



Are you ready?

Welcome to the **ZEDlife!**

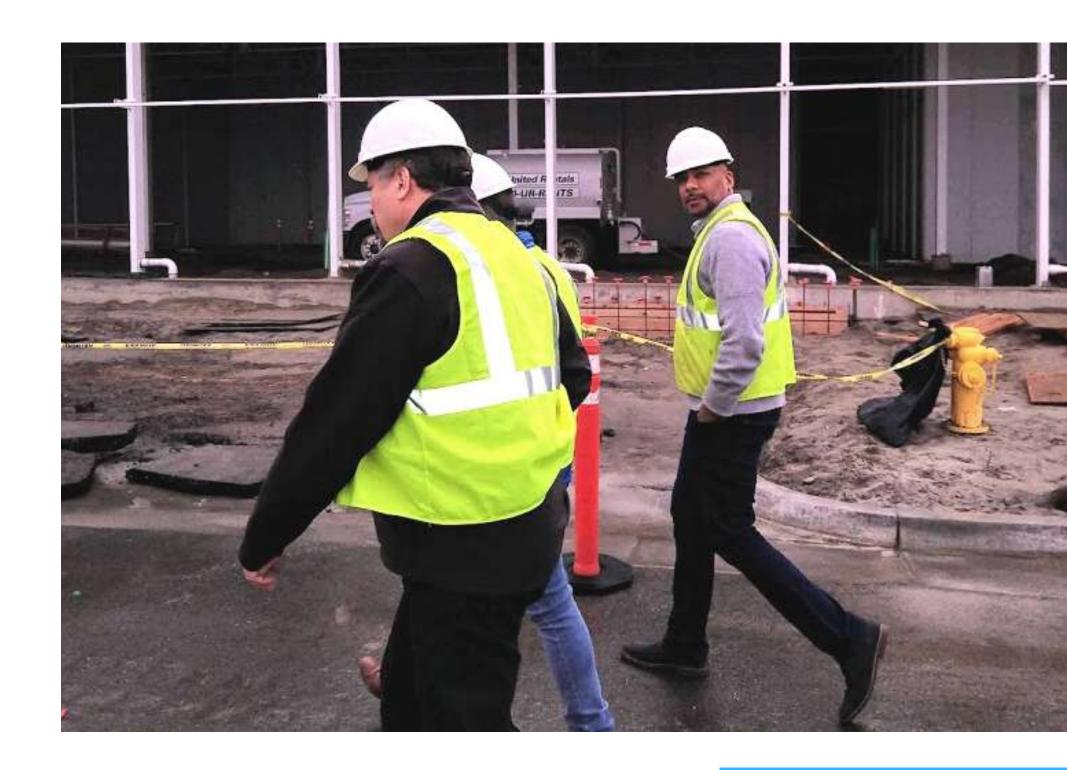


HELLO...

C4GS-ZEDlife is a young, US-based, minority-owned and operated company formed by **Communities for Global Sustainability**, a "melanated" group of visionary builders, innovators and investors in green technology and **ZedPower** an internationally recognized expert in the field of sustainable housing.

Our clean energy homes and builds feature the innovative "PowerClad System™" a building integrated photovoltaic solar panel roofing and cladding system that creates a weatherproof alternative to a traditional roof.

Our objective is to help create a ZERO carbon/ZERO waste lifestyle and infrastructure by delivering beautiful Zero Energy Developments (ZED), single and multi family homes, and creating successful carbon-positive, energy generating communities with zero energy bills.







Let's get you green

The How!

ZEDpower

Using solar Power to generate free electricity and help move away from dependence on fossil fuels





POWERCLAD SYSTEM

The PowerClad System™ is a BIPV array of glass on glass PV solar panels fitted on an interlocking weatherproof framework to provide a secure and effective windscreen cladding system that can be fitted on both inclined (roof) and vertical (facade) surfaces, generating electricity from both. The PowerClad System™ replaces the traditional tiled roof.

The system is unique in its design, longevity and effectiveness combining elements of patent glazing and curtain walling systems, mounted on a metal frame designed precise and fits into a weatherproof system to form the roof and cladding.









