

**OVERVIEW** Project ReCharge is a hands-on project based STEAM (Science, Technology, Engineering, Art and Mathematics) curriculum and training program that engages students, teachers and professionals in the community. This interactive energy education program provides valuable professional development and classroom resources to teachers, who then empower middle school and high school students to become energy detectives focused on saving their school money through energy efficiency proposals. Innovative lessons, energy data and interactive dashboards engage students and teachers as they learn about energy generation, consumption and efficiency. Project ReCharge focuses on real world learning and application that has measurable impact on students, the environment and the community at large.



## SINCE 2015, PROJECT RECHARGE HAS:



Been implemented in

**40 schools across 9 school districts in the Northern Nevada Area**

Partnered with **117 middle & high school teachers** by providing them with over **6,000 hours** of hands-on professional development training

Given each teacher access to **16 hands-on STEM** lessons and activities that are aligned to **Next Generation Science Standards, Social Emotional Learning and 21st Century Competencies**



Provided our partner schools and teachers with over **\$200,000** in essential classroom materials

Engaged over **23,000 middle and high school students** with hands on STEM energy lessons



Improved student **content knowledge by 41%** while also **increasing student interest in STEM careers**



Been awarded a **Golden Pinecone Sustainability Award for Best Educational Program**

**PARTNERSHIPS** The impact Project ReCharge has made in our community is due to the established partnerships between Envirolution and the University of Nevada Reno, The National Science Foundation (Grant DRL-1433597), The Nevada Department of Education (2017/2018 MSP Grant), Tesla, Nevada Governor's Office of Energy, local foundations and all of our partner school districts (Washoe, Douglas, Carson, Lyon, Churchill, Sierra Plumas Joint Unified, Truckee Tahoe, Pyramid Lake Bureau of Indian Education, and Clark County).



## STUDENT DRIVEN EFFICIENCY PROPOSALS DEVELOPED, REFINED, FUNDED AND IMPLEMENTED

Nine LED retrofit proposals from students at Reed HS, North Valleys HS, Sparks HS, Wooster HS, Mendive MS, Dilworth MS and Pyramid Lake Jr/Sr School have together saved their schools **\$436,000 in energy costs, reduced energy use by 3,410 MW hours and cut CO2e emissions by 1,400 metric tons.**



## PROGRAM EXPANSION AND GOALS

Over the next 3-5 years Project ReCharge plans to expand throughout **Southern and Rural Nevada**, by partnering with **150 new schools** provide training, curriculum and classroom resources to **125 new teachers**, engage **100,000 new students** and assist in the development and implementation of more student proposals that will **save school districts and businesses thousands in energy costs.**



In order to achieve these goals we need the support of individuals, foundations and businesses in our community. Visit our website at **[www.envirolution.org](http://www.envirolution.org)** to learn more about partnership and funding opportunities.

“If it wasn't for Project ReCharge I would not have had the confidence to pursue a degree in Civil Engineering at UNR”

— Jackie Medina, Project ReCharge Student, Alumni class of 2018 - Wooster HS