

SPARK SQUAD

A STORY FROM THE NATIONAL RENEWABLE ENERGY LABORATORY





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PRINTED BY NATIONAL RENEWABLE ENERGY LABORATORY (NREL) IN THE UNITED STATES OF AMERICA.

FIRST PRINTING 2022

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DOE/GO 102022 5711

A BRIEF INTRODUCTION TO

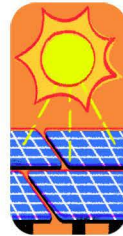
ENERGY



HI! I'M POWER OFFICER GINA AND I'M HERE TO TALK ABOUT ENERGY!



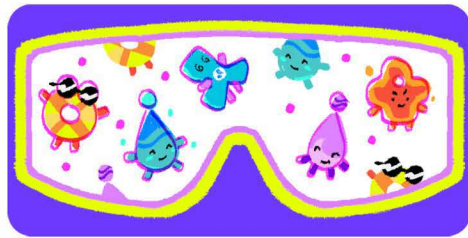
WE USE ENERGY TO POWER ALMOST EVERYTHING IN OUR LIVES!



ENERGY COMES FROM ALL DIFFERENT KINDS OF PLACES



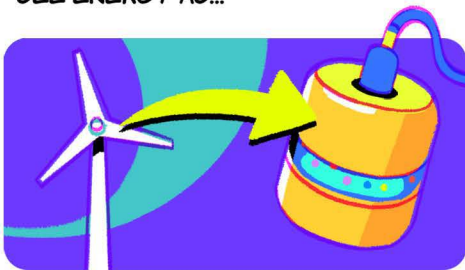
POWER OFFICERS AND THE SPARK SQUAD USE SPECIAL GOGGLES TO SEE ENERGY AS...



JOULES!



THE JOULES ARE PLAYFUL AND FULL OF ENERGY! WE USUALLY FIND THEM ENJOYING VARIOUS OUTDOOR ACTIVITIES



USING GENERATORS SUCH AS WIND TURBINES, WE CAN CAPTURE THESE JOULES IN BATTERIES AND STORE THEIR ENERGY TO USE LATER!



WHEN WE'RE READY TO USE THE ENERGY FROM THE JOULES, THEY TRAVEL THROUGH WIRES...



AND USE THEIR ENERGY AND EXCITEMENT TO POWER OUR DEVICES!



ONCE A JOULE HAS BEEN USED TO POWER SOMETHING, IT GETS REALLY TIRED...



BUT AFTER A REST, THE JOULE RETURNS TO DOING WHAT IT LOVES TO DO!



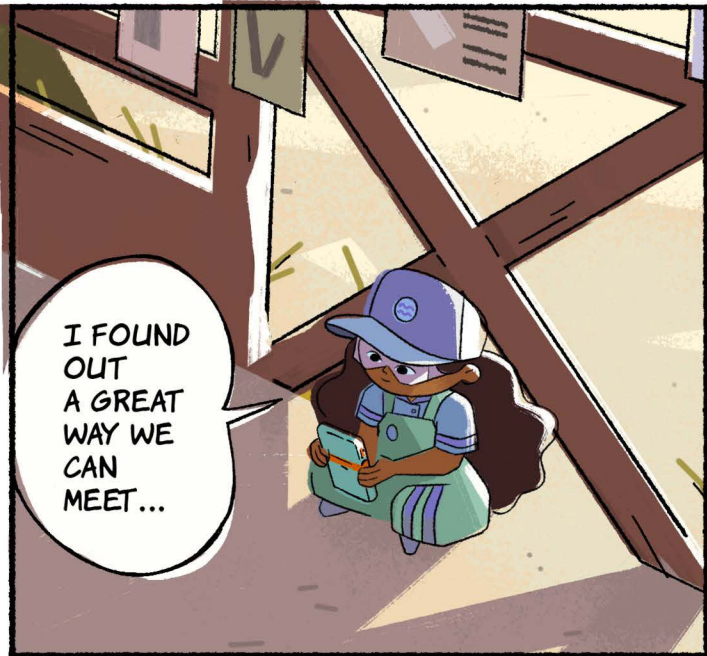
THEN THE WHOLE PROCESS CAN START AGAIN!



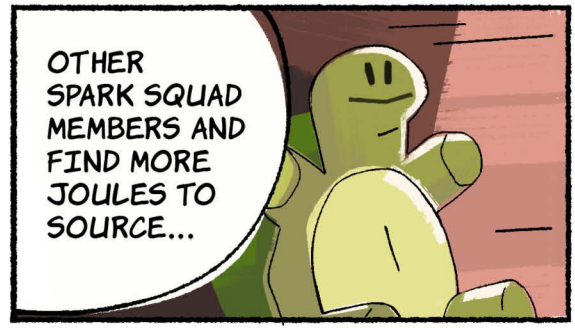
IF YOU THINK YOU WOULD LIKE TO LEARN MORE ABOUT ENERGY AND JOULES, CONSIDER JOINING THE SPARK SQUAD!

SATURDAY, JASMINE'S LAB

SO...



I FOUND OUT A GREAT WAY WE CAN MEET...



OTHER SPARK SQUAD MEMBERS AND FIND MORE JOULES TO SOURCE...



AND MAYBE WORK WITH THE POWER OFFICERS OVER THE SUMMER!



