BRAZIL DRYLAND CHAMPIONS 2014

Awardee
Secretary of Environment and Sustainability - SEMAS/PE

Place of activity
Semiarid region of Pernambuco State
Brazil

This project is to conduct the Zoning Desertification in the State of Pernambuco - Brazil, identifying and assessing the phenomenon in it’s as a way to support public policy development in line with the State Action Plan to Combat Desertification and mitigate the effects of Drought –PAE - PE. The actions aim to establish parameters for desertification, based on environmental indicators, such as mapping, identification and characterization of areas with desertification process, distribution of soil types, vegetation classes, land uses and climatic characterization of the study area. Mobilization and awareness events for Technical Assistance and Rural extension, municipal managers, teachers, and representatives of NGOs and rural unions of the municipalities in these areas for participation, contribution and discussions in the process of developing the zoning will be conducted.

http://www.semas.pe.gov.br
BRAZIL DRYLAND CHAMPIONS 2014

Awardee
Secretary of Environment and Sustainability - SEMAS/PE

Place of activity
Municipalities of Carnaíba, Afrânio, Parnamirim, São Caetano, Exu, Floresta, Belém do São Francisco Triunfo, Serra Talhada, Serrita, Lagoa Grande, Cabrobó and São José do Belmonte at Pernambuco State-Brazil

This project will implement a sustainable agrobiodiversity management module in the buffer zones of 13 protected areas of the Caatinga in Pernambuco State. The modules involve a set of actions addressed to sustainable development, constant and without direct dependence on rainfall, which are geared to generate family income and the development of an educational process aimed at sensitizing and empowering local communities, serving as a hub of used techniques diffuser. The actions carried out in the project were distributed in five areas: training, drilling of wells and environmental sanitation; food, energy and nutrition security.

http://www.semas.pe.gov.br
Awardee
Centre for Popular and Social Education – CEPFS

Place of activity
Semiarid region of the Paraíba State
Brazil

The e-Adaptation to Climate Change for Living with the Semi-Arid xperience promotes the development of family agriculture, from the gathering of local knowledge that enables men and women farmers to immerse themselves into reality where they live and get to know the potential and limits of the region, as input to creation and innovation of social technologies that enable families to have better conditions to adapt to the local conditions, with better coexistence with the semiarid reality, creating sustainable living.

http://www.cepfs.org
BRAZIL DRYLAND CHAMPIONS 2014

Awardee
Cearense Foundation of Weather and Water Resources

Place of activity
Sub-basin of Brum's creek
Municipality of Jaguaribe
Ceará State
Brazil

Recover 5 ha of degraded area in the location indicated by the technical studies of the State Action Plan to Combat Desertification – PAE-CE as a Susceptible Core to Desertification in the sub-basin of Brum's creek in the Municipality of Jaguaribe, to promote the conservation and sustainable use of natural resources and the availability of a technique that can be multiplied to recover degraded areas in other similar physical conditions. Management techniques are being applied in the area of intervention involving from the site preparation, construction of stone dams for containment of sediment, planialtimetric surveying, construction of terraces, scarifying and plowing, to the application of inputs for recovery, which are manure and litter. This is called "Inoculum Technical" which allows, after a certain period, the improvement of the physical and chemical soil properties, and its recovery of microbial and plant life coverage.

www.funceme.br
Awardee

Caatinga Association

Place of activity
Municipality of Crateús,
Ceará State
Brazil

The project "Climate of Caatinga" aims to contribute to the mitigation of potentiating effects of global warming and promote climate adaptation through fixation and reduction of CO2 emissions through activities to conservation of Caatinga and is structured into four main themes, namely:

1) Conservation: Protecting the Serra das Almas Nature Reserve through the implementation of actions in its management plan and encouraging the creation of new protected areas;

2) Forest Restoration: Combine Caatinga conservation and sustainable use through forest restoration in degraded areas, protection of springs and riparian vegetation;

