

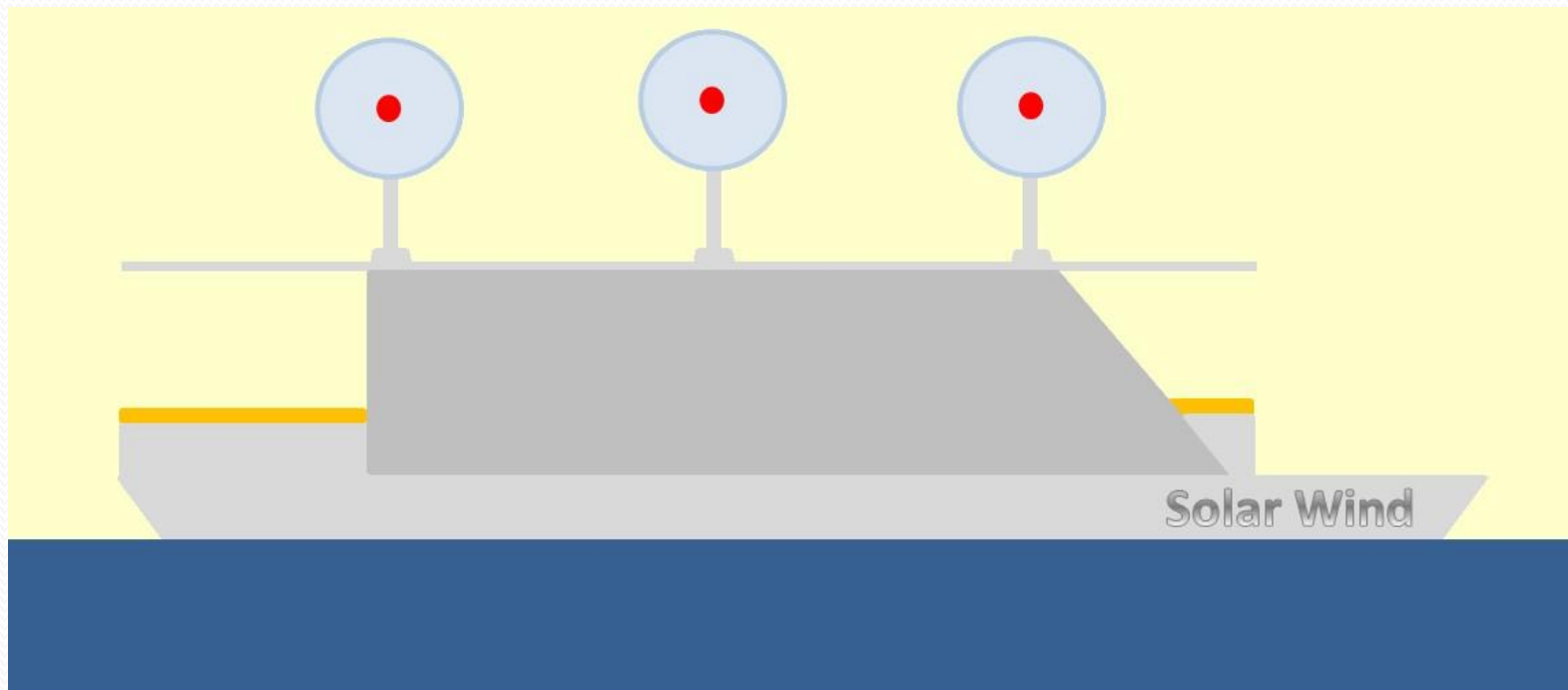
Solar Wind River Cruiser

Mastering Sun, Wind, And Current

William C. Patterson, B.S.Met.E., M.B.A., Ph.D.

