

[0:00:22]

[BOOM OF EXPLOSION]

[SIRENS]

MALE SPEAKER 1

The fucking Chevron refinery, you see the flames? The Chevron refinery just blew up.

MALE SPEAKER 2

Once a-fucking-gain, once again.

[0:00:32]

[EMERGENCY WARNING SIGNAL]

RECORDED EMERGENCY MESSAGE

An important civil emergency message follows.

[SIRENS]

RECORDED EMERGENCY MESSAGE

There is an emergency at Chevron Refinery, residents in Richmond are advised to shelter in place.

[SIRENS]

RECORDED EMERGENCY MESSAGE

Go inside, close all windows and doors, turn off all heaters, air conditioners and fans, stay off the telephone unless you have a life threatening emergency.

[0:00:53]

MALE VOICE

It is going down man.

MALE VOICE #2

The refinery just blew up dog.

MALE VOICE #3

Yeah we gotta leave this shit.

MALE VOICE

The Chevron burnin'

[0:01:00]

MALE REPORTER 1

A big fire at one of the country's largest oil refineries shot giant clouds of thick smoke into the air in Richmond, California.

MALE REPORTER 2

15,000 residents went to local hospitals complaining of health problems.

MALE VOICE

From all the smoke.

MALE VOICE 2

Its all chemicals from Chevron.

MALE VOICE 3

This is what happens when you live in Richmond.

MALE REPORTER 2

The city also claims the stigma from the Chevron fire will affect property value and quality of life.

[0:01:39]

JANA CARTER

Ok you guys let's do it.

VAN JONES

I know, I know. I'm doing it, I'm doing it. I'm just putting his green thing on. Where's the pacifier?

(to son) Here you go, here you go.

JANA CARTER

Do you remember? Bye, love you.

VAN JONES

Love you too.

VAN JONES

Hit your head? Did it hurt? I don't see no blood.

[00:02:01]

VAN JONES

You got, extremely low income people. You've got crime, violence, a lot of economic desperation... You know, you can't be in a neighborhood like this talking 'bout lets save the polar bears. You know? They're not, they're not gonna feel you.

Right over there that's the refinery, belching out pollution.

The pollution based economy created a lot of have's and have nots.

VAN JONES

If you've been in Richmond, and you drive on that bridge over to Marin county, it's a mind blowing--like what is all this you know, hiding it just over the horizon. There was organic food, solar panels, an economy being built up around health, wellness, environment. I said this is not just going to be good for the earth, this is going to be investment opportunities, business opportunities, jobs. We could have a green economy strong enough to lift people out of poverty.

And I said this is what I'm going to dedicate my life to.

[00:03:06]

VAN JONES

Hello.

The question is who can rally the country for a green outcome for everybody? Green For All. That's our job. That began this incredible coalition, Green For All. We tried to get the greenest solutions to the poorest people.

I said if we can have green jobs we can solve the economic problem, the ecological problem. We said we need something concrete where people can actually see ordinary folks been trained to do extraordinary things.

[0:03:45]

VAN JONES

We're literally in the shadow of the Chevron refinery. And so you have the last century of a solution based economy, and then you also have the next thing. And Michele is the master of training people how to do this work.

[0:04:02]

MICHELE MCGEOY

In Richmond the only time you ever saw Richmond on the news was two things somebody's bleeding or something's burning; right? If the refinery has a fire we get on the news and if somebody gets shot we get on the news. I want to create some good news in Richmond.

[0:04:20]

MICHELE MCGEOY

I figured that solar is one great antidote to pollution and jobs are a good antidote to violence and that's what inspired me to start Solar Richmond.

Green jobs are a possible solution for cities all around the country because we're creating job opportunities and at the same time they're playing a part on this global movement to clean up the planet.

MICHELE MCGEOY

This is a growth chart of the solar field. So it's been growing at about 50% a year. For me what that says is opportunity.

There's money in this field, right? (laughs)

[0:05:04]

PAUL MULDROW

Since I've been laid off that's all I do is cook 'cause the wife expects it. Right Honey? She said 'okay.' (laughs)

I try to put the house in the best situation it can be to keep the conflict down. You know I try to avoid the conflict. You know, I know she's going to be frustrated at times, it's usually at the end of the month, when the bills are due.

