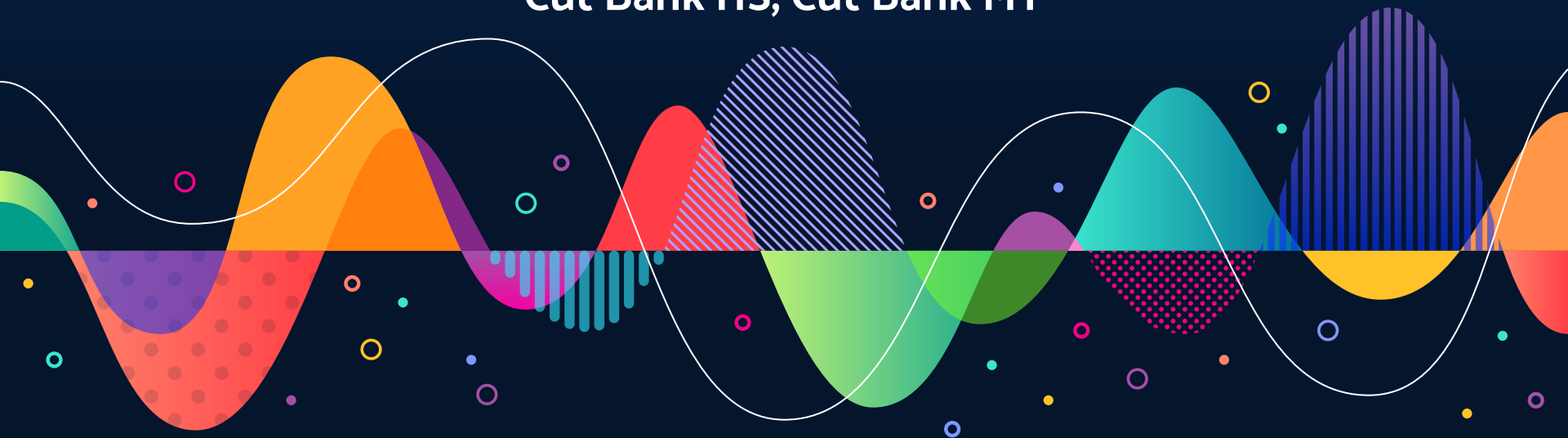
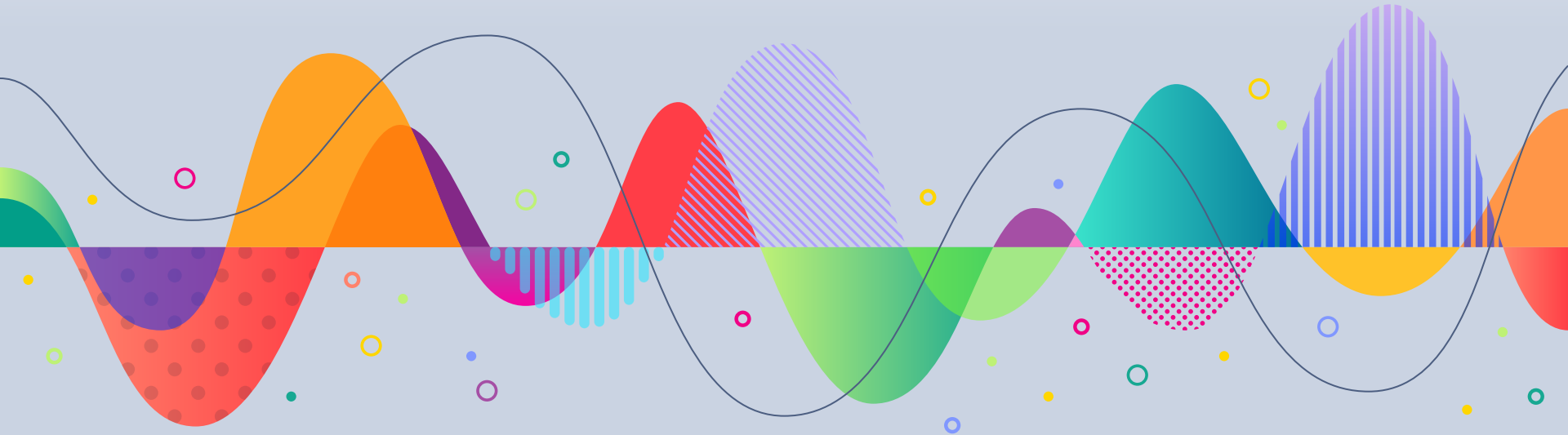


