

WElink/CNBM's Innovative Solution

Addressing The UK's Affordable Housing Needs

July 2016





Section I Who we are



BHS Partner Profiles

WE LINK ENERGY

- Multinational firm founded in 2007, specialising in renewable energy and affordable housing
- 70+ team with significant industry experience and track record
- Well-established global strategic relationship with CNBM for renewable energy and affordable homes

CNBM

- Leading Chinese SOE, listed on HK SE with assets in excess of \$55 billion
- World's largest provider of building materials and a Fortune 500 Company
- Extensive track record and experience in building materials, construction & infrastructure projects worldwide

Cesar Martinell & Associates

- 100-year-old leading European architectural firm
- Notable projects include the Guggenheim, Olympic Village (Barcelona)
- Extensive experience in large complex building projects





Cooperation agreement for BHS project 3



Our Construction & Building Materials Partner



- China National Building Materials ("CNBM") is the largest construction materials group in the world – no. 1 in glass, cement and gypsum manufacture, and a leader in steel wood and composites
- CNBM is a Fortune 500 Chinese state owned company is listed on the Hong Kong Stock Exchange with total assets in excess of US \$55 billion
- CTIEC—its engineering platform—is positioned as a leading international science, technology and engineering group with a strategy to follow emerging technologies and markets
- As such CNBM / CTIEC strive to secure long-term strategic partnerships with major global companies:















In recent years, with CNBM's strategic focus on three **rapidly developing industries** (new building materials, new housing and new energy materials), CTIEC has **aggressively entered the "Affordable Housing" market**:

- Rapidly increasing it's engineering & construction capability
- Strong balance sheet and financial backing to offer project based financial solutions
- Investing in technology for clean energy and energy efficiency







Our Construction & Building Materials Partner



CNBM's Credentials:

• CNBM has participated in billions of dollars of construction & infrastructure projects across the globe – including Asia, Europe, and the Americas

- CNBM, BHS, WElink Energy, and British Solar Renewables: £1.1bn UK Framework Agreement
 - In October 2015 BHS / WElink signed a master EPC framework contract with CNBM and BSR for the build-out of 300+ MW of UK PV projects' pipeline and up to 4,000 affordable homes in the UK
- The terms of the agreement provide a turnkey solution to the projects and include the provision of construction finance



Combining our unique approach to this global opportunity with a partner of the strength and experience of CNBM is one of our outstanding advantages to create a significant footprint in the affordable housing market going forward



Section II A UK Housing Solution



BHS: Addressing the UK Government Affordable Housing Challenge

GOVERNMENT REQUIREMENTS

- Initial target of 400,000 new homes not capable of being met by traditional industry (could be even larger opportunity given land availability)
- Policy to move to zero-carbon houses by 2019/2020
- Need to provide quality and appropriate standard of accommodation for UK
- Need to reduce energy dependence and mitigate grid requirements
- Need to create jobs from the housing and construction sector
- Need to provide certainty of delivering number of dwellings, affordability, quality targets

BHS SOLUTION



- We have a near-zero carbon new home solution that is ready now
- We have factory-made precision-engineered finished home product ready to assemble on site that will meet all building regulations
- Our homes are 75% off-grid moving to 90-95% incorporating storage technology
- 200 local jobs created (unskilled and skilled) per factory and more during assembly.
- We bring the world's leading building material company CNBM with their industrial and financial strength

