

Hybrid Solar Systems presents:



MARINA SOLAR TREES





THE PROBLEM

- Marinas have **limited horizontal space** for traditional solar panels
- There is a **lack of covers** in marinas
- They require a **constant energy supply**: lighting, security and charging for boats or electric vehicle
- There is a **growing need to be greener**, smarter and more user-friendly
- Need for solutions that are also **aesthetically pleasing** in luxury waterfront environments

“Imagine a striking, nature-inspired solar structure designed to seamlessly blend art and utility,”





THE SOLUTION

- **Nature-inspired solar trees:** combining renewable energy, efficiency and design
- Vertical structures optimising space by **using height, not footprint**
- Providing **off-grid, sustainable power** while enhancing the marina landscape
- Designed in collaboration with **Espen Oeino International** to reflect luxury yacht and marina architecture

“An elegant canopy capturing sunlight from multiple angles, using high-efficiency photovoltaic panels shaped to mirror leaf, branch and trunk inspired patterns.

Positioned in marinas, it's a visually captivating design, providing shelter and shade, as well as off-grid power for docked boats, lighting and nearby facilities, enhancing waterfront sustainability and aesthetics – a true representation of functional beauty.” - Matthew Pidsley



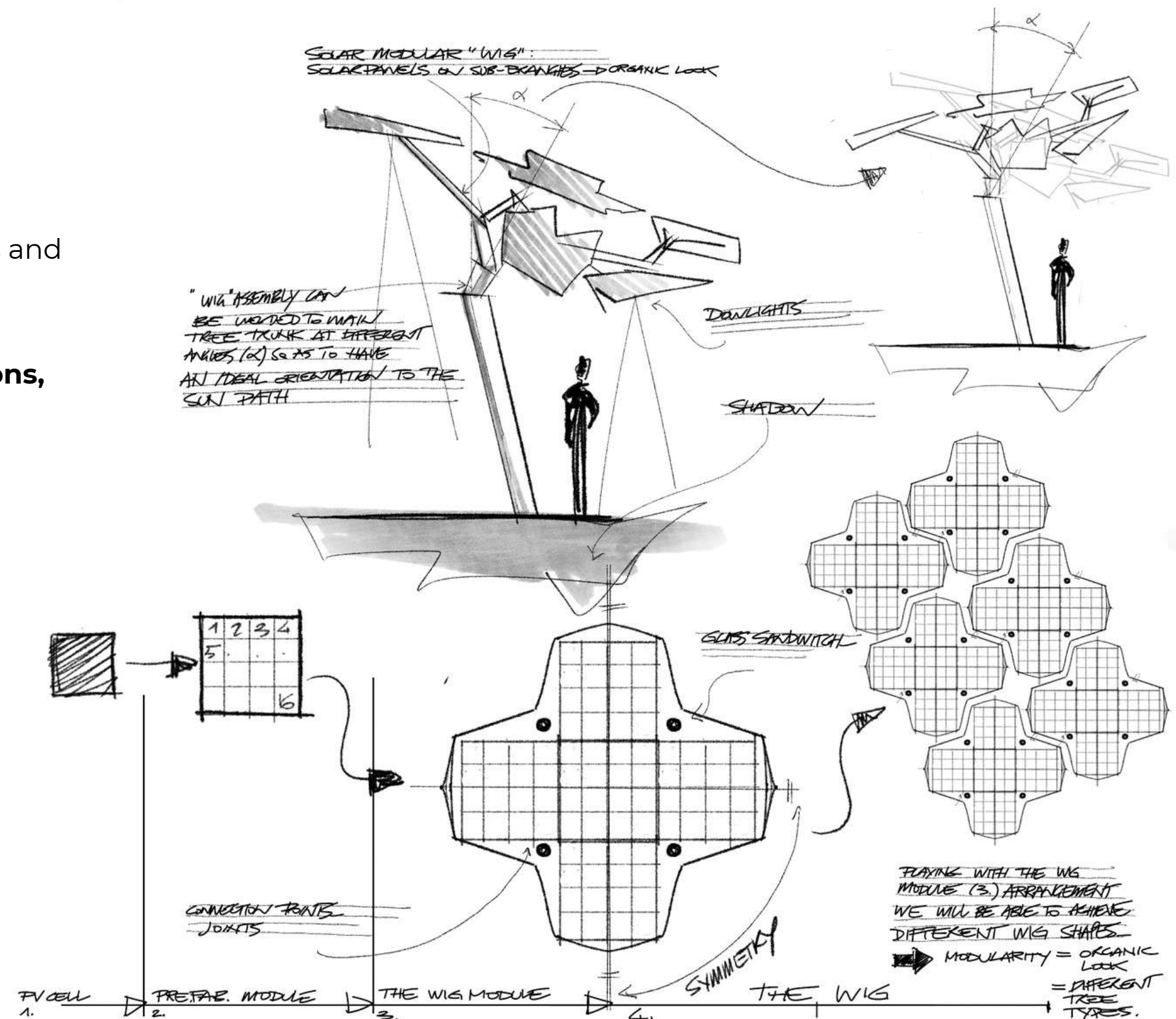


HOW IT WORKS

- **High-efficiency photovoltaic panels** shaped like leaves/branches capture sunlight from multiple angles
- **Energy storage** in integrated battery systems like benches and other nearby structures
- Power supplied directly at the point of use: **charging stations, lighting, Wi-Fi hubs and more**
- **Modular design** creates scalable “solar tree orchards” as marinas grow

“Energy harvested by the panels can be stored in integrated battery systems housed within nearby benches and adjacent structures,”

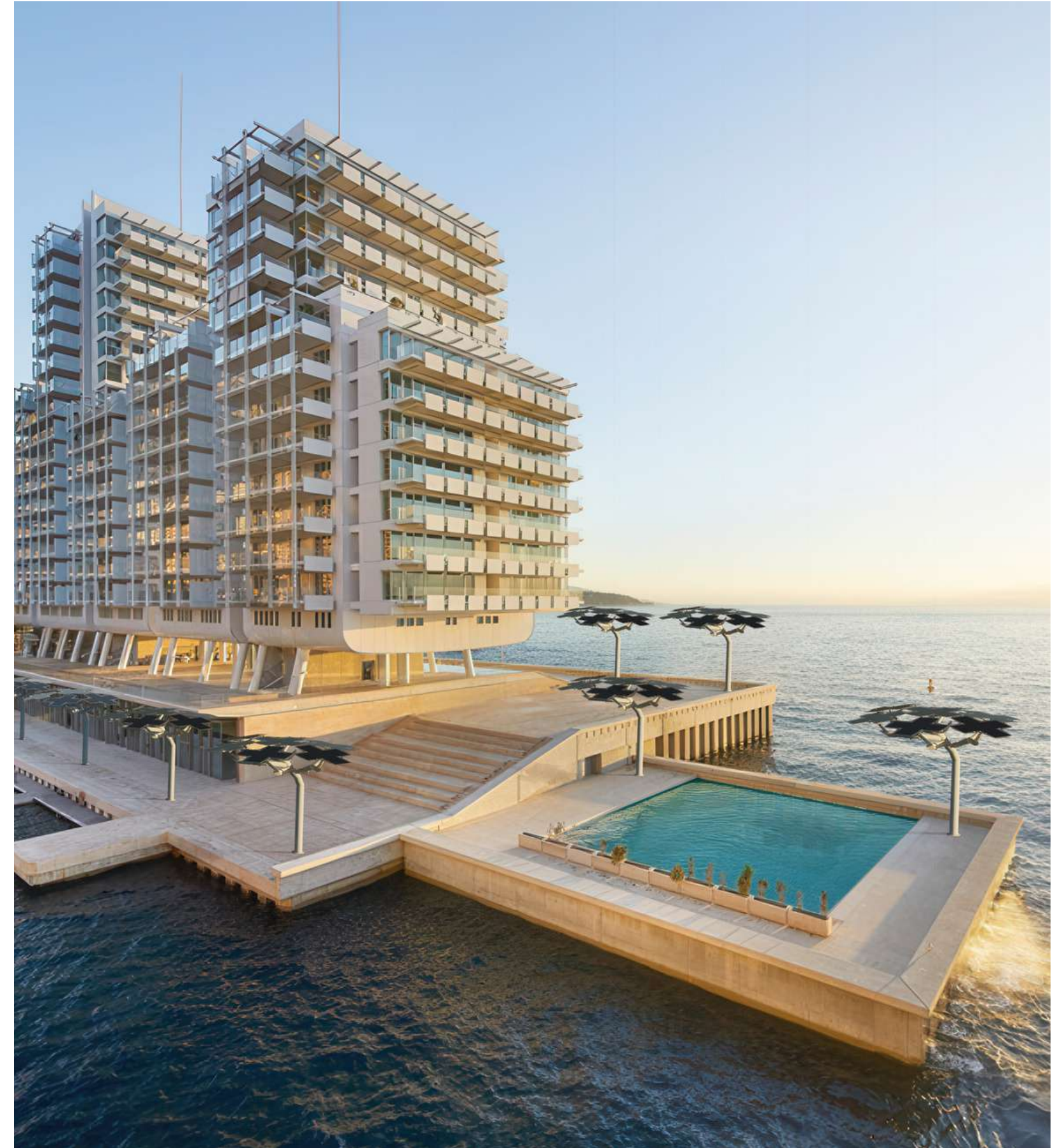
“Furthermore, they supply clean, renewable energy directly at the point of use - ideal for charging stations or smart benches without relying entirely on electrical grid access.” - Espen Oeino



