

TOYOTA MOTOR MANUFACTURING, ALABAMA (TMMAL) SUSTAINABILITY
PRESENTATION

TUSCALOOSA, ALABAMA

Location: Ancillary Services Building 2nd Floor Computer Lab

Time: 2:00PM-3:00PM

Date: Wednesday September 17, 2014

Present:

Tony Johnson- Executive Director of Logistics and Support Services

George Cook- Assistant, Logistics and Support Services

Nancy Whittaker- Associate VP of Administration

Milo Crabtree- Associate Director of Procurement Services

Delphine Harris- Executive Director of Business Process Innovation

Korey Kizziah- Warehouse Services Coordinator, Recycling and Logistics and Support Services

Patrick Lang- Student Intern, Recycling Department

Absent:

Greg McKelvey- Director of HVAC and Energy Management

Julie Shelton- Director of Financial Accounting and Reporting

Kathleen Gillan- Director of Greek Affairs

Matt Kerch- Director of Housing Operations

Kristina Hopton-Jones- Director of Dining Services, Auxiliary Services

April Sanders- Assistant Manager of Facilities Operations, Ferguson Center

Brandon Sevedge- Director of Athletics Facilities

Toyota Motor Manufacturing, Alabama Sustainability Presentation

Presenter: Jeneen Horton

Introduced the Presenter: Tony Johnson

Notes:

1. Jeneen went to college at Auburn University and got her degree in Engineering back in 1995.
2. She started at Toyota in June of 2002 before the manufacturing plant was built in Huntsville later in the spring of 2003.
3. The plant started out in 2003 with 450,000 sq. ft. and 350 workers to now in 2014 with 1,200 workers and over 1.2 million sq. ft.
4. The manufacturing plant solely that produces V6 and V8 engines for Toyota vehicles in the world.
5. It is the first V8 engine line plant outside of Japan.
6. There is a sister plant outside Tupelo, Mississippi in Bluesprings, Mississippi that produces vehicles.
7. Jeneen was one of the first Environmental Specialist for the Toyota manufacturing plant in Huntsville.
8. One of the main goals for the engine plant was to take 0% of waste to the landfill.
9. This goal has been going on since the manufacturing plant opened back in 2003.
10. The Toyota plant has some activities in trying to be more sustainable and they are the following: Community/Education Outreach, Bio Diversity, Stakeholder, Afforestation, and Kaizen, a Japanese word that means good change.
11. The biggest problem with the plant has been power bills, which have been over \$450,000/month.
12. For Community/Education Outreach, the Toyota Plant always hold meetings with the neighborhood right by the plant to educate what they are doing and to make sure over zero complaints from the community. Alabama A&M University & Calhoun Community College work with the plant. They all together get involved with Arbor Day and hold clean up days.
13. For Bio Diversity, the plant has been trying to go paperless at work and eliminate paper in general. From the dining halls, the plant makes Biodiesel and soap from the cooking oil used. The Biodiesel is reused at the plant but also the Biodiesel and soap is made for Alabama A&M University.
14. For Stakeholder, Jeneen would go out and train workers on the assembly line on Environmental issues. Today, there are 50 people who are involve in Environmental

Services and 12 of them go out in North America to other plants to talk about what the Toyota plant has been doing to staying more Sustainable.

15. For Afforestation, the plant has planted over 11,000 trees around the city; they mostly have used Pines plus other trees that block out noise.
16. For Kaizen, the plant has for the past 7 years saved over \$1 million in energy cost from being more energy efficient. Using more LED lighting, better motors, and solar tubes plus solar panels to capture the sunlight and storing it. The plant purchased some industrial sized battery packs and put them in 400 sq. ft. of space to store the sunlight for energy. This helps with when having to use air compressors during plant operations.
17. The plant has been saving over 5 million gallons of water from using ponds close by and doing rainwater harvest. Including the lawn watering system from changed from being an automatic watering system to now more of a manual lawn watering system.
18. The water from the ponds and the rainwater harvest has been pumped into the plant using water pumps powered by the batteries containing solar energy.
19. The Toyota manufacturing plant currently is now working on improving its Stakeholder Involvement and Public Image. It is plus working on identifying additional innovative technologies to continue the sustainability effort.
20. These water and energy sustainability projects have been one better than the Toyota plant in West Virginia.

Concluded the presentation by opening the floor for questions: Jeneen Horton

1. One of the questions was about if Toyota would give out grants towards sustainability efforts. Jeneen said that the Toyota Foundation would be best to contact about applying for them.
2. One of the other questions was about trying to do a workshop on campus with the Business School taking the lead on innovative technologies with business owner alumni advising the students on what to do. The problem was of the lack of funding for it to happen. Jeneen said that the Alabama Automotive Manufacturers Association (AMMA) would be the one to contact to get possible grants for the workshop and to contact Ron Davis the President of AMMA. His contact information can be found at (<http://mycba.ua.edu/aei>)

Closed the floor for questions: Tony Johnson