

In Partial Fulfillment of the Requirements for the Degree of
Master of Sustainability Solutions (MSUS)

Curt Truman

Will defend his Master's Capstone Project

**The New Store Concept: Sustainable Innovations
for 7-Eleven Corporation**



Abstract

7-Eleven, Inc. is the world's largest convenience store chain operating, franchising and licensing more than 56,600 stores in 18 countries, of which nearly 10,500 are in North America. This applied project will propose a new 'green building' store concept and product supply chain for 7-Eleven franchisees and the nearly 50+ million people who visit a store daily.

Based on the green building program used by the Starbucks Coffee Company, I used a comparative case study to show how 7-Eleven will introduce a new environmentally friendly concept store using eco-conscious building alternatives to traditional construction. The test project is built using adaptive reuse, recycled and chemically free building materials: Shipping Containers - that have been architecturally repurposed and designed into new stores. The concept is so easy, affordable, with a shorter 'build out' timeframe than conventional stores – with all the store fixtures shipped inside the containers - to the site for installation. One stop construction.

Pushing for LEED design certification and using C2C standards to build the environmentally friendly stores. The new concept store would use a full-cycle of

alternative energy sources (solar & wind), use rainwater capture systems, and incorporate the use of grey water for washing parking lots and exterior buildings and for landscape watering. In addition, add composting restrooms, landscape bioswales water retention and recycling redemptions centers on-site. The goal is to be 100% waste free, 100% energy producing and 100% local product sourcing

Similarly, the research supports expanding the narrow supply chain by increasing sustainable product variety. This would include stocking and sourcing locally grown fruits, vegetables, organics, designer coffee, fresh sandwiches and juices. Giving franchisees more control on the overall carbon impacts in their local eco/environment.

The *New Store Concept* and *Supply Chain* will work perfectly for the 7-Eleven Corporation in reducing energy use, reduced construction costs, material flow, and reduced carbon footprints. And increase sustainable innovation in new product design, repacking, and increasing opportunities for local green vendors. And best of all, avoid continuing systematic degradation of the biosphere.

Thursday, December 1, 2016
12:00 – 2:00pm
Wrigley Hall, 481

Faculty, students, and the general public are invited.