PICTURE	COMMENTARY/ SYNC
TITLE SEQUENCE: THE EDGE GRAPHICS	10:00:00
FADE TO BLACK SCREEN	
FADE UP TO WS LONDON FROM TOWER 42	PICTURE STARTS 22:14
WS PAN TO CANARY WHARF	22:24 IN THE NEXT FIFTY YEARS THE GLOBAL POPULATION IS PREDICTED TO RISE BY A THIRD, TO 9 BILLION
TOWER BRIDGE CARS STREAMING OVER	HALF THE WORLD ALREADY LIVES IN URBAN AREAS.
WS SUNLIGHT ON TOWER BLOCKS	OUR CITIES COVER JUST 2% OF LAND – BUT CONSUME A STAGGERING 75% OF RESOURCES; AND DISCHARGE 75% OF ALL WASTE.
HERBERT GIRARDET	I/V SYNC:43:17 *... Over the last century human numbers have grown four fold, whereas urban populations have grown fifteen fold and today half the world's population is actually urban.*
	I/V SYNC:53:19 *In other words we'll need twice as many cities as we have today.*
MARCO GOLDSCHMIED	I/V SYNC:58:02 *Perhaps we are evolving into something like a social animal parallel with the ant or termite/*
JAMES LOVELOCK	V/O: */and our cities will become our whole existence.*
HIGH ANGLE TRAFFIC JAM ON BRIDGE COMMUTERS SWARM LIKE ANTS	01:09 BUT POLLUTION FROM CITIES IS CAUSING ILLNESS, GLOBAL WARMING, EXTREME WEATHER, AND DESTROYING OZONE,
	V/O:01:16 *That's happening now./*
GV OXFORD ST - FUMES FROM TRAFFIC	I/V SYNC:01:17 *The fact of the matter is, pollution from power generation, whether it's in a car, or whether it's in a power generating station, or whether it's in an industrial application or a ship is killing us. We must be able to change the technology*
NICK ABSON	01:32 UNLESS WE FIND NEW FORMS OF CONSTRUCTION, ENERGY AND TRANSPORT,
	IN THE 21ST CENTURY WILL OUR PLANET COPE
	PICTURE BACK IN VISION 01:45
CANRY WHARF TOWER ETC. TIME LAPSE	01:46 GLOBALISATION HAS BROUGHT US GREATER AWARENESS OF ECOLOGICAL DEVASTATION AROUND THE WORLD. BUT, HOW CAN WE ACCURATELY MONITOR THE DAMAGE FROM CHEMICAL POISONS, CFC'S AND CARCINOGENS
LOW ANGLE CRANE TIME LAPSE CANARY WHARF	
TITLE:01:41 'BUILDING THE FUTURE'	
FADE TO BLACK	ONE INVENTION ACTUALLY LED TO THE GREEN

