

# 16C-Double Paddle Wheel Current Catcher<sup>©</sup> Farms With Spring Buoy Mooring Systems & Round pontoons

1. minimizes current catcher<sup>©</sup> pontoon size and drag forces by minimizing vertical mooring loads.
2. allows the pontoons to stay at a near constant draft as the water's surface changes with the tides and flow stages since the spring buoy mooring system mainly applies horizontal load on the pontoons.
3. can have one or more paddle wheeled generators
4. allows safe surface maintenance of the entire generator system at any time
5. provides high power output for investment cost
6. the paddle wheels can turn a rotor inside the paddle wheel axles or can turn gears, drive shafts, pumps, etc. that then turn most types of generators
7. the generators can be located inside the pontoons or on the top deck
8. the generated power can be transformed on the Current Catcher<sup>©</sup>
9. the generated power can be exported from the Current Catcher<sup>©</sup> down the mooring system to the seabed or to a neighboring current catcher.
10. the system uses the simplest principles allowing low risk short duration design to installation schedules.

# Double Paddle Wheel Current Catcher<sup>©</sup> Farm

