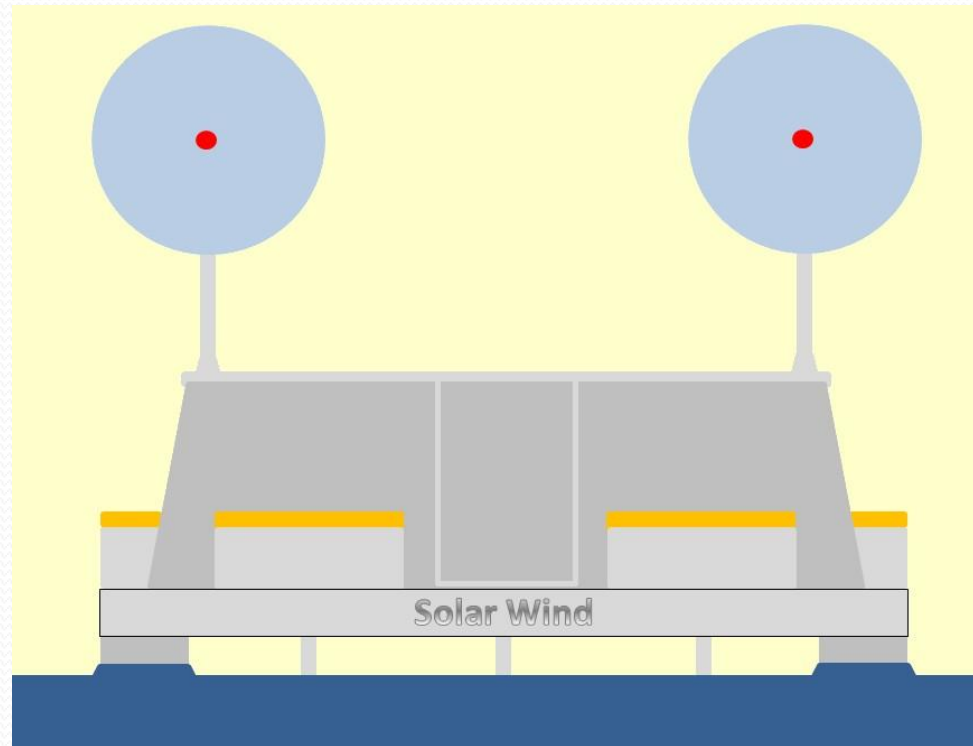
Solar Wind 1 River Cruiser Profile

- Wind Turbine “Sails” Catch Wind At Any Heading
- Solar Panel Roof Collects Sun Over River Channel
- pontoons Ride The Current With Least Drag



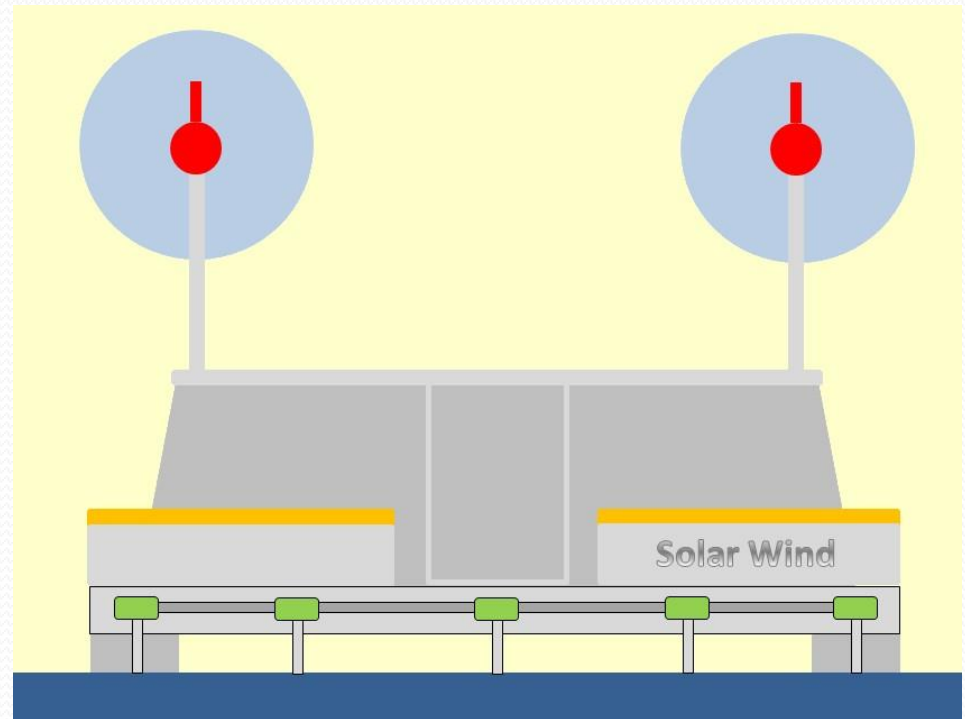
Solar Wind 1 River Cruiser Front

- Tint Glass Cabin Affords 360° Visibility
- Roof Shaded Deck Seats Offer Open Look Ahead



