FSC TECH

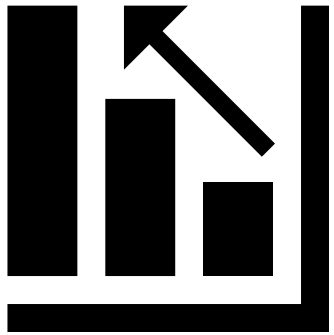
Environmentally Conscious Wind Towers

60% CO_2 SAVINGS

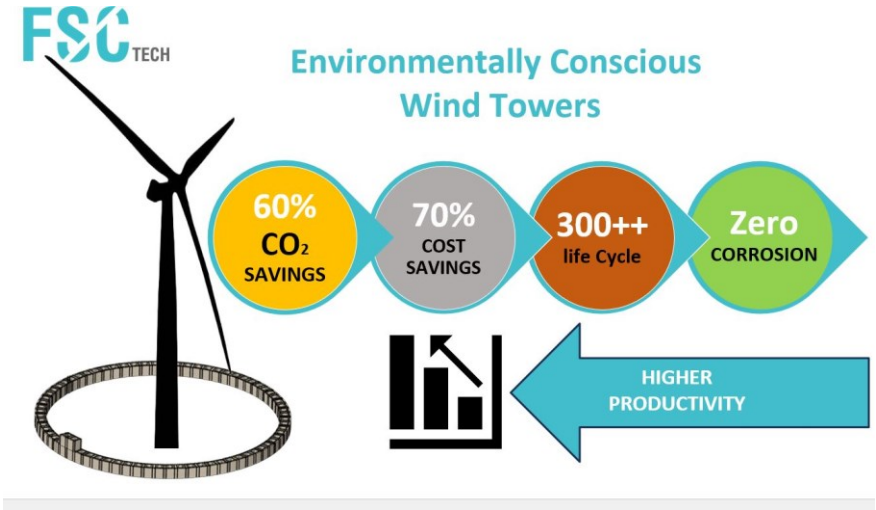
70% COST SAVINGS

300++ life Cycle

Zero CORROSION



HIGHER PRODUCTIVITY



ACHIEVED THROUGH THE OPTIMIZATION OF THE FOLLOWING KEY FACTORS

AUTOMATION

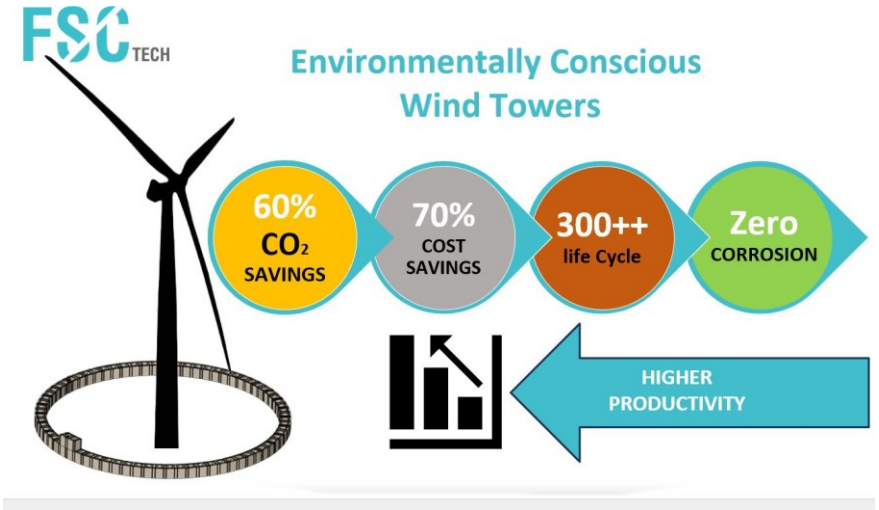
- Production
- Transport
- Installation

INNOVATION

- The FSC Reinforcing Tech

MATERIALS

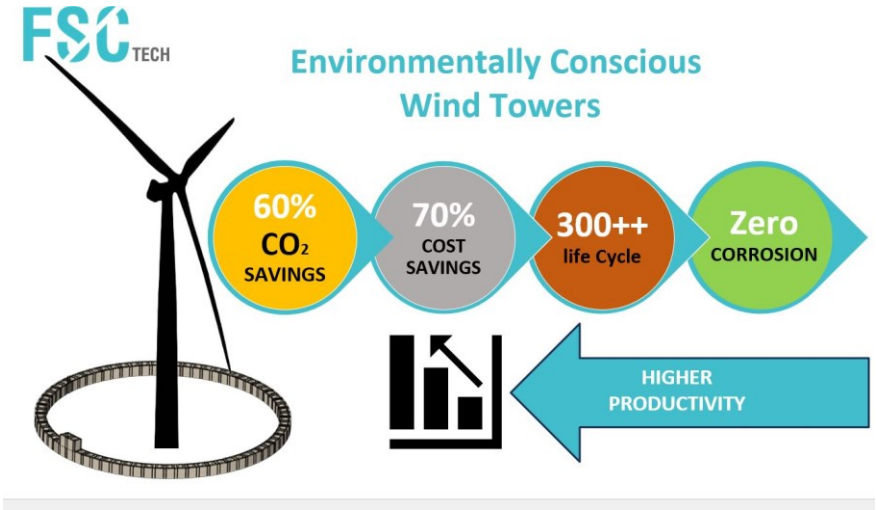
- Cost Effective
- Corrosion Free
- Low Carbon Footprint
- Widely Available
- Well Known Properties



MATERIALS

THE KEY MATERIAL IS CONCRETE BLOCKS

- Extremely low cost
- Very low cement content, due to the dry cast production process
- Widely available everywhere
- The Block Factories are highly automated, and have a very large production capacity, for example in one day they are able to produce blocks for about two wind towers 100 mt tall
- **Very Low Carbon Footprint**

