



## Action Plans for 2019

### Summary of Goals

1. Measure the Monteverde District's progress in reducing emissions, increasing carbon sequestration, and adapting to climate change in the Monteverde District.
2. Develop a Plan for Adaptation to Climate Change for the Monteverde District.
3. Inspire and empower people to lower their emissions, capture more carbon, and adapt to climate change.
4. Build capacity to implement low-emission technologies, capture carbon, and adapt to climate change.
5. Mobilize the resources needed to implement the plans outlined for goals 1, 2, 3, and 4.

#### **Goal 1. Measure the Monteverde District's progress in reducing emissions, increasing carbon sequestration, and adapting to climate change in the Monteverde District.**

*Objective 1.1. Begin to measure the Monteverde District's emissions for 2019.*

Activity 1.1.1: Streamline and improve the methodology for data collection and reporting.

Activity 1.1.2 Begin to work with farmers, businesses, and government to collect emissions data.

*Objective 1.2. Publish CORCLIMA's 2016 data and inventory process.*

Activity 1.2.1. Upload the information to SINAMECC, the national platform for climate change metrics, when it is launched.

Activity 1.2.2. Upload the information to the Global Covenant of Mayors database.

*Objective 1.3 Continue to measure carbon sequestered in the Monteverde District*

Activity 1.3.1. Measure trees greater than 10 cm in diameter at breast height in 24 20 m x 20 m plots in randomly selected forests in the Monteverde district and calculate carbon sequestered using land use maps and aerial photographs.

## **Goal 2. Develop a Plan for Adaptation to Climate Change for the Monteverde District**

*Objective 2.1: Understand vulnerabilities to climate change in Monteverde and develop a plan to minimize them.*

Activity 2.1.1: Identify, map and analyze climate vulnerabilities and risks in Monteverde using existing studies and new data.

Activity 2.1.2: Evaluate potential adaptation measures and relevant technologies and draft the adaptation plan.

## **Goal 3. Inspire and empower people to lower their emissions, capture more carbon, and adapt to climate change.**

*Objective 3.1: Monteverde residents understand and identify with CORCLIMA's mission.*

Activity 3.1.1: Revise, improve, and implement CORCLIMA's Communication Plan including, but not limited to:

- growing our social media following,
- expanding the team of CORCLIMA speakers in order to respond to increasing demand,
- producing one program per month with Zona Alta Medios,
- publishing a children's book/audio/video on climate action,
- publish at least one blog post per month,
- producing videos to promote adopting new technologies and mitigation practices,
- participating in local parades and fairs.

*Objective 3.2: Monteverde residents and visitors understand what they can do to mitigate and adapt to climate change.*

Activity 3.2.1: Incorporate how-to-actions from the activities of goal 4 into the communication plan in 3.1.1

Activity 3.2.2 Implement the project *Empowering Stakeholders with Communication Tools to Galvanize Action*. (See 1d. CRUSA CORCLIMA Communication Tools)

Activity 3.2.3. Hold a second Climate Action Workshop for local tourist businesses and organize climate mitigation activities with guides through Acción Climática Turística Monteverde (ACTUR).

Activity 3.2.4. Organize the Monteverde Sustainable Mobility Fair including the launching of the Ruta Eléctrica Monteverde.

Activity 3.2.5 Support teachers to improve climate change education in the schools.

*Objective 3.3: Serve as a model of de-carbonization and resilience to climate change for other towns and regions.*

Activity 3.3.1: Reach national and international audiences through the revised communication plan (activities 3.2.1 and 3.2.1).

Activity 3.3.2. Share the infographics and workshop plans of Activity 3.2.2 *Empowering Stakeholders with Communication Tools to Galvanize Action* with CRUSA for distribution to non-profits throughout Costa Rica.

Activity 3.3.3 Continue to support tourist guides in inspiring travelers to act on climate change through ACTUR and by supporting INA in including climate action in their guide courses nationally.

Activity 3.3.4 Invite other municipalities to the Monteverde Sustainable Mobility Fair. See activity 3.2.4.

