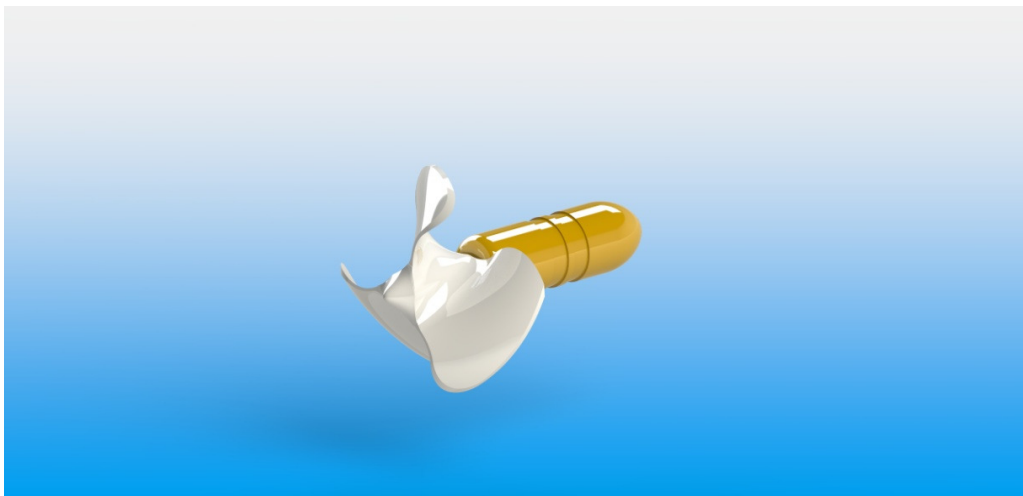


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30W mobile hydroelectric miniturbine

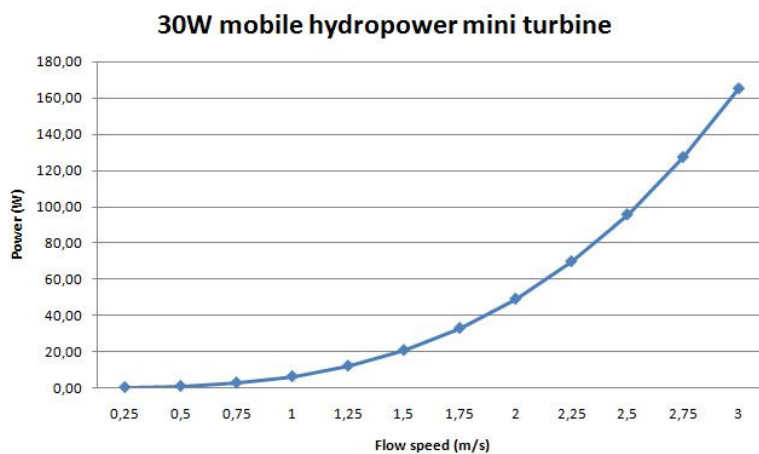
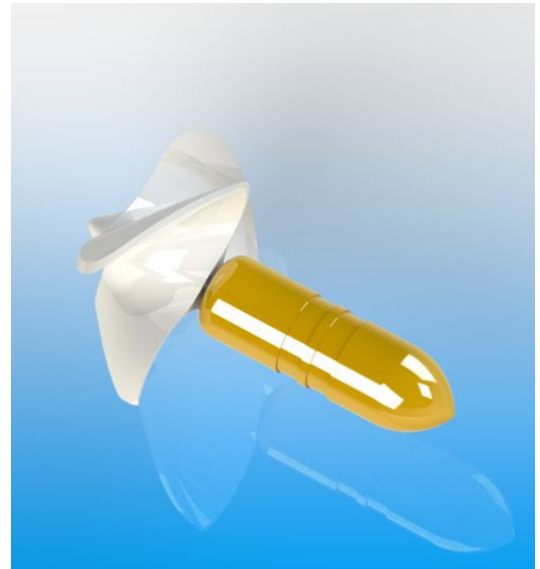


Mobile hydroelectric power plant with 30W rated power constructed in a way that is environmentally friendly, small footprint, with characteristics acceptable to every installation location.

