

**Full Course Title:** U.S. Environmental Protection Agency, Office of Strategic Environmental Information, Lean and Environment Initiative: New Technology and Sustainability

**Course Number:** SIPAU9000.046

**Faculty Advisor:** Kathleen Callahan

**Columbia Email Address:** kc2378@columbia.edu

**Meeting Date/s Times:** Fridays 2:10P – 4:00P

**Location:** IAB 501

**Office Hours:** To be determined

**Credits:** 3

**Prerequisites:** None

**Course Overview:**

**Brief description of client:**

U. S. Environmental Protection Agency, Office of Strategic Environmental Information, Lean and Environment Initiative

**Summary of project:**

Identify policies that promote or hinder sustainable manufacturing. The USEPA Lean and Environment Initiative desires an analysis of the challenges of integrating new technologies into the manufacturing sector which can provide sustainable progress. The concerns are related to the hurdles that current regulatory systems may present to such sustainable direction. Additionally, when a valuable idea for sustainable manufacturing is identified, how does it move from a concept to an industry standard. An example to consider is the Energy Star Program—how it was identified and became a program that created industry incentive to improved manufacturing standards for sustainability. The goal is to identify hurdles to overcome and incentives to encourage sustainable manufacturing behaviors. Comparative analyses of different manufacturing sectors, such as, food, paper, cosmetics and automotives, would be a route to assessment.

**Deliverables to client:**

A report which provides an analysis/analyses of various manufacturing sectors for the potential to identify new approaches and how to encourage and advance these in the regulatory structure.

**Special skills/knowledge needed by team members:** Policy analysis, manufacturing assessment or knowledge, environmental engineering, are all advantageous

**Initial meeting(s) with your student team in late November or early December, if applicable:**

Timing to be determined

**Dates for meetings with client, if already scheduled):** To be determined

**Field component:** Possible trip to Washington, DC. To be determined.

**Student selection:** [All eligible students may apply for up to five workshops through a special online application process from October 15<sup>th</sup> until October 31<sup>st</sup>. Assignment of students will be coordinated by the Office of Academic Affairs, and relevant faculty will be consulted about team membership for their workshop(s).]

**Grading (students receive an individual grade):**

Grades for the workshop will be based on the following criteria:

Quality of individual contributed work (10%)

Quality of participation in class, Peer review (20%)

Feedback from the client (20%)

Overall professionalism, including timeliness, ability to work with team, etc. (20%)

Quality of team's final report and briefing (30%)

**Readings:** Green to Gold, Esty and Winston (Recommended)

**\*Academic Integrity Statement\*:**

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