# Clean Energy Inspired Classroom Challenge

Bess Hjartarson and Kari Hinkle  
Cut Bank HS, Cut Bank MT



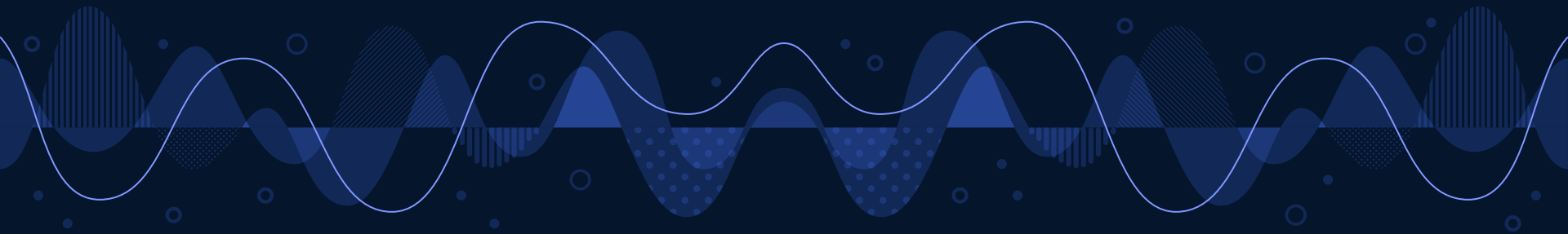
If you would like access to more information, please join our Google Classroom! CODE = `3z5xbis`



## Vision Statement



Students are challenged to use STEM skills to develop and evaluate community energy plans using the lens of environmental justice.



## Cut Bank High School, Cut Bank MT

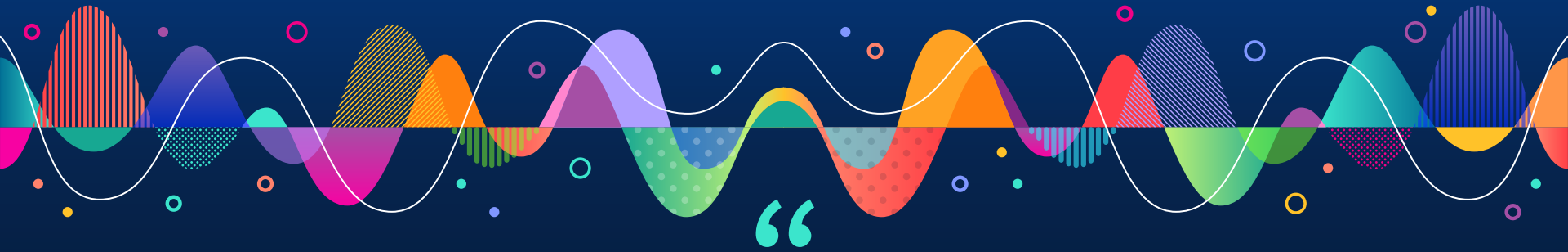
Cut Bank High School is in a rural area, neighboring the Blackfeet reservation. The town of Cut Bank has a population of about 3,000. Along with members of the Blackfeet Tribe, the community also includes several Hutterite Colonies, most of which are part of Cut Bank's school district, District #15. At CBHS we have enthusiastic science learners, however many of them come from very challenging backgrounds. Our role as science teachers is to give all of our students the opportunity to have access to the science content necessary to help them succeed as adults, whether this means college, technical school, or the workforce upon graduation.

