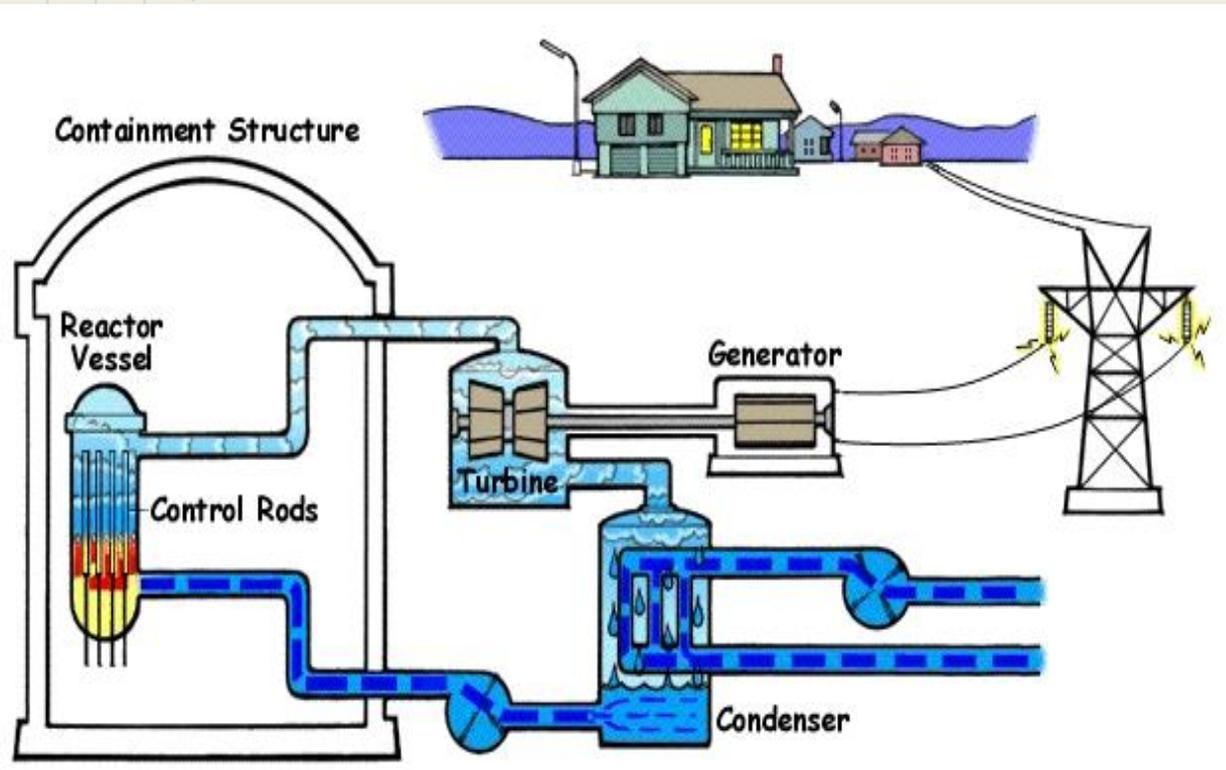# ONCE THROUGH COOLING

at Diablo Canyon Nuclear Plant

What is Once Through Cooling (OTC)?

