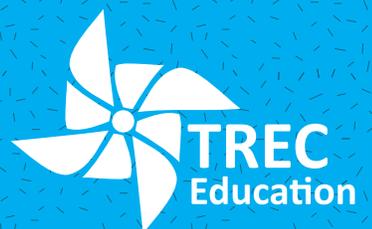




2015 Annual  
2016 Report



# TREC Education's programs enlightened 8,500 people about the power of renewable energy and conservation in 2016

**5900**  
Students

**500**

Indigenous people  
participated in  
workshops

**2**

Official  
Languages

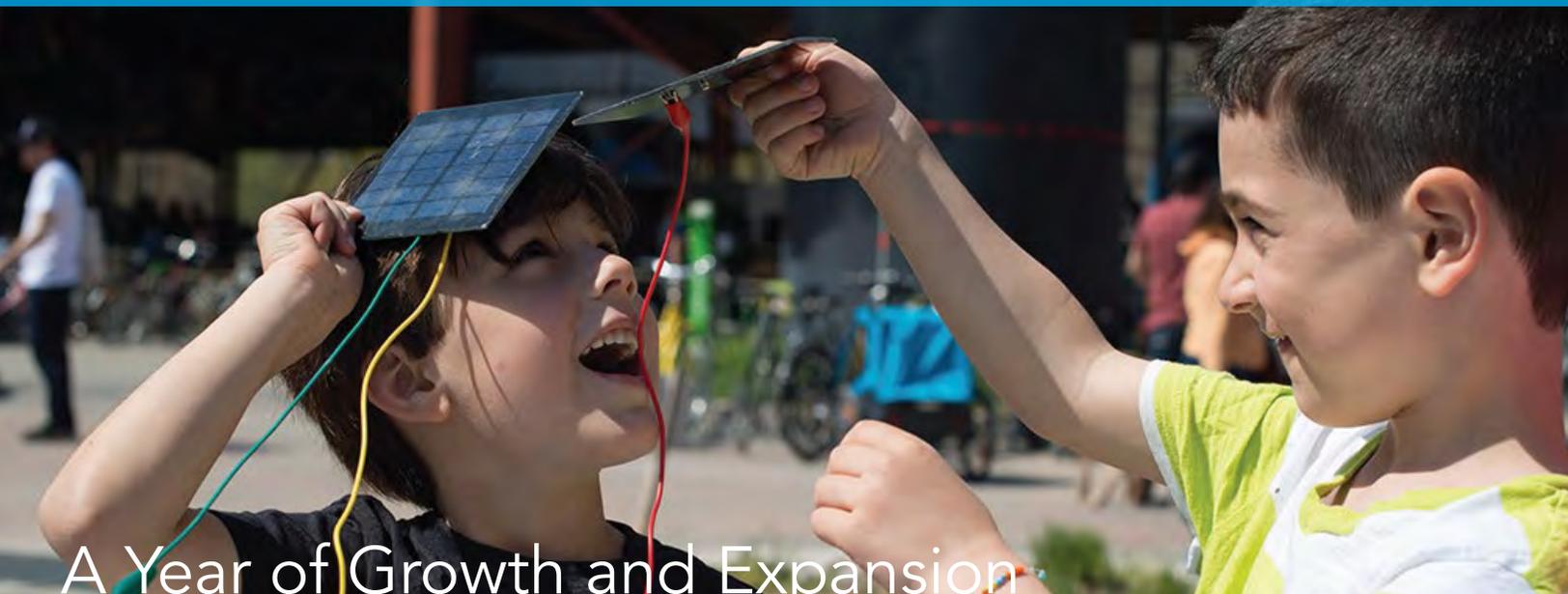
**73**

Model Wind  
Turbines Built

**2000**

Volunteer Hours





## A Year of Growth and Expansion

From Morning Star Middle School in Mississauga, you can see, and hear, the flights, coming and going from around the globe, landing and taking off at Toronto Pearson International Airport. Sights and sounds that can serve as a frequent reminder of the world beyond our borders. It was the ideal setting for what happened in Ms. Pothula's class. In November of 2015, students in Ms. Pothula's grade 7 Morning Star class participated in TREC Education's Plug in the Sun solar workshop. I can remember speaking with our facilitator after that workshop and hearing about the enthusiasm of the students. It turns out, the students were emboldened by their experience of testing solar panels and assembling solar powered cars, they had decided to design and build a mobile solar phone charging station. They contacted equipment distributors, enlisted the help of a local electrician, worked together and voila, Morning Star soon had a way to charge their mobile phones using clean energy. A hyper-local solution to a global problem.