The 2020-21 CBHS Student Data is as follows:  
Grades 9-12: 49% American Indian/Alaska Native OR 2 or more races  
Total students: 226

## Project Goals

- ▷ Develop an Inspired Classroom Challenge that will incorporate clean energy, culturally relevant curriculum with student participation in an authentic problem-solving process.
- ▷ Develop industry/tribal partnerships that can be utilized in the steps of the IC challenge.
- ▷ Develop a career pathway for renewable energy careers that is specific to Montana.
- ▷ Develop an NGSS Storyline containing the challenge steps that can be utilized in an offline format.
- ▷ Share platform (online or offline) with other teachers in a format that they can utilize with their classrooms throughout the district.
- ▷ Develop a presentation to share with educators at regional and state conferences.





## What is an Inspired Classroom Challenge?

Mentor-driven learning experiences use Inspired Classroom's proprietary software to create, manage, and facilitate learning on four easy-to-use dashboards. MentorIC software goes way beyond digital worksheets and static talking heads to deliver high-quality, interactive, authentic learning experiences.

Source: <https://mentoric.inspiredclassroom.com/>

## Industry and Tribal partners

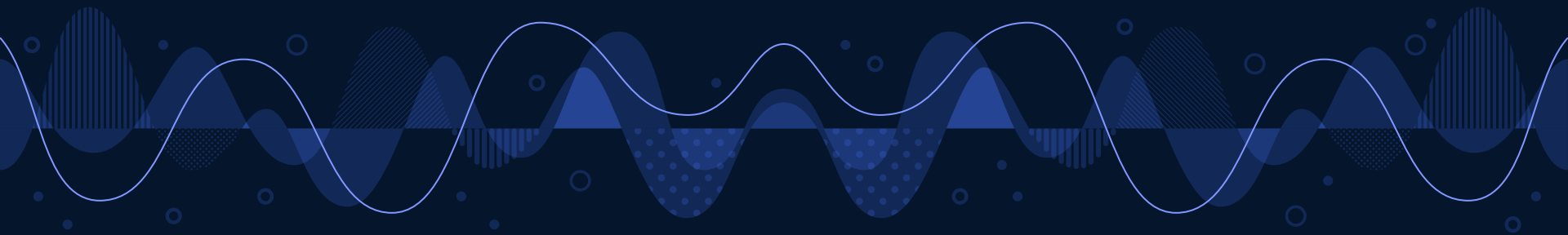


Glacier County Electric  
Cooperative- Jonnalea Tatsey

NaturEner Wind Farms- Scott  
Rooney

Northwestern Energy-Heidi  
Hockett

Inspired Classroom- Alli DePuy



## Action Plan Outline



### Phase 1: **Create**

Acquire and learn to use Mentor IC software.

Create challenge steps.

Communicate with industry partners.

### Phase 2: **Implement**

Implementation of IC Challenge.

Assess and edit.

Create offline version/storyline.

### Phase 3: **Share**

Share IC Challenge and corresponding storyline via PIR and other networking opportunities.

Develop feedback system.