Ocean water is used to cool the two reactors at Diablo Canyon

How much water does Diablo use?
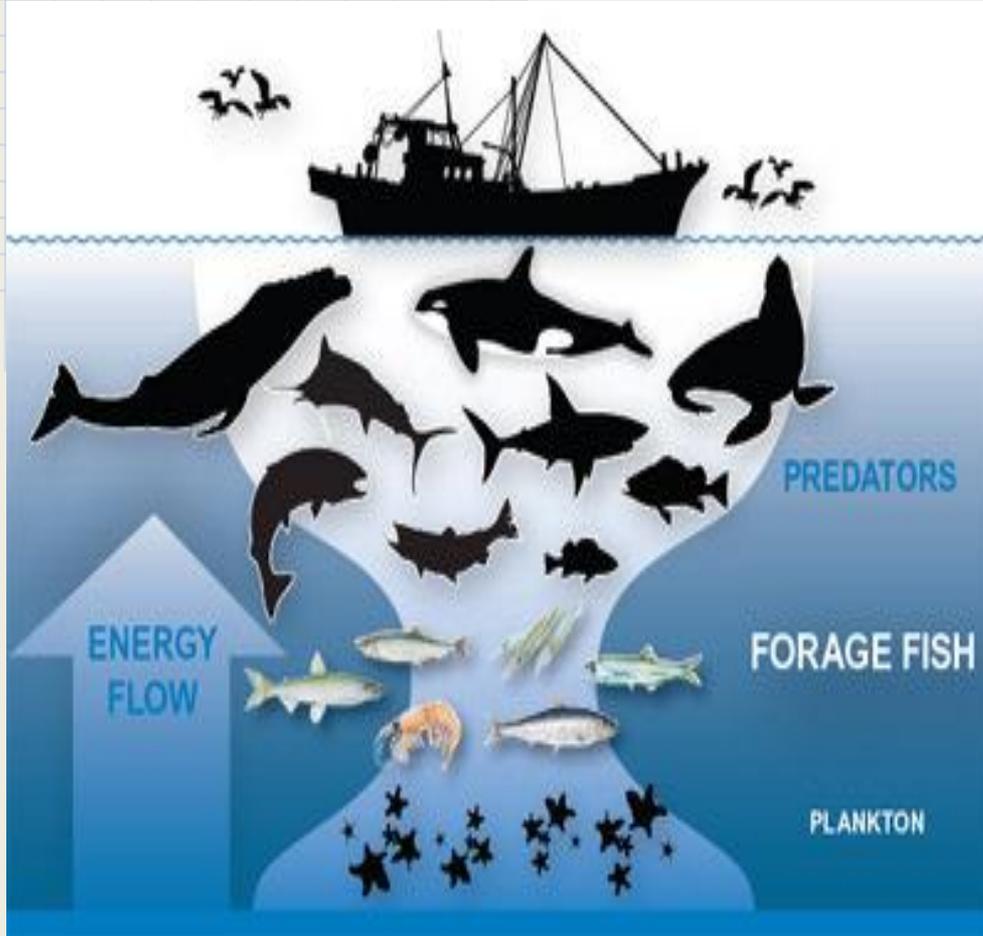
2.5 BILLION gallons of seawater per day!

How does this affect sea life?

Larger life forms suffer impingement
Smaller life forms suffer entrainment
Warm water discharged into the ocean stresses and kills fish,
plants, and other wildlife.

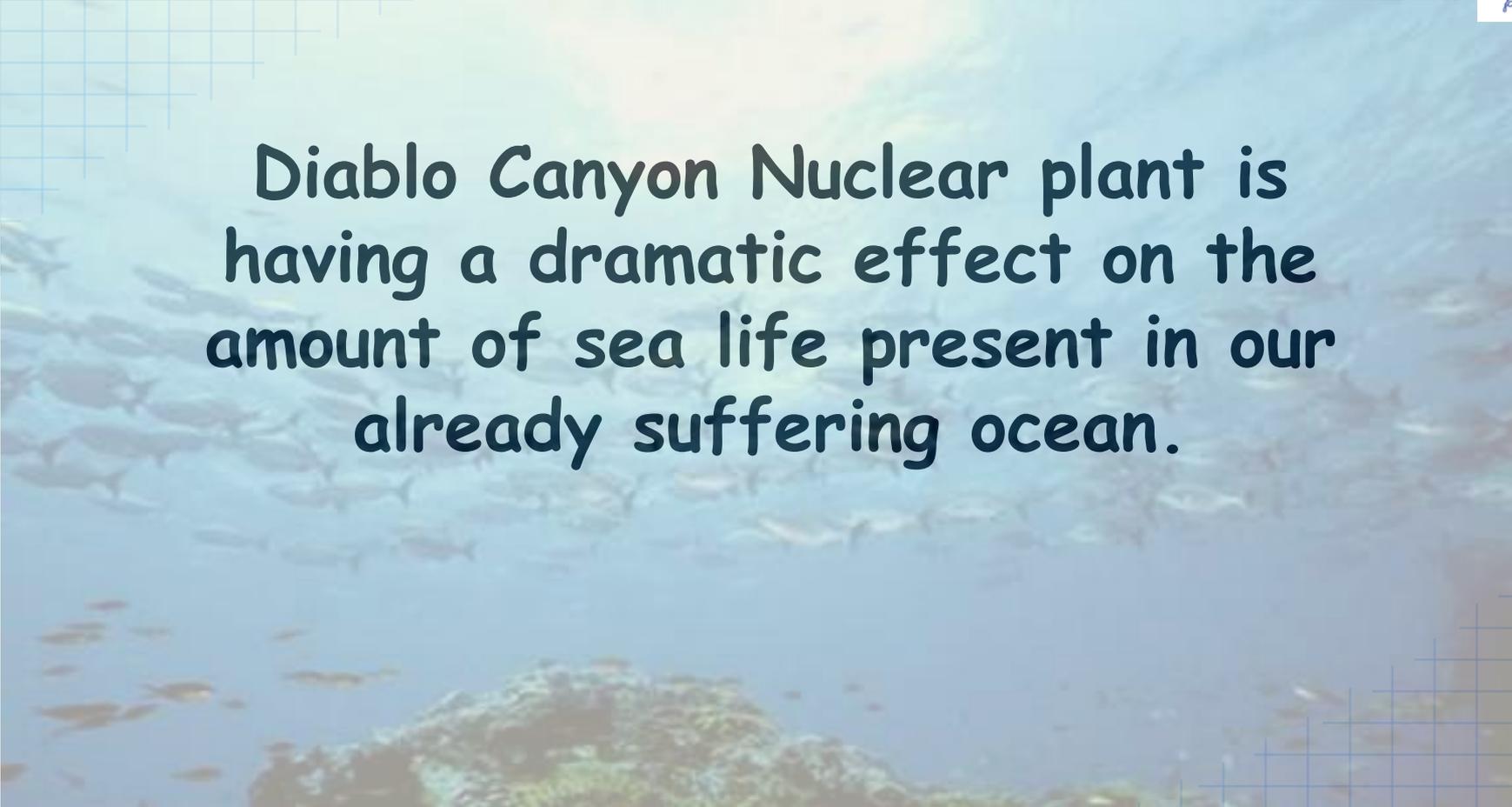OTC kills life forms at the bottom of the food chain

