



MARINAS IN AN ELECTRIC FUTURE

PCC FALL 2022

THE FUTURE IS HERE!



(This is my one token really bad pun slide ... I promise.)



MARINE EV'S ARE ON THEIR WAY

- The marine industry is following in the footsteps of the automotive industry.
- We can expect to see more electric marine vehicles in our marinas in the coming years.
- We should expect to see both new vessels, specifically created to be electric, as well as existing vessels that have been converted to electric.

ELECTRIC CONVERSIONS



In the short term, we will most likely see existing boats converting over to electric using third party inboard and outboard electric motors.

PRODUCTION BOATS



Eventually though, we will see new full electric concept boats hit the market and become the new norm.

WHAT DOES THIS MEAN FOR MARINAS...

Main concerns that marinas need to be aware of and start thinking of:

- Range Anxiety
- Power Demands
- Infrastructure

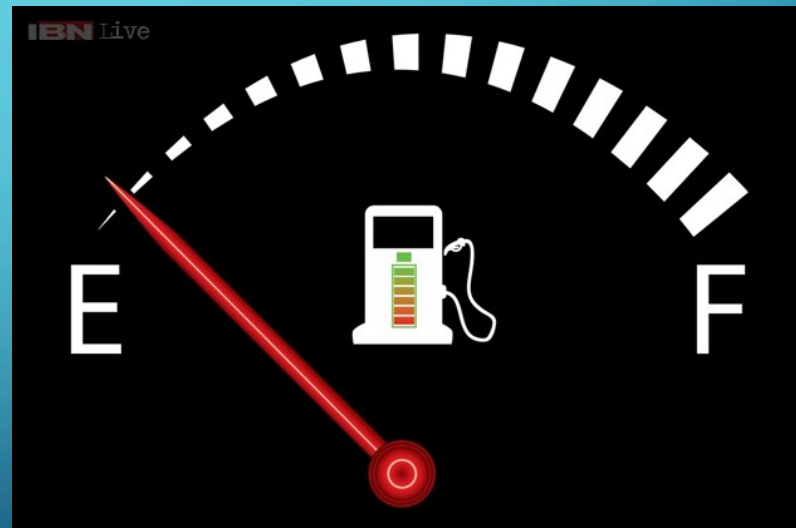


RANGE ANXIETY

How far can my boat go?

How long will it take me to charge?

Can I charge when I get there?



POWER DEMANDS



- 30amp is ok ... kind of.
- Permanent Moorage vs Transient Moorage
- Types of Boats charging.
- Number of boats charging at the same time.
- Potential for brownouts?

INFRASTRUCTURE

Possible solutions:

- Upgrading power posts
- Onsite battery storage for peak demand
- Fast charging stations



IF YOU BUILD IT ... THEY WILL COME.

