



FLOATING SOLAR FOR AG

ALEX MAYER

December 2025



Experts in Floating Solar Since 2018

Sausalito, CA

Experienced Project Developer & Technology Provider

R&D/Product Team



ALEX MAYER
CTO | FOUNDER

- 22 years in solar: Solar City/TESLA, ABB, PVEL, NEXTracker, Enphase, GAF, SPAN
- System architecture, product design, qualification & compliance, and scale



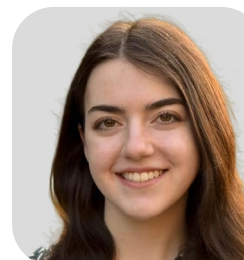
JIMMY RAIFORD
SVP OF PRODUCT

- 10 years in renewables & solar
- Built next-gen solar cell technology at Stanford
- Product engineering & testing, solar project engineering



JASON KING
CONTROLS & TESTING ENGINEER

- 15 years in solar & cleantech
- Electrical Engineering background with experience in electronics and material science R&D



BECCA SUCHOWER
DESIGN ENGINEER

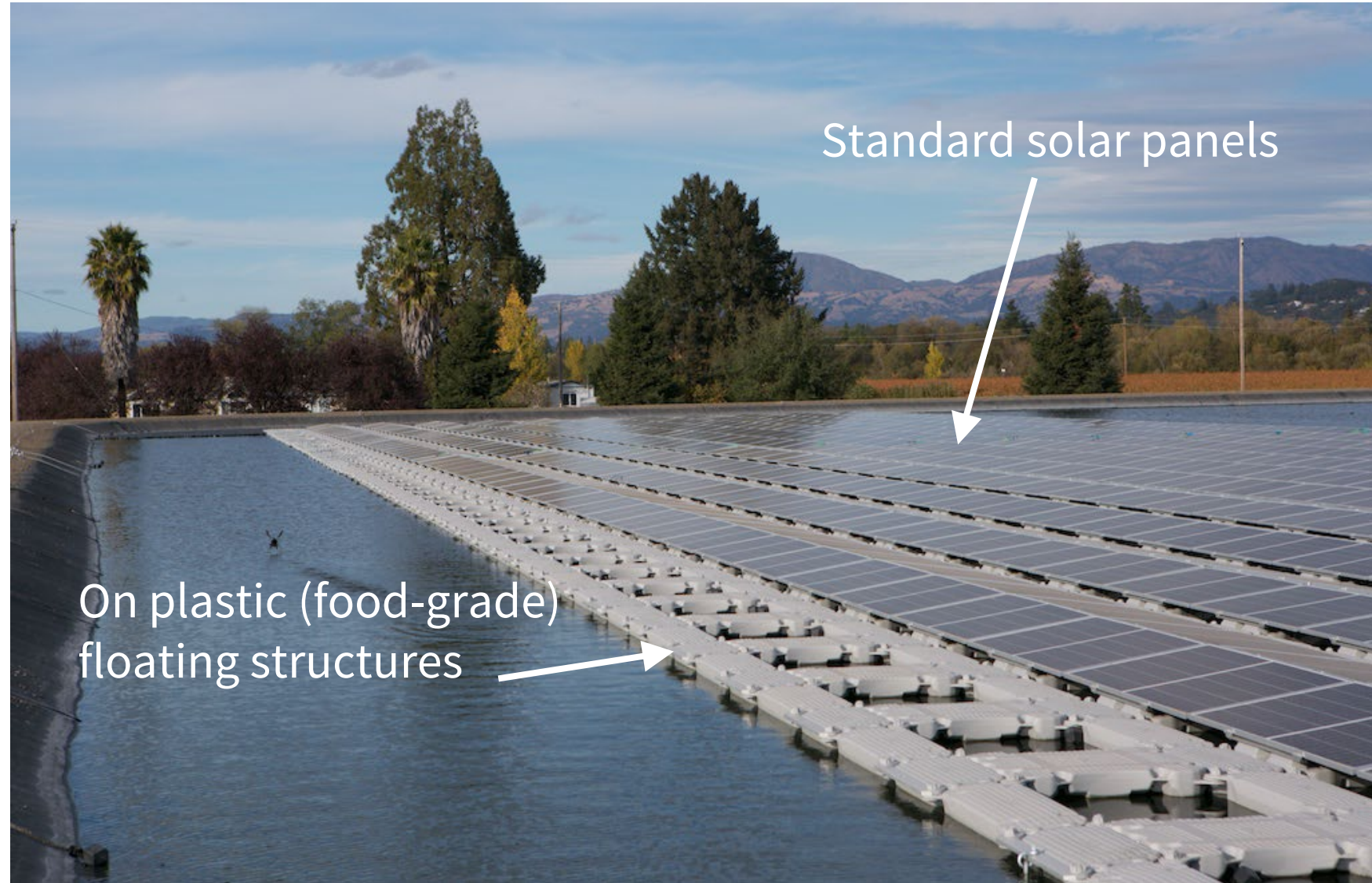
- 4 years in cleantech & solar
- Mechanical design, simulation, rapid prototyping, and fabrication

