

# Action Plan of Khon Kaen City

## **Thotsaphon Wong-Asa**

Chief, Subdivision of Natural Resources  
Natural Resources Section, Office of Public Works  
Khon Kaen Municipality, Thailand

### **1. PROBLEM**

The used oil is faced with problems of air pollution, waste water and increase fuel price .We have carbon dioxide, nitrogen oxide and dust in the air. Moreover the problem of waste in water Especially used oil, it very difficult to remove from water. So we find method to separate and help air pollution once more. The method is biodiesel. Unless usefulness to air pollution and waste water treatment, it have advantage for save budget fuel of machine in municipality.

### **2. GOAL**

Separate used oil from waste water and recycle used oil 200 liter / day in the end of a year.

### **3. OBJECTIVE/S**

Initially reduce the used oil from waste water about 200 liter per day

- To attain expected outcome :
  - Recycle plant building ( KK university )
  - Increase efficiency of waste water treatment
  - Reduced air pollution
  - Save budget
  - Reduced cancer disease

### **4. TARGET POPULATION**

People in city. Especially leader, student and every restaurant

### **5. RESOURCES AND CONSTRAINTS**

Funding to be shouldered by the city government and university to initiate the program.

### **IMPLEMENTING AGENCY**

City natural resource and environment Management Office

### **6. KEY IMPLEMENTATION STRATEGIES :**

- Coordinate functions with relevant government offices/Khon Kaen university
- Set up the leader community to center of collection sub-station
- Orient citizens, student and every restaurant into concept that used oil keeping

- Create a program that is simple to understand and easy to enforce

## **7. ACTION PLAN**

1. Present the concept of the program to the City Mayor for his approval – July 2006
2. Coordinate with Khon Kaen university, city health office, government offices - July 2006
3. Meeting the leader community and invite collaborate program – August 2006
4. Promote program to resident, student and restaurant – September 2006
5. Collect used oil to sub-station ( community office or house of leader ) – October 2006
6. Transfer used oil to collected center station( KKM ) and sent all used oil to recycle plant ( KKM ) – November 2006
7. Use biodiesel from used oil in machine of KKM – December 2006
8. Promote success of program – January 2007

## **8. MONITORING SYSTEM**

Monthly review and quarterly meetings

**Action Plan by Quarters**

Action	7/06	8/06	9/06	10/06	11/06	12/06	1/07
Present to the City Mayor							
Coordinate with Khon Kaen university, city health office, government offices							
Meeting the leader community and invite collaborate program							
Promote program to resident, student and restaurant							
Collect used oil to sub-station							
Transfer used oil to collected center station and sent all used oil to recycle plant							
Use biodiesel from used oil in machine of KKM							
Promote success of program							