

# V E R T E R R A E N E R G Y

Scalable, Low Cost 24/7 Zero Emission, Renewable Electricity

## OPPORTUNITY SUMMARY

COMPANY	Verterra Energy, Inc.
INDUSTRY	Modular Hydropower
HEADQUARTERS	Minneapolis, MN
AMOUNT	\$2.5 million
SECURITIES	Pre Series-A
USE OF PROCEEDS	Build & deploy commercial-scale VOLTURNUS for US Army Corps of Engineers

### MODULAR

50 kW to MW+ Scales on site

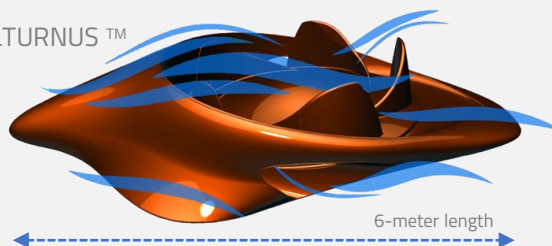
### ECONOMIC

24/7 power Low LCOE

### RELIABLE

Self-clearing Rugged design

VOLTURNUS™



*"VOLTURNUS has the potential to fundamentally change how we harness the power of flowing water on our planet. It is a truly innovative, modular, hydro turbine design that expands how small-scale hydro power can be characterized and evaluated."* – Aaron Petri, USACE Construction Engineering Research Laboratory

## BUSINESS & TECHNOLOGY OVERVIEW

### EXPERIENCED TEAM



World-class team with experience from Boeing, Honeywell, GE, Tesla, ORPC, and the DOE

### UNTAPPED MARKET



1,638 Hoover Dams' worth of untapped power in rivers around the world

### EFFICIENT CAPITAL



Utilize strategic partnerships & contract manufacturing, USACE & DoD facilities

Verterra Energy, Inc. ("Verterra") believes energy should propel us forward, in a sustainable way. That's why we've reimagined hydropower; **VOLTURNUS uniquely harnesses the untapped power of flowing water.** It is not a modest improvement of an existing technology, or a repurposed wind turbine, but *an entirely new concept.*

VOLTURNUS combines the working principles of centrifugal pumps & hydrofoils in a rugged, fish friendly, hydrodynamic design. VOLTURNUS deploys in harmony with the current to dynamically adjust to water direction, velocity and depth.

Like solar, VOLTURNUS is modular and scalable, but unlike solar and wind, produces continuous, predictable power. When deployed in modular arrays of 5, or **V-PODS**, the technology creates **scalable, low cost, 24/7 power from 50 kW to multi-MW arrays.** VOLTURNUS can be mass produced in sizes from ¼ to 8 meters in diameter for specific applications, but initially Verterra will focus on achieving commercial success with their 3-meter commercial "microgrid" technology.

### US ARMY CORPS OF ENGINEERS ("USACE") COLLABORATION PROJECT for DoD Microgrids

#### PROJECT OVERVIEW

- **2018** – USACE researches hydro as energy source to enhance preparedness
- **April 2020** – Verterra chosen by USACE
- **Goal** – Utilize joint Verterra-USACE resources to validate VOLTURNUS

#### CURRENT STATUS

- **Full system architecture** (proof of concept)
- **Successful field tests** (up to 1-meter scale)
- **Record setting efficiency** (up to 50% Cp)
- **Issued Patents** (US & International)

#### NEXT STEPS

- Secure Capital
- Build 3 meter Commercial-scale VOLTURNUS
- Deploy at Multiple DoD Facilities for USACE
- Validation of fully Integrated V-POD System
- Execute on Sales Pipeline