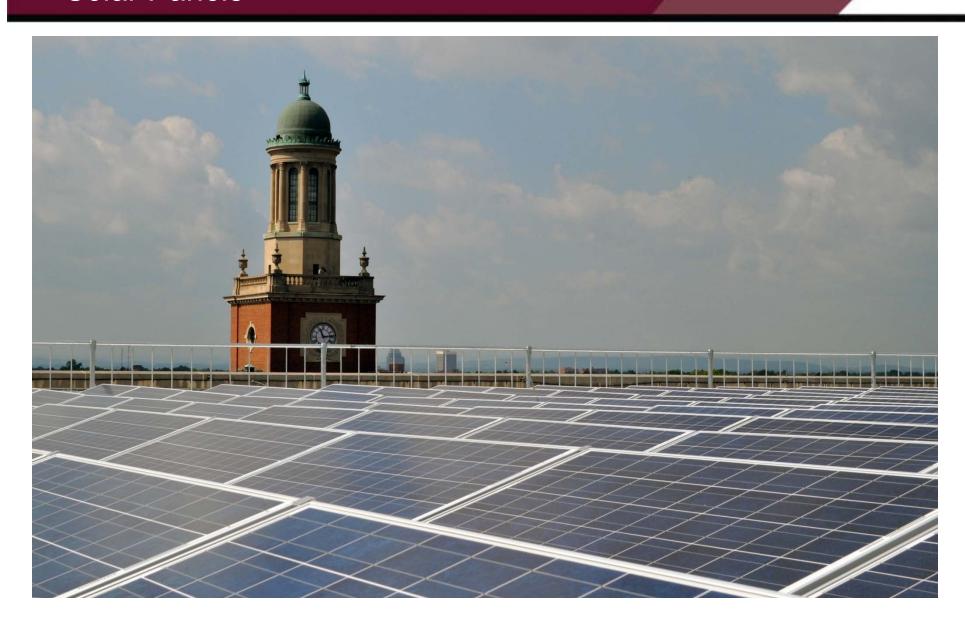


## MassMutual Sustainability Program Highlights

#### **Renewable Energy**

- 3.5 acre solar array on the roof of the main building
- Contains over 1,700 panels
- Reduces carbon emissions by 4,100 tons
- Generates over 425,000 kW per year
- Offset \$325,000 per year in expense
- Greater employee engagement
- Increased brand/reputational benefit

# Solar Panels



# Campus Solar



#### Solar Dashboard



#### MassMutual - 356.65 kW: Solar

System Size: 356.65 kW DC Generating Since: August 4, 2010 Last Updated: 9:00am Feb 15, 2017









149,413
Gallons of Gas Saved

### Electric Vehicle Chargers

#### **EV Chargers**

- Program began in 20xx and continues today
  - "If you build it, he will come" *Field of Dreams*
- 64 total chargers between 3 local campuses the Springfield, Mass. area
  - EV parking designated for 1% of total parking spaces
  - 100 (1.5%) spaces ready for EV charger installation
  - 400 (6%) spaces prewired and ready for EV charger installation