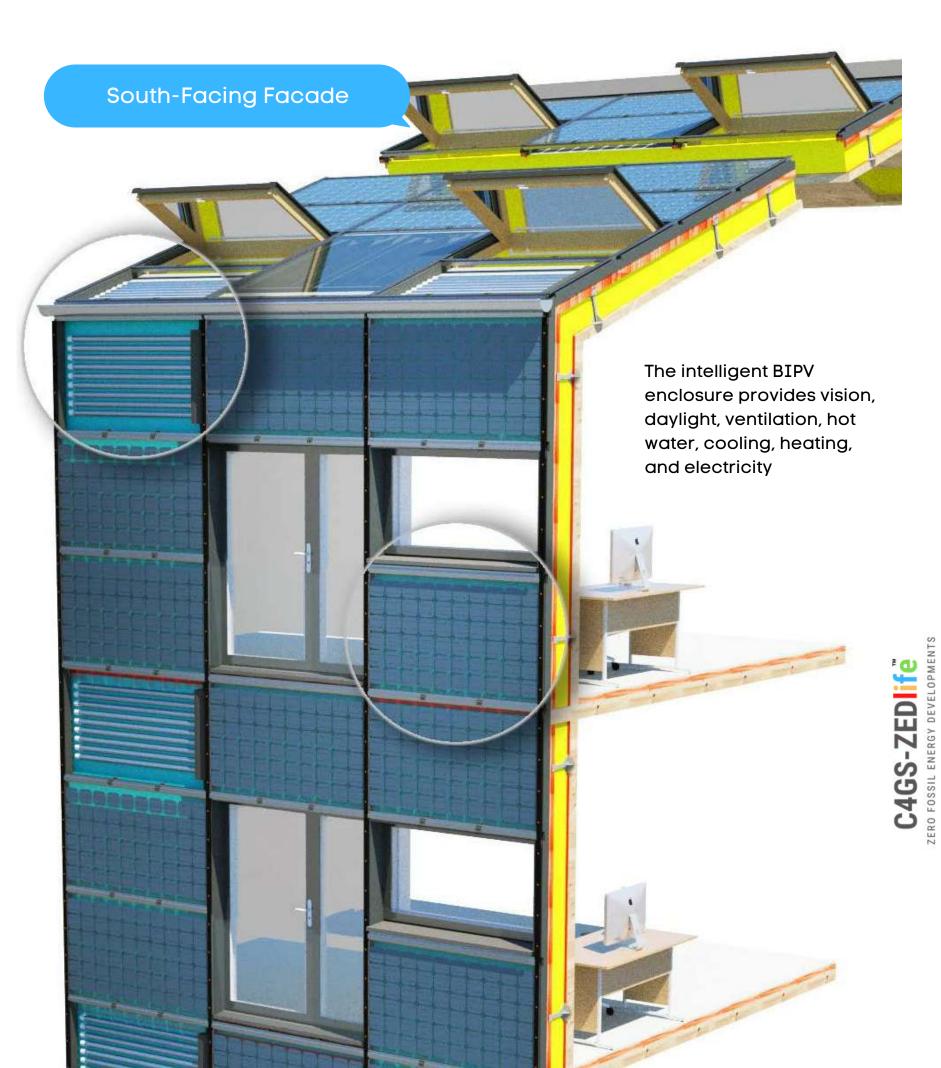
BIPV AND ROOF FACADE

BUILDING INTEGRATED PHOTOVOLTAIC

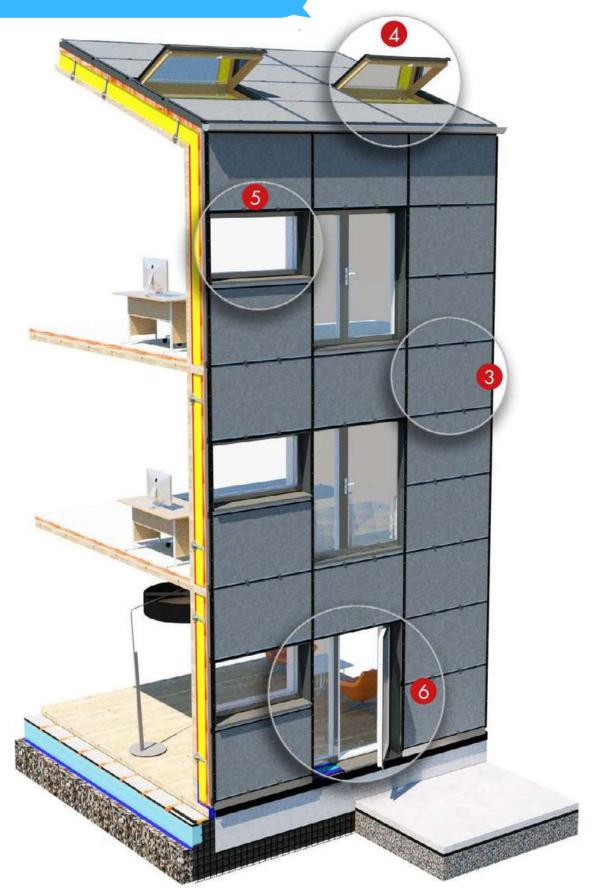
Insulation materials – non-flammable mineral wool - can be installed between the inner building surface and the external solar panels to improve building thermal performance.

The opaque materials in the wall buildup would preclude the possibility of allowing light to enter the building, whereas the panels have transparent spaces in between the cells that would allow sunlight to penetrate the building (with about 7.5% daylight transmission) if desired.

The solar electric panels can be mixed with clear glass panels to increase light penetration to the level required for such features as canopies, conservatories, passages or stairways.



North-Facing Facade



Interchangeable components







