

ENERGY SOLUTIONS CONSOLIDATED

<u>Team Member Name</u>	<u>Year</u>	<u>Major</u>
Anthony Barker	Senior	Business Administration
Colbie Cree	Senior	Business Management
Will Frank	Junior	Business Administration
Donna Lazore	Junior	Business Management
Fernando Rosas	Sophomore	Business Administration

Advisor(s): Dr. Edwin J. Portugal

Topic Title: Ethical Impacts of Electric Vehicles in Today's Society

Audience: EPA Personal

Sustainable Development Goal

SDG #15: Restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss.

Executive Summary

For many years strip mining has made widespread controversy about the environmental impact on the lands and waters. Threatening environmental, cultural, and historical destruction to the lands that belong to the Reno Sparks Indian Colony and the Summit Lake Paiute Tribes. Being Land Protectors the Paiute Tribe is pushing for the mining site to be protected under the National Register of Historic Places, due to the violations of The National Historic Preservation Act 1966 and the Native American Graves Protection and Repatriation Act of November 16, 1990.

Having many ethical issues with lithium mining we are choosing to focus on Child Labor violations and how they use children as young as seven years old in the mines. Tunnels that could collapse creating unsafe working environments and wearing no masks nor gloves causing continuous lung infections from the cobalt dust. The environmental damage from poisoning the waters, the lack of clean water supplies, and toxic chemicals that leak into the waters. The Social outrages, lawsuits and violations will also be addressed.

The Solution we are imposing would be to impose the use of Hybrid and or Hydrogen vehicles by 2030. By offering increased tax credits and higher incentives. Hydrogen cars are Fuel Celled powered vehicles that use fuel cell stacks that use pure hydrogen that passes through a membrane which combines with oxygen then produces the electricity that turns the wheels. Eliminating the use of batteries will eliminate the high demand for lithium. Along with lowering the need for lithium manufacturing hydrogen vehicles use 10 kilograms less copper or more than a regular Electric Vehicle.