



Sustainable energy solutions for tourist destinations



Hotels and resorts in transition towards decarbonization and greater energy independence

Hotels are characterized by their high energy intensity, with diverse demands such as heating, cooling, lighting, hot water, cooking, swimming pools, and transportation. This drives the adoption of more efficient and sustainable energy solutions that ensure continuity of supply, optimize consumption, and contribute to the environmental preservation of tourist destinations. The challenge is even greater on islands and in remote areas not connected to the grid, where energy relies primarily on diesel, with environmental impacts and exposure to price volatility.

In this context, several hotel chains (Marriott International, Radisson Hotel Group, Accor, among others) have already made carbon neutrality commitments, and pioneering projects incorporating green hydrogen-based solutions are beginning to emerge.

- **Iberostar Bahía de Palma (Mallorca, Spain):** cogeneration with green hydrogen, using a fuel cell that produces electricity and heat from 10 tons/year of renewable H₂, covering more than 70% of the hotel's heating and cooling needs.
- **Radisson Blu Hotel Frankfurt (Germany):** installation of a hydrogen fuel cell for cogeneration of electricity (3 GWh/year) and heat (2 GWh/year), reducing approximately 600 tons of CO₂ per year.
- **Other hotels in Japan:** in Nagasaki, with a hydrogen system (electrolyzer - fuel cell), and in Kawasaki, with hydrogen produced from waste (food and plastics).



Green hydrogen: a key option for energy security in diesel-dependent tourist destinations





Why Green Hydrogen?

- A means of storing surplus renewable electricity, ensuring stability and **energy self-sufficiency**.
- **Versatile**: meets diverse energy needs (heating, electricity, and mobility).
- **An ideal substitute for diesel**, reducing emissions and exposure to price volatility.
- **Utilizes local renewable resources** and waste, generating environmental and economic value.
- Improves image and tourist appeal: contributes to the long-term success and preservation of destinations.

Main drivers of the projects:



Water availability (rainwater collection/purification or seawater desalination)



High energy demand and multiple uses: air conditioning, lighting, hot water, cooking, swimming pools and mobility.



Renewable energy potential (solar, wind, biomass, etc.)



Opportunity to strengthen the hotel's reputation, increase tourist acceptance, and contribute to the preservation of the destination.



Dependence on diesel: an opportunity to reduce emissions, and gain in autonomy and energy stability.



Value creation: benefits to tourism and local residents.

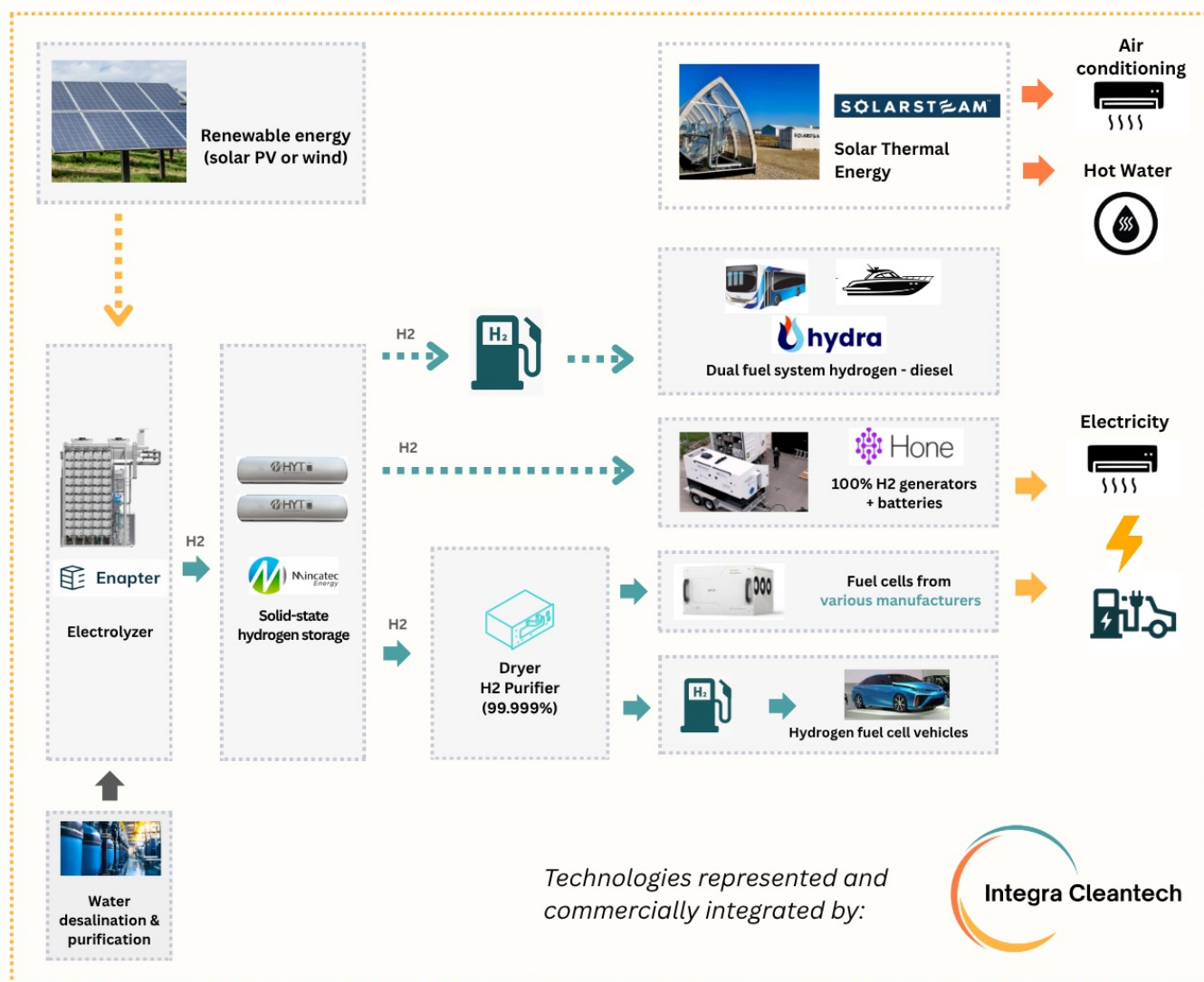


Integra Cleantech

Integra Cleantech is a **commercial integrator** of clean technologies. We integrate solutions into **complete, cost-effective systems**, resolving the supply-demand dilemma of hydrogen. Our **integrated solutions** also offer the **flexibility** to scale capacity and expand to other applications gradually.

Our model allows **manufacturers to bill the end customer directly**, reducing CAPEX and friction compared to traditional EPC schemes.

Integrated hydrogen systems, combined with renewable energy, to reliably meet heat, electricity and mobility needs in hotels and resorts





100 years of accumulated experience in clean energy, telecommunications and systems, and business development.

Sustainable and integrated energy solutions for data centers, logistics and distribution operations, ports and airports, islands and remote locations, mobile site projects, and industrial decarbonization.

Based in Vancouver with extended team in LATAM

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