	REVOLUTION
ENVIRONMENTAL DAMAGE ESA SHOTS	V/O:02:02 *That is an Electron Capture Detector*
POLLUTION SHOT, OIL SLICK AZERBAIJAN C/U PLASTIC IN OIL SLICK	I/V SYNC:02:05 */the gadget that started the environmental movement*
	V/O:02:09 *There's two pipes, there's one pipe where my finger is and there's another pipe there. Gas comes into here and /*
ESTABLISHER PROF. JAMES LOVELOCK	
	I/V SYNC:02:18 *any pesticides or things are detected inside that chamber*
JAMES LOVELOCK	V/O:02:23 W*ithin a few years scientists were using it/*
	I/V SYNC:02:27 */to discover pesticide residues right across the world. They found them in the fat of penguins in Antarctica and in the milk of nursing mothers in Finland. That shows how big was its global distribution.*
CU ELECTRON CAPTURE DETECTOR	02:41 LOVELOCK'S DEVICE WAS ALSO THE FIRST TO MONITOR CFC'S OR CHLOROFLUROCARBONS WHICH ARE CONTRIBUTING TO THE PROBLEM OF GLOBAL WARMING
CU OSCILLOSCOPE REACTION	I/V SYNC:02:50 *It was equally important there that in its first discovery of those gasses in the atmosphere and finding that they were accumulating as we continuously use them in our spray cans and refrigerators.*
SUPER:02:28 PROF. JAMES LOVELOCK Independent Scientist	03:05 LOVELOCK REALISED THAT POLLUTION ON ONE SIDE OF THE PLANET CAN AFFECT ECOLOGY ACROSS THE WORLD IN OTHER COUNTRIES. LOVELOCK NOW SEES OUR PLANET OPERATING AS ONE SYSTEM.
	NAMED AFTER THE GREEK GODDESS OF THE EARTH, - GAIA THEORY LINKS THE WHOLE WORLD TOGETHER, LIKE A SINGLE
SHOTS IN LOVELOCK'S LAB	SELF-REGULATING ORGANISM.
	I/V SYNC:03:22 *My first thoughts on Gaia on the whole system of the Earth, life*
JAMES LOVELOCK	*and the rocks and so on acting as one, began in the 1960's, when I was working for NASA.*
	V/O:03:37 *Looking for life on Mars was what led me to look at our own atmosphere in a holistic way.*
	03:48 BUT POLLUTION IS DESTROYING EARTH'S NATURAL
ESA SHOTS DAMAGE AND SPACE	SYSTEMS
	WE ARE REACHING CRISIS POINT, IF WE DON'T LOOK AFTER THE WORLD, WE CAN POLLUTE IT TO THE POINT THAT LIFE WILL DIE OUT.
EARTH FROM SPACE GV'S AND GFX ANIMATION	
	V/O:03:59

JAMES LOVELOCK

When you have a single system any changes such as we are doing increasing the greenhouse gas of the atmosphere will affect the whole system, not just the parts of it. Some organisms will benefit
from this change, others will be damaged by it. We as the cause of it
are likely to be amongst those that are damaged by it.

04:26
OVER THE NEXT CENTURY WE'LL CREATE TWICE AS MANY CITIES.

THIS ALSO MEANS DOUBLING THE GREENHOUSE GASSES AND OTHER POLLUTANTS ENTERING OUR ATMOSPHERE

GV'S COUNTRYSIDE SWOLLEN RIVER

SUSTAINABILITY MEANS THINKING ABOUT THE FUTURE ENVIRONMENTAL CONSEQUENCES CAUSED BY DEVELOPING NOW.

JAMES LOVELOCK

FOR THE EARTH TO SURVIVE - WE NEED SUSTAINABLE SOLUTIONS BASED ON NATURAL SYSTEMS. NEW FORMS OF BUILDINGS, TRANSPORT AND POWER ARE ESSENTIAL TO STOP THE LONG TERM DAMAGE

A PRIMARY CONCERN IS THE USE OF RAW MATERIALS WHICH TAKE VAST AMOUNTS OF ENERGY TO PRODUCE

I/V SYNC:05;10
Currently we use six tonnes of building material per person per year. That is too much. We have to find more sustainable methods of constructing the buildings and the cities in which we live in. 22:27:26

V/0:05:22
OLD CLIP LONDON TRANSPORT PICCADILLY CIRCUS COD MORPH TO PRESENT DAY
Architecture uses about 50 per cent/

IN SYNC:05:26
/ buildings - use about 50 per cent of all energy, 25 per cent is due to traffic - which isn't central related to whole urban design and, of course, and cities. And the other 25 per cent is basically industry and agriculture. So, architecture is a critical
LONDON DOCKLANDS GV'S
part of the whole question of a sustainable world.

