

SOLAR INFLATABLE TECHNOLOGY

TEAM. Martin Defense Group is a leader in inflatable structures research and development that use drop stitch (distance fabric) materials. When deflated, drop stitch fabrics are compact and stowable. When inflated, the materials become stiff and lightweight structures.

PROBLEM. Our proposed concept is aimed at increasing the self-reliance and range of electric boats on the water. Solar technology has shown promise to solve this problem by providing energy while a boat is on the water. The modern problem is that most boats don't have enough flat open space to generate adequate amounts of energy from solar panels.

SOLUTION. Our patent-pending solution to this problem is an inflatable solar panel that is portable, stowable, and easily deployable. When needed, it may be inflated over the water to provide power to the batteries or to electric motors. With this device, solar power could be readily available on boats, giving more people the opportunity to go electric without compromising on range or time on the water.

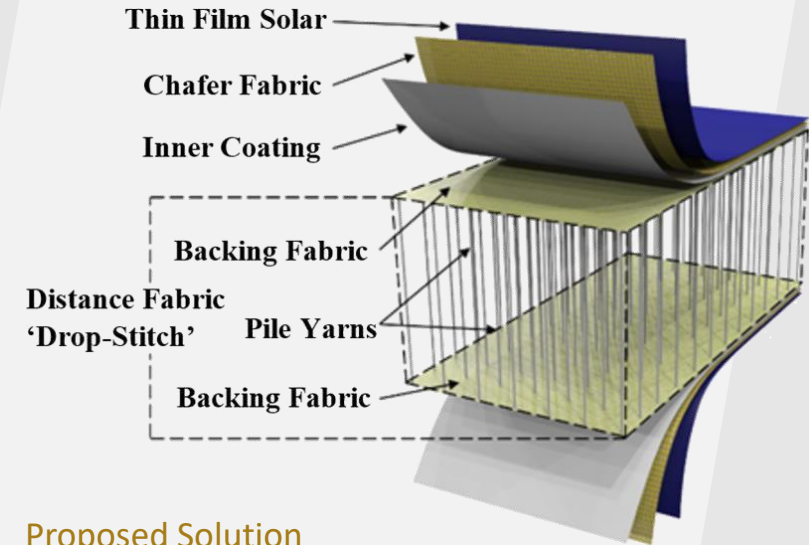
Rescue Sled on Land



Rescue Sled in Water



Concept Construction



Proposed Solution