All other marine life is affected through the food chain

It is estimated that more than
1 BILLION
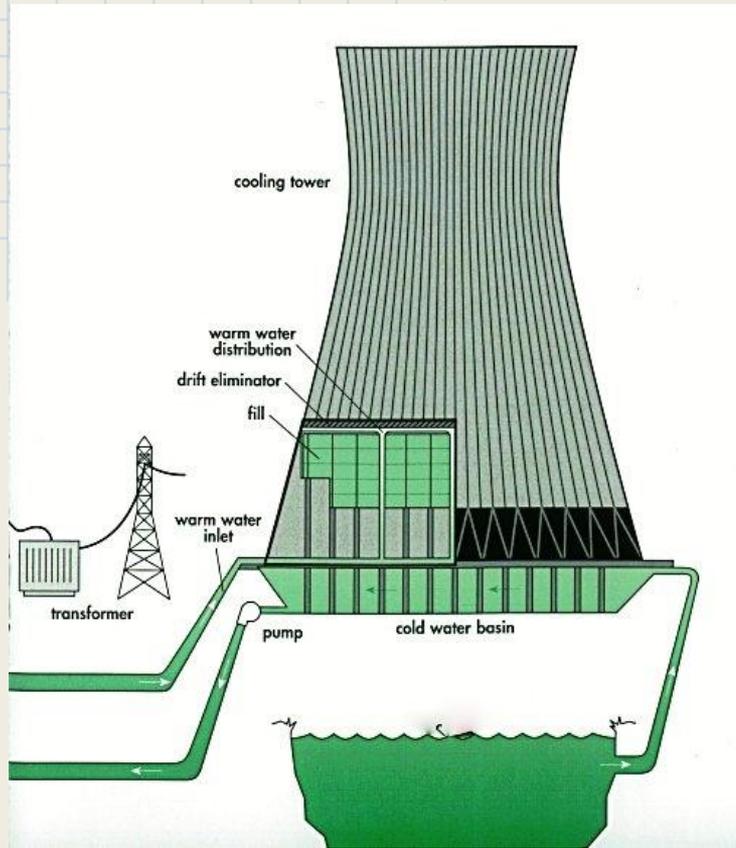such organisms are killed each year
by Diablo Canyon nuclear plant.

Diablo Canyon Nuclear plant is having a dramatic effect on the amount of sea life present in our already suffering ocean.

