



WATTS ON WATER

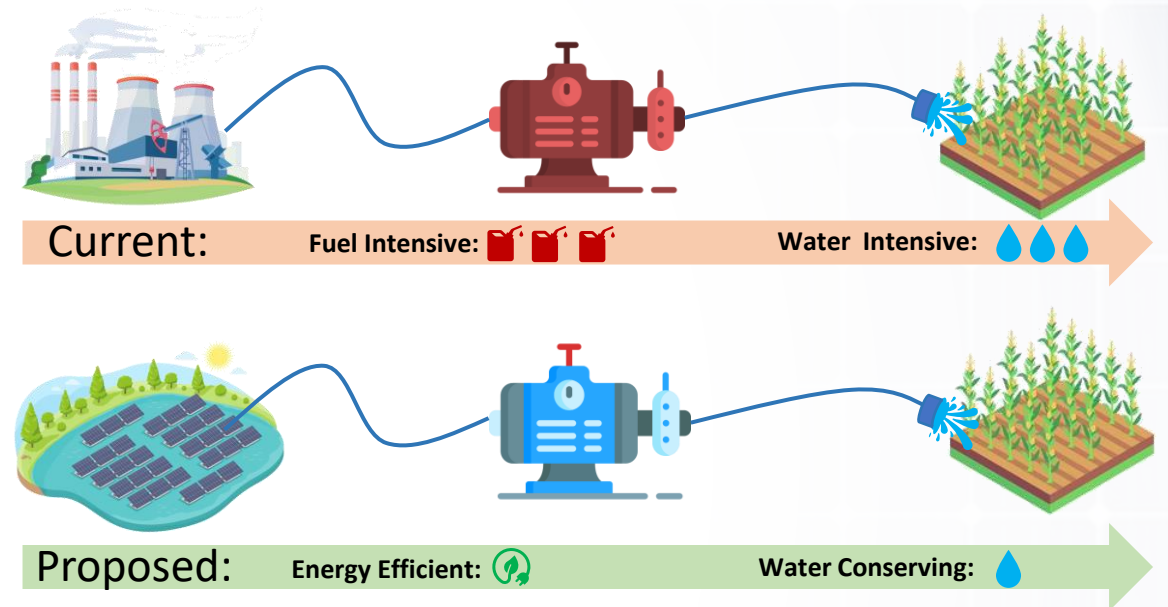
Powering Rural Farm Irrigation, Conserving Water and Directly Replacing Diesel Generators.

Problem

With worsening drought conditions and energy mandates in place, millions of acres of rural and tribal farmlands in the southwest are facing pressure to transition to renewable energy and use energy and water efficient irrigation systems. However, traditional renewable energy systems often require sacrificing productive crop land, and agrivoltaics limit the types of crops and harvest equipment that can be used. High fossil fuel costs have farmers supporting the transition, but they need an option that makes more sense.

Watts on Water Solution

Many farmers use exposed reservoirs or canals to store and transport their irrigation water. Building floating or canopy solar systems over exposed water sources change single use land into productive multi-use land and save farmers from sacrificing crop land or high grid interconnection costs. These installations would directly replace fossil fuel motors for irrigation pumping, saving on energy, water, fuel and O&M costs, which will drive quick widespread adoption.



Benefits Beyond other solar options:

- Doesn't require land development
- Doesn't limit crop type or harvest equipment
- No interruption to farm during install or maintenance.
- Panels are 2-10% more efficient from water cooling
- >85% Reduced evaporation from irrigation sources
- Reduced O&M Costs
- Serves rural and tribal land, and builds local workforce
- Reduced toxic algae growth and maintenance