05:55
STANDING DERELICT ON THE EDGE OF THE THAMES,
COUNTRYSIDE
BATTERSEA POWERSTATION ONCE BURNT TONS OF FOSSIL FUELS POLLUTING THE ATMOSPHERE,

IRONICALLY, IT'S NOW PART OF THIS NEW MOVEMENT TO SAVE ENERGY BY RECYCLING

LONDON DOCKLANDS GV'S

I/V SYNC:06:11
This building is sustainable because it's here it's a sustainable
SUPER:05:14
HERBERT GIRARDET
URBAN ECOLOGIST
operation, it's here is an old power station which is in sense being
recycled so all this brickwork will be retained/

V/O:06:24
/ in the same way the Tate Modern recycled the building that in here we are going to have a complete new internal
RICHARD ROGERS
ESTABLISHER
structure supporting a great internal activity space for ballet and 3-D events of all kinds, enormous numbers of restaurants and shops and all that kind of thing

	.people are much more prepared now to mix new with old, to/
SUPER:05:26 RICHARD ROGERS Architect	I/V SYNC:06:54 */use for instance a very sophisticated structure inside what is a fairly straight forward brick building like this. It's the marrying of the two which works rather well*
	IN SYNC:07:10 *Buildings should be re-cycled. They have a life span, they should be used for many more things. We are working in two ways one is to re-use buildings that are existing. There are 1.3 million empty buildings in England alone. Also when we design buildings we make sure that they can be re-used for a different function.*
GV'S BATTERSEA POWERSTATION	07:31 RECYCLING OLD STRUCTURES AND INCORPORATING FLEXIBLE DESIGN INTO NEW BUILDINGS SAVES ENERGY AND RESOURCES.
SUPER:06:13 NICHOLAS GRIMSHAW ARCHITECT	I/V SYNC:07:39 *Sustainability is as much about heritage as it is about the future.*
	V/O:07:44 *Lloyds, have a great history they were established around a coffee-house 300 years ago. They are very proud of their history. Lloyds, as clients, they said to us we want a building/*
COMPUTER GFX BATTERSEA	I/V SYNC:07:56 */that will last well into the next century, we are not in the building business - we've had to demolish a building every 20 years* *basically within this century.* *Not only is there tremendous upheaval to the work itself, but tremendous waste of materials*
	I/V SYNC:08:08 *The re-use of the Lloyds building was taken in to account at the design stage so that when it is no longer used as a trading floor, it can be* *used for other purposes.*
ESTABLISHER	I/V SYNC:08:17 *So, long life, loose fit - which means flexibility to adapt, because you don't ever know what's going to happen. A building which you build - can be a university one year, offices another, and you could be living in it as housing*
SUPER:07:12 LORNA WALKER Leader of Arup Environmental	V/O:08:29 *Another question is materials – materials which will last well. around Lloyds are natural materials. So you see a lot of stainless steel, which has long life - a lot of concrete, a lot of glass*
	I/V SYNC:08:42 *then in terms of low energy what is probably unique to Lloyds is that there's triple glass ... whether it's winter - cold outside, or summer – hot/*
LLOYDS FRONTAGE	V/O:08:49 */this means the glass is almost a mediator, very energy efficient.* *It also allows you to be comfortable when you get close to*

	glass.
RICHARD ROGERS	
GV'S LLOYDS	
	09:04 ANOTHER PRACTICAL CHARACTERISTIC OF ROGER'S DESIGNS IS INCORPORATING SERVICES ONTO THE OUTSIDE OF BUILDINGS. FEATURES LIKE ELECTRICAL COMPONENTS OR LIFTS, HAVE A SHORT LIFE SPAN. SO RATHER THAN PULL WHOLE STRUCTURES TO PIECES FOR UPGRADING, PARTS CAN BE REMOVED MORE EASILY, MINIMISING USE OF MATERIALS AND ENERGY.
LORNA WALKER	V/O:09:25 */the classical concept of a building was something that was perfect and nothing could be changed - that's gone.*
RICHARD ROGERS	09:33 ROGERS LATEST PROJECT FOR LLOYDS ONCE AGAIN MIXES HERITAGE - AND HI-TECH. COMBINING ORIGINAL BUILDINGS WITH NEW ENERGY EFFICIENT DESIGNS.
	I/V SYNC:09:41 *The Lloyds Registry of Shipping which has just been completed has a system of light sensitive louvers ...when the sun is out the louvers`* V/O:09:52 *close down, when the sun is off the louvers open*
GV'S LLOYDS	19:57 LOUVERS LIKE THESE ALLOW FLEXIBLE USE OF THE SUN'S LIGHT AND HEAT
RICHARD ROGERS	NOT ONLY DO BUILDINGS TAKE A LOT OF ENERGY AND MATERIALS TO CONSTRUCT THEY ALSO USE LOTS MORE DURING THE COURSE OF THEIR WORKING LIVES
INTERNAL SHOTS LLOYDS	REDUCING AIR CONDITIONING AND ELECTRIC LIGHTING MEANS CUTTING POWER CONSUMPTION
RICHARD ROGERS	CONCERN FOR OUR ENVIRONMENT IS CHALLENGING ALL DESIGNERS TO INCORPORATE ENERGY CONSCIOUS FEATURES.