FLOATING SOLAR SOLVES ENERGY & WATER RESILIENCY

10 GW installed globally

Does not compete with
other land uses

Reduces algal blooms
and evaporation



OUR PROJECTS

Healdsburg Wastewater Treatment Facility, CA



Largest FPV Project in the western hemisphere (when built, 2022)- 4.8 MW



Operates with fluctuating water levels including 0 ft. water level

Urrea Hydroelectric Power Plant, Colombia

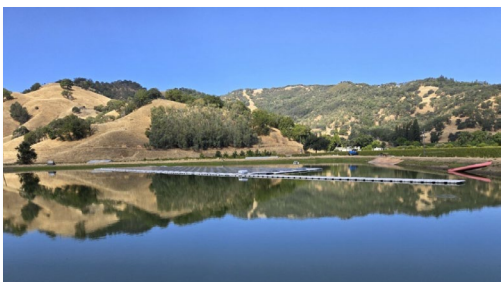


Largest FPV Project in the South America (when built, 2023)- 1.5 MW



Complements the 350MW hydroelectric facility's output

Nelson Family Vineyards, CA



150kW Floating Solar installation on irrigation pond



Upgraded electrical service at same time to support load growth

Consolidated Mutual Water Company, CO



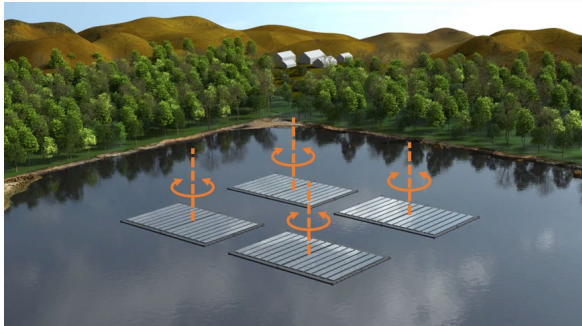
50kW pilot of tracker to increase energy production by >10%



Collaborative Effort

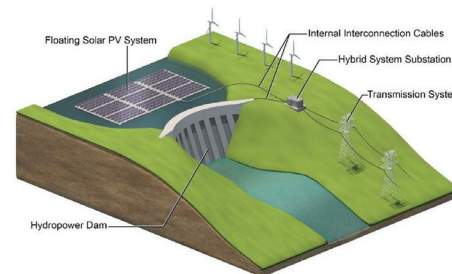
Floating Solar Tracking

- 10-20% more energy output
- 15% lower Levelized Cost of Energy



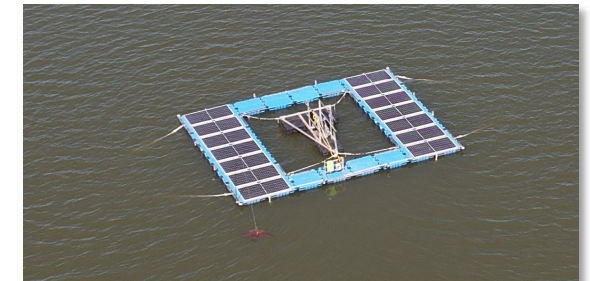
Hydropower Integration

- Optimize dispatch of complementary generating assets
- Utilize existing power grid infrastructure



Power for Distributed Water Tech

- Operate targeted equipment for water treatment & distribution (e.g., aeration, pumps)

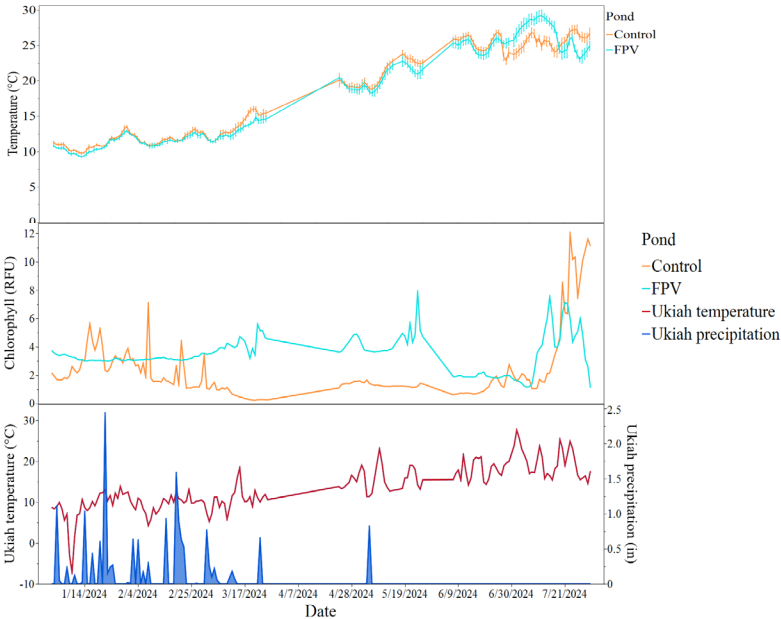


[1] LCOE = Levelized Cost of Energy

[2] Indicative of a N. California environment

WATER QUALITY STUDY AT NELSON FAMILY VINEYARDS

Problem	Algae has been a problem for the past 15 years, and pumps must be cleaned after 1-8 hours of operation.
Goal	Determine if FPV can improve water quality through shading to lower temperature and reduce algae growth.
Methodology	Monitor pH, Dissolved O ₂ , and chlorophyll in the FPV pond before and after installation as well as in a control pond.
Next Steps	Add water treatment technologies powered by the FPV to further improve water quality using Noria's H ₂ O&M [®] technology platform.



H₂O&M[®]: POWER FOR DISTRIBUTED WATER TECH

- Use solar energy — floating or otherwise — to power motors for your agricultural operations
- DC-coupled solution allows utilization of otherwise clipped power (~5% more usable energy¹)
- Works both on- and off-grid



Destratification | Grand Lake, OK



Aeration | Davis, CA



PV Battery (Opt) Motor



SBIR · STTR
America's Seed Fund



Office of
SBIR/STTR
Programs

1. Indicative of Northern CA, 1.3 DC:AC ratio



THANK YOU



For more information or project development services:

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www.noriaenergy.com