Solar Wind 1 River Cruiser Rear

- Solar Roof Shades Open Rear Deck
- Five Electric Cruise Motors Power & Steer
 - Indexable Power
 - Turbo Induction Prop
 - Linked Steering
 - Propels to 10 MPH
 - ~Small Sailboat Speed
 - Turn On A Dime
 - Wireless Helm

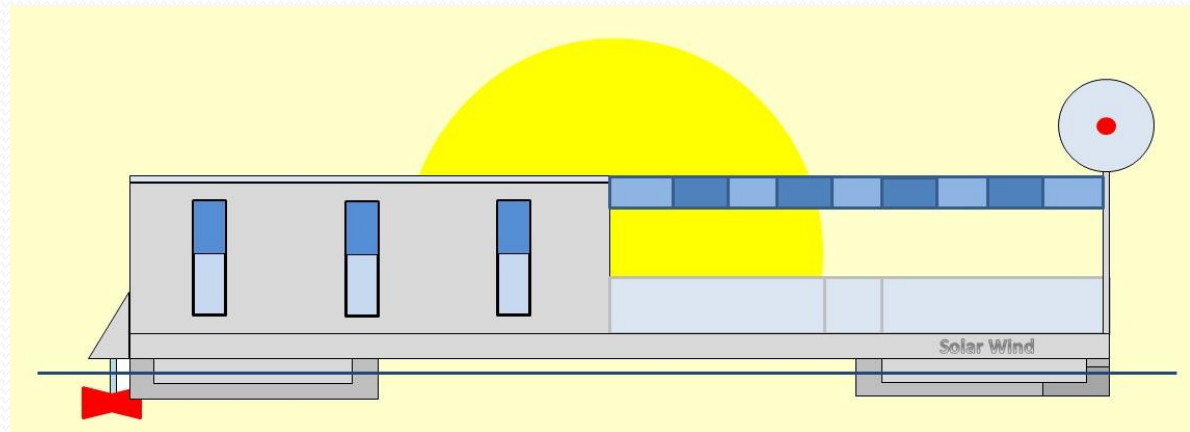


Solar Wind 1 Power Summary

- Roof Solar Panel 8' X 13' = 100 Ft² or 450W
 - \$1000 After Rebates
- Wind Turbine 100W 66"D \$620 each
 - 6 Wind turbines = 600W \$4,000
- **Total Power Output 1kW for \$5,000**
- Battery 12V PbA Deep Discharge 50Lb ea \$50 ea 75 A-hr
 - **Total Storage Energy 250Lb \$250 375 A-hr**
- Motor Potential 200W each \$800 each
 - Total Thrust 150 Lbf \$4,000
- Optimized Motor 30W each 30Lbf Thrust each \$100 each
 - **Total Thrust 100 Lbf \$500**
- **Solar Wind Total Power Cost \$5,750**