Matching rooflight — tripled glazed to provide ventilation to heated thermal envelope



2

Evacuated tube solar thermal collector filled with refrigerant for solar cool solar assisted heat pump system



5

Triple-glazed low-e window



3

Cement Cladding All other cladding options available



6)

Triple-glazed door



SOLAR CHARGED

EXCHANGEABLE BATTERY SYSTEM

2kWh Solar exchangeable battery storage in each prefabricated room package with 12 to 24 volt micro-grid plug in sockets connected directly to BIPV cladding and roof panels.

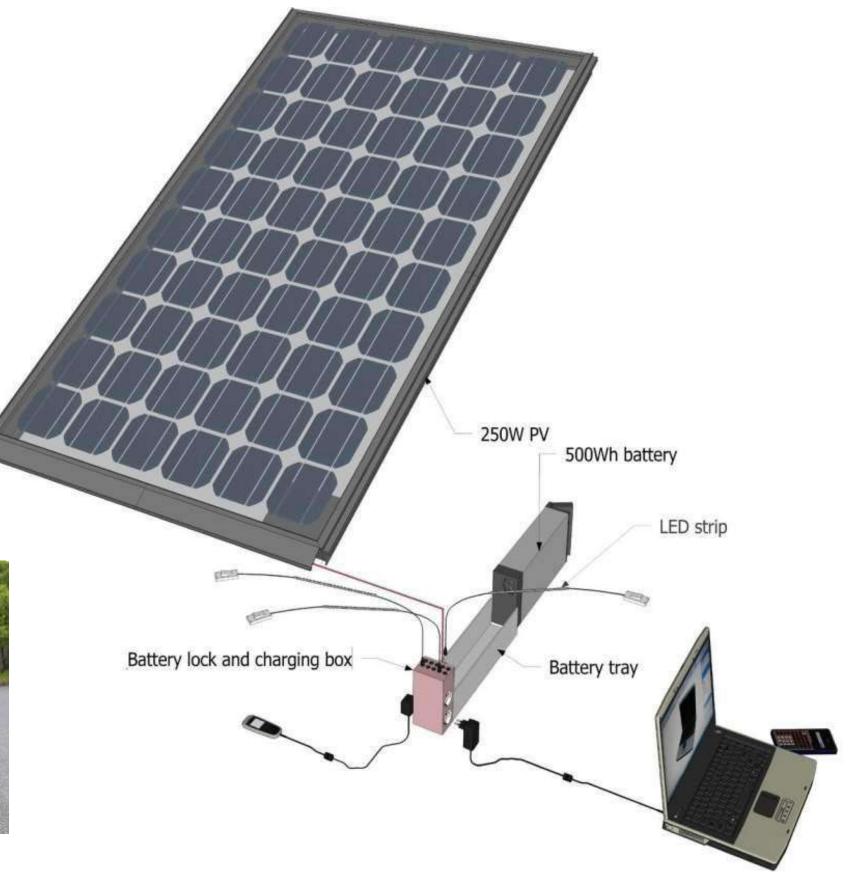




ALWAYS CONNECTED

One standard solar panel producing a maximum of 250W can easily charge one of these batteries in one day in most climates, however if it doesn't the battery can automatically be topped up from the mains using night time off peak electricity in the early hours.





