

Template for Evidence(s) UI GreenMetric Questionnaire

University : IFSULDEMINAS
Country : BRAZIL
Web Address : <https://www.ifsuldeminas.edu.br/index.php>

[4] Water (WR)

[4.2] Water Recycling Program Implementation



Figure 1: Campus Inconfidentes rain harvesting system.

Figure 2: Campus Muzambinho rain harvesting system.



Figure 3: Campus Machado first invention patent, a water-free coffee peeler machine.



Figure 4: IFpluvial project.



Figure 5: Rectory rainwater reservoir tank.



Figure 6: Rectory sign indicating reused water tap.

Description

Figure 1: Campus Inconfidentes rain harvesting system

Rainwater catchment system in Milk Cattle and INCETEC, in the Pedagogical Block of Environmental Management, in the Fruit and Vegetable Processing (PFH) sector and already in viability for other sectors. In the PFH, 5,000 liters to receive and store and another 1,000 liters which is the discharge supply - all piping and storage box in the slab is individual, there is no distribution of reuse water for potable purposes (sinks). In the GA Pedagogical block, 15,000 liters already installed and awaiting the installation of another box of 15,000 liters. Source: Campus Inconfidentes.

Figure 2: Campus Muzambinho rain harvesting system

With the capture of rainwater from the facilities, Campus Muzambinho reuses 80,000 liters of water. 50,000 liters in the Free Stall facilities being used for cleaning the facilities; 20,000 liters in gardening and landscaping sector used to perform irrigation in nurseries and 10,000 liters in hospital also used for cleaning the premises. Recycling wastewater from biodigesters generates 300,000 liters per month of biofertilizer, which is applied to campus agricultural areas improving soil fertility and decreasing fertilizer use chemical. Source: Campus Muzambinho.

Figure 3: Campus Machado first invention patent, a water-free coffee peeler machine

IFSULDEMINAS received last September its first patent. The National Institute of Intellectual Property (INPI) has recognized the inventive property of a waterless coffee peeler, a project developed in 2015 through a public-private partnership. Available at: <https://portal.mch.ifsuldeminas.edu.br/noticias/2227-patente>. Video: <http://g1.globo.com/mg/sul-de-minas/jornal-da-eptv-2edicao/videos/v/maquina-que-prometedescascar-cafe-sem-usar-agua-e-desenvolvida-em-machado-mg/4337429/>.

Figure 4: IFpluvial Project

IFPLUVIAL project plans to double reuse water catchment capacity at IFSULDEMINAS by end of 2019. The objective of the institutional project is to implement and / or adapt, in all nine units of the institution, rainwater collection, storage and use systems in order to use it to clean external areas (courtyards and streets), irrigation (gardens and plantations), animal facilities (freestall, hospital and veterinary clinic), preservation of water and sanitary conditions, ie health and hygiene (toilets and urinals) and for fire fighting technical reserve. Available at: <https://portal.ifsuldeminas.edu.br/index.php/ultimas-noticias-ifsuldeminas/78-noticias-da-prodi/3077-ifpluvial>.