3) Sustainable Technologies: promote ownership of sustainable technology use and management of natural resources of the Caatinga by communities around the reserve;

4) Environmental Education: promoting transversely, environmental education and conservation of natural resources of Caatinga and stimulate society engagement in support of this cause.

www.acaatinga.org.br

www.noclimadacaatinga.org.br
BRAZIL DRYLAND CHAMPIONS 2014

Awardee
Foundation Centre for Ecology and Social Integration - CIS Foundation

Place of activity
Northwest of Ceará State
Brazil

The "Alive Hinterlands: Learn and Work in the Caatinga" Project develops actions for recovering deforested areas in the northwestern region of Ceará, besides the use of techniques for soil conservation which faces enhanced anthropogenic exploitation in areas around the Ubajara National Park. The Caatinga’s degradation process occurs with the forest cover loss caused by agricultural model derived from the coivara, and the irrational extraction of ore (limestone), clay for tile and brick production, burning wood as firewood and coal production. The region is inserted in degraded areas susceptible to desertification, despite the dichotomy involving the Municipalities of Tianguá, Ubajara and Ibiapina for being in the areas of Atlantic Forest remnants, however part of these Municipalities are facing the cited damaging effects of Caatinga’s degraded areas. The combination of these factors has been providing reductions of biodiversity quality and potential for sustainability of the local population.
BRAZIL DRYLAND CHAMPIONS 2014

Awardee
Associação Plantas do Nordeste - APNE

Place of activity
Caatinga biome
Northeast Brazil

APNE has been promoting conservation and sustainable management of the Caatinga since 1994. Scientific knowledge gathering is linked with sustainable community development activities. APNE coordinates the Caatinga Forest Management Network with more than 15 regional institutions (universities, research institutions, private sector) and implements research on sustainable caatinga forest management techniques and the results have supported government policies. Community forest management is being supported in more than 40 rural settlements, covering more than 15,000 ha of managed forests and involving about 1,000 rural families. Species specific management and harvesting techniques have been developed in collaboration with Kew and the Ministry of Environment. Nature conservation is being supported by cooperating in the maintenance of the privately owned RPPN Almas (3,505 ha), the third biggest private nature reserve in the Caatinga.

APNE’s website http://www.cnip.org.br/ offers several data bases on natural resources of the Caatinga.
Awardee  
Araripe Foundation for Sustainable Development

Place of activity  
Northeast Brazil

The Araripe Foundation operates in the semiarid region with innovation, dissemination and replication of technologies related to social and living conditions in the semiarid region. The strategy is guided in the use and sustainable management of land and forest resources as an asset to generate income, fixing the man in the countryside, with food, water and energy security, always considering conditions and skills of gender, in which women also are the focus of their actions, as well as young people, not only the man or householder. In addition to direct and adapt activities and behaviors aimed at maintaining the health of the family. Specifically, the actions are the reestablishment of the productive capacity of land, water recharge, retention and reversal of erosion, management of timber and non-timber forest products, working together in the extractive, traditional and entrepreneurs consuming communities, enjoying or using raw materials of natural resources in the industry.
Awardee
Projeto Conceito Base Zero – CBZ

Place of activity
Caatinga biome
Northeast Brazil

The Zero-Based Concepts - CBZ seeks to take advantage of the incident energy of rainwater in an agricultural area, adjusting the terrain to natural water flows, thus favoring the retention of sediments without causing salinization and optimizing the use of biomass and soil elements. The CBZ works to ensure groundwater recharge, avoiding the destructive effects of rains in the watershed. The CBZ are dams shaped as roman arcs lying and inclined. It is built with stones of the region, without grout, stowed in an intelligent way, so that they work structurally with its own compression. The dams, coupled in series, end forming plateaus due to the natural erosion caused by rainfall in the adjacent slopes. Plateaus are formed fertile, enabling normal agricultural production, retaining water in the soil that can be used throughout the year.
BRAZIL DRYLAND CHAMPIONS 2014