PICTURE	COMMENTARY/ SYNC
EXT SHOTS LIFTS ETC AT LLOYDS	I/V SYNC:10:18 *Suddenly architects have come to realise that they are not only responsible for buildings and structures per se but they are also responsible for the environmental impacts of those structures in terms of their energy use, in terms of their use of materials as they are built, and so on. Leading architects in this country such as Richard Rogers and Nicholas Grimshaw, are really pioneering a new kind of more sustainable architecture, and I think that has global implications because these companies don't just work in the UK, they have practices in Tokyo and Berlin wherever else.*
RICHARD ROGERS	11:02 IF CITIES OPERATE LIKE LIVING ORGANISMS, THEN ROADS ARE LIKE ARTERIES - DELIVERING SUPPLIES, SERVICES, AND PEOPLE. BUT, IT'S NOT A HEALTHY SYSTEM. TRAFFIC IS THE FASTEST GROWING CONTRIBUTOR TO CLIMATE CHANGE, AND THOUSANDS DIE EVERY YEAR FROM LONG – TERM EXPOSURE TO TRAFFIC AIR POLLUTION.
GV'S LLOYDS REGISTRY OF SHIPPING	
RICHARD ROGERS EXT WITH REGISTRY OF SHIPPING IN BACKGROUND	I/V SYNC:11:22 *cars it's no good thinking they are just useful from going from A to B but they are actually polluting elements. If we keep on polluting the world then we will not be able to either use cars, from one end of the situation for example or we have to change the technology of the cars*
RICHARD ROGERS	11:41 WILL ENERGY FROM THE SPACE AGE HOLD THE KEY – TO CLEANER QUIETER AND EVEN CHEAPER TRANSPORT
CU'S LOUVERS	FUEL CELLS USED IN ROCKETS ARE NOW POWERING THE VEHICLES OF THE FUTURE
GV'S BUILDING SITES	NICK ABSON V/O:11:58 *The first time it was used was in the Apollo space capsules. Francis Bacon was the inventor of the modern fuel cell. He actually went to NASA from the UK and/*
WIDE PAN REGISTRY OF SHIPPING	NICK ABSON I/V SYNC:12:07 */developed their entire systems for fuel cells in space. He put them in space, we put them in vans: not quite so romantic but a lot more practical.*
	V/O:12:21 *A fuel cell is an Electro-chemical device. It works in a very similar manner to electrolysis, which you probably learned very early in your science lessons. That is, where you've got an anode and cathode in a/*
	IN SYNC:12:31 */beaker of water and electricity through them, it'll generate hydrogen and oxygen through the water . If you reverse that process then what you get is electricity and water, and that's*

