

Electronics Club Texas Instruments Challenge

Background: As the world begins to face the existential threat of global climate change, energy conservation will become essential. Future technology must be designed to maximize the efficiency of its power consumption. This development will require creative and dedicated efforts in *low-power electronics*.

Challenge: Find an impactful problem or project that can be better optimized with low-power electronics. Utilize the Texas Instrument MSP430 microcontroller's low power mode to create a solution that minimizes power consumption. This challenge is open-ended. Be creative!

Challenge prizes: \$35 Amazon gift card (each) first place, \$20 Amazon gift card (each) second place, \$20 Amazon gift card (each) third place.

Guidelines and Tips

Visit our site: <https://electronicsclub.osu.edu/index.html>

Click the "Energia" tab on the top navigation bar for more information on the TI software!

[MSP430 Tutorial Library](#)

Judging Criteria:

1. **Impact:** Address above criteria, impact on people
2. **Innovation/Creativity:** New, effective, novel approach
3. **Level of Completion:** Functionality. Must use at least one of MSP430's low power modes
4. **Sustainability:** Minimally Viable Product Development Plan
5. **Design:** Feasibility, Capability, Quality