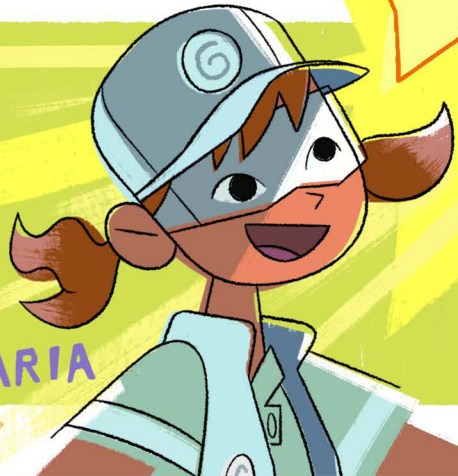
I THINK THE THREE OF US SHOULD JOIN

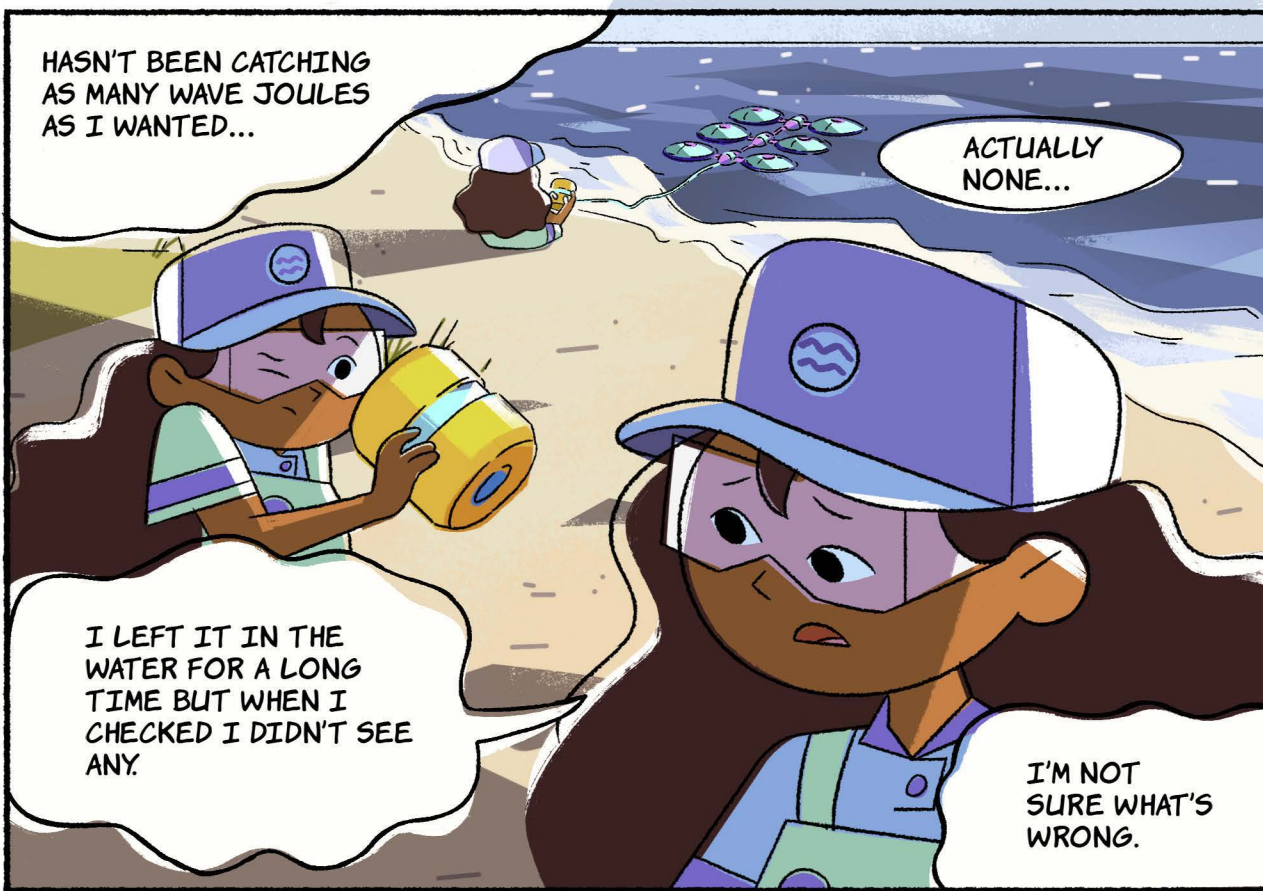
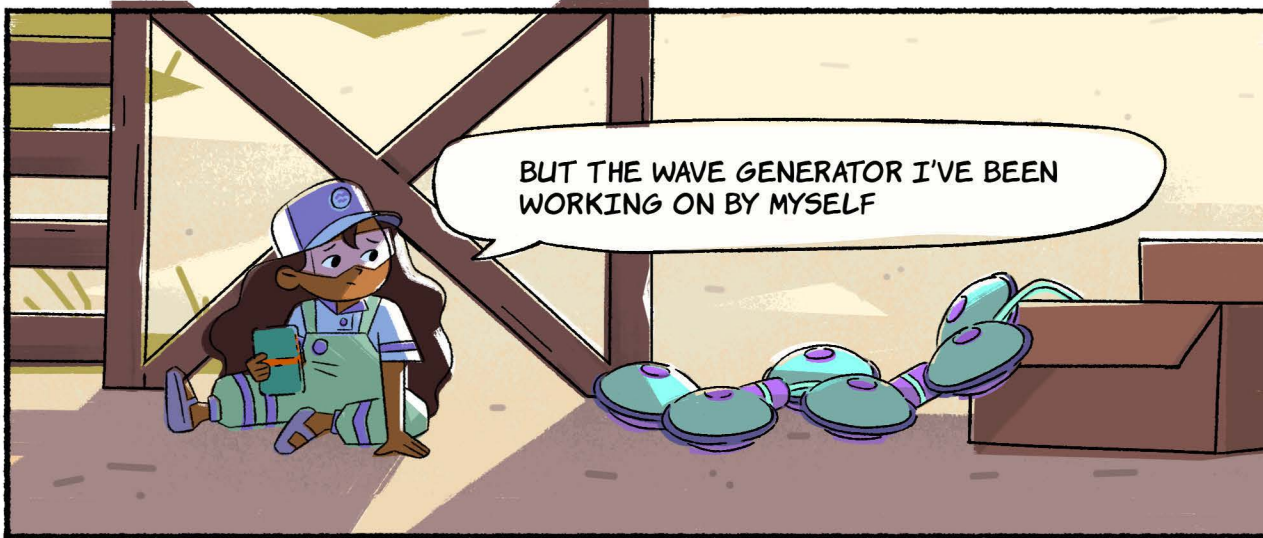
THE POWER FAIR!

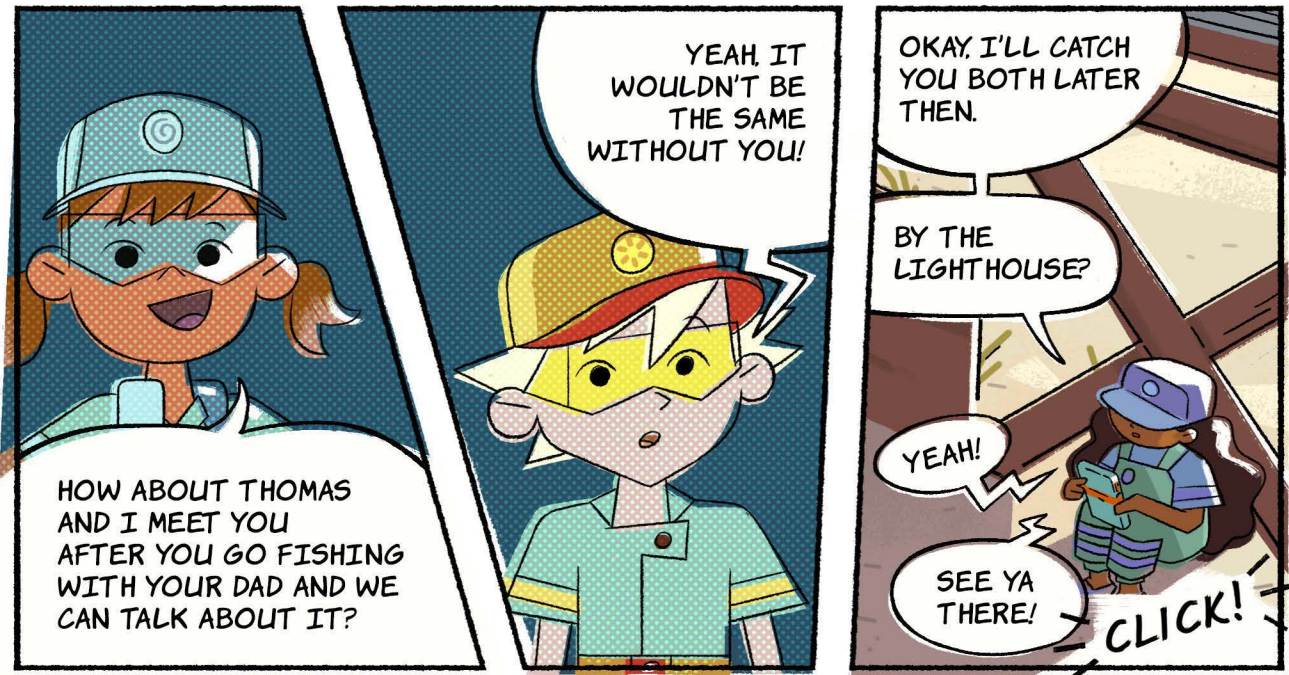
JASMINE

ARIA

THOMAS







HOW ABOUT THOMAS AND I MEET YOU AFTER YOU GO FISHING WITH YOUR DAD AND WE CAN TALK ABOUT IT?

YEAH, IT WOULDN'T BE THE SAME WITHOUT YOU!

OKAY, I'LL CATCH YOU BOTH LATER THEN.

BY THE LIGHTHOUSE?

YEAH!

SEE YA THERE!

CLICK!



THE POWER FAIR, HUH?

