MassMutual Financial Group
Springfield, MA

Sustainability Program
- Electric Vehicles Charging Program

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The Three Pillars of MassMutual’s Sustainability Program

- Conservation
- Sustainable Operations (LEED-EB)
- Renewable Energy (solar)
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
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
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
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 in 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
EV Employee
Enfield Campus EV Locations

Charging Stations Located in the Parking Garage

Visitor Lot Charging Stations
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