ZERO ENERGY BILLS!

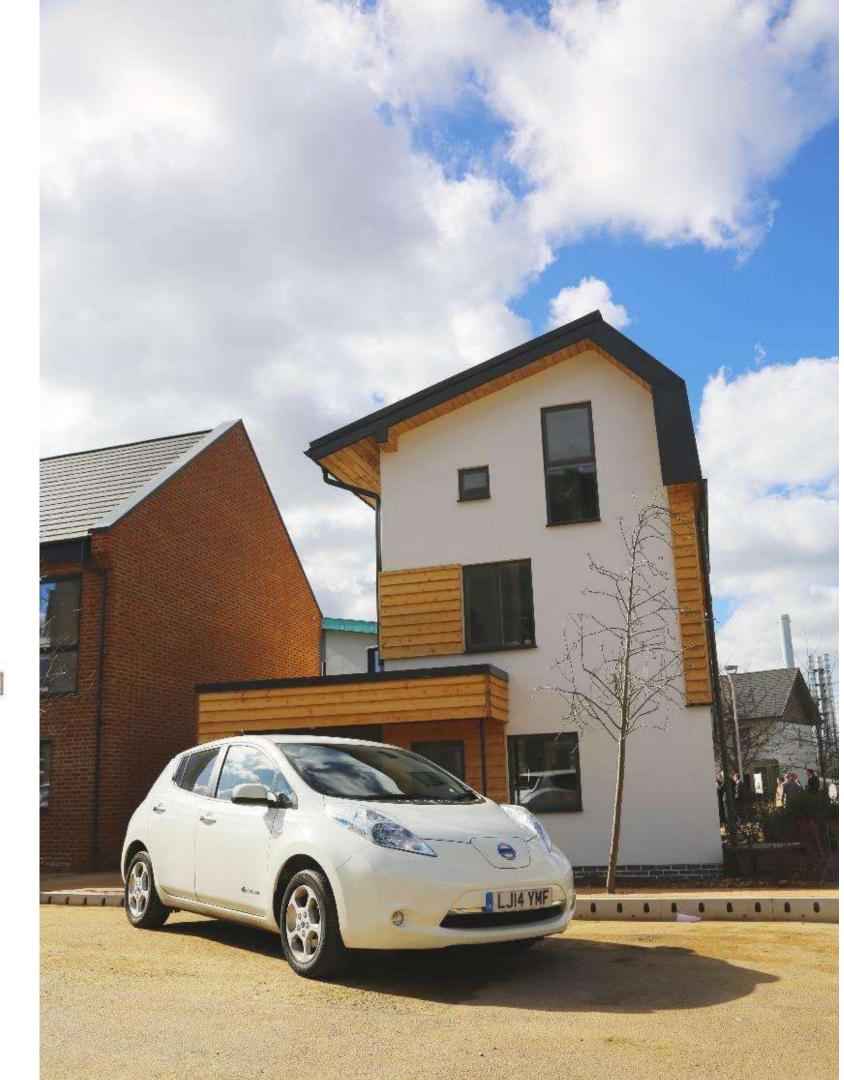
The PV roof panels generate free electricity which, when combined with storing the electricity in the batteries, leads to incomes and savings exceeding the residual cost of electricity -- a Zero energy home.















Our Zero-Carbon Solutions from A to ZED... literally

The What!



ZEDFRAME HOME

MAKING SELF-POWERED A TRADITION

The Zed A-Frame system combines an energy efficient modular frame structure with an integrated solar PV panel roof and built from traditional materials in a sustainable construction system.









ZEDLIFE HOME

INNOVATIVE & AFFORDABLE HOMES

The ZEDlife Home is designed to be modern and contemporary, built from traditional materials in a sustainable construction system. The system combines an energy efficient modular frame structure with an integrated solar PV panel roof.