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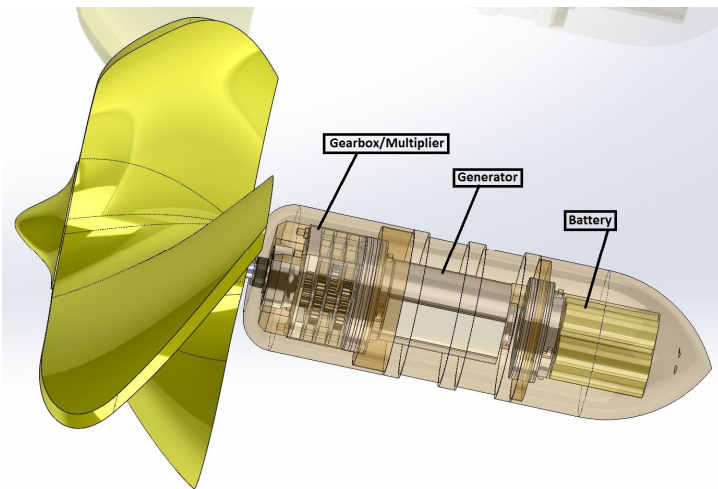
Technical data:

Rated power	30 W
System	1 turbine, submarine-shaped nose
Min. flow rate	0.5 m/s
Rated flow rate	2 m/s
Max. flow rate	5 m/s
Generator	permanent magnet, up to 30W
Turbine	3D printed, $\Phi 300$, 3 blades
Turbine submergence	full
Swept area	0.07 m ²
Rotation speed	30 rpm
Gearbox/multiplier	up to 2800 rpm
Battery	24V, galvanic/voltaic cells
System dimensions	0.3 m x 0.5 m x 0.3 m
System weight	3.5 kg



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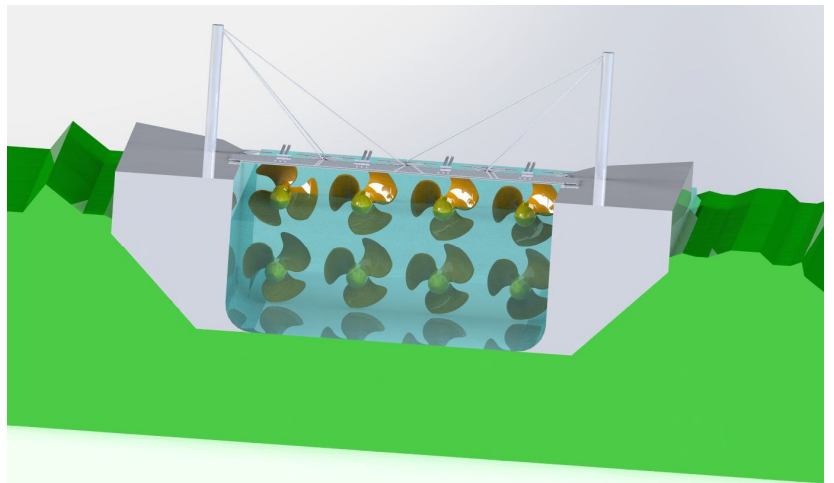
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Submarine-shaped nose contains 3 separate parts:

1. Gearbox/multiplier
2. Generator
3. Battery

Using multiple sets of miniturbines formed in wall of miniturbines instead of one single large turbine. Maintenance is much cheaper, faster and the system is more robust so that if a single miniturbine is damaged the other miniturbines will continue to operate unimpeded.



Miniturbines can be used/installed on yachts/sailboats for generating free electrical power to power a fridge, LED lighting and for charging mobile, tablet and laptop devices.

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