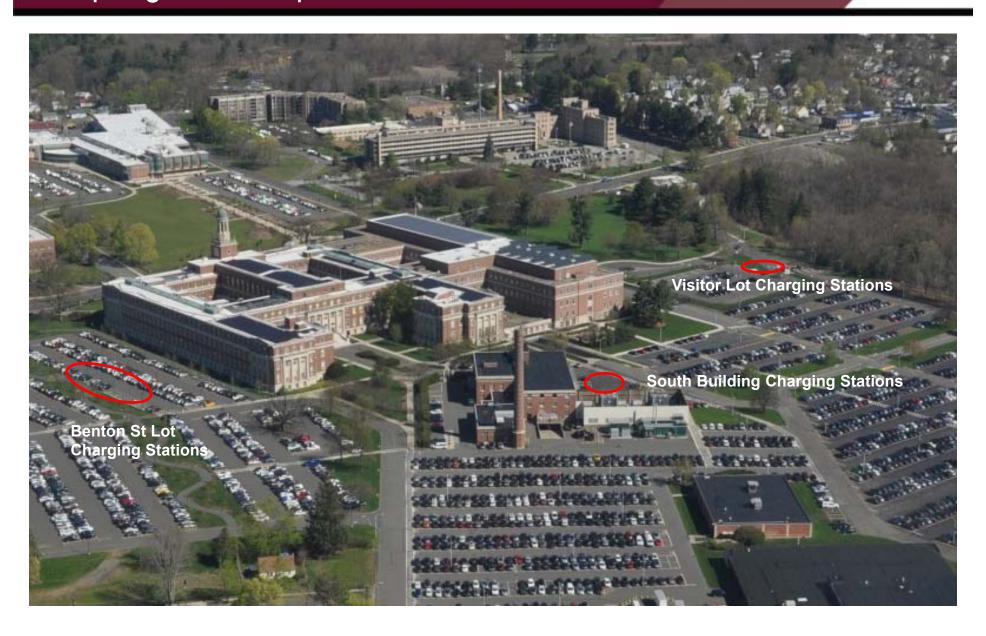
# Charger Locations



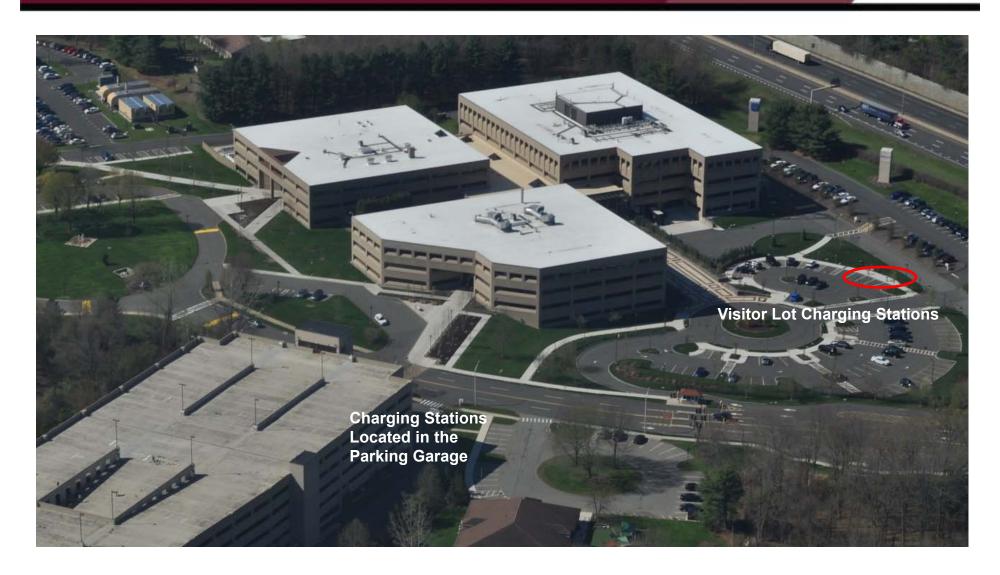
# EV Employee



# Springfield Campus EV Locations



# Enfield Campus EV Locations



### **EV Charger Details**

#### **EV Chargers**

- All of the chargers on the three campuses use the common SAE J1772 charger interface
  - The majority of EVs on the road use this type of interface
- The EV's are powered from a 30 Amp 240 Volt line
  - Cars from all of the major manufactures will charge within 8 hours

## **EV** Employee Highlights

#### Reduced Environment Impact:

Programs help employees and visitors reduce their impact

#### ■ No Charge:

■ There is no charge for this service, we consider this an employee benefit

#### Close Parking:

Participants get preferred parking due close proximity to entrances

#### Employer of Choice:

We are considered an employer of choice as a result of EV program

#### **■ Visible Commitment:**

Demonstrates our commitment to sustainability

#### Partnerships:

• We have partnered with our Federal Credit Union to promote loans to purchase EVs along with car dealers offering test drives on the campus



We'll help you get there:

© 2017 Massachusetts Mutual Life Insurance Company, Springfield, MA. All rights reserved. www.massmutual.com. MassMutual Financial Group is a marketing name for Massachusetts Mutual Life Insurance Company (MassMutual) and its affiliated companies and sales representatives.