HIGH SPECIFICATION CONSTRUCTION

Our homes and apartments showcase high specifications and attention to detail. Interiors include wood flooring or carpeting, generous bay windows and timber door frames. Individually designed kitchens with premium appliances, and a selected range of finishes allow you to personalize your home.





LIVSHARE HOME

STUDENT/WORKFORCE HOUSING - HOTEL

Designed to create efficient study bedrooms with ensuite bathrooms and larger communal living spaces with sheltered roof terraces and conservatories. Capable of creating permanent streets ranging from one to three stories, it achieves excellent densities — achieving up to 260 bedspaces if required.





LIVSHARE OPEN PLAN SPACES FOR MEETING & GATHERING

LIVshare apartments have private bedrooms with shared kitchen and living room to offer the perfect balance of elegance, style and comfort. Light and space are maximised with generous ceiling heights and interior layouts.









PRIVATE BEDROOMS WITH EN-SUITE

Private bedrooms create a haven of peace. Many have ensuite bathrooms and dressing rooms, and feature carpeting and bespoke fitted wardrobe closets with ample storage spaces.



ZEDZEN HOMETM

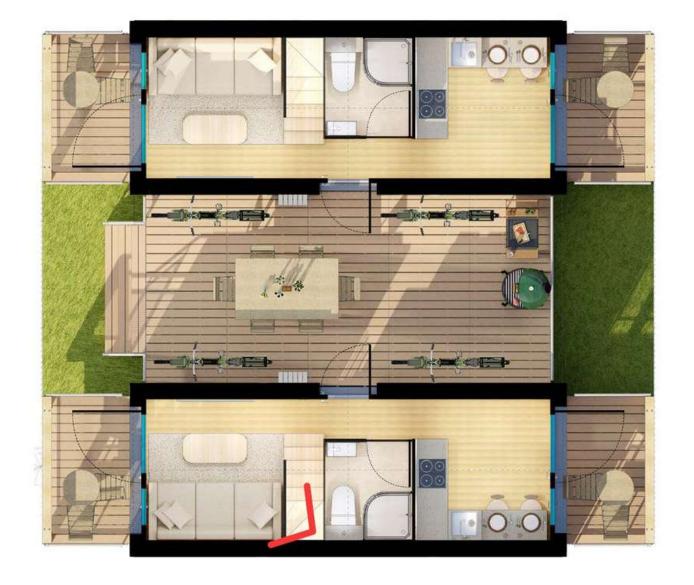
ADDITIONAL DWELLING UNIT - TINY HOME

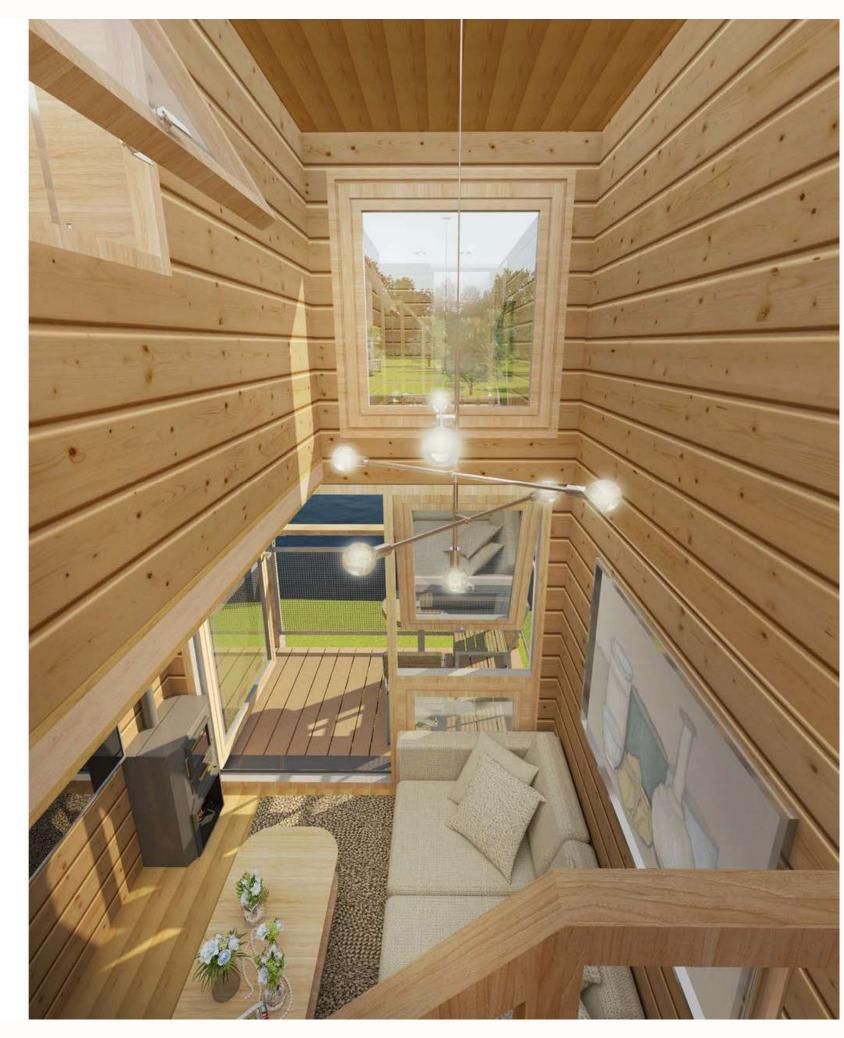
Small homes have made their comeback - You may recall the 'Sears, Roebuck Catalog of Houses, 1926: Small Houses of the Twenties.' Now imagine an entire community you can build with ZERO ENERGY Bills. A ZEDzen Home takes you from A to Zed in building a green home or community.

