# Energy IC Challenge Steps: Preliminary Outline (Student Tasks)



Step 1: Welcome! Introduce scenario and team building

Step 2: Energy transformations in clean energy

Step 3: Look, Notice, Wonder: Energy data and trends

Step 4: Learn about the industry and career pathways

Step 5: Indigenous approaches to energy projects and energy justice



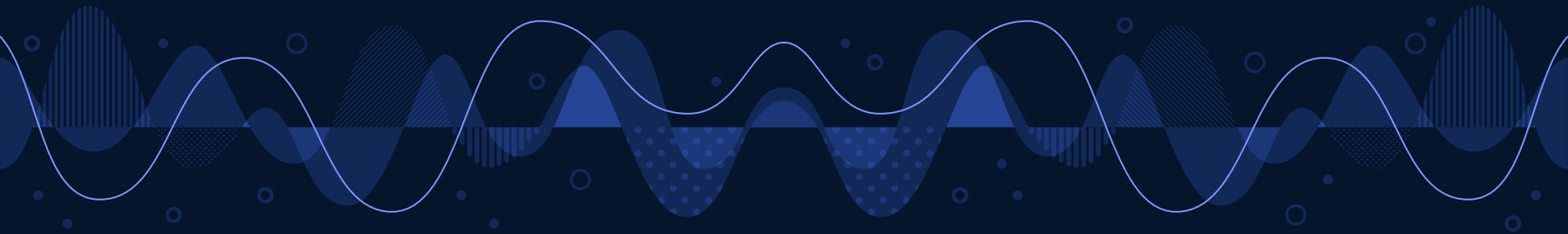
Step 6: Develop a solution

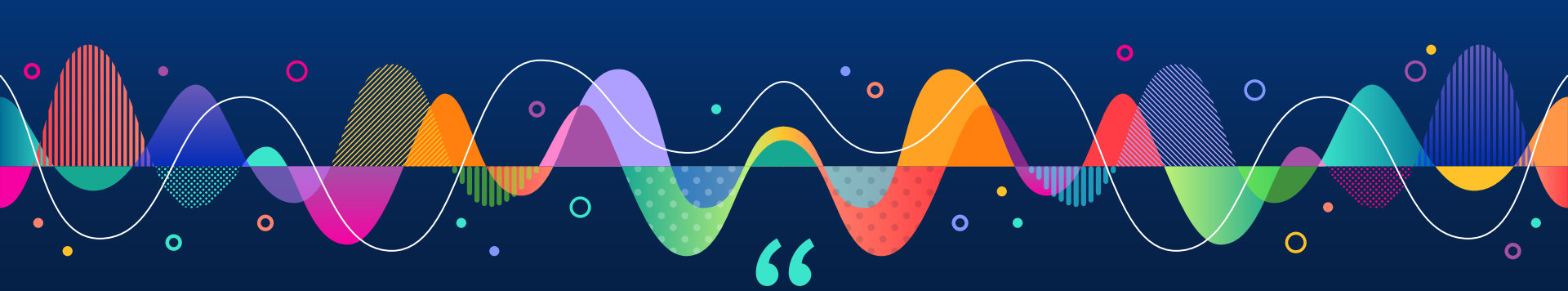
Step 7: Solution - budget

Step 8: Solution - critique and refine

Step 9: Team reflection and self-evaluation

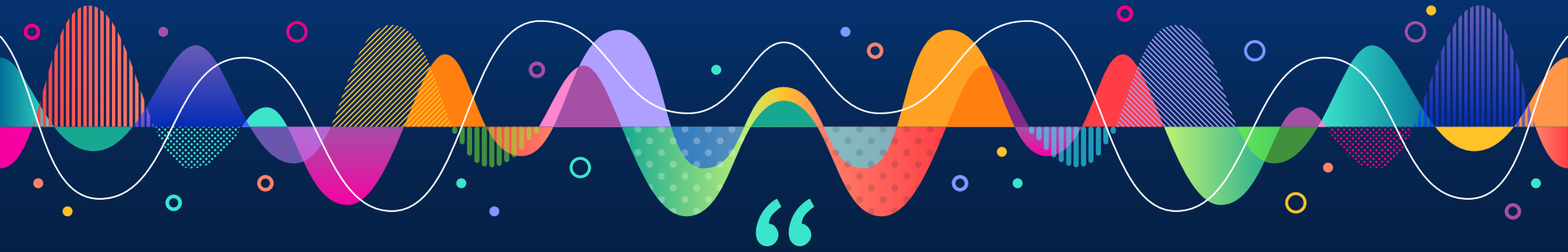
Step 10: Final submission of energy solution





“

Kits available for hands-on modeling of energy solutions...if you decide to implement the Challenge in your classroom, let us know and you can choose one.



Any questions or comments?

Thank you!