

## CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

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Project Title Desalination Across the Nation	
Abstract	
There is a huge debate in Monterey right now about whether or n People say it is our only hope because of the droughtbut is it rea using solar power to evaporate the water is more efficient and use cogeneration. Currently, desalination is powered by fossil fuels, v we are going to use desalination, it will have to be powered by re or the sun. <b>Methods/Materials</b> We have tested which version of desalination is the most effective inside at room temperature, one outside using solar power, and on 150 watts. The controls in our experiments are the water, and the time was five hours, and the trial did not have enough time, so we our experiment was the level of energy and how much was used. <b>Results</b> The solar and heat lamp desalination got the same results: 311 pa temperature did not work at all. <b>Conclusions/Discussion</b> In the future, with more advanced technology, desalination could desalination, with more time than ten hours, is a also a possibility environmental impacts are too large for it to be a main water sour	ot we should have a desalination plant. ally? Our hypothesis is that desalination es less energy than reverse osmosis and which we are running out of quickly, so if enewable energy resources like the wind re. Our three different setups were: one ne inside powered by a heat lamp that is same level of salt, and the time. The e tried ten hours instead. The variable in arts per milliliter of salt. The room I be a good choice. Evaporation 7. Right now, though, the economical and rce.
Summary Statement Our project explored the pros and cons of ocean desalination and	a more sustainable alternative process.
Help Received	

Daryl Lauer, an employee of the Carmel Wastewater Facility, and Carol Reeb, a scientist at Hopkins Marine Laboratory, gave us opinions and knowledge about desalination; Karen Hansen, our sixth grade science teacher, loaned us her heat lamp.