ZEDLODGETM

STORIED & PAIRED LODGES

Designed to sit in pairs with shared outside sheltered landings. The cladding is either stained timber weatherboarding or non combustible cementitious shiplap board. Each unit can be towed to deployment sites by any semi-heavy truck.

All homes are built to similar ZED-specifications-however the construction method changes to suit on site or off-site manufacture.

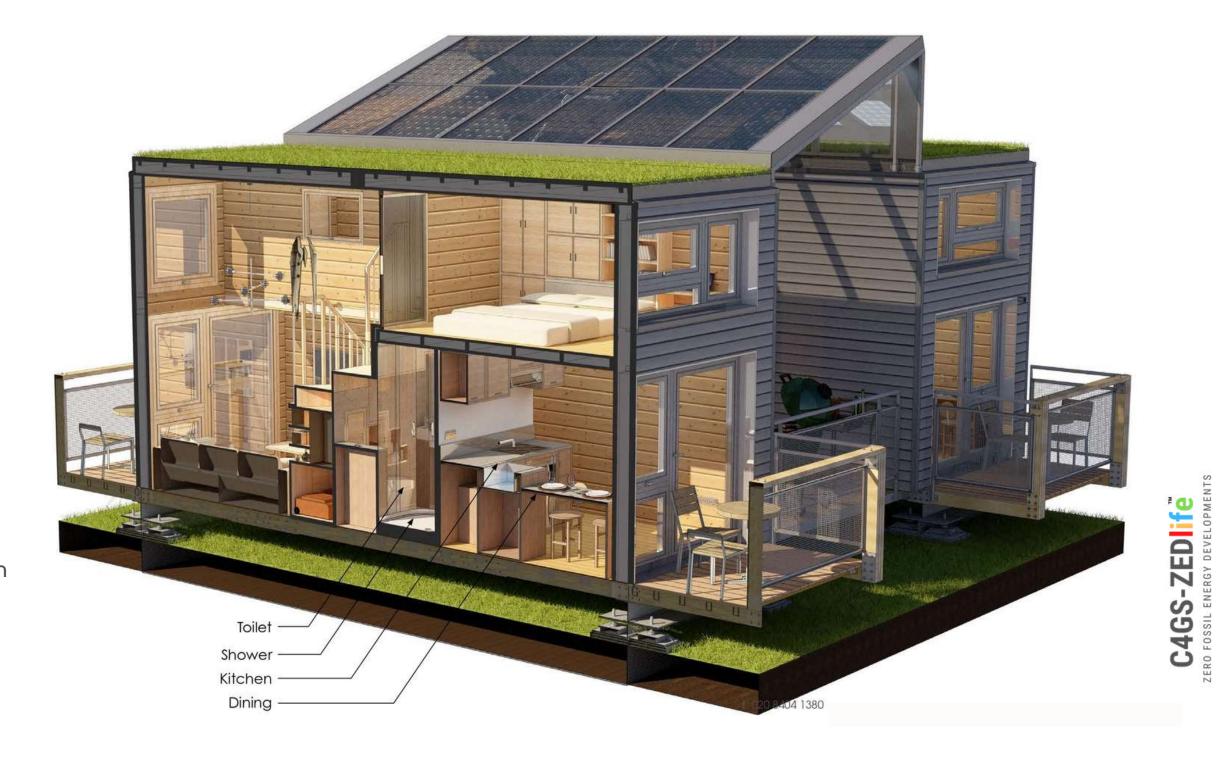




OFF-GRID WITH POWER TO SPARE

More than a mere "tiny-home", a stressed skin plywood construction system of high quality, high tech prefabrication using the latest CNC cutting technology are cut in a week to great precision by uploading a digital data file from our design team.