1972 – Congress passes Clean Water Act

Diagram labels: cooling tower, warm water distribution, drift eliminator, fill, warm water inlet, transformer, pump, cold water basin

2001 – EPA orders new plant to use "closed-cycle cooling"

2010 – CA State Water Resources Control Board requires power plants to comply with Clean Water Act

What is happening at Diablo Canyon nuclear plant?

PG&E required to study alternatives to meet requirements

Review Committee of technical reps to oversee study

Compliance date – December 31, 2024

However -

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
STATE WATER RESOURCES CONTROL BOARD

Proposed amendment to the water quality control policy on the use of coastal and estuarine waters for power plant cooling in 2014

Expects to issue findings and call for public comment in the fall of 2015

What are the options to OTC?

Cooling Towers –

most effective
method for
reducing the
impacts of OTC

Modification – modify the existing OTC system

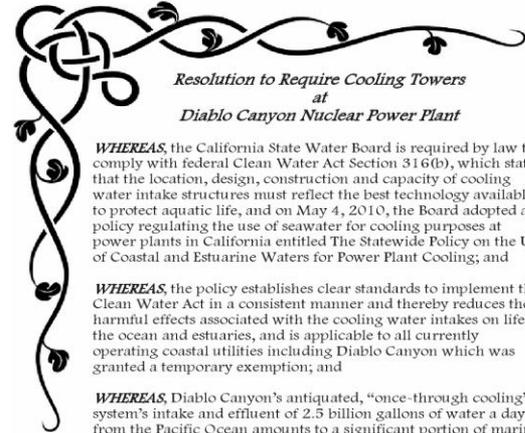# Mitigation –offset environmental damage by implementing mitigation projects

Close Diablo Canyon now!

Artists rendering of alternative uses for the Diablo Canyon site provided by Alliance for Nuclear Responsibility – www.a4nr.org

What can I do to help protect our marine environment?

Pass a resolution calling for protection of marine life by ending OTC at Diablo Canyon

Resolution to Require Cooling Towers at Diablo Canyon Nuclear Power Plant

WHEREAS, the California State Water Board is required by law to comply with federal Clean Water Act Section 316(b), which states that the location, design, construction and capacity of cooling water intake structures must reflect the best technology available to protect aquatic life, and on May 4, 2010, the Board adopted a policy regulating the use of seawater for cooling purposes at power plants in California entitled The Statewide Policy on the Use of Coastal and Estuarine Waters for Power Plant Cooling; and
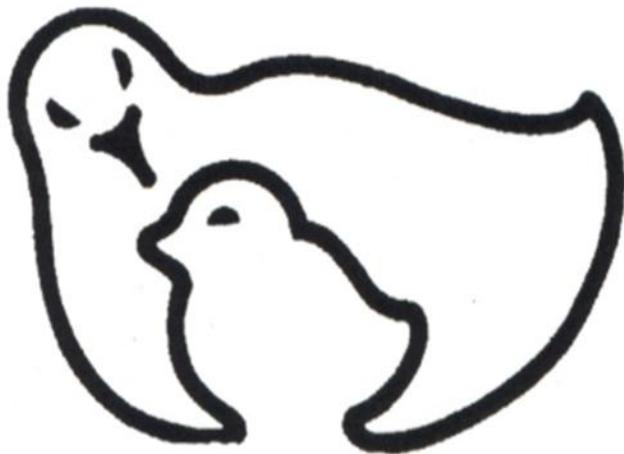
WHEREAS, the policy establishes clear standards to implement the Clean Water Act in a consistent manner and thereby reduces the harmful effects associated with the cooling water intakes on life in the ocean and estuaries, and is applicable to all currently operating coastal utilities including Diablo Canyon which was granted a temporary exemption; and

WHEREAS, Diablo Canyon's antiquated, "once-through cooling" system's intake and effluent of 2.5 billion gallons of water a day from the Pacific Ocean amounts to a significant portion of marine damage to the California coast;

BE IT RESOLVED, that xxxxxxxxxxxxx urges the California State Water Resources Control Board to issue a ruling requiring that cooling towers be built to replace the antiquated and environmentally damaging "once-through cooling" system at PG&E's Diablo Canyon Nuclear Power Plant in order to meet the state's marine protection standards, and

BE IT FURTHER RESOLVED, that xxxxxxxxxxxxxx calls upon the Governor, our other state government representatives, and our environmental protection agencies to urge and support such a ruling.

Stay in touch with SLO Mothers for Peace

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