



مركز خليفة للابتكار
khalifa INNOVATION CENTER



KHALIFA INNOVATION CENTER
STARTUP PORTFOLIO

VALIDITY

Q2-Q3 - 2021

FOUNDING TEAM

AYOOB ALHAMMADI, CEO
DR. IBRAHIM MUSTAFA, CTO
SHAIKHA MARYAM ALNAHYAN, CBDO

THE PROBLEM

There is a high demand for carbon sheets (Graphite) in engineering systems that require thermal conductivity, EMI Shielding, and energy storage.

The existing carbon sheets (Graphite) have unsatisfactory performance, excessive weight, and insufficient flexibility.

CURRENT SOLUTIONS IN THE MARKET

The carbon Nano sheet is set to replace the graphite sheet market that has the following constraints such as high cost, high weight, low performance, and is not sustainable.

MARKET OPPORTUNITY

The global graphite sheet market as of 2020 is USD 2.7 Billion dollars, growing at 3.6% CAGR and Fabcast positions itself to potentially take a share of this graphite market. The potential top 4 target sectors for Fabcast are the following.

- i. Military & Defense
- ii. Space
- iii. Electronics
- iv. Batteries & Portables



THE SOLUTION

A range of Carbon Nano-Tube sheets that are customized to the target client requirements that has a higher performance to cost ratio.

The custom-developed manufacturing process has more yield than competitors.

Bespoke shape & size tailored to specific customer requirements while maintaining high quality.

BENEFITS

- Ease of material customization.
- The sheet can be easily cut.
- High performance.
- Very high flexibility.
- Foldable.

BUSINESS MODEL

- Co-development & bulk ordering
- Pilot price AED 1000 per Meter Square.
- Bulk average price AED 500 per Meter Square (varies based on the application requirement and minimum order)

TRACTION

- Ongoing Pilot with Mohammed bin Rashid Space Center (MBRSC).
- Endorsement from an Industry expert.

CONTACTS

- Ayoob Alhammadi, CEO
- aalhammadi@fabcastsolutions.com
- +971509777228