Solar panels placed vertically generate more electricity, combined with LIPO4 battery storage allow for grid capability when needed.





KITCHEN WITH BUILT-IN CABINETS

The kit of parts have estimated costs of around \$90K plus the assembling of a two bedroom home by a certified C4GS-ZEDlife Contractor and comes precut with shelving, cabinets and space for energy efficient appliances.

This is a high specification and robust local affordable housing solution that can be delivered by local skills and materials.





We leave teeny tiny footprints

The Where!







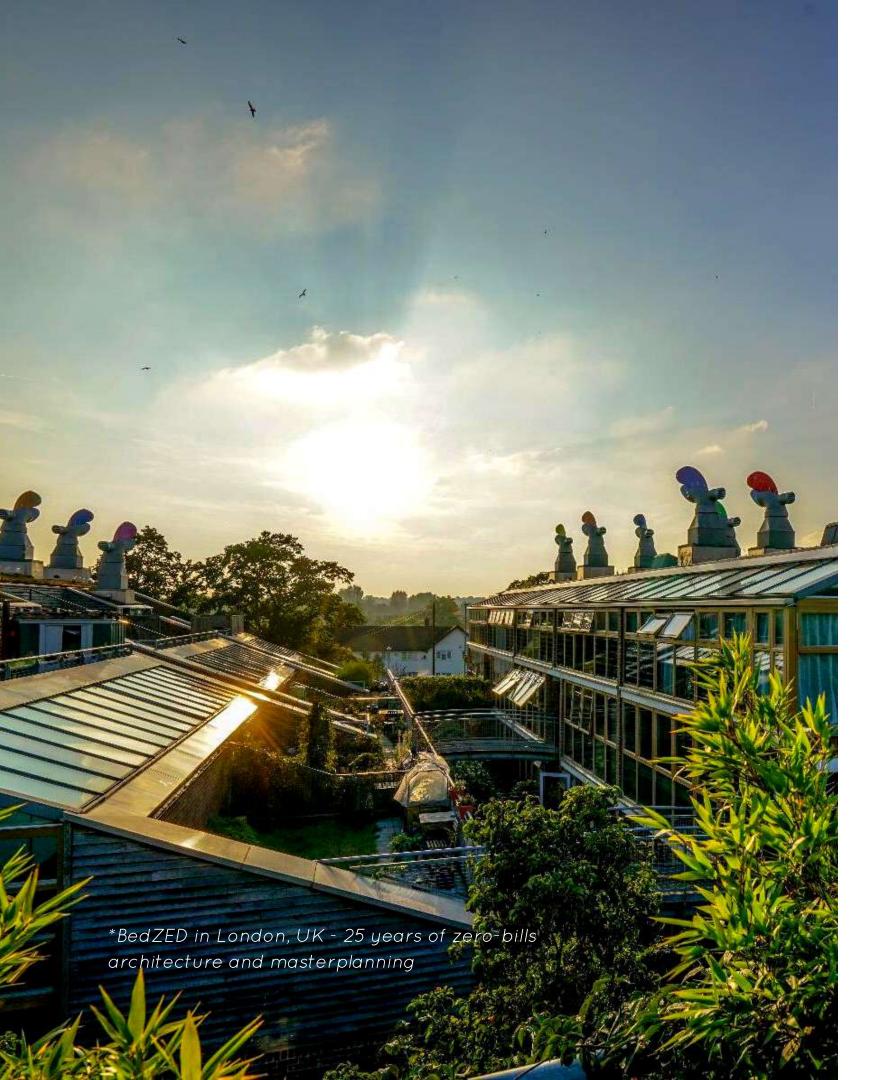
ON SITE POP-UP MINI-FACTORY

On-Site Pop up Mini-Factories can be set up at most construction sites to maximize efficiency and can be located in spaces roughly the size of a large barn or garage. Perfect for local workforce use.



