



FOTA DEVELOPMENTS GREEN BUILDINGS

MANUFACTURER OF MATERIALS AND EQUIPMENT FOR CONSTRUCTION GREEN ENERGY

www.fotadevelopments.com.au

ABOUT US

OUR EXPERIENCE

With over 30 patents and internationally recognized awards underpinning our NEARLY ZERO ENERGY (NOE) technology concept, and two decades of expertise in concrete precast panel construction, we drive the vision of sustainable, green construction forward through cutting-edge technological advancements.





THE MISSION

ACCELERATING THE ENERGY TRANSITION

VISION

To lead the transformation of the built environment into a netzero carbon future, pioneering innovation, research, and advanced construction technologies.

MISSION

To innovate, research, and implement cutting-edge construction technologies and equipment that accelerate the energy transition, creating sustainable, efficient, and people-centered solutions for a thriving planet.

PROBLEMS

O1 Inefficient Thermal & Sound Insulation, & Energy Loss

Any other traditional construction materials like polystyrene or mineral wool provide suboptimal thermal insulation, leading to high energy costs and inefficient energy use.

O2 Slow, Expensive, & Complex Construction

Traditional construction methods are labourintensive, time-consuming, and require skilled labour and heavy machinery.



03 Material Degradation Over Time

Materials such as polystyrene degrade quickly, losing their insulating properties and requiring frequent replacements.

PROBLEMS

CONTINUED

04

Vulnerability to Harsh Environments

Conventional materials fail under extreme temperatures, water exposure, or seismic activity.



Fire Safety Concerns

Many construction materials are combustible and emit toxic fumes during fires, posing safety risks.



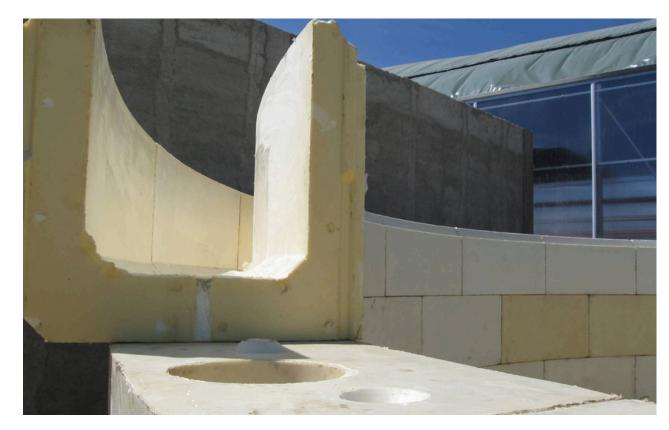
06

High Construction Costs

High-performance materials are often prohibitively expensive, limiting accessibility.

SOLUTIONS

SOLUTIONS OF THE PROBLEMS







PUR-ICF modular elements provide extreme thermal insulation with a thermal conductivity 50% lower than polystyrene, ensuring superior energy efficiency and reducing heating/cooling costs.

02 Rapid, Simple Construction

Assembly of PUR-ICF elements allows for rapid construction without heavy machinery or highly skilled labor, reducing costs and timelines significantly.

03 Unmatched Longevity and Reliability

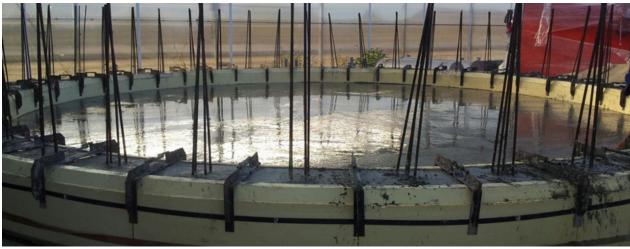
PUR-ICF elements, with a lifespan of over 150 years and negligible thermal insulation degradation (<1%), offer unmatched longevity and reliability.



SOLUTIONS

SOLUTIONS OF THE PROBLEMS







04

Built for Extreme Conditions

PUR-ICF elements are resistant to water, saltwater, parasites, acids, and withstand temperatures from -40°C to +100°C. Their reinforced concrete lattice structure ensures earthquake resistance up to a magnitude of 10.

05

Exceptional Fire Safety

PUR-ICF elements are fire-resistant, non-combustible, and emit no toxic fumes, providing superior fire protection.

06

Cost-Effective Innovation

Cost-effective PUR-ICF modular elements combine unmatched insulation, structural integrity, and ease of use at a lower price point than alternatives, delivering exceptional value.

OUR SERVICE

WHAT WE DO FOR YOU



Manufacture

We produce high-performance Modular PU-ICF elements using advanced off-site manufacturing techniques for precision, quality, and sustainability.



Installation

Our streamlined assembly process ensures fast, efficient, and durable construction with minimal waste and labor requirements.



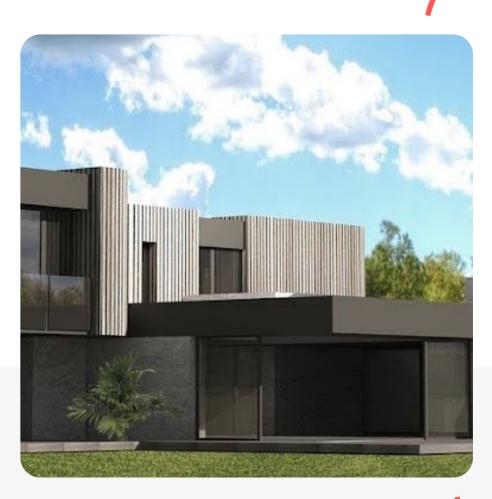
Post Installation

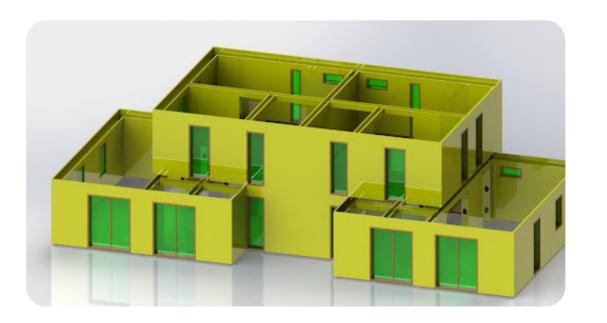
We provide comprehensive support and maintenance to ensure long-term performance, energy efficiency, and customer satisfaction.

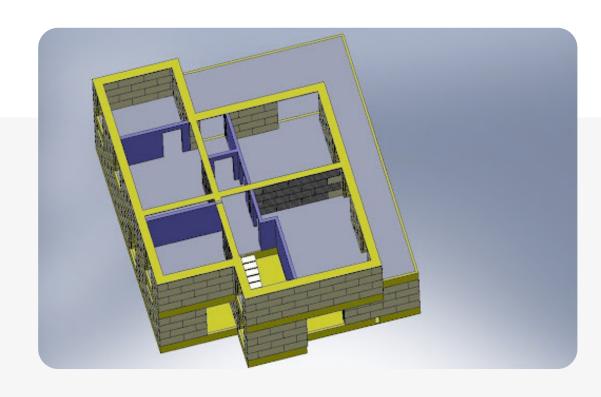
PROJECTS / CONCEPTS











THERMAL ENERGY STORAGE TANKS











MODULAR ELEMENT FOR MANUFACTURING THERMAL ENERGY STORAGE TANKS

The heat or cold storage for buildings functions exactly like a battery for photovoltaic systems. When generating energy from the sun or wind, storage becomes essential to release it when weather conditions are unfavorable for production. With heat storage, you can accumulate heat at 90 °C in a 200 m³ tank during summer, and it can still be used at 80 °C after 120 days in winter.