Awardee
Advisory and Management in Studies of Nature, Human Development and Agroecology AGENDHA

Place of activity
12 Municipalities of
Água Branca and Olhos D’água do Casado
Alagoas State
Canudos, Jeremoabo
Santa Brígida and Uauá Bahia State
Jatobá, Petrolândia and Tacaratu,
Pernambuco and Canindé do São Francisco
Poço Redondo and Porto da Folha
Sergipe State
Brazil

The project Geoagroecológic Stoves, social technology comprised of:

(i) Agro-ecological and Social Training for Teachers;
(ii) Agro-ecological and Social Technical Assistance and Rural Extension; and
(iii) Changing of materials for construction of stoves using waste wood and other forest and agricultural biomass, and aims to:
   a. improve human health and life quality, especially of women, with the removal of smoke from house (smoke inhalation is the 3rd cause of death for poor people in the world);
   b. improve the environment by ending tree cutting and deforestation, biodiversity conservation and maintenance of environmental goods and services of forests; and
   c. reduction of climate impacts (reduction of carbon emissions and particles).

The Project seeks to benefit families and Ethnic Communities and Traditional Funds Pastures, Agro extractives and Family Farming.

www.agendha.org.br

https://www.facebook.com/pages/AGENDHA/242788222416977?ref=hl
Several climate change scenarios indicate that the Semiarid of Brazil is very vulnerable to climate variability and particularly to its extremes. Land use and land cover changes in the semiarid region have been accelerated in the last decades due to both climatic and human factors. Therefore it is essential to elaborate an early detection system of drought and desertification. For this purpose, a geographical database with physical, environmental and socioeconomic information is being developed, allowing the interaction of drought and desertification indicators. The early warning system will integrate remote sensing data and weather forecasts that will enable a continuous assessment of the most susceptible areas, improving the understanding of the combined effects of drought and desertification. It is expected that the alert system should consider principal causes for desertification to identify the susceptible areas to desertification. Besides that it should provide tools and information for sustainable planning to decision makers.
Awardee
Fazenda Tamanduá Institute

Place of activity
Santa Teresinha and Patos Municipalities
State of Paraiba
Brazil

This project is designed to implement a sustainable tropical dry forest management. Besides providing a source of energy local populations and small industries (such as ceramic factories) are in demand of, by offering (certified) charcoal (obtained with approx. efficiency of 37%), and wood for fencing, it also integrates non-forestry products such as honey and fruit, and integrating forage production for cattle in a way to avoid overgrazing and its consequences.

The project is in its final phase for administrative approval. Yet, in parallel researchers are convening in a multi-disciplinary effort to generate holistic understandings, involving but not limited to, the federal Universities of Paraiba (UFPB), Campina Grande (UFCG) and Pernambuco (UFPB). The objective is to submit such projects to funding entities. This does involve forestry engineers, biologists studying fauna and those studying flora, and integrate their efforts and their findings from the very beginning. The objective is to generate data about the dynamics of this type of human intervention, not available today for this specific area of the Paraibean Caatinga, to aggregate information for better and sustainable resource management.

www.fazendatamandua.com.br
Awardee
National Institute of Meteorology – INMET

Place of activity
Brazil

The INMET's activity is to provide weather information to Brazilian society and influence constructively in the decision making process, contributing to the sustainable development of the country. This mission is achieved through monitoring, analysis and prediction of weather and climate, which are based on applied research, working in partnership and sharing of knowledge, with an emphasis on practical and reliable result. Producing and disseminating weather information, warnings and special weather reports daily, nationally; promote the implementation of meteorological and climatological studies and surveys applied to agriculture and other related activities; coordinate, develop and implement programs and projects, agrometeorological research and monitoring of climate and environmental change; establish, coordinate and operate networks of meteorological observations and data transmission, including those integrated into the international network; propose a schedule and monitoring the implementation of capacity building and training of human resources in meeting specific technical demands.

http://www.inmet.gov.br/