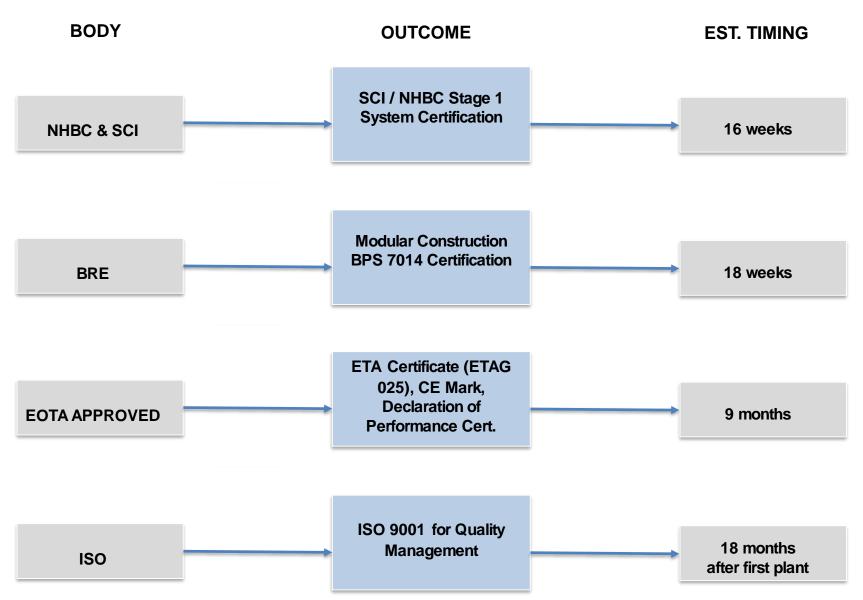


Immediate Build Role-Out Plan

☐ GOVERNMENT TO IDENTIFY TOP 5 PRIORITY SITES WITH A VIEW TO **BUILDING 200-400 UNITS IN EACH, FOLLOWED BY A FURTHER 1000** -2000 UNITS PER AREA ☐ INITIAL BUILD TARGET OF 40,000 UNITS WITH ENERGY INTEGRATION ☐ CNBM/WELINK TO CREATE FACTORY SITES IMMEDIATELY, THEREBY CREATING LOCAL JOBS AND ADDRESSING SIGNIFICANT HOUSING **NEEDS** ☐ STRATEGY FOR ACCELERATED FULLY FUNDED ROLL-OUT APPROVED AT CNBM BOARD LEVEL



Regulatory Certification Timetable





What We Can Deliver

ш	Fully funded construction of affordable housing with energy-efficient solution
	Deliver eco-friendly high quality, multi-family modular homes at an affordable price
	A rapid speed-to-market product
	Industrial approach to scale and flexibility
	Latest renewable technology incorporating storage (reference enclosed Case Study)
	Financial strength to ensure deliverability and burden on Government is minimal
	Provision of consumer/mortgage finance though leading global bank
	 Substantial economic benefits to local and regional communities Job creation in excess of 200 per plant Household cost savings due to efficient energy solution
	Leading expertise in the sector from around the world, from design to lock-up
	A partnership approach where the government retains ownership of the land and addresses its affordable housing objectives



Section III

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Overview of our BHS Solution



