

Electrification of the UAB fleet by integrating electric bicycles

2015

 **University**
Autonomous University of Barcelona - UAB
Country
Spain

Location 
Peri-urban

Size 
40,000-50,000

Mobility Organizational Structure 
Mobility Planning and Management Unit

Summary

Provision of electric bicycles so that the UAB staff can use them to make their on-campus trips.

Aims

Simplify access to bicycles by promoting their use by UAB employees for trips within the campus, reducing on-campus travel by motorised vehicles and parking infractions.

Stakeholders

UAB.

Background

Not available.



Description

This action is part of the BiciUAB Project. The UAB Campus Integral Bicycle Project, approved in October 2014, describes the actions of the fifth strategic line of the UAB Mobility Plan related to encouraging the use of the bicycle. This Project considers actions in all aspects related to the use and promotion of the bicycle including infrastructures, parking racks and services.

The reference document for the PMUAB is the Strategic Accessibility Plan (2006) which defines the University sectorial policy for mobility and accessibility: A tool that establishes the principles, objectives and basic strategic lines for mobility management, with the objective of maximising the campus accessibility parameters of efficiency, sustainability, safety and equality.

Staff in many faculties and centres often need to travel to other campus buildings. In view of the configuration, distances and geography of the

Campus, the electric bicycle is a good option for these trips. In this regard, the Mobility Planning and Management Unit (UPGM) has purchased 13 second-hand electric bicycles and distributed them to centres interested in this project. The bicycles have been financed equally between the Mobility Planning and Management Unit and the centres themselves, 50% each. They have also been provided with helmets and security chains. Each centre establishes the protocol for using these bicycles as they see fit. The bicycles are maintained, for the time being, by the workshop of the University car pool.

The bicycle fleet is second-hand as it was used for the UAB pilot test for free bicycle sharing during the 2015-2016 academic year.



Indicators

- Number of km travelled by employees by bicycle for on-campus trips.
- Amount of CO2 and fuel saved.



Results

Many of these trips were made by car. Its replacement by the bicycle has reduced the associated contamination, but above all the parking problems caused by these short trips.



Expense

Average of 800.00 euros per bicycle.



Financing

UAB budget.

Findings

The introduction of the fleet of electric bikes implied a change in the habits of employees. Therefore, the provision of these bicycles is insufficient if it is not complemented by regular informative and awareness campaigns and the discouragement of the use of cars.

Pictures



Fig. 1. One of the electric bicycles of the UAB electric fleet

Links

- <http://www.uab.cat/web/la-movilidad-en-la-uab/el-proyecto-biciuab-1345676563240.html>

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