



## Maryland Green Registry MEMBER

The Maryland Green Registry promotes and recognizes sustainable practices at organizations of all types and sizes. Members agree to share at least five environmental practices and one measurable result while striving to continually improve their environmental performance.

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Architecture and Engineering

Member since August 2014

## Management And Leadership



### **Environmental Team**

*JMT has created a Sustainability and Innovative Solutions Committee consisting of representatives from the Board of Directors, Marketing Professionals, Practice Leaders, Project Managers, and staff from several of our offices whose aim is to promote sustainable business practices within our organization and expand our sustainable services. The committee discusses and develops a strategy for the firm to respond to the sustainable needs of our current clients as well as expanding into new clients or new services. A subcommittee, the Sustainable Operations Committee, consists of a group of individuals from various departments and backgrounds all with an interest in promoting sustainability within the office. The committee meets to brainstorm ideas and discuss plans of action to make the operations of our office building less wasteful and more sustainable. So far, the team has implemented a single-stream recycling program and organized several community outreach activities such as stream cleanups, tree plantings, and Adopt-a-Highway programs.*



### **Environmentally Preferable Products and Services**

*As an architecture and engineering firm, JMT aims to provide our clients with sustainable solutions to their project needs.*

- *Stormwater Quality Management - water resource engineers design and implement stormwater management best practices to improve the quality of runoff from impervious surfaces before entering the receiving water body.*

- *Sediment Control - our engineers design erosion & sediment control plans for all construction sites to prevent the sedimentation of waterways due to disturbed earth.*
- *Stream restoration – erosion and sedimentation of streams can result in a loss of habitat and a decrease in overall health of the water body. Our engineers design measures to stabilize the banks of a stream with vegetation and stone to curb erosion and prevent sediment from entering the waters. Vegetative buffers also act to filter out pollutants from stormwater runoff prior to entering the waterways.*
- *Environmental investigations – JMT’s environmental team performs environmental site investigations for major projects to ensure that all environmental impacts are considered, and any sensitive species or lands are protected in the design and construction of the proposed project.*
- *Park and bike facilities - JMT has worked on numerous projects in urban and suburban areas with an aim to provide more green space and improve pedestrian and bicycle accessibility.*
- *Rail and transit projects – JMT has worked on numerous public transportation projects as a result of the Lite Rail and Streetcar improvements in Baltimore and DC. These projects help to alleviate traffic congestion on roads and prevent pollution from vehicle emissions.*
- *Water treatment facilities – JMT’s large water and wastewater engineers develop efficient strategies for the treatment and distribution of water to and from communities.*
- *Energy efficiency – Our Mechanical, Electrical and Plumbing (MEP) Engineers are experts in the design of high-efficiency HVAC systems for our clients. We provide systems commissioning to our clients to ensure that mechanical systems are installed and operate properly, and the promised energy savings are being achieved.*
- *Solar and geothermal systems – MEP Engineers continually look to incorporate geothermal and solar energy systems to their projects to achieve maximum energy efficiency.*
- *Low Impact Development, Complete Streets – JMT’s engineers have been providing context sensitive solutions to our clients to design their projects with minimal impact to the surrounding environment.*



### **Environmentally Preferable Purchasing**

*JMT purchases paper which is certified by the Sustainable Forestry Initiative, and recently began purchasing recycled content pens which are refillable.*



## **Environmental Restoration or Community Environmental Projects**

*JMT is active in many environmental stewardship and community service events. We have participated in Blue Water Baltimore's Project Clean Stream since 2011, cleaning the same reach of stream adjacent to the Timonium Lite Rail Station each April. In 2014, 19 employees participated in this event and cleaned 3.2 acres of land surrounding the stream, collecting 20 bags of trash and recyclables. This resulted in approximately 500 lbs of trash removed from our waterways. JMT also participates in Maryland State Highway Administration's "Adopt a Highway" program, and adopted a 1.5 mile stretch of York Road just north of our office in 2011. JMT employees pick up trash and recyclables from the roadway 4 times a year during the lunch hour. In 2013, we got involved with our local watershed organization, the Gunpowder Valley Conservancy. JMT employees helped to plant trees in the grounds surrounding Loch Raven Reservoir, and also participated in a fall stream cleanup. Many of our other offices outside of Maryland participate in similar environmental stewardship activities, such as highway cleanups, beach cleanups, dune grass plantings, and environmental education and outreach programs for children.*

## **Waste**



### **Solid Waste Reduction and Reuse**

*In 2010, JMT decided to switch from a bottled water service to a reverse-osmosis water filter, which filters and subsequently cools/heats water from our existing tap. The switch has been a great success and has not only reduced the waste of the large water bottles but also eliminated the risk of chemicals leaching into the drinking water from the plastic bottles. After a small initial investment, JMT was able to save over \$5,000 the first year by using the water filter rather than the water bottle delivery service.*

*Additionally, JMT has adopted a procedure to store documents and plans electronically rather than printing or plotting on paper, and have encouraged our clients to accept electronic submissions rather than paper copies.*



### **Recycling**

*JMT implements single-stream recycling at our office. We can recycle:*

- *Paper*
- *Cardboard*
- *Plastic*
- *Aluminum*

- Ink cartridges (collected separately)
- Electronics (collected separately)
- Batteries (collected separately)

We also utilize a separate white-paper recycling program. White paper, when collected separately from single stream recycling items, experiences more efficient processing and results in a valuable end product of recycled pulp. JMT's Maryland offices currently have 14 bins throughout the office, which are collected by our recycler every other week. That results in approximately 320 cubic feet of white paper that is not only diverted from the waste stream each month, but recycled in the most efficient manner.

## Energy



### **Energy Efficiency**

*Our office is continually going through renovations and reorganizations. In 2012, the building upgraded its HVAC equipment to a high-efficiency system. We recently replaced all of the light fixtures in the building with high-efficiency T8 fixtures, which replaced the old T12 fixtures. As a result of our energy savings from this upgrade, we receive incentive payments each month from BGE through their Smart Energy Savers program. These high-efficiency light fixtures don't need to be replaced as often and result in less waste from spent lightbulbs. As each office area is modified, our Facilities Manager installs occupancy sensors in offices and conference rooms. This ensures that lights are not left accidentally on when a room is not in use. All of these efforts have helped us to reduce our energy usage and see a savings of approximately \$3-4,000/month on our electricity bills!*

## Transportation



### **Efficient Business Travel**

*JMT has video conferencing capabilities in all of its offices and encourages the use of applications such as Go To Meeting, enabling collaboration, work-sharing, and teleconferencing. This has allowed us to streamline our operations and cut down on carbon emissions and travel costs for meetings.*

## Water



### **Water Conservation**

*The restrooms in our offices contain automatic faucets to limit potable water use.*

## Other

- ☑ *Member of USGBC since 2007*
  - *Sponsor of USGBC – MD Chapter “Big Ideas” Program, 2014*
  - *24 LEED Accredited Professionals and 7 Green Associates*
  - *Silver Partner of National Complete Streets Coalition*
    - *Vice President serving on National Speaker’s Bureau*
  - *3 Certified Energy Managers*
  - *4 Certified Building Commissioning Professionals*
  - *One appointed member of the Maryland Green Building Council*



*Help build a greener, more sustainable Maryland through voluntary practices that reduce environmental impacts and save money.*

*Learn more at [www.green.maryland.gov/registry](http://www.green.maryland.gov/registry)*