	what a fuel cell is: makes water and electricity by the application of hydrogen and oxygen. –
	IN SYNC:12:56 *Hydrogen contains no carbon. If you burn carbon you end up with CO2, (CO2: carbon dioxide). CO2s very good to go in Coca-Cola, but if you put it in the atmosphere it'll kill you because it's a main contributor to global warming*
SUPER:10:20 HERBERT GIRARDET – URBAN ECOLOGIST	
	V/O:13:08 *When you use your fuel cells and you put hydrogen, the only thing that comes out is energy, and that energy is clean energy.*
	I/V SYNC:13:15 *We will see the first large quantities of fuel cell cars driving around in our cities in two or three years time.*
	13:24 AS WELL AS POWERING CARS AND VANS, FUEL CELLS WILL ALSO GENERATE ELECTRICITY FOR INDUSTRY, DOMESTIC POWER AND EVEN BOATS. ZETEK IS MAKING APPLICATIONS IN ALL AREAS.
	THEIR MOST RECENT RESEARCH ADAPTED A LONDON TAXI,
HIGH ANGLE SHOTS THE CITY	
	REPLACING THE OLD DIESEL ENIGINE WITH A NEW ONE USING HYDROGEN.
	I/V SYNC:13:44 *If you ran fuel cell powered Taxis in a city like London or New York or Paris, the reduction of pollutants would be of the order of 25 per cent.*
LOW ANGLE TRAFFIC FUMES	
RICHARD ROGERS	
	V/O:13:55 *The actual cost of running it on hydrogen are about one third the cost of running it on gasoline or diesel.* *we can/*
	I/V SYNC:14:04
EXT SEQUENCE OVER-EXPOSED, GARAGE AT ZETEK MILLENNIUM TAXI EMERGES	*/ retro-fit existing buses, for example double-decker London Route-masters, to be able to provide clean, efficient, powerful buses at the same price as it would cost to renew them.*
	V/O:14:17 *Fuel cell technology is the energy of today and it will be applied tomorrow.*
ESTABLISHER CU NICK ABSON	
	V/O:14:23 *The faster that we begin/*
	IN SYNC :14:25 */to invest in carbon neutral technology specifically including renewable energy. The more competitive we will be in international markets. The more technology we will have which is relevant to the specific demands of the new millennium.*
SUPER:12:08 NICK ABSON CHIEF EXECUTIVE ZETEK	

14:43
THE WORLD IS ALREADY CONSUMING AN ESTIMATED 80 MILLION, MILLION
KILO-WATT HOURS OF ENERGY EVERY YEAR,

NICK ABSON

80 PER CENT OF THIS CAUSES POLLUTION.

SHOTS OF INTERIOR OF ZETEK FACTORY AND FUEL CELLS

A SUSTAINABLE FUTURE NEEDS CLEAN RENEWABLE ENERGY ON A MASSIVE SCALE

V/O:15:00
Although on the one hand energy is/

IN SYNC:15:02
/absolutely essential to the development of any modern society, the path we were on in general was unsustainable. you could not keep providing energy the way we are and see to the remaining 5 billion people on this planet if we didn't change something so it became obvious that in time we would have to go beyond petroleum.

V/O:15:25
NICK ABSON
O*ur societies run on energy, nothing happens, the clothes you wear, the food/*

WS POLLUTION OVER LONDON

IN SYNC:15:31
/you eat, the movements you take, the industries we work for, all of them are founded on energy...

V/O:15:38
We can't provide the sort of energy we've been using to this point .. and maintain the environment.

15:44
HERB GIRARDET
ENOUGH ENERGY TO MEET ALL OUR NEEDS FALLS ON THE SURFACE OF THE PLANET EVERYDAY. IT'S ALSO CLEAN RENEWABLE AND FREE

I/V SYNC:15:54
Solar Power, Photovoltaics, translation of sun power into electricity, takes energy in the from of photons

V/O:16:02
HIGH ANGLE CITY SCAPES
and turns it into energy in the form of electrons and it does that through semi-conductors.

I/V SYNC:16:08
Photovoltaic cells are quite simply one of the most brilliant human inventions ever. They reproduce/

ZETEK FACTORY 'THE MILLENNIUM TAXI'

V/O:16:16
CU PULL FOCUS FUELL CELL TO HYDROGEN ENGINE
/the action of trees, they take sunlight from plants, they take sunlight and turn it into energy, specifically electrical energy.

NICK ABSON

I/V SYNC:16:22
Large automated factories for producing PV panels are being financed by companies like BP and Shell. This is becoming mainstream. Its no longer a weird and wonderful thing only for satellites or calculators.

