



Together
Foundation

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Technician manage to the impregnated residuals of hydrocarbons, Bogota Colombia

Good Practice

New for 2002

- Categories:**
- Production and Consumption Patterns:
 - energy efficiency
 - producer responsibility
 - production/consumption cycles
 - resource conservation
 - waste reuse and recycling
 - water use and consumption
 - Architecture and Urban Design:
 - affordable/ecological design
 - Environmental Management:
 - ecological sustainability
 - environmental health
 - environmental remediation
 - environmentally sound technologies
 - pollution reduction
 - resource management
 - urban greening

Level of Activity: City/Town

Ecosystem: High Plateau

Summary

Our project is dedicated to handling, use and recovery hydrocarbons spread in the water and floors; we have developed programs that use appropriate technologies, adaptive to industries needs and trade, they can also be applied in any city in short time, with low costs.

All activity should have in mind the costs to keep the environment without contamination, for instance a small manager, merchant and the industry have to invest in machines and processes for the treatment of water and residuals; increasing costs of their products, this cost has to be paid by the final consumer.

With these needs of attacking actions to reduce contamination caused by these entities, our company has taken as its this concern and based on the experience of handling solid residuals, we obtained a product that is denominated INDUSTRIAL ADSORBENT "NOW" (Not Oil Water), it is able to absorb those derived of the petroleum whose density is smaller than water density, it works not only in liquid bodies but also in solids, this product is also biodegradable, manufactured with products from the garbages.

The main objectives of this project are: to work with 40 year-old people and up to practise the recovery work; he/she strengthens this way of recycling, when we generate remunerated occupations and the generators of these residuals won't also have to pay big standard rate for their handling to the companies render services and/or otherwise they won't pay high tickets to environmental authorities.

Narrative

- SITUATION BEFORE BEGINNING THE INITIATIVE

Describe the situation shortly before the initiative begin, including the main topics, tendencies and conditions of the area.

The products for handling hydrocarbons were imported and the residuals were thrown to the water, abandoned or deposited in sanitary fillers, the environmental legislation is new; we have lacks of environmental thinking; there was too much hydrocarbon.

The products used to clean, transfer the problem to another side. In recycling all the resources are not used. People how work with recycling don't have a salary.

FORMULATION OF OBJECTIVES AND STRATEGIES (100 words)

Elaborate a summary of the main objectives and strategies of the initiative, how were they established and who did it?

OBJECTIVES

- * To Appropriate the Industrial Adsorbent NOW.
- * To Create a company with associative purpose.
- * To Offer a technical service using appropriate technologies.
- * To Manufacture new products.

STRATEGIES

- 1) To participate trades events, managerial meetings with environmental purposes and field tests in the different entities.
- 2) To summon grown-ups of 40 years old people who have knowledge in the environmental and technical area, and people who really want to work with garbages.
- 3) We took the environmental norms as a base; we focused in the spill law, the handling for volume and class of garbages.
- 4) One of our requirements to manage certain class of residuals (garbage) is: we don't receive it as gift, people have to pay for their handling, we will create the commitment with the generator to use that manufactured with their residuals.
- 5) The sale politic is: to lend a service or to manufacture elements, it is requested 50% as an advance and the balance to the delivery.

MOBILIZATION OF RESOURCES

Explain how the financial resources were mobilized, technicians and human and where they came from.

The resource for the formulation, investigation, the production of the machines was contributed by the inventor of the project Carlos F. Forero M. and his family; the tests and analysis were carried out by Universities and institutes using cooperation agreements; the advertising promotion has been made for

the participation in different events and using the television spaces for social and cultural topics. The resources to develop, purchase of machines and capital work is financed by those associated of E.A.T. (solidary companies) and our client's advances.

14 - PROCESS

Explain the problems confronted in the implementation of the initiative, how did you overcome them and what are without solving. Also explain how was the population's participation, the communities, the organizations and the institutions that intervened in the initiative.

To create a company in Colombia is difficult; the inventor doesn't have support, eventhough we won the prize to "the best inventor" in this aera, a physical or monetary help was never obtained. The lack of belonged doesn't allow us to believe in the National ideas, environmental laws are establish until now, to consume ecological products doesn't take as high-priority, the traditionalism doesn't allow to prove new alternatives, recycling work is seen disparagingly, there are not technical norms with regard to the product. The investment lack eventhough many companies and people see the product like the smallest alternative to control the trails of the hydrocarbons, they never wanted to invest because it is a product that is not appropriated in the market.

With the purpose of breaking up with the previous troubles, we begin the production and participation in different national events showing the kindness of the Industrial Absorbent NOW, as well as the possibility opens up of receiving partners.

The success of the project is due to the support received by the inventor of the project Carlos F. Forero M. and his family; the tests and analysis were carried out by Universities and institutes using the cooperation agreements; the advertising promotion has been made for the participation in different events and using the television programs with social and cultural vision (caracol radio and RCN, Television programs of AUDIOVISUAL company).

The project is in the implementation phase it has been recognized and supported by the Net of Social Solidarity, The Ministry of the Environment, the Ministry of Development, National Association of Recycling people, Andi. The entities that the Absorbent NOW uses in Bogotá- Barrancabermeja, Bucaramanga and Cartagena.

