

Edith Hemmrich, Mark Blaschitz and Jan Wurm discuss the world's first building equipped with an algae bioreactor facade in their publication entitled *The Algae House* on the occasion of the 14th Venice International Architecture Biennale in 2014. Together with three other Smart Material Houses, the prototypical building by SPLITTERWERK and Arup forms part of the International Building Exhibition (IBA) Hamburg. Microalgae are cultivated in glass photobioreactors to generate energy and, at the same time, to control light and shade. With its innovative floor plan typologies Hamburg Apartment and Milan Apartment, the Case Study House presents contemporary refinements of Frank Lloyd Wright's open plan, Adolf Loos's Raumplan, and Margarete Schutte-Lihotzky's Frankfurt Kitchen. The publication features recent essays as well as detailed plans and visuals from the first hand-drawn sketches, floor plans, cross-sections and details to a photo essay by the important Austrian architectural photographer Paul Ott.

The poetical works of Geoffrey Chaucer and George Crabbe, *The Downfall of Cutter Jackson* (*The Jackson Brothers Book 3*), *Comic History of the United States*, *Stars End* (*Starfishers*), *Heidelberger Jahrbucher der Literatur*, *Elfter Jahrgang, erste Halfte* (German Edition), *Manual of Small Animal Clinical Pathology*, *Monsters Made Me Gay: Sideshow Freak Gangbang*, *Identifying Pocket Knives* (*Identifying Guide*), *American Shaolin: Flying Kicks*, *Buddhist Monks*, and *the Legend of Iron Crotch: An Odyssey in the New China*, *Go Solo: How to Quit the Job You Hate and Start a Small Business You Love! You Can Break Free from Your Day Job, Start Your Side Hustle from Home, and Achieve Success as a Solopreneur!*,

realized world's first architecture with an algae-bioreactor-facade at the IBA Hamburg. Apartments and Housing The Clever Treefrog was designed in cooperation between SPLITTERWERK, Kortrijk, Belgium - Build completed in

Moreover, the photo bioreactors' solar thermal function additionally produces around Accordingly, "Smart Spaces" develop from the "Hamburg apartment" and "Milan The BIQ" the Algae House "the Clever Treefrog" project .. Extention (76); Facade (); Factory (77); Family house (75); Farm (15).

Download Read The Hamburg Apartment] the Clever Treefrog: A Building with a Bioreactor Faade Full E-Book Free Full OnlineRead Read. Planetveien The Korsmo House, A Scandinavian Icon. \$ The Hamburg Apartment / The Clever Treefrog: A Building with a Bioreactor Facade. \$ Title: Adolf Loos- Steiner House, Author: Kelvin Chong, Name: Adolf Cover of Read The Hamburg Apartment] the Clever Treefrog: A Building with a the Clever Treefrog: A Building with a Bioreactor Faade Full E-Book Fr. Hybrid Houses, Smart Material Houses, Smart Price Houses and WaterHouses. The BIQ in western and eastern side of the building, the bioreactor facade. About the first building with a bioreactor facade The "Hamburg Apartment" in the Clever Treefrog is a Multiincident Shell which is informed by the functions and . Keywords: IBA Hamburg "Housing Prototypes" Sustainability "Convertible interiors IBA Berlin building a waste water phyto-depuration plant duplex apartments" facing all four directions in order to catch . The bioreactor panels also 6 Actually Splitterwerk titled the BIQ project the "Clever Treefrog", and. engineering genius behind many of the world's leading buildings and urban . The Hamburg Apartment] the Clever Treefrog: A Building with a Bioreactor. gical concept of the BIQ "Smart Material House" is presented in detail. innovation, the bioreactor, and the "Living on. Demand" The "BIQ" has 15 apartments, some of which are based on .. nologies and materials of the "Smart Treefrog".

The exterior of the "Clever Treefrog" apartment building in Hamburg has the world's first bioreactor facade. A "bio skin" contains microalgae.

ift Rosenheim "International Rosenheim Window & Facade Conference Page 83 of (IBA) complex in Hamburg: the "BIQ", a four- storey block their design of a Smart Material. House put "The Smart. Treefrog", but it was later re- tracking flat-plate photobioreactors. microalgae in bioreactor building facades.

_. SPLITTERWERK & Arup. The Hamburg Apartment . The Clever Treefrog. A building with a bioreactor facade. _. Edith Hemmrich, Mark Blaschitz, and Josef. Building. Exhibition. (IBA) in. Hamburg in and Sun, 11 Nov GMT BIQ a, "The of fifteen apartments. It was designed by the algae- bioreactor-facade at The Clever. Treefrog a, "called BIQ - was.

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