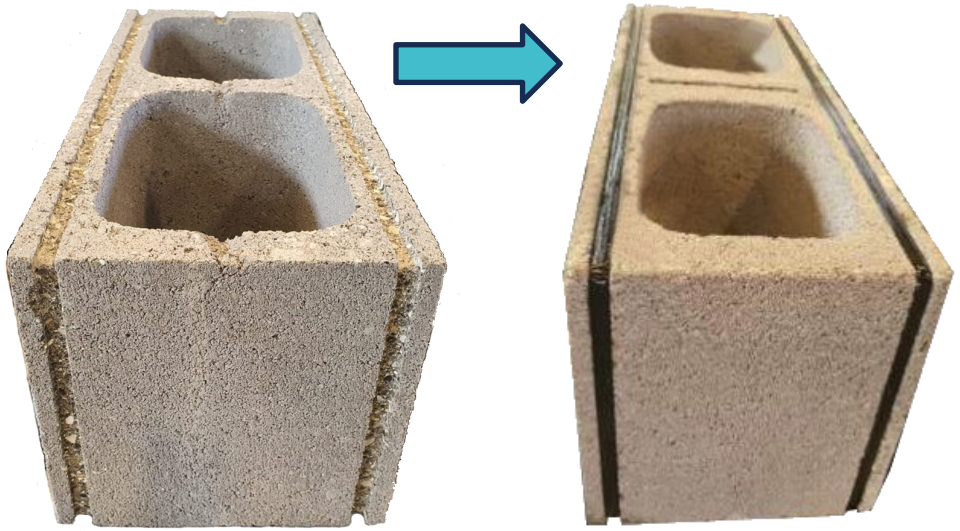


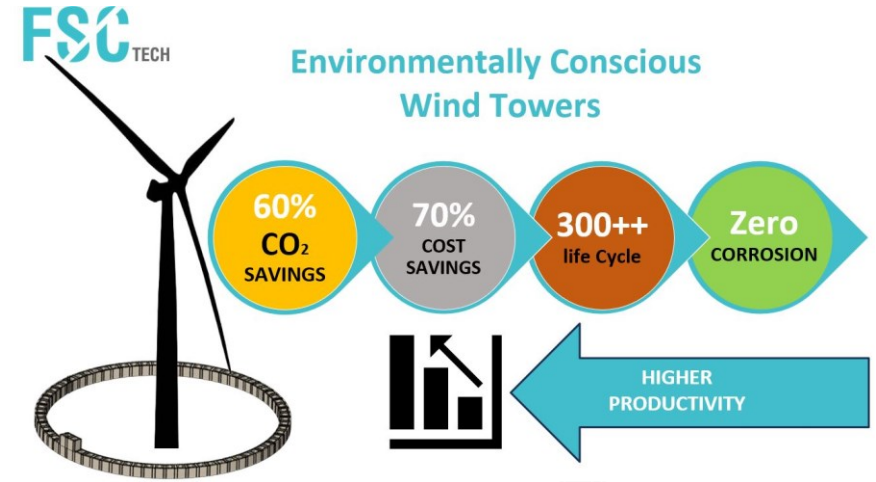
INNOVATION

THE FSC REINFORCING TECHNOLOGY

- The Concrete Blocks Structural Behavior is dramatically improved by wrapping with FRP “in tension”
- Blocks are connected together by gluing the wrapped FRP
- **The Block Wall Structure behaves in a way very similar to that of the corresponding Steel Structure**
- Block wrapping, and Block connection / Tower Assembling, are highly automated processes