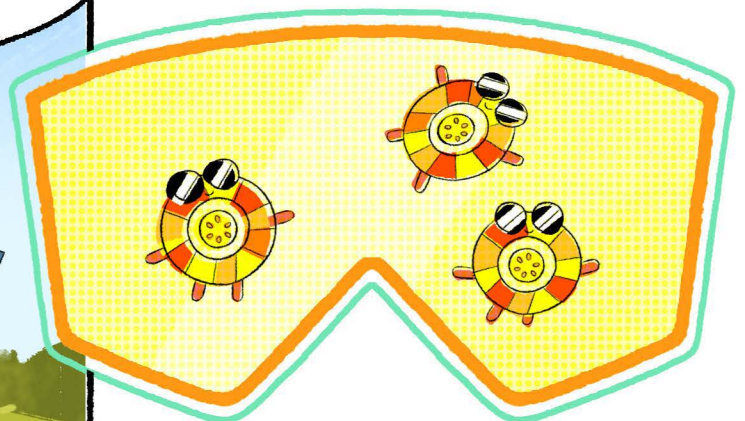
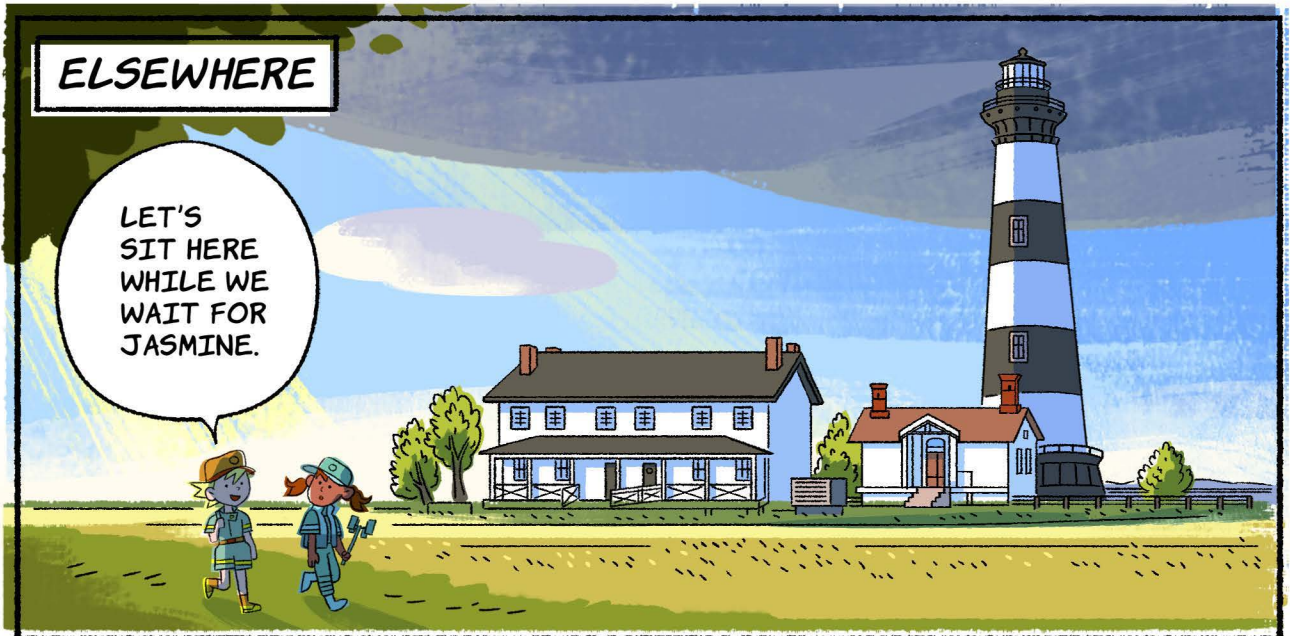


LATER

YOU KNOW, JASMINE IT'S REALLY GREAT YOU'VE BEEN LOOKING INTO SUSTAINABLE ENERGY WITH YOUR FRIENDS.



I'M PROUD OF YOU.



HOURS LATER...

HEY DAD WE DID GOOD DIDN'T WE?

YEAH, WE SURE DID

I'M REALLY HAPPY YOU'RE USING THE TURTLE EXCLUDER! DAD—WE'RE KIND OF A SUSTAINABILITY TEAM HUH?

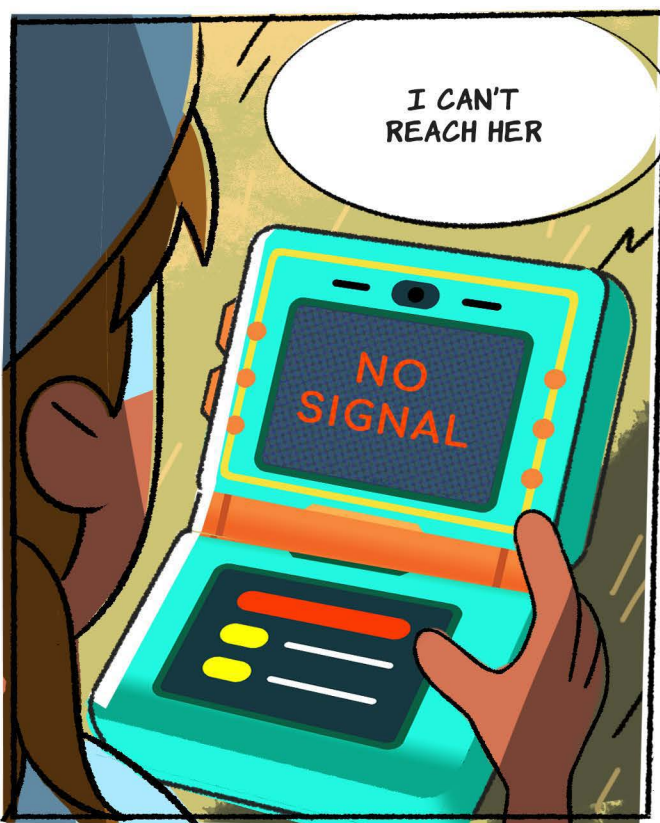
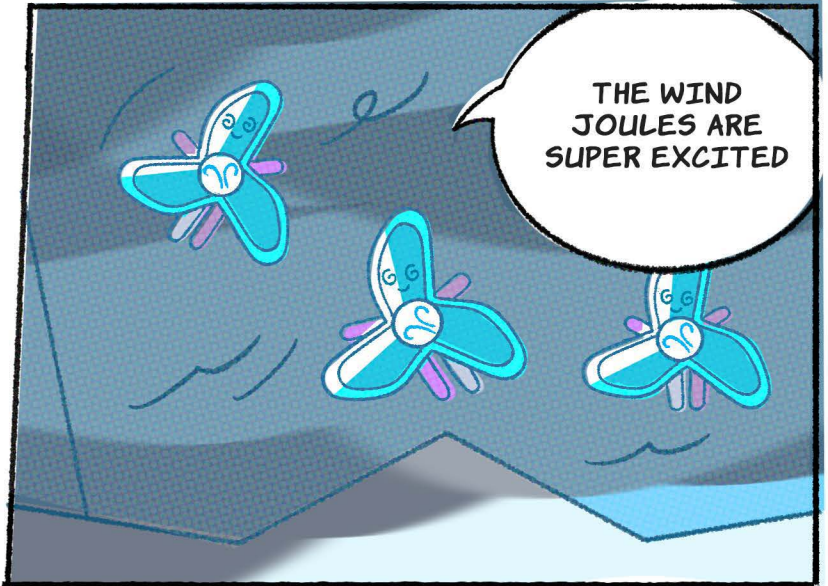
YEAH KIDDO!