I/V SYNC:16:35
In theory there is enough energy coming from the sun to provide us with everything we would always want, the challenge of course is the technology and collecting it,

V/O:16:45
we are actually experimenting all around the world .. so, you will find us ... we powered the Olympic village using?/

NICK ABSON

IN SYNC:16:51
/ solar power by ourselves. There are three thousand communities in the Philippines who are supported by our solar power technologies the same in in India, Asia, Spain and USA.

NIGHT SHOT OF GREEN MAN ON CROSSING

OXFORD CIRCUS ROUTEMASTERS DRIVE PAST

NICK ABSON

I/V SYNC:17:07
It would be brilliant if politicians and statesman in the third world embraced something like solar power in a single jump and leapfrogged the mistakes of the West, if you like

OVER EXPOSED MS ABSON WALKING

BILL DUNSTER

I/V SYNC:17:20
In remote villages, in places like India, or indeed in scattered remote settlements in the United States, the use of PV technology is already fully cost effective because it doesn't make sense to connect those settlements up to the grid.

SUPER:14:26
BILL DUNSTER
Architect

I/V SYNC:17:33
And you see this with mobile phones in China, there is no need to have a copper wire grid throughout China connecting to 1.2 billion people, you just put in mobile phones./

V/O:17:46
/ solar power can do the same for you, it's really effective as a distributed system

GV'S ELECTRICITY PYLONS

I/V SYNC:17:54
When you look at the challenge of sustainability and how we are going to bring it about ...something's are going to have to be led by government other things by industry and commercial world. but ultimately until every individual makes a change in their own minds we are not going to drive it or shift it at the pace we need to.

PLANE PASSES IN FRONT OF THE MOON

ESTABLISHER
CHRIS GIBSON-SMITH

18:26
BUT, HOW PRACTICAL IS IT FOR INDIVIDUALS TO CHANGE TO MORE SUSTAINABLE LIFESTYLES.

V/O:18:31
Hope House is a prototype family home.. It's built very economically using local materials. It has the ability to be environmentally upgraded over time as we can afford new features such as Photovoltaic cells and solar hot water panels.

SUPER:15:03
CHRIS GIBSON-SMITH
MANAGING DIRECTOR POLICIES, BP

18:52
HOPE HOUSE FACES SOUTH MAXIMISING FREE SOLAR HEAT AND LIGHT

SUSTAINABLE LOCAL BUILDING MATERIALS LIKE WOOD AND CONCRETE - STORE HEAT, RELEASING IT SLOWLY LATER

TRAFFIC HIGH ANGLE SHOTS

HEATING REQUIREMENTS CAN BE REDUCED TO AS LITTLE AS 10% OF A CONVENTIONAL HOME.

BOATS ON THE THAMES	
	I/V SYNC:19:07 *The rest of the house is well insulated and specifically is thermally zoned enabling only the/*
CHRIS GIBSON-SMITH	V/O:19:14 */living room to stay at comfortable temperatures all winter.*
	19:22 HOPE HOUSE IS NOW THE BLUE-PRINT FOR BED-ZED, THE FIRST LARGE SCALE, ZERO EMISSIONS HOUSING DEVELOPMENT.
WS PAN OF BP HQ LONDON	
SUN THROUGH THE TREES DE-FOCUSSED	A HUNDRED ENERGY EFFICIENT HOMES WILL HAVE ON-SITE WORK AND LEISURE FACILITES
CHRIS GIBSON-SMITH	JUST LIKE HOPE HOUSE, THE NEW DEVELOPMENT WILL RUN SHARED ELECTRIC VEHICLES.
	FOR THE FIRST TIME - SOLAR PANELS WILL STORE ENOUGH ELECTRICITY IN BED ZED TO POWER FORTY ELECTRIC CARS
FEMALE WORKER IN SPANISH BP PROD. LINE FITTING SEMI-CONDUCTORS	ENVIRONMENTAL AWARENESS IS WORTHWHILE, BUT TOO OFTEN IT'S SEEN AS DIFFICULT AND COSTLY TO PUT INTO PRACTICE.
BILL DUNSTER	I/V SYNC:19:51 *sBed Zed has shown that it is possible to do buildings that are sustainable and are not too expensive and can be used.*
	I/V SYNC:20:01 *... Bill Dunster and his colleagues are to be congratulated /*
WS PAN OVER LONDON	V/O:20:O4 *in starting a revolution in housing development.*
HERBERT GIRARDET	V/O:20:07 *With Zed thinking it's a way of future proofing.. As global warming starts to create more and more of an effect, this/*
	I/V SYNC:20:16 */lifestyle and the technologies that create it will become more and more attractive.*
CHRIS GIBSON-SMITH	20:23 POLLUTION IS CHANGING OUR CLIMATE AND DESTORYING ECOLOGICAL SYSTEMS
	IN FUTURE SOME ARCHITECTS BELIEVE WE MAY EVEN TRY TO CONTROL OUR ENVIRONMENT BY RE-CREATING THE OUTSIDE WORLD - INSIDE!
BPVL STOCK OF INDIA ETC.	IT SOUNDS LIKE SCIENCE FICTION, BUT NICHOLAS GRIMSHAW IS ALREADY SHAPING THAT VISION IN CORNWALL. I/V SYNC:20:43 *Eden will be the largest green-house in the world there's no doubt about* *that and we've deliberately set it up to make it as environmentally* *friendly and green in every sense as it's possible to be.*
	I/V SYNC:21:01 *The Eden project is building a living theatre of plants and people. Looking at all the ways we use plants, and our need*

