



Spotlight

Embrapa contributes to the fourth national inventory of greenhouse gas emissions



Source

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By the end of this year, the Brazilian government must submit its 4th National Communication to the United Nations Framework Convention on Climate Change (**UNFCCC**). The report, published every four years, presents an overview of the implementation in the country of the so-called Climate Convention and has as one of its main components the revision and update of the National Inventory of Anthropogenic Emissions and Removal of Greenhouse Gases (**GHG**) Controlled by the Montreal Protocol.

Under the general coordination of the Ministry of Science, Technology and Innovations (**MCTI**), the National Communication had approximately 400 specialists from different Brazilian institutions. Embrapa Informática Agropecuária researcher **Dr. Eduardo Assad** is responsible for the technical and scientific coordination of the National Inventory, through the Clima Network. The final document was approved by the interministerial committee on the 9th.

In addition to a commitment made by Brazil since 1998, following the adhesion to the Climate Convention, the elaboration of the inventory makes it possible to monitor actions to reduce emissions and adapt to climate change, support decision making and guide public programs and policies. "The inventory, which makes up the National Communication, is the country's official database and also plays a key role in discussions about Brazil's goals for the Paris Climate Agreement, the so-called NDCs or Nationally Determined Contributions", explains Assad.

The fourth edition of the inventory covers the period from 2011 to 2016 and includes the official data for estimates of GHG emissions and removals for five sectors: Energy; Industrial processes; Agriculture; Waste; and Land Use, Land Use Change and Forests. Each of them also has subsectors, categories and subcategories, accounting for more than 100 activities. Except for Industry and Energy, Embrapa collaborated directly in all other sectors.

In agriculture alone, the Company was ahead of the seven sub-sectors analyzed: Enteric Fermentation, with researcher **Dr. Alexandre Berndt** , head of R&D at **Embrapa Pecuária Sudeste** ; Managed Soils, Limestone Use and Application of Urea, with researcher **Dr. Bruno José Alves** , from **Embrapa Agrobiologia** ; Burning Agricultural Waste, with researcher **Dr. Ana Paula Packer** , head of TT at **Embrapa Environment** ; and Rice Cultivation, with researcher **Dr. Walkyria Scivittaro** , from **Embrapa Clima Temperado** . The technical coordination of the sector is made by Professor **Dr. Stoécio Maia** from the Federal Institute of Alagoas (**IFAL**). The results of the inventory for agriculture also involved the collaboration of researchers from Embrapa Agrobiologia, Embrapa Rice and Beans, Embrapa Cattle of Milk, Embrapa Environment, Embrapa Soils and Embrapa Swine and Poultry.

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Source: Graziella Galinari, Embrapa Informática Agropecuária.

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