

WAVE ENERGY IS A NEW TECHNOLOGY THAT IS BEING TESTED HERE ON THE OREGON COAST. TO MAKE SURE WAVE ENERGY IS SAFE FOR HUMANS, ANIMALS, AND THE ENVIRONMENT, PEOPLE LIKE SARAH THE BENTHIC ECOLOGIST ARE RESEARCHING HOW WAVE ENERGY MAY IMPACT THE ENVIRONMENT.



HI, I'M SARAH AND I RESEARCH THE POTENTIAL EFFECTS OF WAVE ENERGY DEVICES ON THE BENTHIC ZONE, WHICH IS AT THE VERY BOTTOM OF THE OCEAN. I STUDY THE ANIMALS THAT LIVE HERE AND HOW WAVE ENERGY DEVICES MAY AFFECT THEM.

BENTHOPELAGIC FISH

DOVER SOLE

WAVE ENERGY DEVICE

BARNACLES

MUSSELS

ANCHORING SYSTEM

SEA STAR

OCTOPUS

BENTHOPELAGIC FISH

CRAB

FLAT FISH

SUNFLOWER SEA STAR

SKATE

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WAVE ENERGY IS A NEW TECHNOLOGY BEING TESTED HERE ON THE OREGON COAST. TO FIND OUT HOW MUCH NOISE WAVE ENERGY DEVICES MAKE AND HOW IT MAY EFFECT OCEAN ANIMALS, PEOPLE LIKE ACOUSTIC JOE ARE WORKING TO LEARN MORE ABOUT WAVE ENERGY.



HI, I'M JOE AND I RESEARCH WAVE ENERGY AND ACOUSTICS. ACOUSTICS ARE ANYTHING RELATED TO SOUND. MANY OCEAN ANIMALS USE SOUND AS A WAY TO NAVIGATE. I USE HYDROPHONES TO RECORD AND STUDY SOUNDS IN THE OCEAN.

WAVE ENERGY DEVICE BEING TESTED.

RESEARCH BOAT

WAVE ENERGY DEVICE BEING TESTED.

HYDROPHONE

SOUND WAVE
GENERATED BY WAVE
DEVICE

GRAY WHALE

GRAY WHALE CALF

SOUND WAVE GENERATED
BY WAVE DEVICE

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WAVE ENERGY IS A NEW TECHNOLOGY THAT IS BEING TESTED HERE ON THE OREGON COAST. TO MAKE SURE WAVE ENERGY IS SAFE FOR HUMANS, ANIMALS, AND THE ENVIRONMENT, PEOPLE LIKE SEAN THE OCEAN TEST FACILITIES MANAGER ARE WORKING TO LEARN MORE ABOUT HOW TO ANCHOR, INSTALL AND RETRIEVE WAVE ENERGY DEVICES.



HI I'M SEAN AND I HELP DEVELOPERS TEST WAVE ENERGY DEVICES. THERE ARE MANY DIFFERENT TYPES OF DEVICES, SO IT IS IMPORTANT TO RESEARCH DIFFERENT MODELS TO SEE WHICH ONES WORK BEST.

WAVE ENERGY DEVICE BEING TESTED.

SIGNAL TO SHORE

OCEAN SENTINAL

POWER CREATED FROM WAVE ENERGY DEVICE TRANSFERRED THROUGH CABLE

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WAVE ENERGY IS A NEW TECHNOLOGY THAT IS BEING TESTED HERE ON THE OREGON COAST. TO MAKE SURE WAVE ENERGY IS A VIABLE SOURCE OF ENERGY, PEOPLE LIKE ANNETTE THE ENGINEER ARE WORKING TO DISCOVER HOW THESE DEVICES CAN BE ENGINEERED TO BE AS EFFICIENT AS POSSIBLE.

HI, I'M ANNETTE AND I HELP TEST WAVE ENERGY DEVICES. BEFORE WAVE ENERGY DEVICES MAKE IT TO THE OCEAN, SMALLER VERSIONS CALLED PROTOTYPES, ARE TESTED AT INDOOR FACILITIES AT OREGON STATE UNIVERSITY.

5 TON

WAVE ENERGY DEVICE
BEING TESTED.