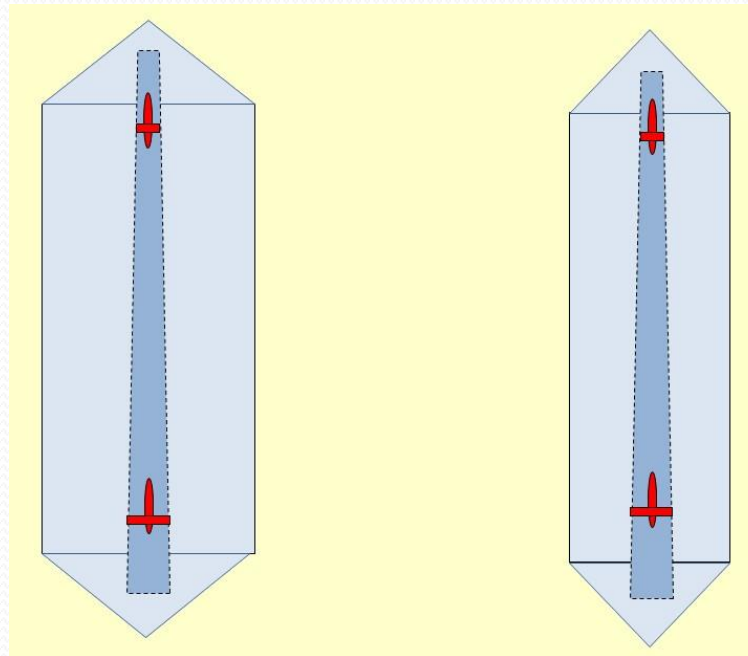
Solar Wind 2 River Cat Cruiser

- 20' River Cruise **Every Family Affordability**
- Off-Season Garage Storage (Nothing Over 10' x 7' & 125 Lb)
 - 2 - 10'L x 7'W Deck Segments Unfold to 20'L x 7'W Deck
 - 4 - 5'L x 2'W x 2'D Quick-Mount Planar V-Pontoons
- Windowed Privacy Cabin (10' L x 7' W) w/ 300W **Solar Roof**
- Retractable Canvas Awning
- Metal or Glass Window Railing (Can Fold Out as Deck Extender)
- 2 - 100W Fwd Wind Turbines
- **80W Electric Drive**
- EVA Foam Deck
- Open Plan Interior
- Unsinkable
- **Pedal Power**



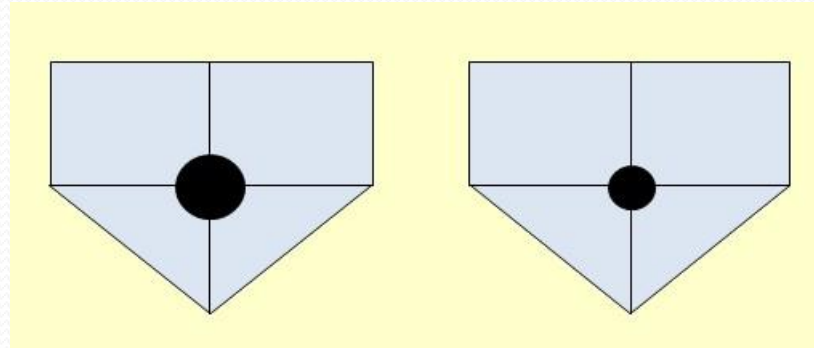
Solar Wind 2 *Turbo QuadToons*

- Stern QuadToon (3'W) Forward QuadToon (2'W)
- Dual Electric Motors (Front: Lo RPM; Rear: Hi RPM)
- Tapered Turbo Channel (Front: Lg D, Rear: Sm D)

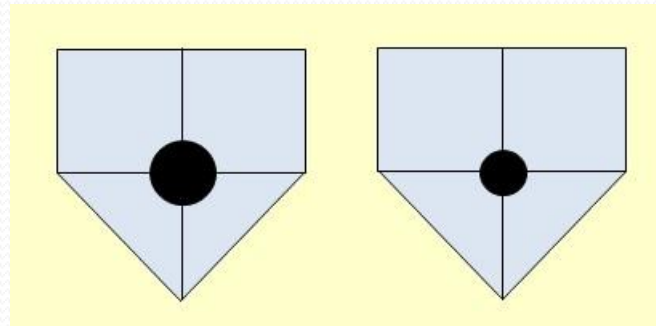


Solar Wind 2 *Turbo QuadToons*

- **Stern QuadToon X/S** (Intake on L, Exhaust on R)



