To inspire and empower the next generation of leaders and workers who will drive the growth of a sustainable economy.
OUR MISSION
To inspire and empower the next generation of leaders and workers who will drive the growth of a sustainable economy.

OUR VISION
Our vision at Envirolution begins with our three spheres model of people, planet, and profit. We strive to create a sustainable workforce wherein citizens are able to make a living doing work that positively contributes to a sustainable and healthy society, community, and environment.

OUR GOALS
• Provide teachers with valuable STEAM curriculum, classroom resources, and professional learning opportunities.
• Engage students in meaningful hands-on programs that cultivate their knowledge and interest in STEAM and sustainability careers.
• Expand and develop programs through meaningful community partnerships.
• Increase STEAM education for girls and underrepresented populations in urban and rural areas.

LONG-LASTING PARTNERSHIPS
Envirolution works very closely with school district administrators, teachers, community organizations, and local businesses to create opportunities for Science, Technology, Engineering, Art, and Math (STEAM) career development. With a focus on hands-on service learning, our programs and partnerships not only provide career development for students but also enable our participants to give back to their communities.

Nevada Governor’s Office of Energy
Washoe County School District
Tesla
Nevada Department of Education
Arts for All Nevada
Mckinstry
NV Energy Foundation
The Power of Good is Always On
Project ReCharge is a hands-on, project-based Science, Technology, Engineering, Art and Mathematics (STEAM) curriculum and training program that engages students, teachers, and community professionals. This interactive energy education program provides valuable professional learning opportunities and classroom resources to teachers, who then empower 4th-12th grade students to become sustainability detectives focused on saving their home, school, and community money through energy efficiency and sustainability projects. Teachers and students alike are introduced to innovative lessons, energy data, and interactive dashboards as they learn about sustainability, energy generation, consumption, and efficiency.

**IMPACT TO DATE**

**172 TEACHERS**

Teachers from 75 schools & 13 school districts have been provided with over 7,800 hours of professional learning.

**48K STUDENTS ENGAGED**

Experienced a 41% content knowledge increase with Project ReCharge’s STEAM lessons.

**2,547 STEAM KITS**

2,547 individual (1-to-1) STEAM material kits sent to teachers during the pandemic.

**5 STUDENT PROJECTS**

5 student projects to be funded and implemented (Home and School LED lights, recycling bins, and composter).

**2020/2021 IMPACT**

29

13

# New Teachers

# New Schools

![Image of teacher and student engaged in STEAM activities]
**Student Demographics (NV)**

- **44.6%** are students from underrepresented communities
- **48%** are female students

**Represented Nationalities**
- **2%** Asian/Asian American
- **2.7%** Black
- **32%** Latinx
- **5.4%** Mixed
- **2.5%** Native American / Alaskan Native
- **54%** White

**Percentage of Project ReChargé Integration by NV Counties**

- 6% of ES, 94% of MS, and 45% of HS in Washoe County
- 29% of ES and 100% of MS and HS in Carson City
- 100% of MS in Nye and Churchill County
- 29% of ES, 100% MS, and 50% HS in Douglas County
- 8% of ES and 33% of HS in Elko County
- 100% of HS in Lander County
- 7% of MS and 10% of HS in Clark County

**Energy Savings**

- **$1.07M**

  Based on 8,600+ MWh of energy savings as a direct result of student-driven sustainability projects.

  - **= 737** American homes powered for one year.
  - **= 1,615** combustion cars removed from the road.

**In Classroom Materials**

- **$283K+**

  Distributed to **75 schools**

**Of 2020/2021 Teachers Recommend**

- **100%** would recommend Project ReChargé
The growth and expansion of Project ReCharge have ignited the need to establish a new advisory board composed of 12 experts from the community. Over the next two years, these individuals will help guide the growth of the program in the areas of curriculum, professional learning, and support to teachers, and expansion of the program in new schools and states across the country.

Our dedicated curriculum developer and Master Teachers are committed to updating and adding new lessons and activities to meet the changing needs of our teachers and students as well as the requirements from our industry partners.