WE'D BETTER HEAD BACK THOUGH. THERE'S A STORM COMING

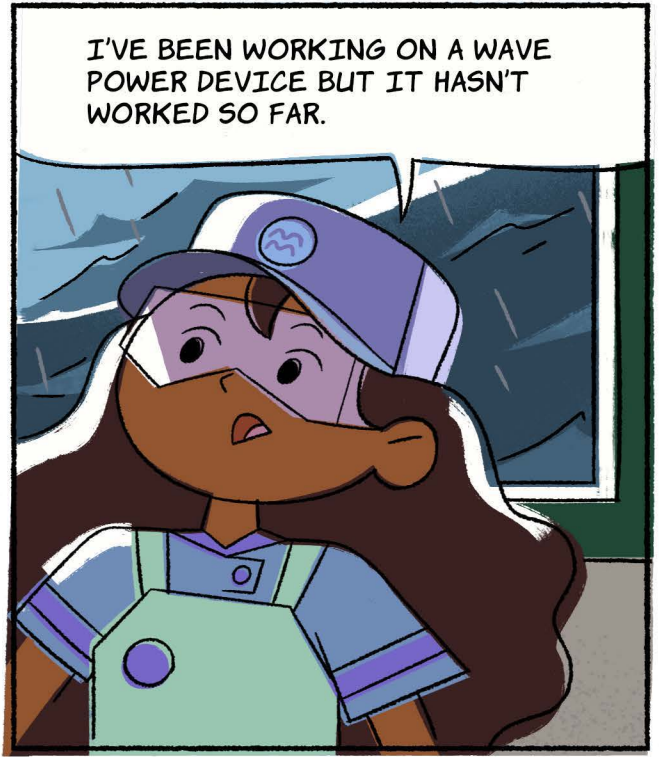
UH OH

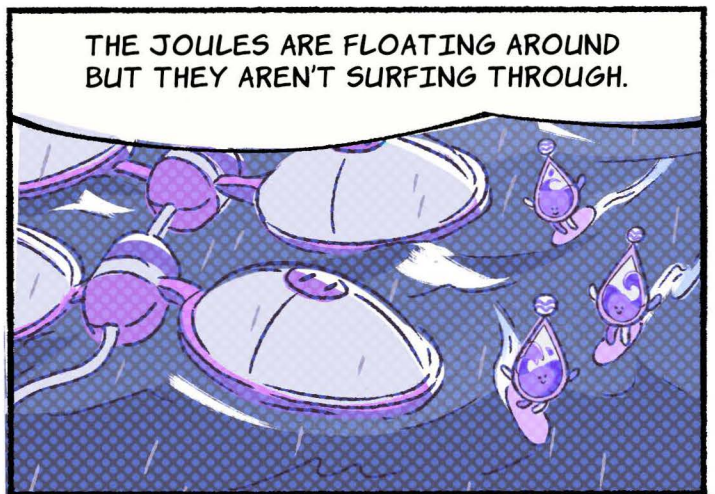
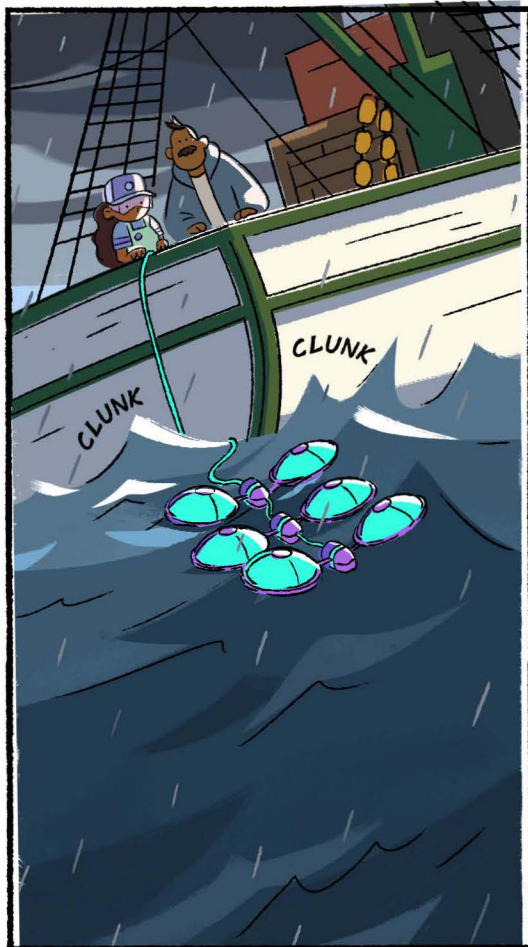
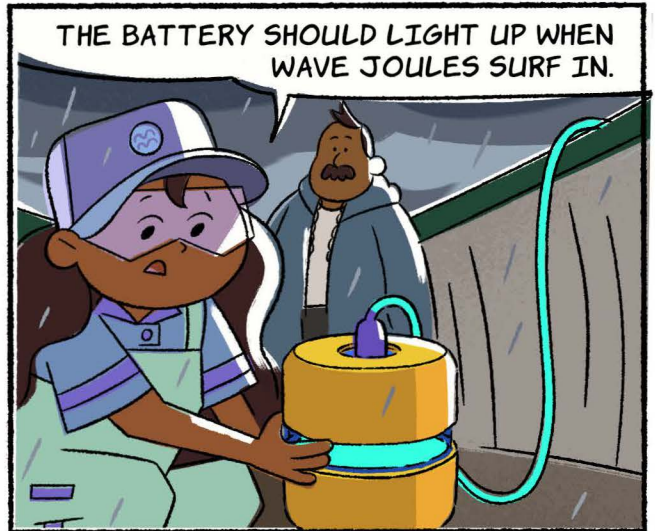
IT'S ALMOST TIME. WHERE IS SHE?

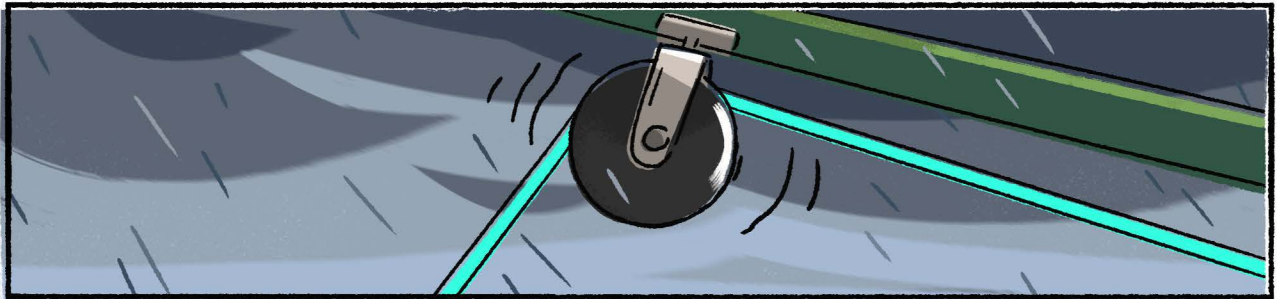
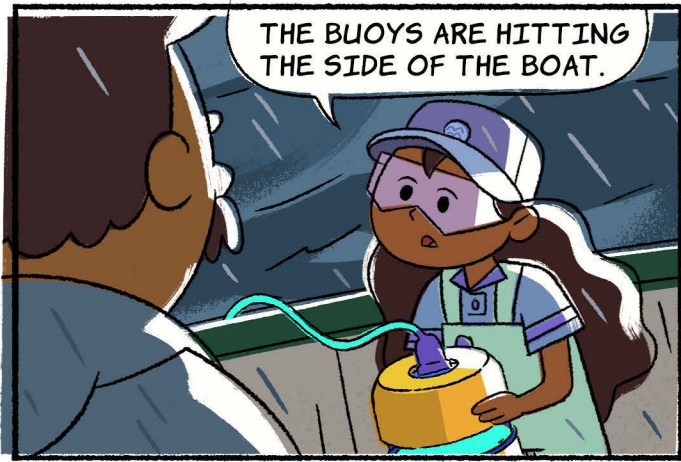
AND IT'S GETTING WINDY

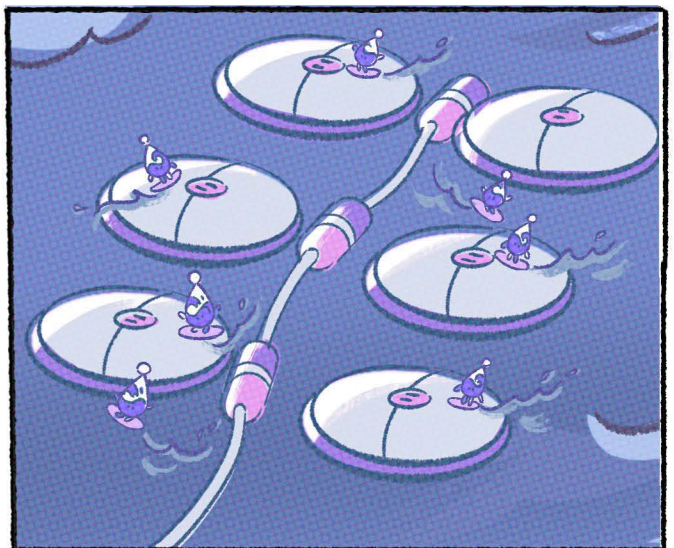
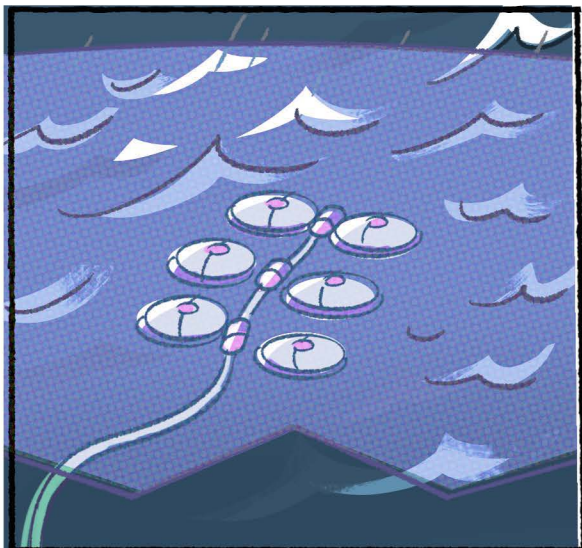
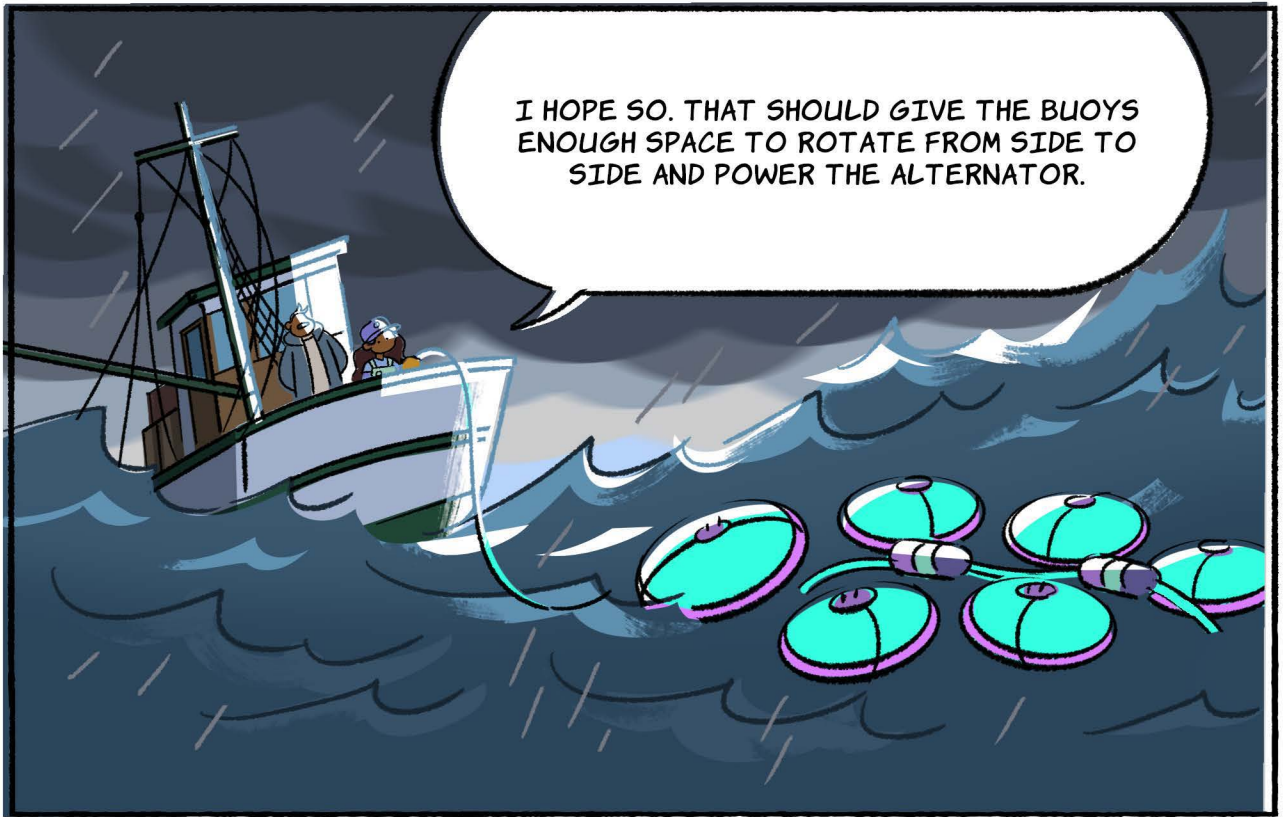