- The FSC Reinforcing Tech is based on FSC Patents

Concrete Block after the Wrapping

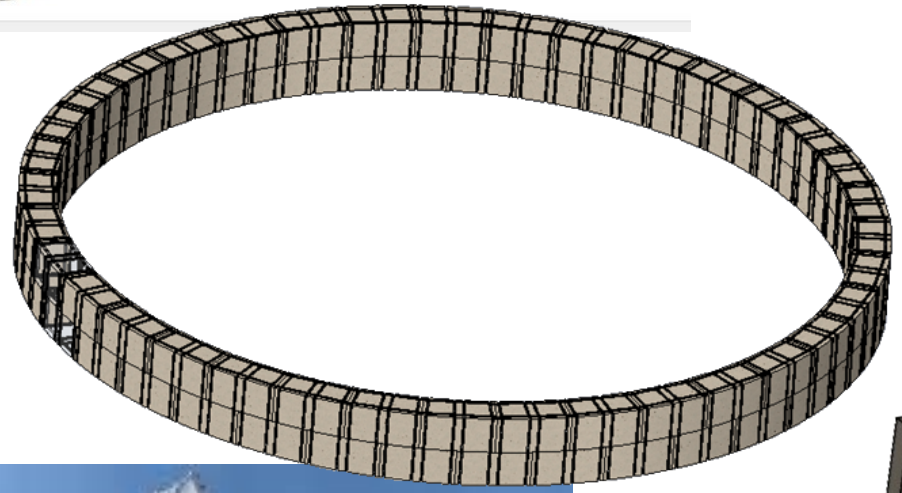


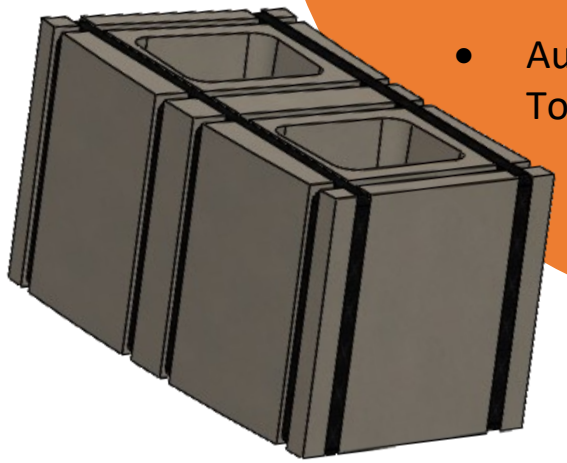


AUTOMATION

A HIGHLY AUTOMATED AND OPTIMIZED PROCESS

- The Concrete Blocks production is fully automated
- Block wrapping fully automated at the block production plant
- Block transport to Installation Site / Harbor
- Automated construction process in Tower Segments

