# http://2014.igem.org/wiki/images/2/26/DTU-Denmark_Spinach2_standard.pngPower savings

Figure 1 - Comparison between the power usage of the RIO and the integrated electronics

Due to a rule change in the competition[[1]](#footnote-1), one of our goals is to make the system use less power.

The main power saving is done by the replacement itself, as the integrated electronics is very barebone and therefore does no unneeded operations. A comparison between the power usage of the two systems can be seen on figure 1.

# Introduction

The DTU Roadrunner team is seeking to replace an important motor control component in the ecocar.

DTU roadrunners is participating in the Shell Eco marathon, and due to a rule change, power consumption is now counted to determine the fuel efficiency of the car.

Combining this with a goal to reduce the overall weight of the car, this project focuses on replacing a very power consuming component, the National Instrumets Reconfigurable I/O (RIO), with our own integrated electronics.

1. Make sure we talk about this elsewhere, or rephrase it here [↑](#footnote-ref-1)