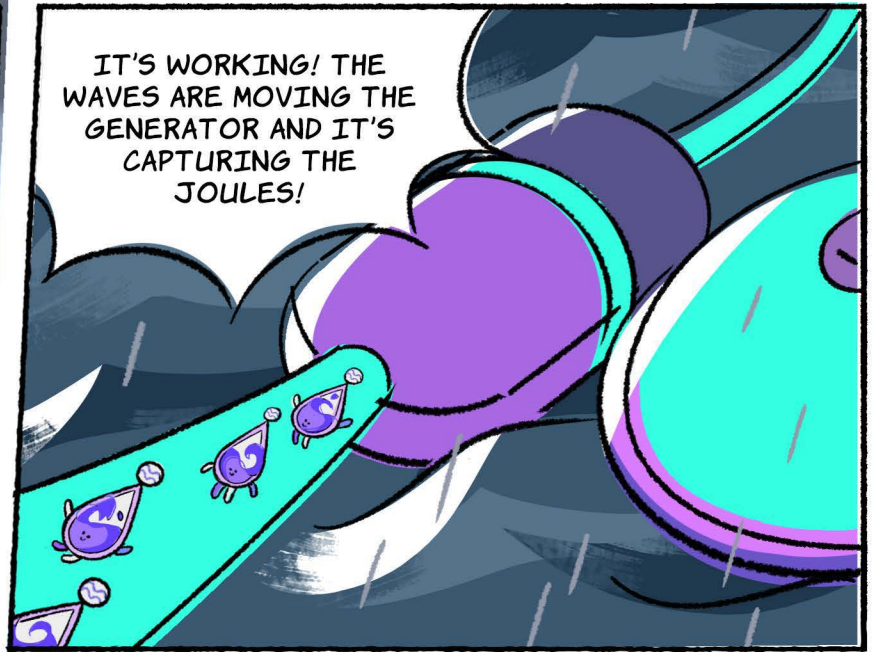




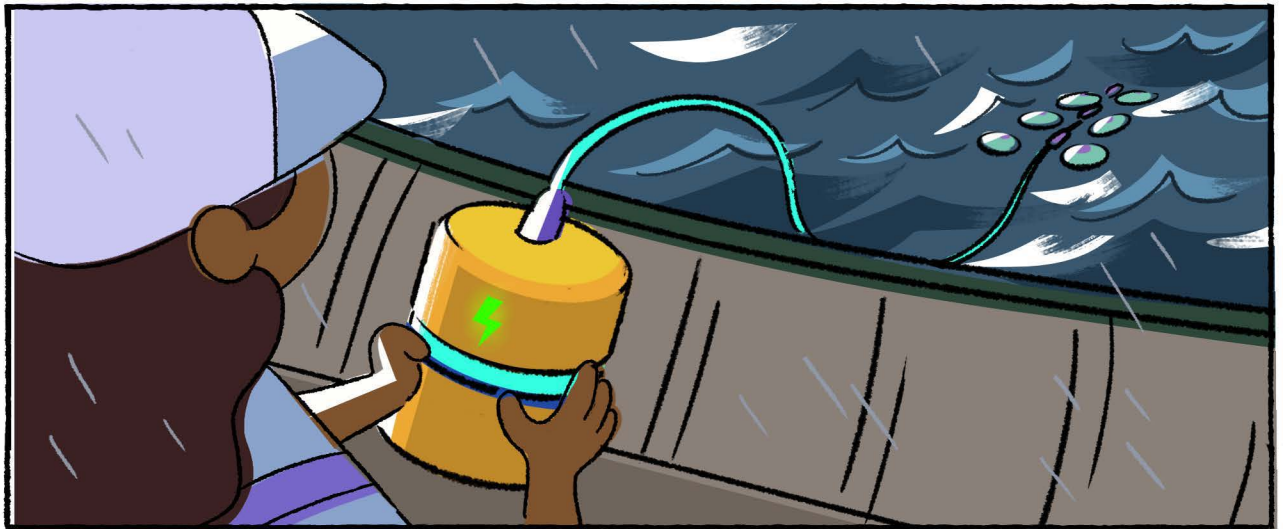




YES!