KEY BENEFITS

- **Sustainability:** protecting marine ecosystems by reducing the reliance on fossil fuels
- **Space efficiency:** compact design for crowded waterfronts
- **Cost savings:** lower operational costs, resilience during outages
- **Aesthetics:** architectural landmark that complements (luxury) environments
- **Smart integration:** Supports sensors, Wi-Fi, data monitoring

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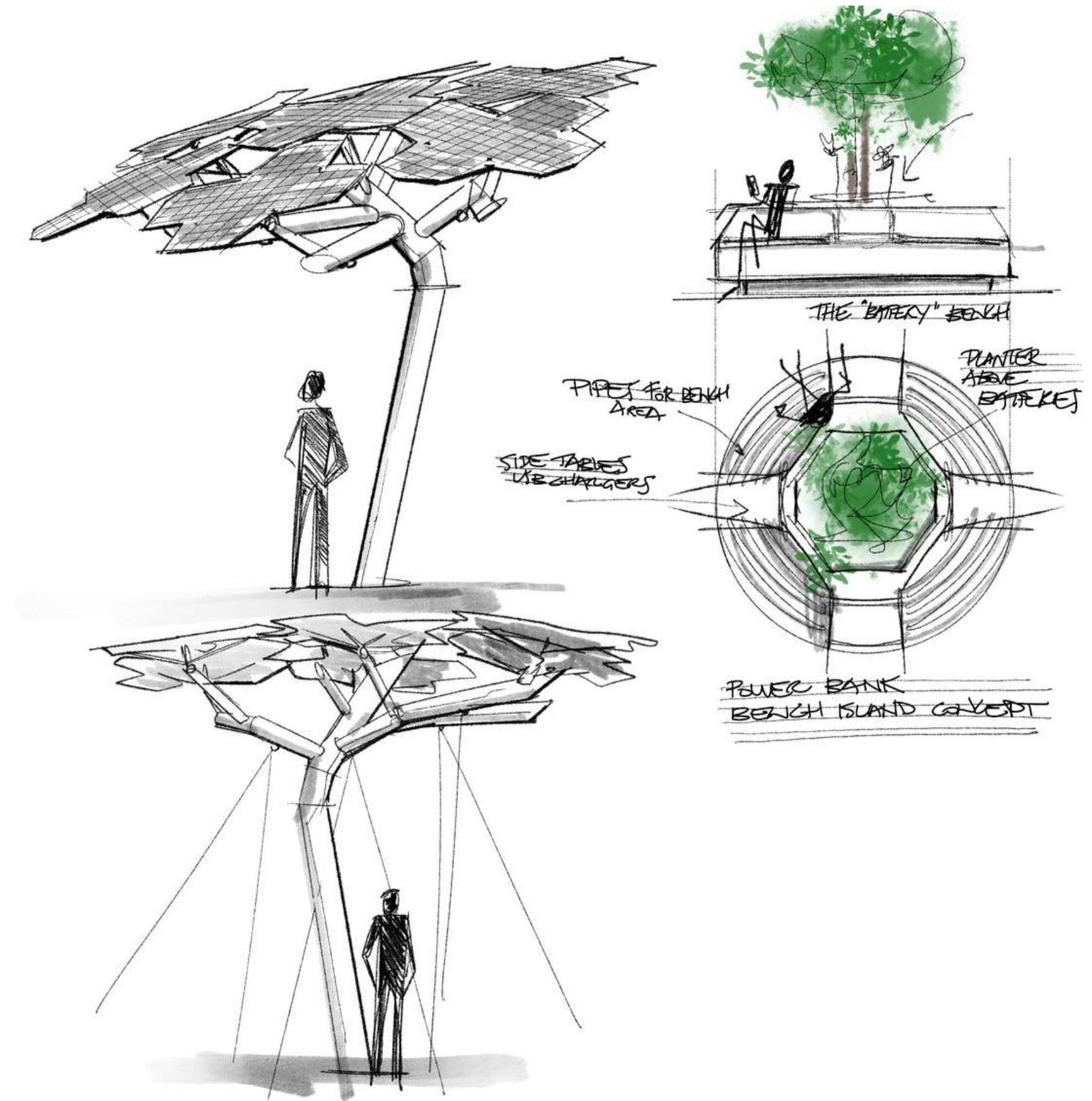