Since the early 2000s, TREC Education's programs have engaged tens of thousands of youth and our programming continues to evolve. We developed a classroom workshop program, launched a multi-day education festival, lead students through a renewable energy design challenge, connected students to new careers, we listened to teachers and students, and we strived to continually improve the experience our programs offered. Today, we deliver workshops in Canada's two official languages and now have facilitators based in Toronto, Ottawa, and Walpole Island First Nation. We see this as just the beginning. Through feedback and survey results we know our programs are effective and engaging, and should be shared across Canada.

From climate change, to electricity prices, to pipelines, to the exponential growth of solar and wind power across the globe – energy is one of the most talked about, yet simultaneously, misunderstood pillars of modern society. Without energy literacy, how can we expect Canadians to understand the science and technology of renewables; make informed choices on energy options; conserve energy in their personal lives and be aware, and prepared, for employment opportunities in the new and exciting careers resulting from the transition to a more sustainable future.

A fair, equitable and just transformation dies in the darkness. TREC Education is committed to building on its successes and working hard with individuals, communities, co-operatives, Indigenous people and industry to shed light on the possibilities of renewable energy and conservation. We cannot allow the future to be defined by those who are clinging to the status quo.

Wesley Normington  
Executive Director



We believe learning about energy should be straight forward and fun.

Our wide range of programs illuminate energy topics by making relevant, real world connections. From building model wind turbines in classrooms to career development workshops, our experiential approach provides a lasting, meaningful impact for participants. Explore the different ways we engaged people each day through our educational programs during the 2015/2016 school year.

## Elementary

The Kids' World of Energy program helps young Canadians develop skills and interests related to the science and engineering of renewable energy generation, electricity, energy conservation and environmental stewardship through hands-on learning connected to Ontario education curriculum (i.e. grades 5, 6, 7 and 9).

Our programs use discovery-based activities and functioning small-scale wind, solar and biogas models. Each lesson is based in STEAM (Science, Technology, Engineering, Arts, Mathematics) teaching methods and are designed to excite young people about the academic and professional opportunities in these fields.

## Festival

Since 2008, the Kids' World of Energy Festival – has directly engaged over 26,000 students and parents in the connection between energy and the environment and working towards an energy conscious world.

Held at Evergreen Brick Works, a community green space in the heart of Toronto, the four-day Festival offers grade 5 and 6 students a unique range of hands-on workshops involving renewable energy, conservation, electricity, art and nature.

Our 2016 Kids' World of Energy Festival developed a new water education centre, H2O Zone, which was an enhancement of one of our main themes. We also included First Nations workshops and offered more Nature Hikes.

## Spotlight: *going provincial*

### Bilingual Development

In September 2015, we translated our elementary programs and website into the French language, we also hired our first Bilingual facilitator. Launching in our Nation's Capital, we delivered 19 workshops in French or French Immersion to over 400 students. In 2016-2017, we will begin offering French workshops in the Greater Toronto Area.

### Geographic Expansion

In September 2015, TREC Education expanded beyond the Greater Toronto Area, establishing programming in Ottawa and Southwestern Ontario. We trained three facilitators to deliver our elementary and secondary programs, engaging 629 students in these areas. We will continue to grow our reach in these regions and double that participation in 2016 - 2017.

# Secondary Programs

We offer students the chance to explore their career goals through our Green Collar Careers workshop. Students reflect on their skills and interests to match them with professions in environmental industries, as well as make comparisons of standard professionals ability to positively impact the health of our planet.

Secondary students also participate in dynamic workshops consisting of exciting demonstrations and interactive experiments using renewable energy technology. Our green energy tours for high school students offer an informative and close-up look at some of Toronto's renewable energy projects. Students learn essential information and valuable insights from a knowledgeable tour guide.

## Green Collar Careers

The Green Collar Careers Workshop is designed to allow students to identify their own career paths, and learn ways they can make a direct impact based on their passions. Students will broaden their understanding of post secondary opportunities, from entering straight into the work force to university education and explore different career options that directly help people and the planet.



*The students learned a great deal about energy and energy conservation.  
We would most certainly have this program again at our school again!*

# Indigenous Communities

In 2014, TREC Education launched the Indigenous Careers in Renewable Energy program - working with five First Nations communities in southwestern Ontario to build the awareness and ability of youth to pursue careers in the renewable energy sector.

In collaboration with individual communities, this program now provides education and skills development for community leaders and youth in First Nations communities to enhance knowledge, awareness and participation in renewable energy projects.