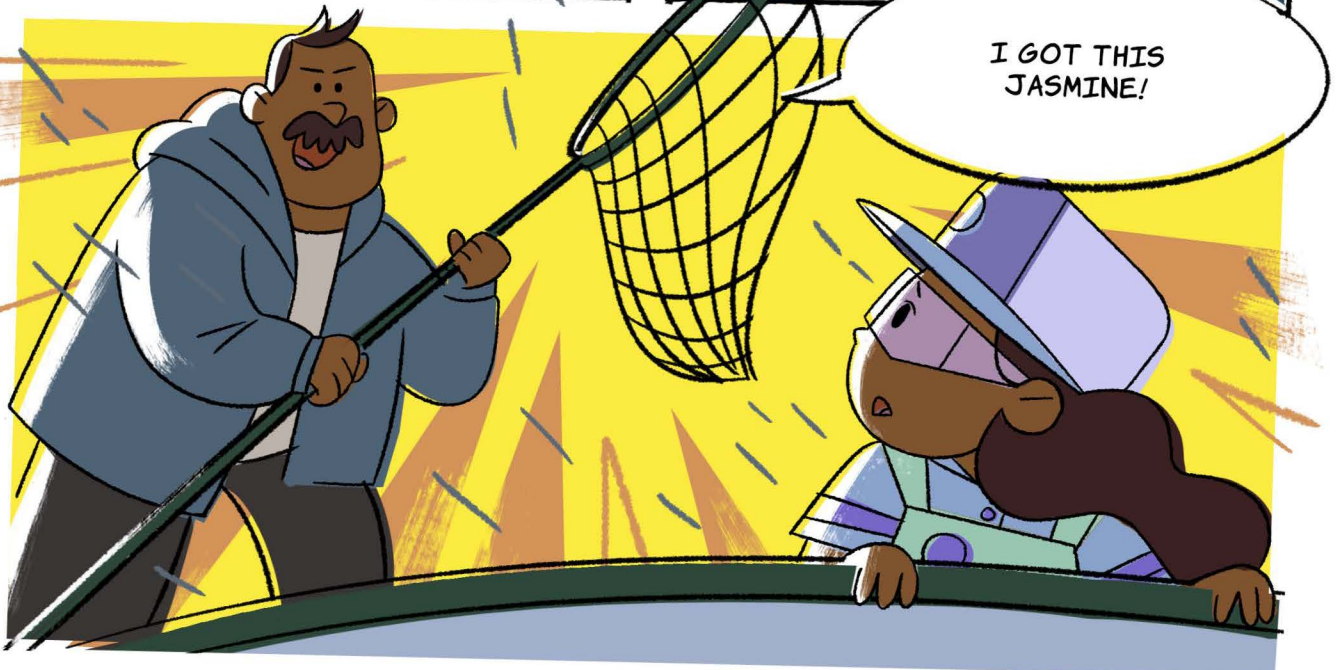
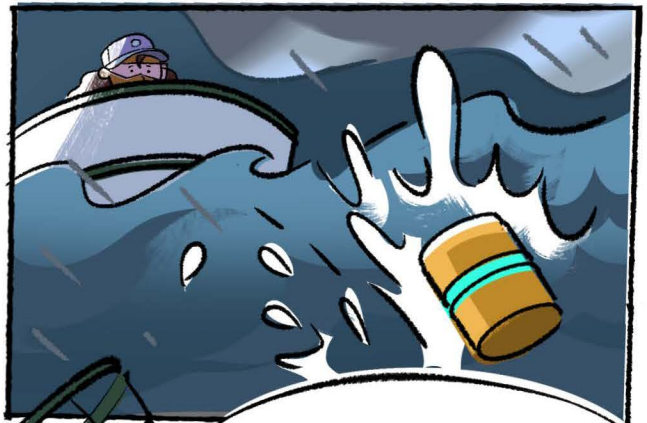
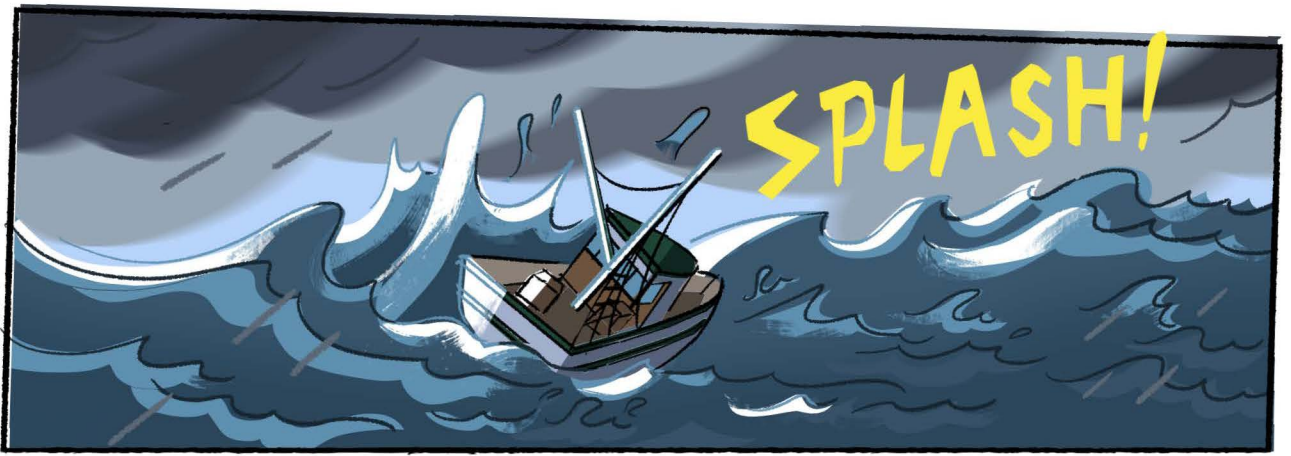
IT'S WORKING! THE WAVES ARE MOVING THE GENERATOR AND IT'S CAPTURING THE JOULES!

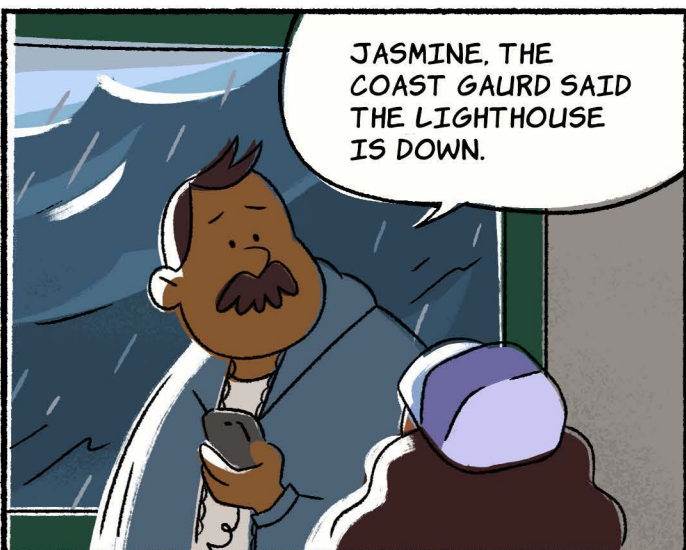
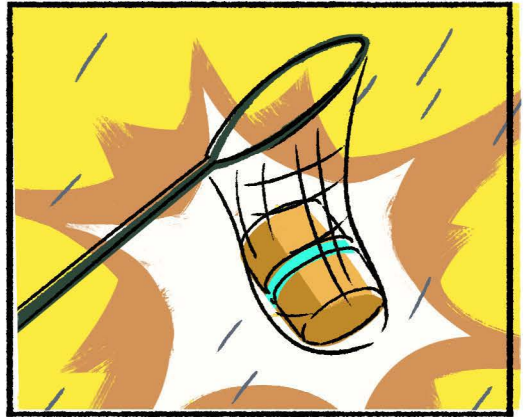
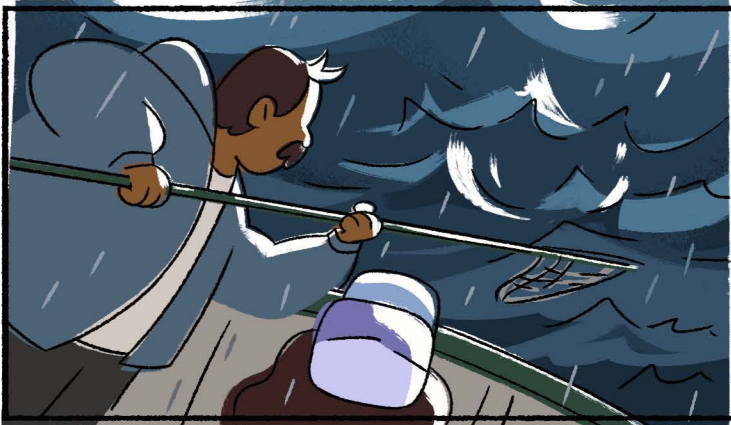