Our Comprehensive Solution

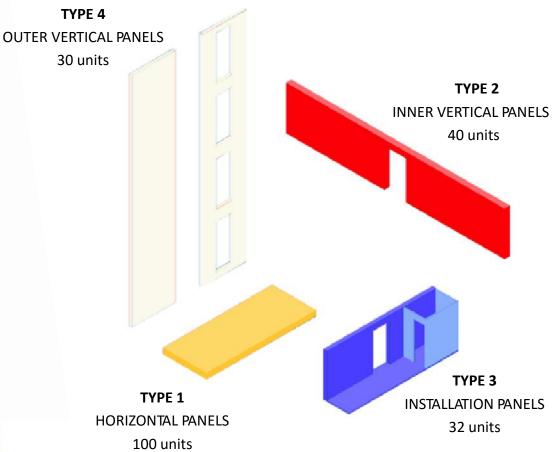




BHS: Modular Approach



The Lego Concept





BHS: State-of-the-Art Factory







BHS: On-Site Construction



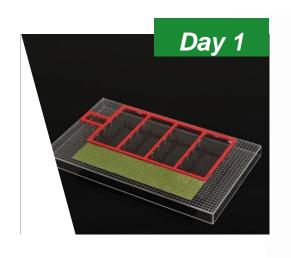


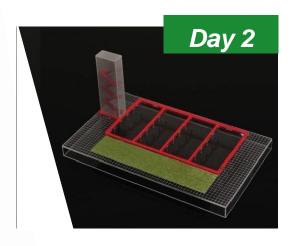


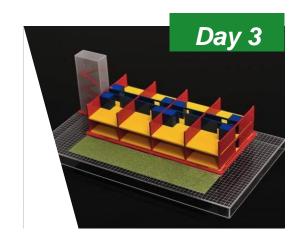


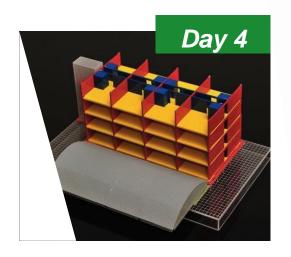


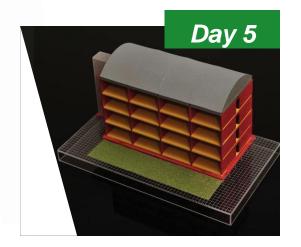
BHS: On-Site Assembly Schedule















Our "Greentown" Solution

WE ARE BUILDING THE NEW COMMUNITIES OF THE FUTURE





Benefits of Our "Greentown" Solution



- ECONOMICAL
- ECO-FRIENDLY
- MODULAR & SCALABLE
- FAST COMPLETION
- OFF GRID

- LARGE SCALE
- HIGH QUALITY
- SOCIAL DEVELOPMENT
- LOCAL NON-SKILLED EMPLOYMENT
- PROVIDE SAFETY



Within the unit high quality feel







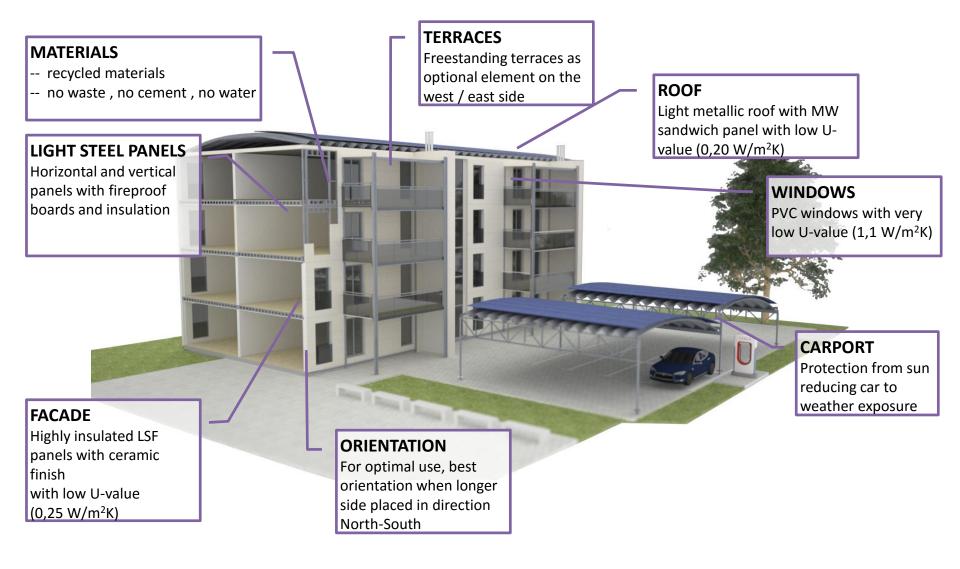




Very modern exterior to units



BHS Building Performance Passive Design Solutions



BHS Building Performance Active Technologies



mobile chargers, illumination, etc.

bills

Addressing the Energy Crisis and Fuel Poverty Near-Zero Building Case Study

Comparing BHS and standard apartment consumptions:

Average UK apartment (70 sq m):

Electrical consumption per apartment with electrical heating: $105 \text{ kWh} / \text{m}^2 \text{ year} \rightarrow 7350 \text{ kWh} / \text{year}$

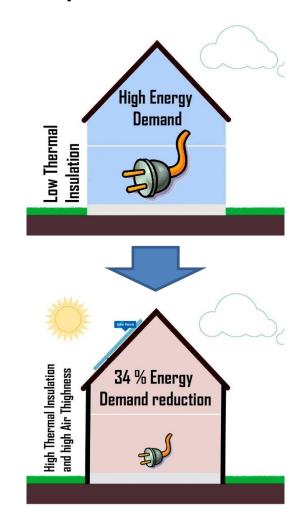
Approx. 50% corresponds to heating

BHS apartment (70 sqm):

Electrical consumption with high efficiency heat pump heating: $69.6 \text{ kWh} / \text{m}^2 \text{ year} \rightarrow 4872 \text{ kWh} / \text{year}$

Approx. only 24% corresponds to heating
 Savings in Overall Electrical Consumption 2,478 kWh/year (34%)
 PV Generation fr: 2356 kWh/y (Roof) + 945 kWh/y (Solar Carport)

BHS solution -> Near Zero / Low Carbon Energy Building





BHS advantages vs traditional construction systems

TRADITIONAL CONSTRUCTION SYSTEM

VS

BARCELONA HOUSING SYSTEMS

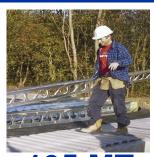


OMTNo cement needed

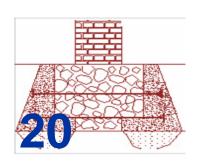


VS

BARCELONA HOUSING SYSTEMS



195 MT
Weight of a BHS UBA size
building



100 MT

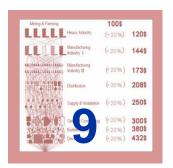
Cement needed to construct an

UBA size building

20 Days* Labor intensive Uses cement and water rigid foundation



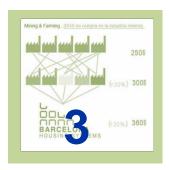
1 Day automated process No use of cement or water