## Walpole Island First Nation Education Initiative

Completed from March 2016 to June 2016 – our team worked with Bkejwanong Territory, Walpole Island First Nation to deliver community events and leader workshops for residents. We hired two program staff to assist in the organization and delivery of a series of workshops, presentations and community events that took place in Walpole Island over six months in 2016.

These events are part of our Walpole Island Energy Education Initiative project that began in the fall of 2015. This project is part of our Indigenous Careers in Renewable Energy program.

Our goal is to co-develop and co-deliver workshops in the community to increase participation in renewable energy and energy conservation initiatives.

# Volunteers

Every year we rely on an amazing team of over 300 volunteers to help coordinate our events and help tackle administrative projects. We are fortunate to work with people from diverse range of backgrounds, experiences and personalities.

Our Kids' World of Energy Festival has the highest volunteer participation, with more than 200 individuals taking on a variety of tasks and responsibilities.



## 2015 Volunteer groups

- Western Technical Commercial School in Toronto (volunteered for 7 years)
- Francis Libermann Secondary School in Scarborough (volunteered for 6 years)
- Students from the University of Toronto, York, Ryerson and other area colleges and universities
- Corporate partners and members of the public

# Events

## School's Out Party

Our annual networking gala was created in 2012 to expand our audience and raise funds for our programs. A vibrant evening of entertainment, refreshments and networking with 250 professionals, we are proud to offer attendees a great experience that supports our ability to deliver our core programs annually.

On June 23, 2016 at the Steam Whistle Brewery in Toronto, supporters from the renewable energy and environment communities came together to celebrate TREC Education's renewable energy education programs. This year's fundraiser was a celebratory night of networking, a special talk from one of our teachers and student participants, and the well-loved patio. We successfully raised more than \$20,000 for our education programs.



## Eco Trivia

Started in 2014 as a way to increase our audiences, we started a free event for eco-minded adults, who may not know about our work. It's a classic pub quiz with eco themes and we're now hosting our 8th event. Held semi-annually, we've had xx attendees and helped to raise donations during our holiday campaign and increase our networks.

## Community Events

Community engagement and public education is an important part of what we do. We inform the public about the benefits and science of renewable energy, debunk myths on wind and solar power, offer energy savings tips for homeowners - all through hands-on engagement and one-of-a-kind activities.

# Our Financials

July 1, 2015 to June 30, 2016

## Breakdown of Programs

Education Support

70%

Public education  
& study

20%

10% Vocational & technical training

## Audited Financials Fiscal Year 2016

2016 Revenues: \$504,077

|                           |     |
|---------------------------|-----|
| Tax Receipted Cash Gifts: | 5%  |
| Revenue from Government:  | 13% |
| Other:                    | 82% |

2016 Expenditures: \$463,354

|                       |     |
|-----------------------|-----|
| Programs:             | 65% |
| Fundraising:          | 17% |
| Management and Admin: | 18% |

Assets 2016 Year End: \$259,851

|              |     |
|--------------|-----|
| Cash:        | 68% |
| Receivables: | 32% |
| Other:       | 0%  |
| Investments: | 0%  |

Liabilities 2016 Year End: \$160,930

|                      |     |
|----------------------|-----|
| Deferred revenue:    | 61% |
| Short term payables: | 39% |
| Other:               | 0%  |

# Partners and Supporters

Accenture  
Algonquin Power  
AMP Solar Group Inc.  
BullFrog Power  
Cachelan  
Canadian Wind Energy Association  
Capstone Infrastructure  
Chatham Kent Community Foundation  
City of Sarnia  
Echo Foundation  
EDF  
Elementary Teachers of Ontario Association  
Endura Charitable Foundation  
Fogler Rubinoff LLP  
Forests Ontario  
Fronius  
GDF SUEZ Canada Inc.  
General Motors of Canada Company  
Henvey Inlet First Nation  
Herbinger Foundation  
Hydro Ottawa  
Independent Electricity System Operator  
Jones Brown Insurance  
National Engineer Month  
Northland Power

OOSTF District 29  
Options for Green Energy  
Pattern Renewable Holdings Canada ULC  
PCL Constructors Canada Inc.  
Portlands Energy Centre LP  
Rainy River First Nation  
Ramp Communications  
RBC Foundation  
Scotiabank Foundation  
SunCor  
Sunnybrook School  
TD Bank  
TD Friends of the Environment  
The Capital Hill Group  
Toronto Hydro  
Toronto Renewable Energy Co-operative Inc.  
City of Toronto  
Trec SolarShare Co-operative (No.1) Inc.  
Trillium  
Unifor Local 444  
United Way  
Waterloo Global Science Initiative  
Wikwemikong Development Commission  
York University  
ZooShare Biogas Co-operative Inc.

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