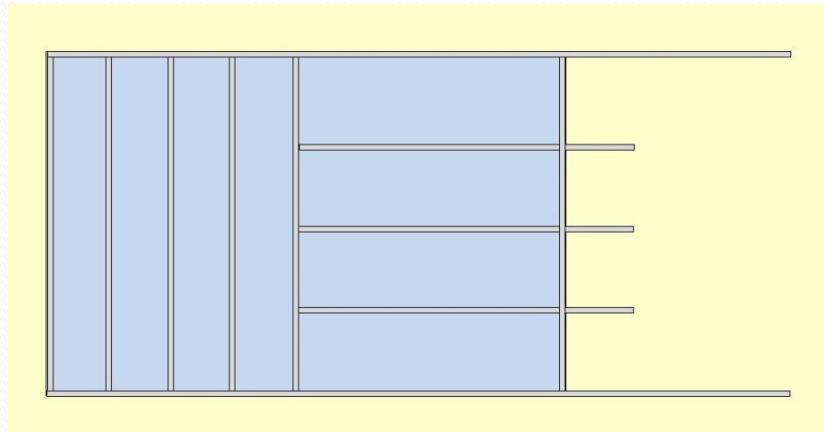
- **Forward QuadToon X/S** (Intake on L, Exhaust on R)



- **Stern Buoyancy Advantage** Maintains F-R Level Attitude

Solar Wind 2 Deck Design

- Flat Deck 20'L x 7'W x 9"T Fully Deployed
 - Center-Folds to Store 10' x 7' x 1.5' & Unfolds to Use
- Aluminum Box Beam Frame Mates With Construction Foam Deck for Added Rigidity
- Port & Starboard Telescoping Aluminum Beams Lock Together



Solar Wind 2 “Walk-On-Air” Deck

- Interlocking EVA Textured Foam Tiles
- *Floor Choice of Beautiful-Body Gym Work-Outs*
- Deck Shoe or Barefoot Walk-On/Lay-On Sunbathing
- Simple Sponge Mop Cleaning
- Compact Stowage Off-Season
- Single or Multi-Color
- No Wood Rot
- No Wood Refinishing
- No Corrosion



Open Plan Deck Furnishings

- Lounge Chairs
 - Patio Table & Chairs or Folding Table & Chairs
 - Portable Air Mattress or Folding Cot
 - Portable John, Vanity, & Shower
 - Private Changing Station
 - Table-Top Gas or Electric Grill
 - Bottled Water Sink & Storage Cabinet
 - Portable Refrigerator or Cooler
 - Inflatable Kiddie & Sunbathing Pool
 - Electric Fans, Heaters, Emergency Generator
 - Marine Safety Kit & Flotation (includes lights & way rules)
 - Tool Kit & Mooring Lines
 - Inflatable Raft & Inner Tubes
 - Fishing Rods, Tackle Box, Fish Finder, Cookbook
 - Snorkeling Gear
 - Mariner Electronics: Depth Finder, Cell Phone, GPS Navigation/Maps, S/S Radio, Tablet Computer Helm
 - Leisure Electronics: Radio, Stereo, TV
 - Dual Fwd Pedal Power Stations 60W-130W
-
- SYNERGY: Set Up Once At Beginning of Each Season OR
 - Transfer From Home Use For Each Excursion
 - Owner Buys What Suits His Home AND Aquatic Holiday Preferences AND Budget

