



**Politecnico
di Torino**

Honors Thesis

Master of Science in Sustainable Architecture

Abstract

As relatively recent as green or sustainable architecture is, this design philosophy has already reached a tipping point. With approximately 40 years of application to environmental design problems, it is paradoxically becoming obsolete. The latest environmental diagnoses carried out by different non-governmental organizations have revealed the strong environmental deterioration and have become the basis for questioning what we consider green design, and for the formulation of new architectural design currents that seek to overcome the design parameters that sustainable design presupposes at the moment. This document is the result of research on the environmental conditions in which Planet Earth finds itself and how architectural design has tried to find solutions to combat climate change and other ecological challenges, for the formulation of an eco-productive urban facility, which in turn aims to contribute knowledge to the design currents that improve the concept of sustainable design. For this purpose are done a review of the conditions of the environment at a global level, a review of the concepts that have been proposed by architecture for sustainable development, an exposition of the concept of eco-productivity developed by the Colombian architect Andrés Ibáñez and a second diagnosis that shows the main environmental problems in Bogota to trigger the formulation of the project. The proposed project is a Research Center of Wetlands, which is one of the most important ecosystems in the region where Bogota is located, in Colombia.

Title

Wetlands Research Center. Eco-productive facility to promote the environmental restoration of the sector around the wetland of "Techo", in Bogotá.

Tutor/Correlator

Francesca De Filippi
Matteo Robiglio

Candidate

Santiago Aycardi

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For info:

s.aycardic@gmail.com