

# ESPC 2012 - Charlottetown (Île-du-Prince-Édouard)



## Brooke Tower

### Pure Future Biodiesel

**Défi:** Énergie  
**Catégorie:** Intermédiaire  
**Région:** Central Interior British Columbia  
**Ville:** Prince George, BC  
**École:** Westside Academy  
**Sommaire:** Biodiesel was made using three qualities of waste vegetable oil: lightly used, heavily used and a fifty-fifty mix. Two samples of each biodiesel made was tested and analysed in quadruplicate using Gas Chromatography -Mass Spectrometry and Gas Chromatography Flame Ionization Detector. Successful implementation of this alternative, renewable fuel was determined by exploring the feasibility of the development of a cooperative in Prince George, BC.

### Biographie

My name is Brooke, I attend Westside Academy and am in grade 8. I play the Baritone Saxophone in the school band. We have won three gold medals at the District Festival. I also play the violin in the Prince George Youth Orchestra and we won a \$100 scholarship this year. I enjoy mountain biking and play soccer. I also love hiking and camping. When I graduate, I would like to become a Medical Technician. My partner and I developed this project because we enjoy chemistry and working in a lab. Our plans for the further investigation of our project is to further develop our Cooperative. My advice to future students is to find a subject you enjoy and do something with it.