

Natel Energy High-Performance, FishSafe Hydropower

Who we are

Natel is a technology and engineering company working to support healthy rivers, promote biodiversity, and decarbonize the grid.







GIA SCHNEIDER CEO, co-founder ABE SCHNEIDER KIZZIE BROWN CTO, co-founder CFO GREGOR CADMAN COO, VP Engineering



What we do

Natel specializes in data-driven hydraulic design of FishSafe[™] hydropower turbines.



We partner with turbine manufacturing companies to realize our designs. We can work across the value chain to assess feasibility and support implementation of turbines designed for fish safety at hydro projects.



Our solution

Natel's patented FishSafe™ designs deliver

transformational fish safety without compromise on power.

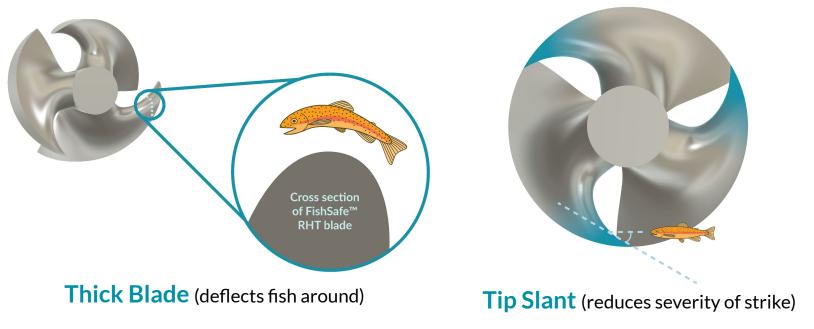
FishSafe Blade Design

Safe For Fish Demonstrated 98-100% fish passage survival High Performance Demonstrated efficiency >90% Cost Saving Reduces/eliminates fish exclusion screening Reliable Demonstrated >97% commercial availability **Configurable** Design to fit based on site requirements

S NATEL ENERGY

High performance, FishSafe turbine design

The core of Natel's blade design is a **thick** and **slanted leading edge**. This allows the runner to **rotate at high speeds**—maintaining conventional turbine performance metrics like high power density, high efficiency, compact form factor, and low cavitation—while **passing fish safely** directly through the turbine (eliminating the need for fine screens, bypasses or other compromise solutions).





RHT reference installations



Freedom, Maine Freedom Falls Hydro

| Capacity | 35 kW |
|---------------|-------------|
| RHT Unit Size | PIT D055 |
| Head | 7 m (23 ft) |
| Commissioned | Dec 2019 |



Madras, OregonMonroe HydroCapacity300 kWRHT Unit SizePIT D190Head5 m (16 ft)CommissionedSept 2020



| Großsulz, Austria | |
|-------------------|--------------|
| Sauerbrunn Hydro | |
| Capacity | 15 kW |
| RHT Unit Size | BULBO D062 |
| Head | 1.9 m (6 ft) |
| Commissioned | Oct 2022 |



Breakthroughs enabled by long term investment



Supported by USG funding





Buckeye Pilot Project commissioned, Gen 1 turbine



Hydraulic scale model performance test facility commissioned



Gen 3 turbine (Linear Pelton) created, tested



Two projects installed with RHTs, 100% survival in trout study



First European RHT installation (Austria)



300 kW RHT install with new SCADA system

