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Live in an eco tower

The Beacon There will be 272 apartments in Hemel Hempstead's The Beacon - a mixture of studio. one, two and three-bedroom apartments and penthouses, with prices starting from £217,000 (thebeacon development. countrie.

Strata SEI
The design of
this besiding in
Elephant and
Castle, south
London, is
controversial.
It won the
Carbuncle Cop-

the Strata SEI building for JSS5,000 with Chase Evans. (chaseewans. co.nkl. Bosco Verticale A two-bedroom flat in Milan's Bosco Verticale, or "vertical forest' is listed at CL32m

by Prestige MLS

(prestige-mls.

com).

for ugly buildings

in 2010. Despite

its claims to be

rooftop wind

turbines don't

always seem to

There is a three-

bedroom flat in

be spinning.

eco-friendly, its

non-potable water consumption is significantly reduced by use of a grey-water recovery system, which collects rainwater both at the 17th-floor communal roof terrace level as well as at each solar-ledge level; the roof gardens will have a large-scale water attenuation tank - then water will be pushed through a filtration system to remove contaminants, so all this water can be reused for washing clothes or flushing tollects.

Intriguingly, the I7-floor tower designed by eco architects Warman Brown of Leyburn, North Yorkshire is popping up not in London but in the Hertfordshire commuter town of Hemel Hempetead. The area was planned as a new town in the Forties by the late Sir Geoffrey Jellicoe - who was himself a pioneer of architecture

that mixed technology with supposedly green credentials.

In the Sixties, Jellicoe proposed a plan for an even grander new eco town near Staines, Middlesex, of connected tower blocks called Motopia, where cars would, incredibly, travel on the roofs of the buildings - all of which were to be set in generous parkland. This utopian idea, like something from 3G. Ballard novel, was never realised.

Transport has also been a big part of The Beacon's modus operandi – electric cars and electric bikes will be available to residents. The car park will be automated and your car parked by a robot. We have this wonderful underground parking solution – it's pretty cool, and it's also in the Shard's says Singh. "You don't have so many emissions down there as it's automated – and it takes un less scace."

Eco towers are spreading, A fad perhaps, but not necessarily a bad one. Stefano Boeri is due to build another Bosco Verticale, called La Tour des Cedres in the Swiss city of Laussume. Like his Milanese project, this tower will be cowered in coniferous trees, in order to trap dust, absorb CO₂ and release oxygen.

"Biringing trees into the sky of a city means fighting the battle against the production of CO, in the place where it is generated most. It's like fighting the enemy in its own territory," says Boerl. "With our projects we have proved that a tree could grow in the sky of a city in the same way it does on the ground."

In Calcutta, the high-rise Astitiva residential building has just opened — the first time the Indian Green Building Council has awarded a Green Homes Gold certificate to a building in India's second-largest city. Existing towers can be retrofitted to be greener too — the 1967 tower block Austin House in Walsall, in the West Mollands, was transformed three years ago with insulation, solar panels and heat extracted from the ground — all reducing the amount of lost energy from the building.

But can a tower block ever really be eco-friendly? Or are we seeing some cheeky "greenwashing" on the part of developers?

There are many reasons that high-rise living is green. We travel much shorter distances going vertically than horizontally, and lifts are probably the most energy efficient means of transportation of Earth except for a bicycle," says Lloyd Alter, adjunct professor at Ryerson University in Toronto and design



Verdant: the Bosco Verticale, or vertical forest, in Milan, with trees growing within

editor of the eco architecture website Treebugger.com. "When you have a list of people living together in tall buildings, then a becycle is all you really need because there is enough of a population density to support stores, public transit and offices."

But don't go too high, he warns, "Butldings lose resilience, such as when the power goes out you less water and fire protection because the pumps don't work, and it's too far to walk down and up the stafrs. High density is green and good, but you can have too much of a good thing."

What about the huge amount of energy expended to make the concrete, steel and glass for a building? Singh says the Beacon's concrete will be produced as near as possible to the site and also that \$5,000 tonnes of excavated chalk and clay will be used to infill non-loadbearing walls in the building. That's rather than the usual practice of carting all that spoul away in hundreds of petrol-guzzing forries. "There's a lugar agonda here." be says, in the UK, air pollution kills

"There's a bigger agenda here." he says. In the UK, air pollution kills 40,000 people prematurely every year, and across the world that number is 5.5 million.

"Our logic is that the tools are there and we must try to use them," says Singh. "We feel morally compelled to demonstrate solutions, to say that you can do the right thing without impacting lifestyle. It's very low risk, proven technology."



Property of the week The ultimate luxury retirement home

ore and more people want to downsize and retire in luxury, but still live in the bustle of the city, writes Cristina Criddle.

Bankhouse is an exclusive development in the Corniche building, on London's iconic South Bank, designed for over-55s who have no desire to slow down.

The Bankhouse is more boutique hotel than retirement home, where residents can enjoy 24-hour housekeeping and personal care. Extra services offered include managing bills, collecting and ordering medication and daily health and wellbeing checks by staff.

There is also a restaurant, bar, club house and garden terrace where the young at heart can sociatise. The facility hosts activities from cinema clubs to rumba classes in one of the capital's most desirable postcodes.

The 36 one- and two-bedroom apartments are on the upper levels of a 14-floor tower, and it is just a 15-minute walk away from Tate Britain.

The apartments have views of the Thames, the Houses of Parliament and the Shard. The Oval and Royal Festival Itali are also within easy reach by foot or public transport.

Launched this month, the

Launched this month, the open plan spaces have underfloor heating and modern living areas with sleek new fixtures.

Fitted with a mix of Karndean flooring, ceramic tiles and carpeted flooring, the apartments have light and airy features - most containing balconies and chandeliers.

A one-bedroom flat on the ninth floor across 589 sq ft is on the market for £565,000 with Bankhouse (0344 800 3963; bankhouseSELcauk).