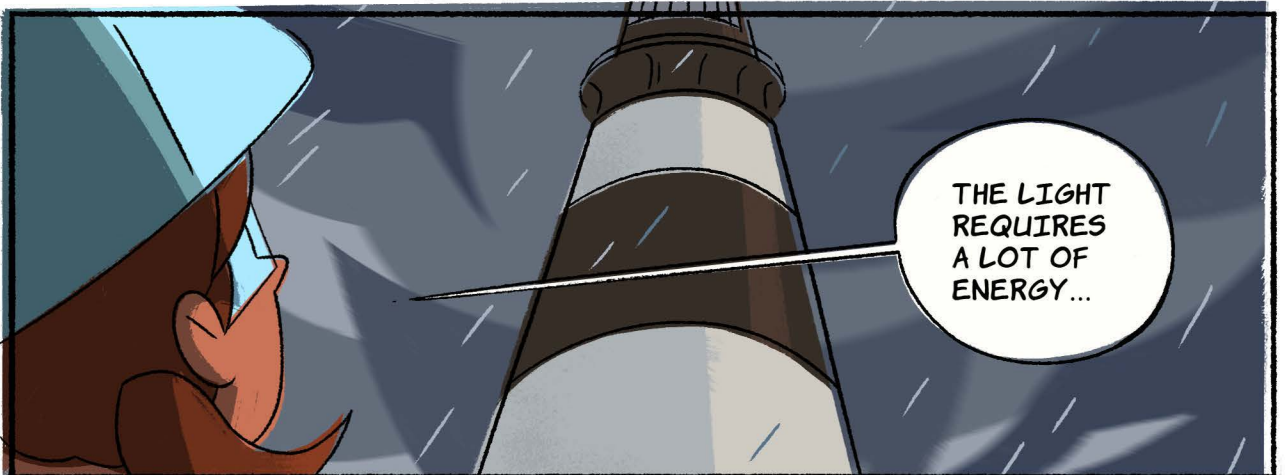
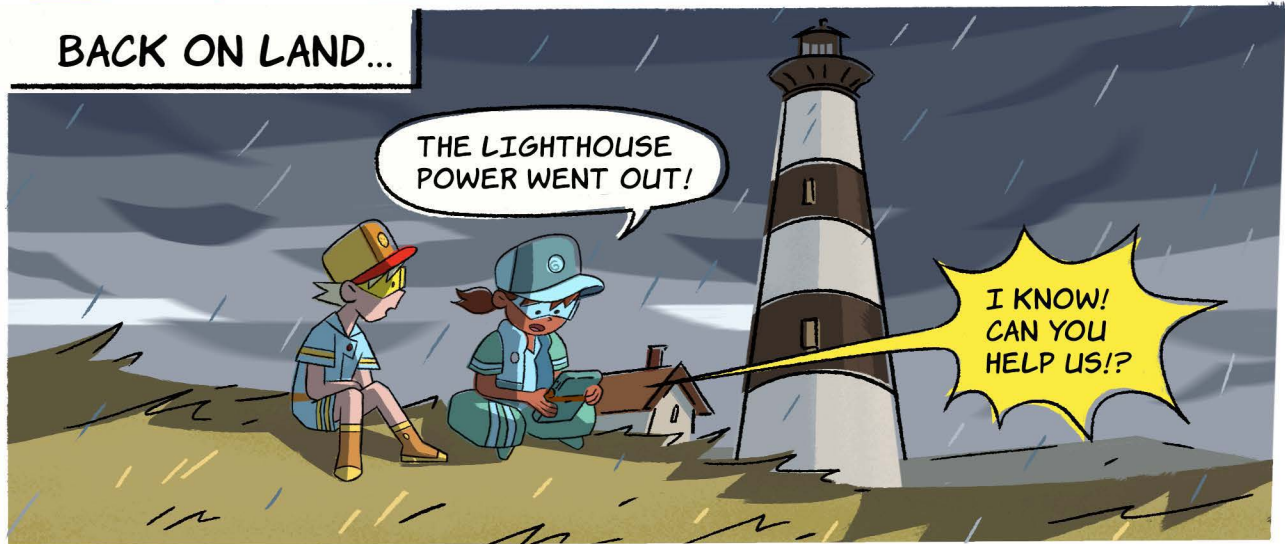
GREAT! LET'S PLUG IT INTO THE RADIO!

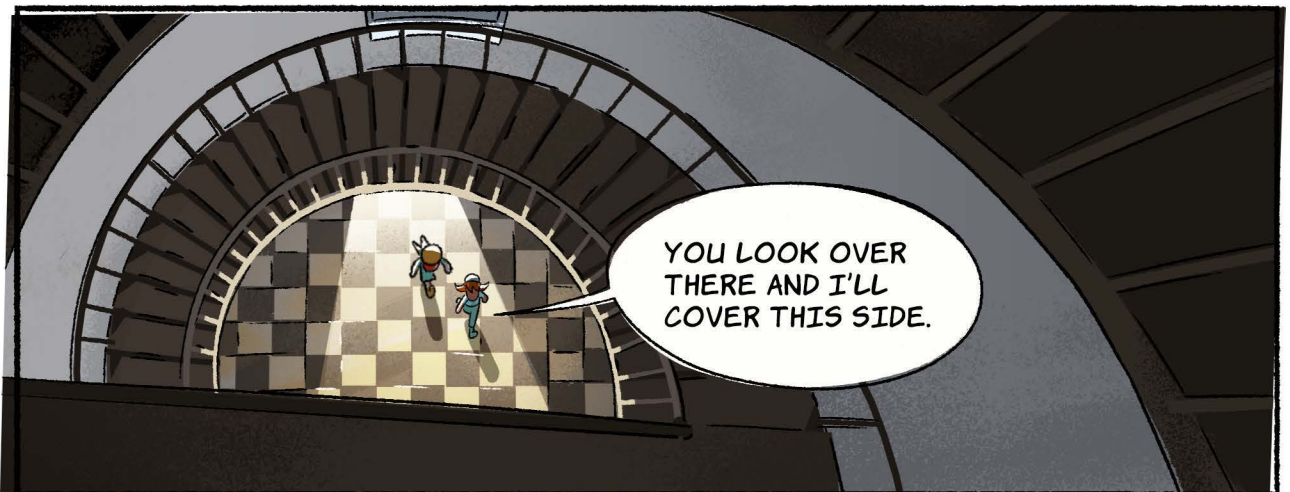


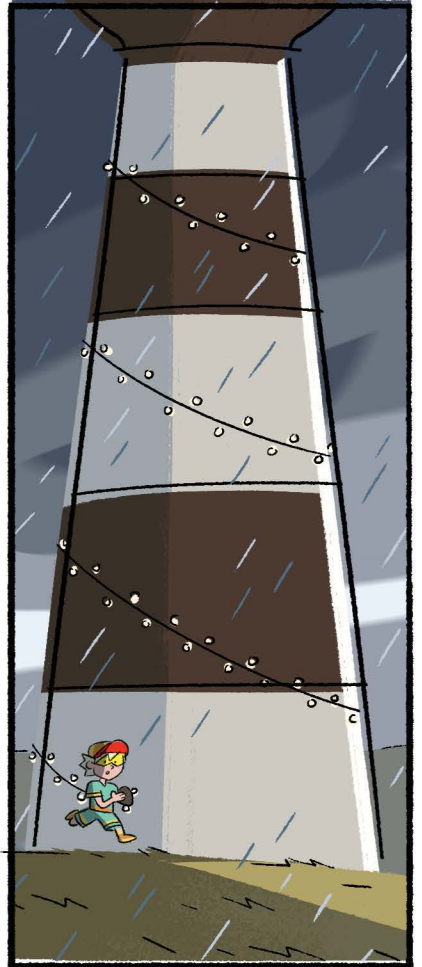
COMING!

