

## LOWERING COSTS WITH MECHANICAL METAMATERIALS

### The Problem

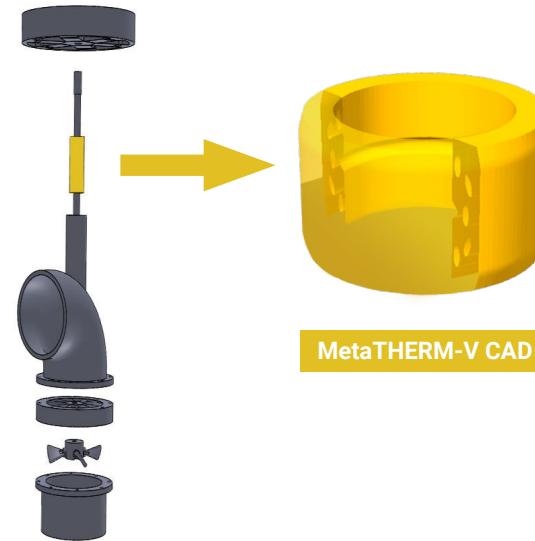
Undamped vibrations in hydroelectric turbines accelerate wear, increasing maintenance costs and decreasing efficiency of electricity generation.



**Image:**  
The Sayano-Shushenskaya hydro plant failure, which experienced vibrations 7x higher than the allowed baseline in the days before the event.

### Our Solution

MetaTHERM-V is a bearing assembly component enhanced by mechanical metamaterials for improved vibration dampening, leading to reduced costs, increased efficiency, and superior supply chain logistics.



### Why Us?

The proposing team has a track record of success developing commercial applications of metamaterial technologies.

- \$1.5 Mn in equity-free seed funds
- USPTO 63/044646
- Full-time staff of 5
- 2,300 sq-ft facility
- Unique equipment for R/R&D/RDTE activity
- Synergistic applications in aerospace, defense, and transportation
- Native DfAM technology

