

## CWSF 2015 - Fredericton, New Brunswick



### Siobhan MacDonald

#### Micro Hydro - Do a Lot, With a little

**Challenge:** Resources

**Category:** Senior

**Region:** Strait

**City:** Mabou, NS

**School:** Dalbrae Academy

**Abstract:** I calculated the potential power output of home Micro Hydro sites and used my results, in combination with watershed information, to determine the potential impact wider use of eco-friendly systems like this could have on the community of Mabou, in terms of affordable renewable energy.

#### Biography

My name is Siobhan MacDonald, I am in grade 11 at Dalbrae Academy. I live in Mabou Cape Breton. My project is Micro Hydro: Do a Lot, With a Little? discovering the impact of Micro Hydro in communities. I am an avid sailor and spend my summers on the water racing and coaching. During the fall and spring I participate in Dalbrae Academy's art program, performing in variety shows. I plan to follow the sciences when I graduate, possibly following the path of medicine

#### Awards

#### Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	
Challenge Award - Resources - Senior Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
<b>Total</b>	<b>\$2 000</b>