

CWSF 2014 - Windsor, Ontario



Dylan Peil

Solar Steam Generator

Challenge: Energy

Category: Junior

Region: West Kootenay & Boundary

City: Nelson, BC

School: Trafalgar Junior Secondary

Abstract: My project converts the sun's rays into electricity. I aim the sun's rays targeting a water boiler. I also modelled an active (heliostat) solar array. The water vapour (steam), builds up and creates pressure. The pressure is stored in the boiler until it is released. The pressure is then freed in a Tesla turbine. The turbine's shaft is connected to a generator that creates power.

Biography

I am 12 years old, and I live in Nelson BC with my dad and my brother. I attend grade seven at Trafalgar Middle School in Nelson. I am involved in Nelson Tech Club, a hacker-space club where I design and build robots as well as enjoy learning about interesting technologies. I was inspired to find a really green energy that is actually practical and can help solve personal power generation. Talking with Tech club buddies and my dad helped me come up with my project. I plan to work on making this project an actual working, full size automated version. Currently I have a full size manual version (it takes constant effort to keep it working) and a small scale automated (robotic) version that does the hard work for me. Just work on it, and don't sit around. Get it out there so you can be seen.

Awards

Value

S.M. Blair Family Foundation Award - Junior	\$500
Sponsor: S.M. Blair Family Foundation	
Total	\$500