

Renewable Energy – The Future is Here

Exploring and Learning Today – A Summer STEM Camp

June 14-19, 2026 -- Hosted on the NWOSU campus in Alva, OK



FREE Summer STEM Camp for Oklahoma students entering grades 9-12 in fall 2026

Funded by the Oklahoma State Regents for Higher-Education and hosted by Northwestern Oklahoma State University, High Plains Technology Center,



and Next Era Energy, *Renewable Energy – The Future is Here – Exploring & Learning Today: A summer STEM camp* will engage



students in hands-on learning with experts in higher-education as well as professionals in the field of renewable energy. Students entering grades



9-12 in the fall of 2026 are eligible to apply. Students will get an inside view of a wind turbine nacelle, experience with simulators and a climbing tower, and see an operational Renewable Energy Site. Students will learn about the generation and use of electricity as well as an introduction to electronics and robotics. Students will have hands-on experiences with the Renewable Energy Trainer, a portable



Microgrid training device that includes power generation, micro-inverter, and storage using renewable energy technology. Students will also build and assemble a wind turbine, and learn about solar power as well as hydroelectric power.

Apply online at <https://www.nwosu.edu/stem-summer-camp>

(applications accepted March 1 – April 1, 2026)

Questions or for more information contact Dr. Tim Maharry @ tjmaharry@nwosu.edu or 580-327-8583



Renewable Energy – The Future is Here – Exploring & Learning Today: tentative 2026 camp schedule

Sunday, June 14:

6:30-7:30pm: Camp check-in, welcome, & orientation at Cunningham Hall, NWOSU Alva campus
7:30-8:30pm: Introductions and Ice-breaker activities

Monday, June 15: (*Introduction to SOLAR Energy*)

8am: Breakfast
9:00am: Welcome – Introduction to power & electricity activities
10:00am: Introduction to Solar Energy
Noon: Lunch
1:00-2:15pm: Solar Energy Labs & Activities with the Renewable Energy Trainer
2:15pm: Break
2:30-4:00pm: Continued Solar Energy activities/labs
4:00-5:30pm: Break/Free time
5:30pm: Supper @ Coronado Cafe
6:45pm: Movie at Rialto Theatre

Tuesday, June 16: (*Introduction to WIND Energy*)

8am: Breakfast
8:45am: Wind Energy Presentation & Activities
11:45am: Lunch
12:30-2:30pm: Wind Energy Labs & Activities
3pm: Travel to Alabaster Caverns State Park
4pm: Tour of Alabaster Caverns State Park
5pm: Supper at Alabaster Caverns State Park
7pm: Return to Alva
7:45pm: Evening activities at dorm (movies, games, swimming at Wellness Center pool, etc)

Wednesday, June 17: (*High Plains Technology Center*)

8:00am: Breakfast
9:00am: Travel to High Plains Technology Center in Woodward
10:30am: Activities/training at High Plains (safety training, simulator, wind turbine operation)
12:00pm: Lunch in Woodward
1:00pm: Activities/training at High Plains (SCADA, climbing tower, renewable energy careers)
3:30pm: Tour of wind turbine blade recycling center
5:30pm: Supper in Woodward
6:30pm: Return to Alva
7:30pm: Free time/Evening activities at dorm

Thursday, June 18: (*Tour of Skeleton Creek site*)

7:45am: Breakfast
8:30am: Leave for wind/solar site tour
10:15am: Presentation & Tour at Skeleton Creek site (near Waukomis, OK) Including Wind, Solar, & Battery storage
12:30pm: Lunch in Enid
1:30pm: Activity in Enid (mini-golf)
2:30pm: Return to Alva
4-5:30pm: Break/Free time
5:30pm: Supper at Coronado Café
6:30pm: Visit Bradt's Menagerie
7:30pm: Free time/evening activities at dorm

Friday, June 19: (*Hydroelectric power*)

8:00am: Breakfast
9:00am: Introduction to Hydroelectric power
10:00am: Labs/Activities with Hydroelectric power
10:45am: Presentation on educational opportunities leading to STEM fields by NWOSU (college readiness, educational programs, financial assistance options for post-secondary education, etc)
11:15am: camp evaluations/surveys
11:45am: check out at dorms
Noon: camp ends