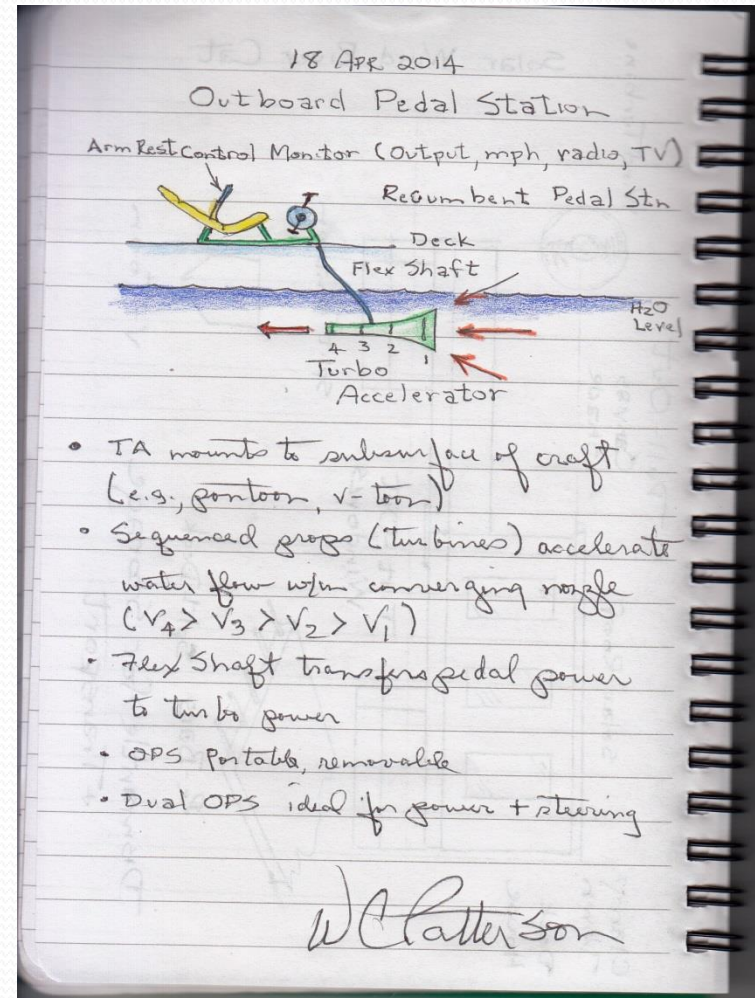
Natural Power Deck Accessory

- Dual Stationary Bikes Can Be Used to Furnish Human Pedal Power for the Solar Wind. It is Wonderful *Back-Up* Propulsion. It Also is Wonderful *Primary* Propulsion for Those Seeking Physical Fitness on the Water.



Natural Power Deck Accessory

- Recumbent Pedal Station
 - Dual Stations Ideal
- Flex Shaft Transmission
- Turbo Accelerator



Mini Power Deck Accessory

- One or Two Mopeds Aboard the Solar Wind Not Only Provide Transport At the Destination, But Can Serve As River Propulsion Enroute.



Solar Wind 3 Collapsible Cabin

- Ultimate River Cruise Economy is Achieved by Appointing the Solar Wind Deck with an Aluminum Frame Over Which is Flat-Stretched Canvas, Nylon, or Vinyl After the Manner of Restaurant Vestibules, Party Tents, Commercial Gazebos, etc.



Solar Wind 4 Land & Water Shelter

- Nature Experiences are Synergistically Achieved by Deploying a Lightweight Family Travel Trailer on a Flat Deck Solar Wind Craft.
- Small Trailer Serves Land Camping Trips AND Furnishes On-Deck Shelter for River Excursions.



Solar Wind 5: Land & Water Mobility

- Shelter from the Elements AND Destination Travel Convenience are Synergistically Achieved by Floating a Micro Van or Sub Compact on the Flat Open Deck of Solar Wind Craft.
- SW5 Parallels the Famous Auto Train in an Aquatic (Rather than Railway) Travel Environment . . . with Family Affordability.
- Fueled Vehicles Can be Modified to Provide Propulsion on the Water.



Chery Riich II



Special Features: Deck Expanders

- Solar Wind Can be Configured for Hinged Lateral Fold-Out Deck Expanders
- Deck Expanders Can Run Up To Full Length
- Each Deck Expanders Can Be 1' to 3' Width
- Un-deployed Deck Expanders Serve as Perimeter 1' to 3' High Barrier (Railing)
- Deck Expanders Deploy Symmetrically for Craft Balance
- Deck Expanders Add 2' to 6' Width to Basic 7' Deck
- Deck Expanders Can Be Retracted When Protective 1' to 3' High Deck Railing is Desired, Upon Return to Dock, to Extract Craft From Water, to Trailer the Vessel, or to Store for Off-Season

Solar Wind Dedication

- Solar Wind River Craft Promote Harmless, Affordable, Enjoyable Waterway Experiences for All
- Captain's Pledge:
- Do Something to Improve the Aquatic Environment on EACH Excursion. Harm No One. Damage Nothing.
- Solar Wind River Craft are Dedicated to Family Life, Nature Preservation, and Global Peace
- Use for Military Operations, Drug Trafficking, Maritime Crime, Piracy, Poaching, Over-Fishing, Waterway Abuse, Water Travel Rights Infringement, or Other Non-Peaceful Agenda is Prohibited