#### **Goal 4. Build capacity to implement low-emission technologies, capture carbon, and adapt to climate change.**

*Objective 4.1 Begin to develop and implement a plan for accessible, safe and sustainable transportation in Monteverde that focuses on an intermodal system for collective, electric, bicycle and pedestrian transportation.*

Activity 4.1.1 Assess current transportation needs, limitations and resources in the Monteverde District and surrounding areas through a participatory study.

Activity 4.1.2 Begin to experiment with prototypes of collective transportation.

Activity 4.1.3 Install infrastructure for pedestrians and cyclists.

Activity 4.1.5 Launch *Bicionarios de Monteverde*, a campaign to encourage biking as a safe mode of transportation.

Activity 4.1.5 Establish and promote the *Ruta Eléctrica Monteverde* and begin to scale it to other tourist destinations in Costa Rica.

*Objective 4.2 Reduce consumption of Liquid Petroleum Gas (LPG).*

Activity 4.2.1: Encourage the use of induction cooktops instead of LPG.

*Objective 4.3 Increase the use of solar panels and solar water heaters in Monteverde.*

Activity 4.3.1: Continue to connect people interested in installing solar panels with information, resources and service providers.

Activity 4.3.2: Explore and experiment with solar energy options that are more accessible to low income families.

*Objective 4.4. Increase forest cover and connectivity.*

Activity 4.4.1 Support the Monteverde Institute in planting 37 hectares with native tree seedlings, grow 30,000 tree seedlings for planting in 2020, and prepare to scale reforestation in 2020.

*Objective 4.5 Empower communities to have regenerative economies that promote resilience to climate change.*

Activity 4.5.1 Collaborate in the design and fundraising of a plan for local production within a Circular Economy.

*Objective 4.6. Reduce emissions from livestock while lowering costs for farmers.*

Activity 4.6.1 Work with MAG and the ASADA Santa Elena to develop a project to promote the installation of bio-digesters to manage manure, produce biogas, and treat waste water.

Activity 4.6.2 Continue to support MAG in encouraging farmers in feeding more high quality forage and less commercial concentrate to livestock.

Activity 4.6.3 Develop a project proposal to train local farmers to produce struvite fertilizer from wastewater.

*Objective 4.7 Reduce the use of commercial nitrogen fertilizers.*

Activity 4.7.1 Develop a project proposal to encourage and facilitate the use of compost, struvite and bio-digester sludge instead of chemical fertilizers.

*Objective 4.8 Reduce the organic waste sent to the landfill while increasing the amount of compost produced locally by transforming Monteverde's organic waste into valuable resources.*

Activity 4.8.1 Support COMIRES in expanding the municipal treatment facility to process commercial organic waste.

Activity 4.8.2: Publish a bilingual virtual manual with 15-20 options for home composting.

*Objective 4.9 Identify ideal sites for a wastewater treatment facility for Santa Elena and complete the initial design for the facility.*

Activity 4.9.1 Support the Special Commission for the Management of Water Resources (CEGIREH) in designing a low emissions waste-water treatment plant that recovers resources.

*Objective 4.10: Reduce emissions from refrigerants by managing their disposal.*

Activity 4.10.1 Train local technicians in managing refrigerants.

Activity 4.10.2 Build the capacity of COMIRES and other municipal waste commissions in order for them to collect and dispose of refrigerants as part of their special waste treatment plans.

Activity 4.10.3 Raise funds to create a campaign to educate Costa Ricans about greenhouse gas emissions from refrigerants and give specifics about how to minimize them.

**Goal 5. Mobilize the resources needed implement the plans outlined for goals 1, 2, 3, and 4.**

*Objective 5.1: Cultivate financial and in-kind support to finance these activities.*

Activity 5.1.1 Identify potential funding sources and apply for grants.

Activity 5.1.2 Activate the carbon offset fund, *Compense Su Huella*, at the Monteverde Community Fund by launching the online calculator and obtaining the commitment of businesses to include the button their websites.

Activity 5.1.3 Optimize the use of volunteers and interns.