

Trinity College Dublin
The University of Dublin

ECO Flow

Innovate : Ventilate : Regulate

01 Overview

Comfort of passengers is a big problem on public transport. We wanted to improve temperature regulation on buses. This will improve air quality and reduce condensation.

02 Solution

We designed a new bus window that slides open instead of slamming. The window will automatically open and close depending on temperature and air quality.

03 How It Works

There will be sensors distributed around the bus that will send a signal to the motors in the window when the window need to be opened. It will then close when the temperature is at a comfortable level again.

04 Features/Benefits

The window has an override button in case of a malfunction. There are rain covers over each slat to prevent rain getting through the gaps.

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Group 8 intends to prioritise the comfort of passengers and create a more enjoyable experience for all, through the addition of automatic windows and sensors that will improve air quality and temperature regulation on public transport.