

**Mission Report**  
**Program: Closed Looped Cycle Production in the Americas**  
Mission Team: Kevin de Cuba (Program Manager)  
Guatemala City, Guatemala  
July 18, 2014

**1. GOAL OF PROGRAM**

To contribute to nations in the Americas' capacity to promote and facilitate the adoption and implementation of Closed Looped Cycle Production design and manufacturing methods as mean of promoting sustainable development.

**2. SPECIFIC OBJECTIVES**

Increased awareness and buy-in on the part of stakeholders in Panama, of the relevance and viability of innovative Closed Loop Cycle Production methods and certification as means for energy efficient and sustainable production in companies with focus on small and medium sized enterprises.

**3. OBJECTIVES OF MISSION**

- (a) Upon invitation by the Cleaner Production Center of Guatemala, present the goal and objectives of the Closed Looped Cycle Production in the Americas program to the National Committee for Cleaner Production of Guatemala (as established by Ministerial Decree 597-2012);
- (b) Have several meetings with key actors in the Ministry of Environment and Natural Resources and the Cleaner Production Center of Guatemala to discuss sustainable production methods being promoted under the CLCP program;
- (c) Provide a guest lecture at the Universidad del Valle de Guatemala (UVG) to students of the faculty of chemical engineering about CLCP and how to transition toward a circular economy.

**4. MISSION RELEVANT EVENTS**

**Friday – July 18, 2014**

**(a) Meeting with the National Cleaner Production Committee of Guatemala.**

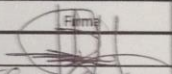

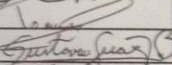
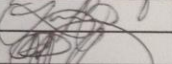
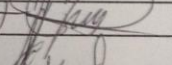
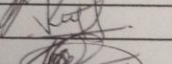

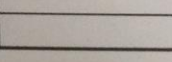

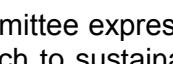
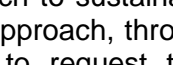
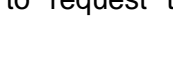
Kevin de Cuba (KDC), CLCPA Program Manager, was invited by the National Cleaner Production Committee of Guatemala to present the goals and objectives of the Closed Looped Cycle Production in the Americas program. The National Committee consists of members of the Chamber of Commerce of Guatemala, the Cleaner Production Center of Guatemala, the Ministry of Environment and Natural Resources, the Ministry of Economy, Agriculture and Health, the University de San Carlos de Guatemala, University Del Valle de Guatemala, the Guatemalan Export Association, and Environmental NGOs.

After the attendance by Mrs. Karen Rosales (KR), Sub-Director of the National Cleaner Production Center of Guatemala, at the International Cleaner Production Symposium held on March 19, 2014 in Panama, KDC was approached by KR regarding the possibility of including Guatemala as a project country in the CLCPA Program. KR explained that since August 2012 a National Cleaner Production Committee was established in Guatemala tasked with identifying ideas and projects to implement their National Policy on Cleaner Production. KR was very

convinced that the CLCPA program could become a flagship initiative in Guatemala and help the Committee move beyond cleaner production toward developing mechanisms to allow for circular production and consumption patterns. KR and KDC agreed that future opportunities will be looked at including having a follow up call and explore the possibility of KDC presenting the CLCP program to the National Committee of Guatemala to identify potential future collaboration in this topic.

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Tema: Reunión Comité Producción más Limpia  
Fecha: 18 de julio de 2014  
Lugar: AGEXPORT

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Participants List during the meeting with the National Committee on Cleaner Production of Guatemala (July 18, 2014)

Outcomes: After KDC's presentation and an extensive Q&A session, the Committee expressed their complements to the OAS/DSD for promoting such an innovative approach to sustainable production efforts. The Committee unanimously decided that Guatemala will approach, through the Ministry of Environment and Natural Resources, the OAS in order to request their participation in the CLCPA Program.

**(b) Meeting with the National Cleaner Production Center of Guatemala.**

After the meeting with the National Committee on Cleaner Production, KDC met with Mr. Luis Muñoz, Director, and Karen Rosales, Sub-Director of the Cleaner Production Center of Guatemala in order to outline potential areas of collaboration and the next steps required to formalize Guatemala's participation in the CLCPA program.

**(c) Guest lecture at University Del Valle de Guatemala.**

In the late afternoon, KDC was invited to give a guest lecture to students of the faculty of chemical engineering about the principles and methods promoted under the Closed Looped Cycle Production program and how these help facilitate the transition toward a circular economy

around the globe.



Guest Lecture provided by Kevin de Cuba at the University Del Valle de Guatemala (July 18, 2014)

Outcomes: About 60 attendees, including students, professors, and invited private sector representatives were present and expressed their interest in the applicability of the CLCP methods in Guatemala. For many this was the first time they have ever heard about this sustainable manufacturing approach and learned about the benefits and challenges to the concept of circular economy. The questions were of very high technical nature meaning that the CLCP principles were very well understood. Students asked in what way they could become involved in the CLCPA program and if there are any internship opportunities at the OAS/DSD to gain more experience in this topic. KDC explained that the Ministry of Environment and the OAS are exploring possibilities for future collaboration and that a specialized internship or apprentice component would be taken into consideration.

## 5. MAIN OUTCOMES OF THE MISSION

- (a) Promoted and created awareness about Closed Looped Cycle Production and Circular Economy in Guatemala through meetings with among other, the National Committee on Cleaner Production of Guatemala and a Guest Lecture at the University del Valle de Guatemala.
- (b) The OAS/DSD established relations with relevant authorities from Guatemala including the Ministry of Environment and Natural Resources (MARN); the Ministry of Economy, Agriculture, and Health; and the Cleaner Production Center of Guatemala.
- (c) KDC learned about the Committee's expectations regarding the National Policy on Cleaner Production and explained the process how Guatemala could formalize their participation in the CLCPA Program of the OAS. The Cleaner Production Center of Guatemala will function as the principle liaison on behalf of the Committee with the OAS/DSD.
- (d) KDC lectured/trained about 50+ Guatemalan students on the CLCP philosophy and how to apply CLCP methods to facilitate the transition to circular economies.

## 6. STEPS FORWARD/ACTIONS

- (a) Share more details about the CLCP program with the National Committee on Cleaner Production of Guatemala.
- (b) Interact with the Cleaner Production Center to respond to any questions about the participation



of Guatemala in the CLCP program.

## 7. CONTACT

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