	to conserve plants.
	I/V SYNC:21:08 *.. Very few people have ever seen a real rain forest . What we're doing is creating a piece of one in Eden so that people can see what it's like*
	21:17
SUPER:17:11 MARCO GOLDSCHMIED PRESIDENT, RIBA	EDEN IS BEING CREATED BY RE-CYCLING A DISUSED CLAY PIT.
	THE WHOLE, SITE IS THE SIZE OF THIRTY FIVE SOCCER PITCHES.
HERBERT GIRARDET	TWO ENORMOUS, GREENHOUSE DOMES – KNOWN AS BI-OMES ARE BEING SUSTAINABLY CONSTRUCTED.
	HIGH ENOUGH TO STACK ELEVEN DOUBLE-DECKER BUSES ON TOP OF EACH OTHER, THIS VAST SPACE WILL PROVIDE A SHOWCASE FOR PLANTS FROM ALL OVER THE WORLD.
CHRIS GIBSON-SMITH	V/O:21:39 *The basic form of structure at Eden is this geodesic steel structure of* *hexagons which are up to 15 metres across and inside those are pillows*
	21:55 THE PILLOWS ARE MADE OF TRIPLE GLAZED SHEET TEFLON
BPVL STOCK OF LARGE SCALE SOLAR INSTALLATION	
CHRIS GIBSON-SMITH	AS WELL AS BEING STRONG, LIGHTWEIGHT, AND TRANSPARENT TO UV-LLIGHT IT'S ALSO RECYCLABLE.
	V/O:22:05 *... you can walk up there and we have an abseiling crew who look after the building and have put these cushions into place.*
	I/V SYNC:22:15 *A very important aspect of Eden is that we collect all the water falling on the site and we use that for watering all the plants, for every other use you need water except drinking*
	V/O:22:31
EST GV'S HOPE HOUSE	*/ the whole building is a sort of living breathing organism as I see it.*
BILL DUNSTER	
	I/V SYNC:22:35
EXT SHOTS HOPE HOUSE CONTD.	*... Eden's about making connections, between plants, animals, people, the natural environment and how they're totally inter-twined with each other.*
	V/O:22:45 *I would like to think people would leave Eden .. and that they will be left with the thoughts about* *sustainability and they could do it , they could do something with solar* *gain, they could do something with solar water heating, they could do* *something with recycling the waste products from the house, they could*
EXT SHOTS HOPE HOUSE CONTD.	