1350 MT

Weight of an traditional UBA size building

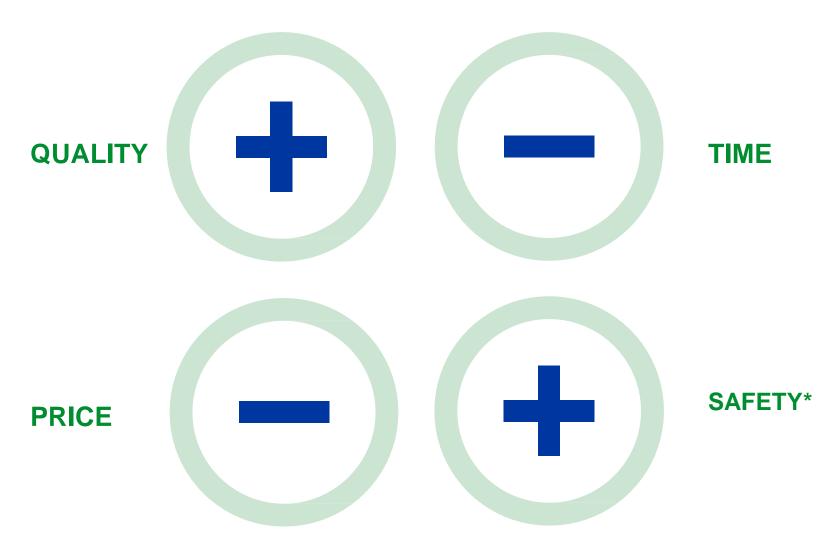
9 Steps = 100%
Too many operators



3 Steps = 100% Strictly the number of operators needed



BHS: Value Proposition



^{*}Greater hurricane, quake, and flood-resistance



Section IV

Copiapo, Chile BHS Case Study



Assembly sequence

1 2 3 3 4 5 6 7



2. Stairs



Assembly sequence

1

2

3

4

5

6

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BARCELONA HOUSING SYSTEMS

3. Horizontal Panel



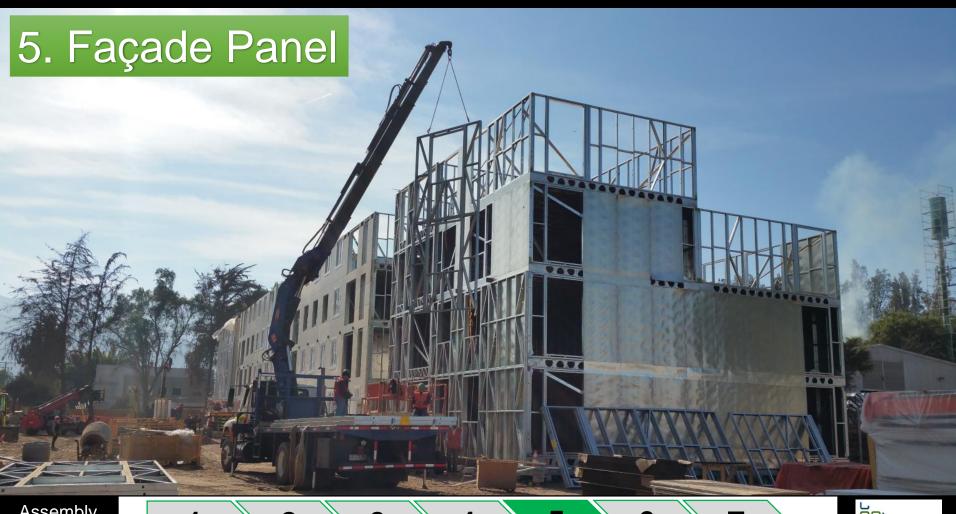
Assembly sequence

1 2 3 4 5 6 7





sequence



Assembly sequence

1

2

}

4

5

6

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BARCELONA HOUSING SYSTEMS



Assembly sequence

1 2 3 4 5 6 7



7. PV Roof



Assembly sequence

3

6

BARCELONA HOUSING SYSTEMS





Assembly sequence

1 2 3 4 5 6 7







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