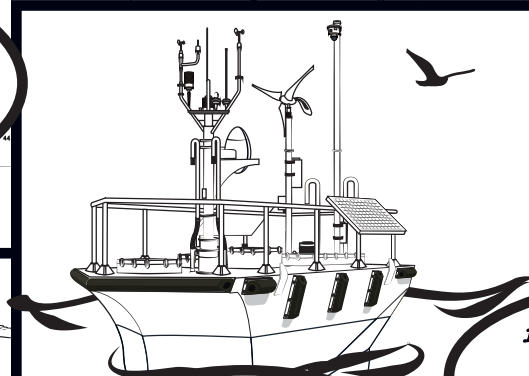
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WAVE ENERGY IS A NEW TECHNOLOGY THAT IS BEING TESTED HERE ON THE OREGON COAST. TO MAKE SURE WAVE ENERGY DOESN'T DISPLACE OTHER PEOPLE THAT USE THE OCEAN, PEOPLE LIKE KAETY THE OUTREACH SPECIALIST ARE WORKING TO BRING VARIOUS OCEAN USERS TO THE TABLE SO THEY CAN PLAN WHERE WAVE ENERGY DEVICES SHOULD GO IN THE OCEAN.

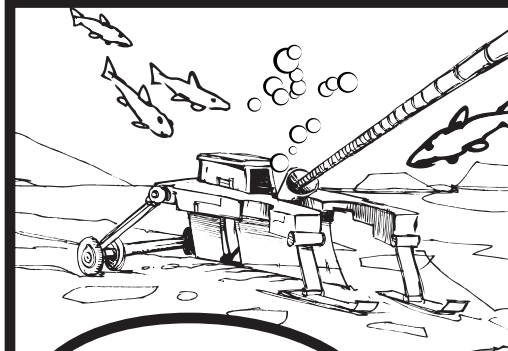
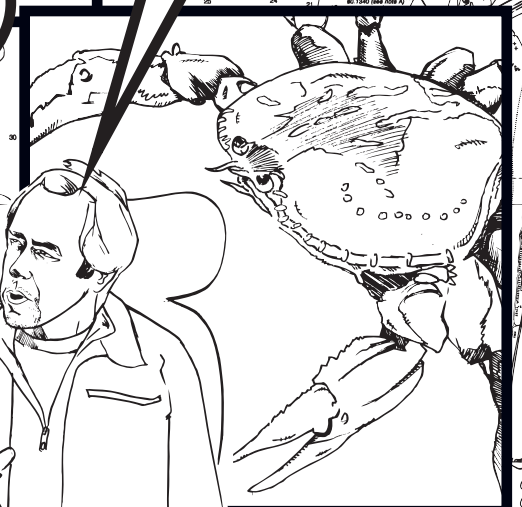


HI, I'M KAETY AND I WORK WITH MANY DIFFERENT PEOPLE WHO CARE ABOUT THE OCEAN AND COASTAL COMMUNITIES. BRINGING THESE PEOPLE TOGETHER, HELPS OSU MAKE DECISIONS ABOUT WHERE AND HOW TO TEST DEVICES WITH LITTLE DISPLACEMENT OF OTHERS.

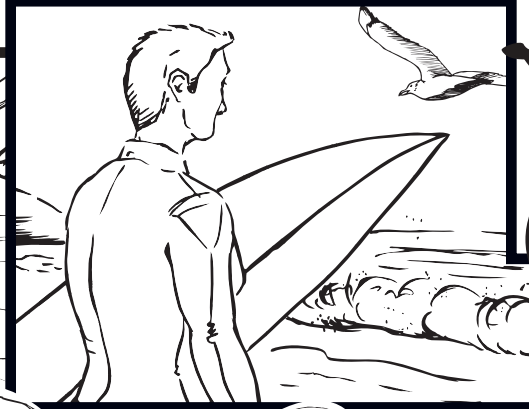


THE LOCATION OF THE TEST SITE NEEDS TO BE 70M DEEP AND CLOSE TO THE SHORE AT THE SAME TIME, TO SAVE MONEY ON CABLING COSTS

IF WE PUT IT HERE, IT WOULD BE ON THE MAJOR CRAB GROUNDS, WHERE I MAKE MY LIVING.



WE NEED TO FIND A PATH TO THE SHORE WHERE THE CABLE CAN BE BURIED AND NOT IMPACT THE TRAWL FLEET.



WILL WAVE ENERGY DEVICES IN THE OCEAN AFFECT MY BEACH USE?

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