	IN SYNC:22:55 */do something by using recycled building materials when they change* *their houses or extend them.*
	23:15
BILL DUNSTER	NEW TECHNOLOGIES ARE HELPING US SHIFT TO A SUSTAINABLE FUTURE?
	WILL THINGS ONLY JUST BEING IMAGINED HAVE A ROLE TO PLAY?
INTERIOR OF LIVING ROOM HOPE HOUSE	I/V SYNC:23:25 *..obviously there are very exciting*
DUNSTER OFFICES – EMPLOYEES PLANNING BED-ZED	*possibilities in terms of synergy between electronics, microchips and* *materials in creating responsive facades of all kinds. Perhaps furniture that automatically shapes itself to whoever is using it.*
	I/V SYNC:23:41 *..I sometimes think of materials which breathe, /*
SUE DUNSTER SEQUENCE WITH SIMILAR ELECTRIC CAR AS WILL BE AT BED-ZED	V/O:23:45/ *which change colour,* *which renew themselves or even which are naturally growing materials.*
	V/O:23:51 *.. things like thinking buildings who think for themselves , and possibly for us, for materials*
	IN SYNC:23:56 */that react to temperature, I think these are all going to make a big difference in how we can design for sustainability.*
SUPER:19:53 LORNA WALKER LEADER OF ARUP ENVIRONMENTAL	
	IN SYNC:24:04
HERBERT GIRARDET	*What I'd like to be able to see is the time when a Masai tribesman can go into his hut, turn on a television powered by a fuel cell that he can generate his own fuel for; the end of economic slavery of power, and also the end of pollution.*
GV'S HOPE HOUSE	I/V SYNC:24:20 *All of that I think is no longer just an issue of imagination but something that is very palpable because people want a sustainable future, and I think these ideas put together will offer us one.*
BILL DUNSTER	
	24:34 NEW FORMS OF ARCHITECTURE, ENERGY AND TRANSPORT WILL ALL BENEFIT THE PLANET AS A WHOLE
	BUT WE NOW NEED TO THINK NOT ONLY ABOUT WHERE WE'LL LIVE IN FUTURE, BUT HOW?
	EACH OF US MUST MAKE THE PERSONAL DECISION -
MODEL SHOTS IN THE STUDIO	WILL WE BE PART OF THE PROBLEM – OR THE SOLUTION.

CU FUTURE LIFE BUBBLE

I/V SYNC:24:51
Unless we actually design the futures that we want, we are going to get futures we don't want. all of us have to think about how we do this, all of us have to participate in both changing our behaviour and in bringing new technologies/

EST. EDEN PROJECT BUILDING SITE
SUPER:20:44
NICHOLAS GRIMSHAW
ARCHITECT

V/O:25:06
/to the fore because if we don't then the future is not sustainable.

END CREDITS START:25:12

SUPER:21:02
JO READMAN
MANAGER OF EDUCATION, EDEN PROJECT

NICHOLAS GRIMSHAW

HELICOPTER AERIAL GV'S EDEN SITE

WS BI-OMES

INTERNAL TILT OF BI-OME

NICHOLAS GRIMSHAW

EXT. TEFLON PILLOWS

WS/CU PILLOWS WITH CREW ASSEMBLING THEM

NICHOLAS GRIMSHAW

EXT ABSEILING CREW

NICHOLAS GRIMSHAW

PICTURE FADE:25:53

TOP OF BI-OME CU

JO READMAN

NICHOLAS GRIMSHAW

EXT GV'S OF EDEN VISITORS CENTRE
AND CROWDS

NICHOLAS GRIMSHAW

STUDIO SHOTS FUTURISTIC ARCHITECTS MODELS

MARCO GOLDSCHMIED

NICHOLAS GRIMSHAW

LORNA WALKER

NUTOPIA FISH AND COMPUTERS

LORNA WALKER

NICK ABSON

HERBERT GIRARDET

WS OF EDEN

SUNSET OVER LONDON

WS 'TRAFFIC LIGHT TREE' SCULPTURE LONDON

CU LIGHT GOING GREEN

CHRIS GIBSON-SMITH

CROWDS OXFORD CIRCUS DISSOLVE IN

FADE TO BLACK

Narrator
NATASHA DESBOROUGH

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