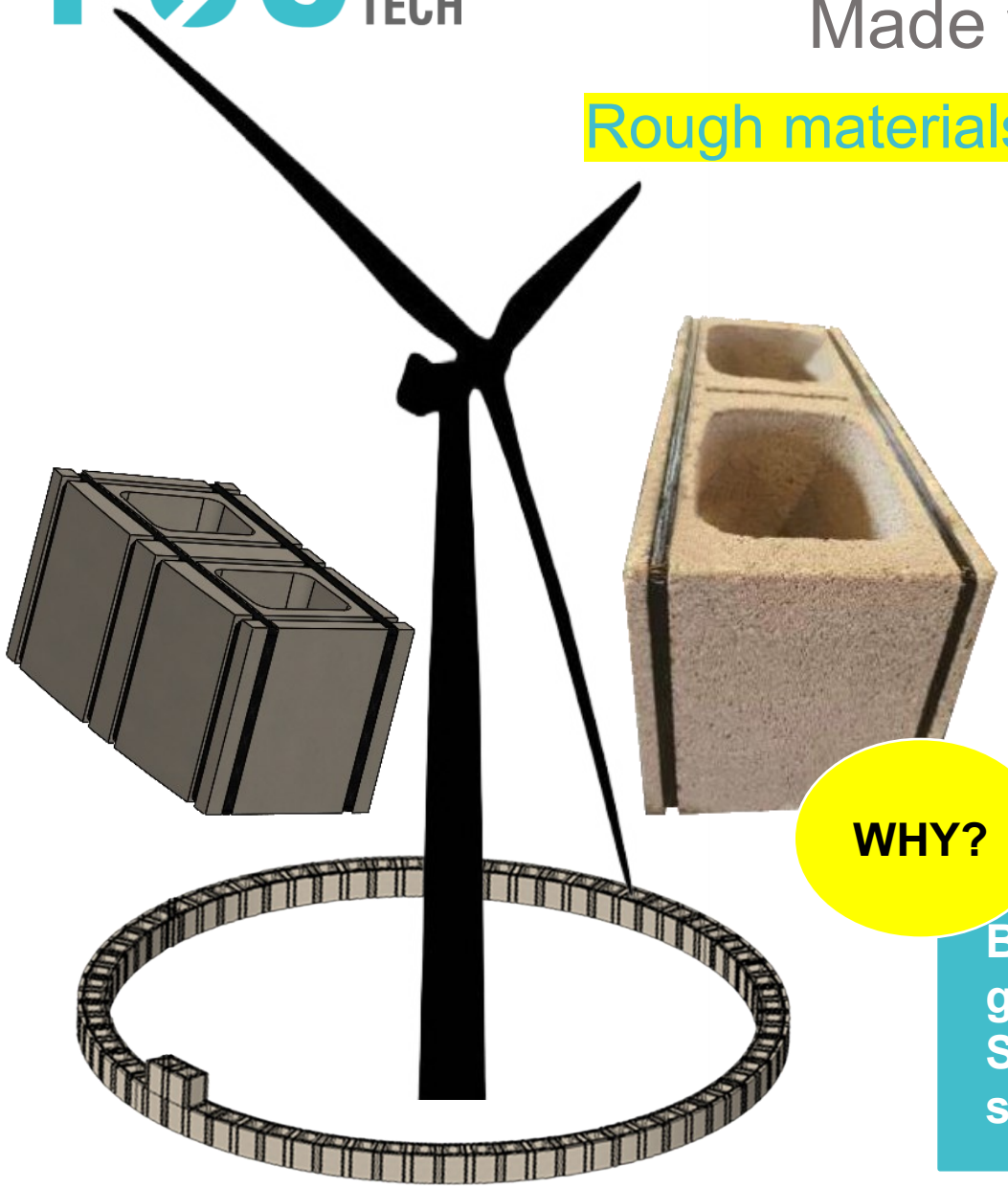




Onshore/Offshore Wind Towers

Made with the FSC Structural Tech

Rough materials cost for Wind Tower 110 Mt tall, 8 MW



Materials	Qty	UM	Unit Cost $ USD	Total Cost $ USD
Concrete Blacks	800	Ton	75	60,000
Fiber	30	Ton	3,500	105,000
Resin	6	Ton	8,000	48,000
Steel	60	Ton	1,750	105,000
			TOTAL $ USD	318,000

WHY?

Because the FSC Tech gives the Concrete a Structural Behavior very similar to the steel

LABOR AND AUTOMATION

Labor is a lot less than steel mast since the process is highly automated. The full mast structure can be assembled