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Career Quest is a collaborative program that connects businesses to students by exploring workplace STEAM education and sustainability-focused career opportunities. Through engaging presentations, industry tours, and hands-on activities, Career Quest introduces students to the benefits of STEAM education and local career opportunities available to them while connecting businesses to their future workforce. During the 2020/2021 school year, Career Quest provided virtual options and individually packaged hands-on kits, while in person programming was on hold. The success that we experienced by providing virtual events has inspired Envirolution to continue virtual options for Career Quest as it allows students from all parts of Nevada the opportunity to engage in workforce development opportunities. All logistics are facilitated by Envirolution, significantly reducing the impact on schools and businesses while increasing its impact and efficiency.

2020/2021 IMPACT

10 VIRTUAL EVENTS
Presented virtually by 15 STEAM Guest Speakers

858 STUDENTS
Engaged with unique workforce development experiences

11 PROFESSIONALS
Attended 2 STEAM Guest Speaker Development sessions

IMPACT TO DATE

1,544
1,544 Students have participated in Career Quest at Tesla Gigafactory NV

35
Schools from 11 school districts have participated in Career Quest at Tesla Gigafactory NV

191
Over 191 hours have been volunteered by 26 Tesla employees during Career Quest
Introduce A Girl to Engineering Day is part of a national event dedicated to encouraging girls to consider a career in engineering. During our fourth year of partnership, Envirolution and Tesla welcomed over 1,000 students across the nation for this virtual event complete with 6 interactive videos and factory tours. Through 31 live and pre-recorded messages, participants received an exclusive look inside the innovative tech company, showcasing the variety of engineering careers and the inspiring women behind them. The day concluded with a hands-on activity highlighting the basics of the electric motor and the essential engineering design process.

1,265 students registered from across 4 states, 140 schools & 39 school districts

248 volunteers signed up across 47 locations

“Amazing! Loved this event so much - inspiring and such a great way to impact future generations. Thank you for all your hard work in putting this together!”

NY Volunteer - IGED 2021

670+ hours volunteered by Tesla employees for materials preparation, trainings, & day-of activity
Thanks to support from Tesla, Envirolution has been able to start a number of new developments within our programs to impact more teachers, students, and community members. These new developments also make it easier to bring our programs nationwide.

**Sneak Peek Professional Learning:**
During these sessions, teachers are given the opportunity to complete up to 15 hours of professional learning training and participate in seven sessions where they develop their skills and learn about Project ReCharge lessons ranging from electrical generation, solar energy, wind energy, and more. Every teacher receives all of the necessary materials needed to participate in the hands-on portion of the training. These professional learning sessions are especially exciting as they are helping build the framework for the national expansion of Project ReCharge.

**Seven Hills Spring Break Camp:**
On April 5th-9th, Envirolution partnered with Seven Hills Middle School in Nevada City, CA for their Spring Break Camp. Envirolution provided 55 students with individual hands-on kits that included all the materials needed to participate in this virtual camp and even created videos to assist students in making their own simple motor, balloon car, and paper bridge. This new programming will be further developed and packaged, allowing groups throughout different regions to participate in hands-on STEAM activities, while also creating an alternative funding source for the organization.
COMMUNITY ENGAGEMENT

2020/2021 IMPACT

609 community members reached in 2021 through 19 events hosted or attended by Envirolution

93
Our volunteers have generously contributed 93 hours during materials preparation and park cleanups

PARTNER GROWTH

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"The content is very engaging and connects students to the real world. I really like how it gives students a reason to take an active part in the health of the planet."

– PRC Teacher, 2021

"It felt like I was there in person. It was so much fun exploring the Tesla Gigafactory and its inventions."

– Student, Virtual Career Quest 2021

"I had no idea Tesla had so many different fields and was part of so many different things and aspects of everyday life!"

– IGED student, 2021

"I think it’s awesome how Tesla and Envirolution are hosting this event for girls like us because we know that so many women have been put in the shadows throughout history"

– IGED student, 2021

"I appreciate what you do in supporting our teachers, students, business, and the planet! Well done packaging the three spheres! That is a great way to get it all done!"

– PRC Teacher, 2021
INSPIRING THE NEXT GENERATION

OF LEADERS AND WORKERS

WHO WILL DRIVE THE GROWTH

OF A SUSTAINABLE ECONOMY

www.envirolution.org