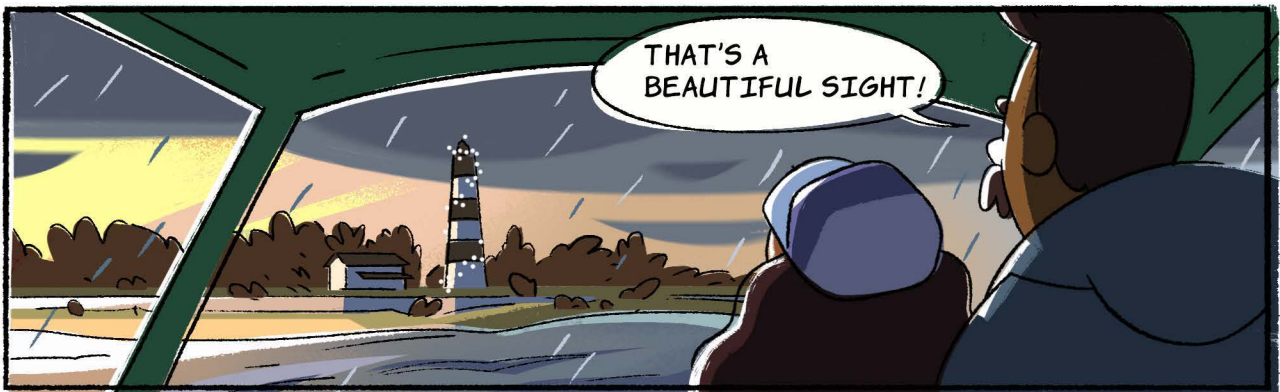
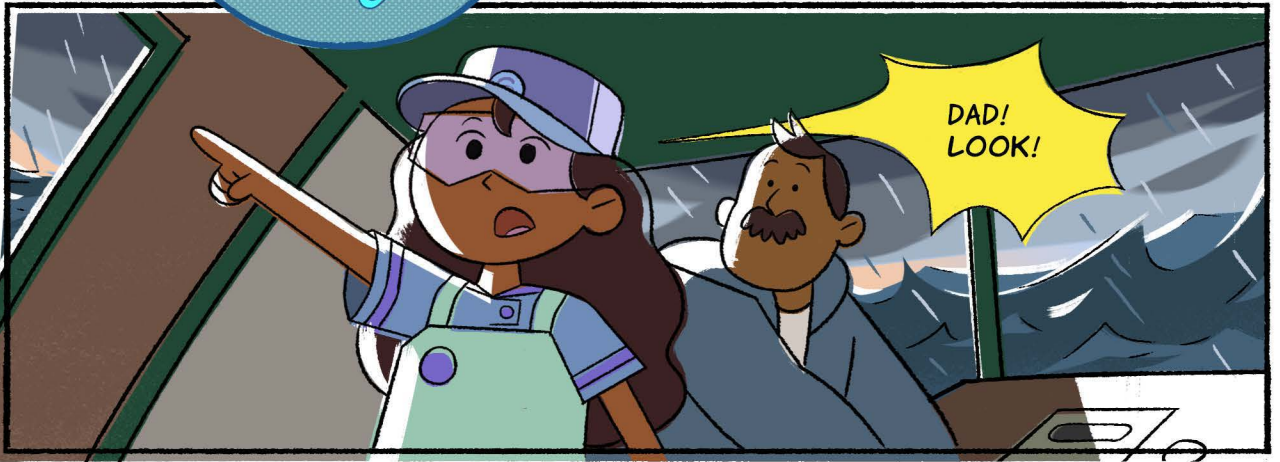
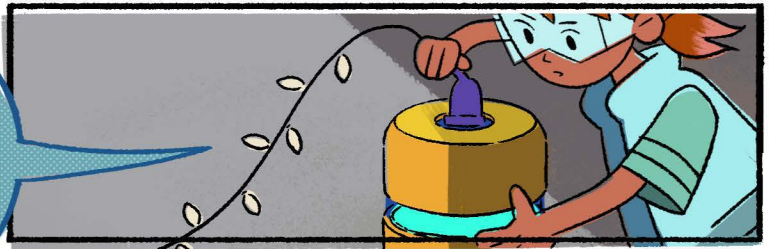
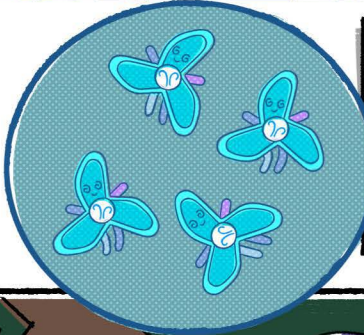
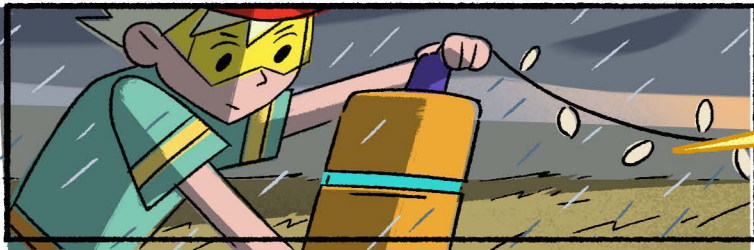


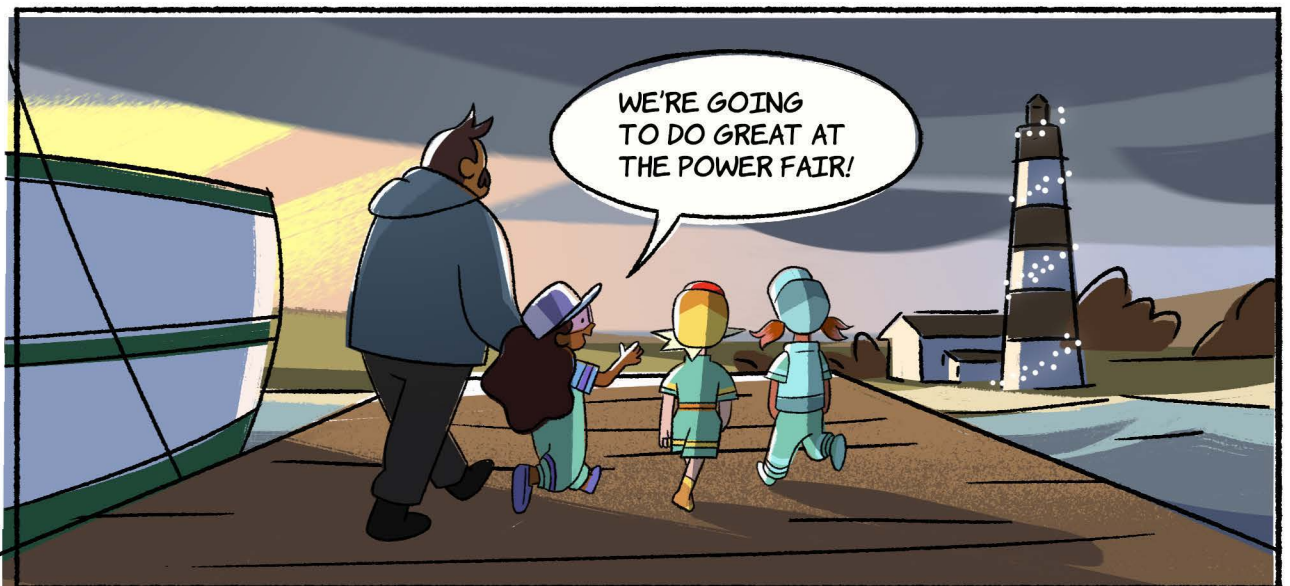
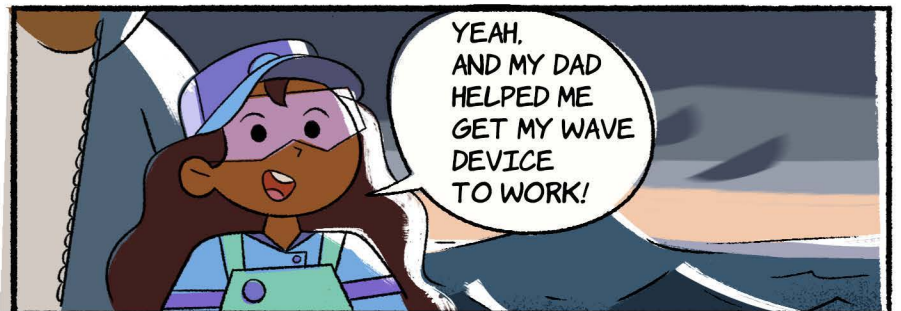
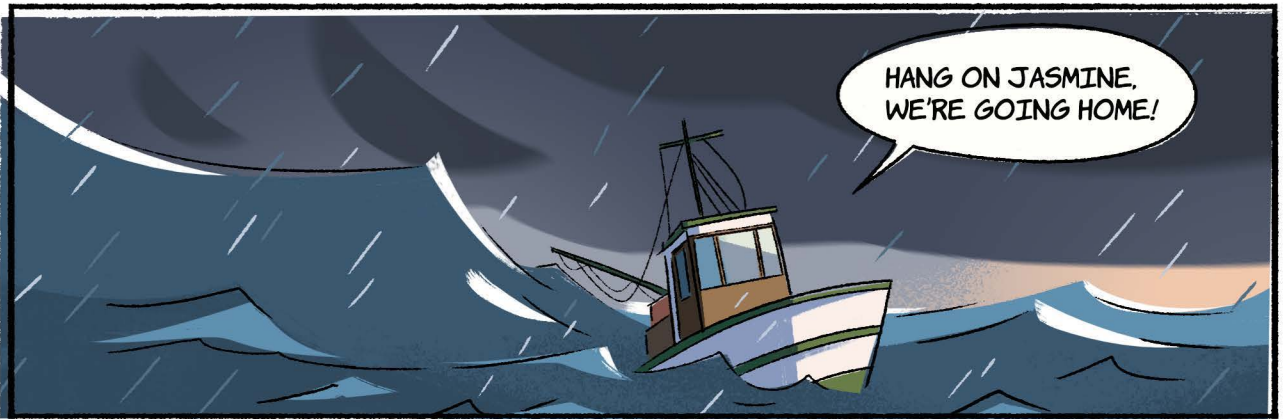












WHAT KIND OF ENERGY SOURCES DO YOU LIVE NEAR?



WHAT DO YOU IMAGINE JOULES IN YOUR COMMUNITY MIGHT LOOK LIKE?



DRAW YOUR OWN

JOULE!





JASMINE AND HER FRIENDS **ARIA** AND **THOMAS** ARE THREE OF THE NEWEST MEMBERS OF THE **SPARK SQUAD** - A GROUP THAT TEACHES KIDS ABOUT ENERGY AND THE EMERGING FIELD OF "Joule Studies". TOGETHER THEY GO ON EXCITING ADVENTURES, FIND AND IDENTIFY NEW JOULES, AND HOPEFULLY ONE DAY MAKE IT TO THE POWER FAIR - THE ULTIMATE GATHERING OF BUDDING YOUNG ENERGY SCIENTISTS!