Establishing a zero-carbon lifestyle

The Why!



WHY C4GS-ZEDLIFE?

"ENERGY BILLS ARE SO LAST CENTURY"

Our goal is to produce buildings and infrastructures that do not contribute to accelerating climate change over the buildings expected lifespan.

We maximise energy efficiency, integrate renewable energy and durability, minimise embodied carbon and keep energy demand to a minimum. With this simple target we can evaluate any building by one important measure, i.e. the number of years required for a small surplus of building-integrated renewable energy to repay the carbon debt incurred during construction and maintenance.

We currently have the highest environmental performance standard in the world based on 25 years of overcoming industry resistance to eco-innovation.





CARBON POSITIVE GREEN LIVING

The technologies are simple and well proven. The majority of these construction components are manufactured locally in the United States, with only some specialist Mechanical and electrical kits that may need to be imported.

The countries that set the highest environmental standards gain economies of scale fastest and win the markets of the future. It is highly appropriate for emerging green communities to demonstrate this thought leadership and make the every step essential towards carbon-positive.





Establishing a zero-carbon lifestyle

Learn More!

ZEDLIFE

BY BILL DUNSTER, OBE

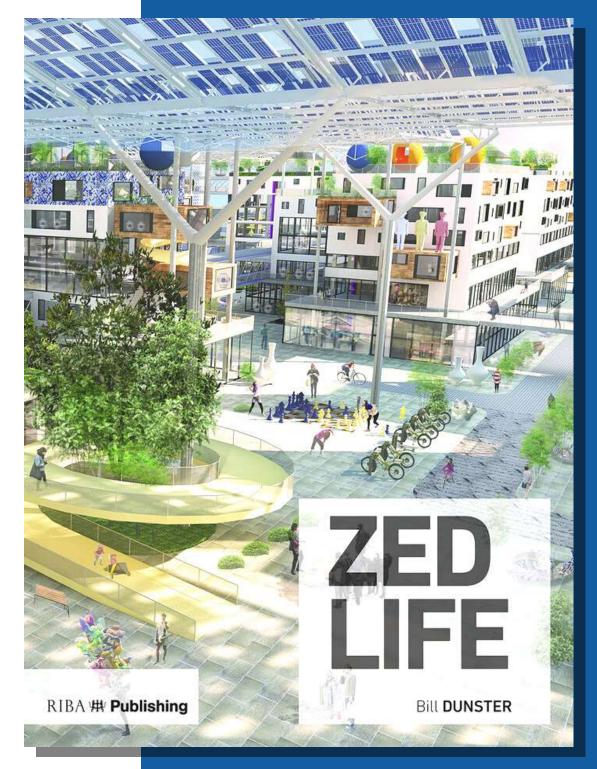
In his seminal new book, Bill Dunster, demonstrates that a zero-carbon. zero-waste design doesn't have to come with a hefty price tag, and is achievable today.

This book shows how to design a lifestyle, as well as the infrastructure that supports it, and demonstrates in a practical, positive way this clean, green future is within reach, and worth working towards. Through case studies of projects across the globe, ZEDlife presents a range of tools that form possible key ingredients in a low carbon society.

The argument for low cost, zero-energy, zero-waste architecture has never been timelier and yet there is a common perception that sustainable design elements must be sacrificed in order to keep costs down. ZEDlife offers a robust challenge to this by illustrating how it is possible to work towards a zero carbon/zero-waste model even under these parameters.



Order from **ribabookshops.com**







OUR PARTNERS

















LETS GO GREEN!

...TOGETHER



CONTACT

www.c4gs.org hello@c4gs.org @c4gsteam

PHONE NUMBER

(858) 302-7318



THANK YOU!

LET'S START YOUR ZERO CARBON JOURNEY

C4GS-ZEDlife

ZERO FOSSIL ENERGY DEVELOPMENTS