FEATURES



- Durable **marina-grade aluminium and stainless steel**.
- **Triple-laminate high-tensile glass** canopy (can include integrated lights, graphics, and other effect)
- **Shade and shelter** for waiting zones, boardwalks, charging areas
- Easy to install, expand or relocate with its **modular installation**
- Corrosion-resistant for **harsh marine environments**

“We can tell a story on the canopy, a light show, flags, mark a birthday celebration or occasion, there is so much scope to make these a really personal project, or fit uniformly in a larger area.”



PROJECT ZAKES - HYBRID SOLAR SYSTEMS - FOLLOW ON EBP

APPLICATIONS



- **Luxury marinas:** blending sustainability with premium design
- **Public waterfronts:** combining energy supply with comfort and aesthetics
- **Smart marinas:** integrate with sensors, Wi-Fi- hubs, and EV/boat charging
- **Community impact:** surplus power can feed into the local grid

“Since marinas serve luxury clientele or are part of premium waterfront developments, our solar trees needed to blend functionality with sophisticated design.”

“Øino’s adaptation emphasises a natural harmony with oceanfront surroundings, offering an elegant fusion of sustainability and luxury that enhances both private and public marine spaces,”



- **Urban Trees project** already delivered successfully with solar trees implemented on a parking lot
- Designed in collaboration with **Espen Øino International**, globally renowned superyacht designer.
- Orders already placed by **two high-profile Mediterranean marinas**.
- HSS directors: **decades of experience** in marine hardware and engineering systems for some of the world's largest yachts.
- Helps marinas **achieve certifications** like Blue Flag, Clean Marina, ISO 14001.

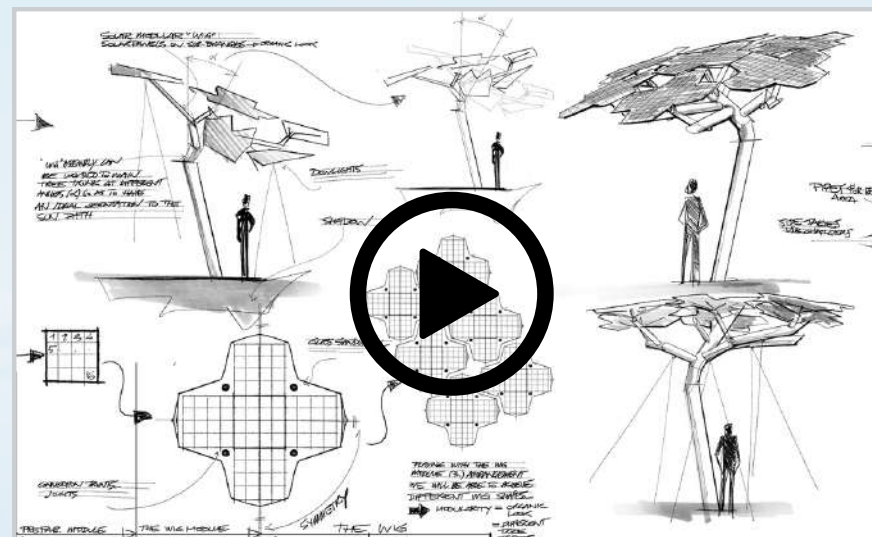
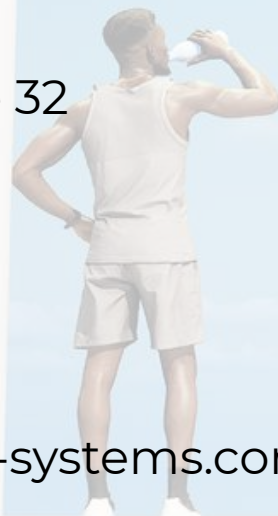
“H.S.S aims to position its solar trees as a flagship product for sustainable coastal living, contributing to the decarbonisation of marinas, beautification of urban spaces and the global movement toward climate-resilient infrastructure,”





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