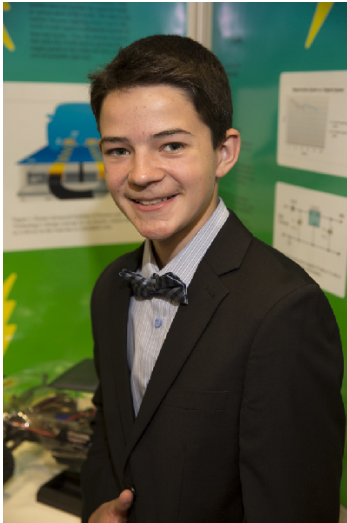


## CWSF 2016 - Montreal, Quebec



### Nick Cusack

#### Leave the Gas, Save the Grass

**Challenge:** Innovation

**Category:** Intermediate

**Region:** Fundy

**City:** Summerville , NB

**School:** Hampton High School

**Abstract:** For my project I created a regenerative system for an electric vehicle. The concept recharges the car as it drives, theoretically letting it drive without ever having to stop and recharge. I was able to create enough energy wasted in the spinning wheels to be able to recharge the battery without having to plug it into an outlet to charge.

#### Biography

My name is Nick Cusack, I live on the Kingston Peninsula just outside of Saint John, New Brunswick. I am in grade 8 at Macdonald Consolidated School (MCS). I love to play sports, soccer and hockey are my favorite. I got the inspiration for my project from my brother's friend who broke his arm and still drove his car. I didn't think this was safe to be doing with only one arm so I built a device that would allow people to be able to grasp objects while wearing a cast. I have broken both my arms when I was young so I knew the difficulties of wearing a cast. I would like to keep working on my prototype to make it more versatile and compact. I would also like to work with the cast itself to make it easier to work with. Advice I would give to others is to take lots of time thinking about your ideas and building on them.