We hope the law recognized the work of the recycling people and the environmental authorities begin to make complete the emanated norms of the Ministry in resolution 415 1998, and the resolution 0318 DAMA in Bogotá- to begin to sell the Adsorbent like financed source; but we realized our possible clients needs were having a specialized services where position of the problem of the residuals is made cheap.

A great contribution to the industry and the environment, is companies that are in certification process to obtain the ISO 14001, have used our product and it was approved as solution to the contamination.

We want to put together: lenders of services, makers, consumers, authorities and consumers; under a program of "to clean water and floors with hydrocarbons presence": we will give some technical, economic and ecological solutions. As well as to create storing centers and machines processors of impregnated waste of hydrocarbons in each main city of the National territory, in order to control from the source the residuals and to bring them from city to city.

14. Reached results

- Construction and adaptation of machines to produce the Adsorbent Industry with a capacity to process 1000 pounds/hour.
- we manufactured 20.000 pounds of Industrial Adsorbent, we bought it to recyclinbg people. 22.000

pounds of vegetable waste, it doesn't have value in the process of recovery of the garbages.

- Generation of sources of Employment people to produce and benefit of services.
- To use the product and the service in 50 establishments that use oils and hydrocarbons.
- The discharge of the payment of taxes to use the Adsorbent Now.
- The recognition received from the Presidency of the Republic and the Ministry of the Environment, to the adsorbent s work in protecting the environment and the use of the residuals or garbages.

15. supporting

Explain how the integration was reached among the social, economic and environmental elements, particularly in reference to the aspects:

After the creation of the Ministry of the Environment they have been made a different norms among those that figure the law April 901 1 of 1997 that forces entities producers to carry out activities of descontaminaci  f their processes, otherwise, they will have a series of economic sanctions, propitiating to elevate the production costs, making less competitive a profitable activity.

All activity should keep in mind the costs to maintain the environment without contamination, the small manager, merchant and the industry have to invest in machines and processes for the treatment of water; increased the costs of their products; cost that the final consumer should always pay. At this time of economic, social crisis that our society this happening takes to the companies to look for more economic alternatives but with the same or better functionality, for all their processes that we can minimize the negative impact that residuals produce with our services and products. The explotation, commercialization, transportation and other activities with petroleum and their derived will continue causing contamination and they will need someone who manage their residuals.

The process of water purification is highly expensive and the presence of hydrocarbons makes it more difficult. In these days they are carried out descontaminaci  perations for hydrocarbons using import chemical products of great economic cost that don't solve also, what is made in it transports the problem to another part.

When continuing to promote and Expanding the project, we will be able to generate Remunerated work Positions, we rescue resources and we protect the environment

16. Learned lessons

  We didn't create anything, God created everything; we should take care of the resources for the new generations.

  The garbage that we generate is not garbage, they are residuals that can Recover and reuse.

  If we treat the waste well they can help us, but if we treat them bad they contaminate us.

  It is necessary to unite efforts, this way all benefit and we solve the common problem "the Contamination."

  What is the idea of recycling if we don t use the product?

When we created this project we kept in mind the one that was sustainable and profitable, taking as slogan "we win serving". therefore it is promoted that when we put together effort and that participating with the environmentall authorities, goverment, communities and unions, we will be able to give an integral handling of the solid residuals.

TRANSFERABILITY

"The material is not made, neither it is destroyed; it transforms", taking this quotation, we can demonstrate that the garbage is a human creation and therefore we are in the obligation of taking advantage of it and the better processes of control of the contamination. When we control the contamination taken place by the oils used in the water and floors, the hydric sources will rest and we will help to preserve the environment for the new generation.

We are implementing this projects in Bogotá cy now, being the useful tool adopted by entities such as GENERAL MOTOR, MOBIL DE COLOMBIA, ETERNIT, IMAL. INCOLBESTOS, ECOPETROL (section of Pretochemistic), 45 stations of services, mechanics shops, among others; they are trying to fulfill Resolution 318 / feber2000, sent by Administrative Department of the Environment (DAMA), but it is expected that it extends for all the cities where it is used hydrocarbons.

When you are a father, we always fight for our children to be "to get their goals, be useful and be in the first places". I consider my project as my last son and I will facilitate him his expands in this way:

I would look for a group of people to work in recycling and they have to be bigger than 40 years old, they were qualified in THE MANAGERIAL DEVELOPMENT LOCAL PARTICIPATIVE (DEPL), to conform a society and/or a company with Associative view; with the objective of recovery resources, production and sale products, to offer maintenance services and polluted cleaning of contaminated areas, dilute with hydrocarbons and others.

Once conformed, we would look for resource to created a factory and to begin a job.

The time used to implant this service will take about 6 months.

CARLOS FELIPE FORERO MONSALVE
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References

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<h3>Key Dates</h3>
<blockquote>
Indicate no more than five dates and explain in five or six words their
importance and significance. <br><br> <br><br>* February 3rd 1997:
Discovery of the Industrial Adsorbent "Now"<br><br>* June 8th 1998: winner of
the competition of Inventors in Colombia and rewarded by the Ompi (world
Organization of the Intellectual property) and by The Republic
presidency.<br><br>* January 25th 2001: Conformation of the Associative work
company Flexiform "Technology in recycling." <br><br>* July 25th 2001:
Discharge of the payment of taxes, sent by the Ministry of the Environment, for
the purchase of the Industrial Adsorbent "Now".<br><br>* March 1st 2002: we
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