She's a great woman. She's been taking care of me. And I think it's time for me to start taking care of her again.

PAUL MULDROW

So it would be cool to get solar panels huh?

GERRI MULDROW

Yeah.

PAUL MULDROW

I really would like that it would bring the cost down 70 bucks a month. With that 70 bucks we could go out maybe one more time or two more times a month to dinner.

GERRI MULDROW

Or pay a bill. Sorry; be practical.

[0:06:00]

GERRI MULDROW

A couple of, 10 years maybe?

PAUL MULDROW

No more than that we've been together--

GERRI MULDROW

10 more years, it's a long time, but we dated longer than most people date, who knows why we just did.

PAUL MULDROW

How long? We're married for seven years?

GERRI MULDROW

No we're married 11 years.

PAUL MULDROW

Eleven years right.

GERRI MULDROW

See?

PAUL MULDROW

So we've been together 13 before that so we've together 24-25 years. We're kind of like the old school you know you get married you get married for life; if you have problems you work through 'em, that kind of thing.

GERRI MULDROW

Yeah, you try to work through 'em.

[0:06:29]

GERRI MULDROW

We're still under water, we bought our house and now it's worth less than half of what we paid for it. Foreclosure.

PAUL MULDROW

Where you see that at?

GERRI MULDROW

When it's foreclosed they have those usually papers on the door saying the bank takeover. Some of our other neighbors lost their home. We had neighbors come to our door, were very upset but want to let us know they'd be moving. We're at the point wondering okay, you know who else is going to be going and will it be us?

[0:07:14]

HAL ARONSON

Even though we're less than 5% of the world's population we're using more than 27% of its energy. Over half the electricity in the United States comes from coal. Coal is the biggest source of carbon that goes into the atmosphere, a 100 cars of coal powers a fossil fuel burning power plant for one day.

[0:07:41]

HAL ARONSON

One hour of sunlight hitting the earth is equal to all the energy that every person on the planet consumes in a whole year. There's no shortage of solar energy.

[0:08:08]

DANNY KENNEDY

We're one of the biggest residential solar companies in the country. We have 280 employees directly. We employ another 300 contractors around the country doing installations.

DANNY KENNEDY

The cost of Solar has dropped precipitously in the last five years by about 80%. We're starting to get to a point where clean energy will just compete without subsidies, so as we swap out and rewire the world we'll increasingly choose solar electricity because it is cheaper.

[0:08:45]

DANNY KENNEDY

Globally we'll be, majority solar powered by 2030. Who's going to lead that? Who's going to benefit from that? Where will those jobs be?

[0:09:26]

WALLY JIANG

In my village, there was no electricity.
In our house, we used kerosene and candles.
I was 7-years-old when electricity was brought to our village.

WALLY JIANG

(speaking Mandarin)
Let's have breakfast together.

WALLY JIANG

When they first see the electric light, people think it's magic.

[0:10:03]

WALLY JIANG

In 2003, I started my own solar business.
For solar, there is great opportunity for growth in the market.
At Westech, we set up the research and manufacturing.

[0:10:18]

WALLY JIANG

(speaking Mandarin)
Why are you interested in joining our company?

INTERVIEWEE

(speaking Mandarin)

I think your company is very promising.

I also think the solar power industry has great promise.

[0:10:30]

WALLY JIANG

When I started my business, I had only 15 people.

Now I have 15,000 worldwide. We grow 50% every year.

[0:10:44]

EMPLOYEE

(speaking Mandarin)

We should get the visa to go to Germany on January 12th.

WALLY JIANG

(speaking Mandarin)

You have to be more proactive. You have to move faster.

(speaking English)

Okay, thank you.

[0:11:05]

WALLY JIANG

We see teamwork as $1 + 1 = 11$. My daughter came to my office.

She said, "Hey Papa! You made a mistake!"

"My teacher told me $1 + 1 = 2$. I said, okay, $1 + 1 = 2$ is mathematics.

$1 + 1 = 11$ is economics. (laughs)

[0:11:37]

WALLY JIANG

Hello Elaine. Are you free now?

DAUGHTER

Yes Elaine

WALLY JIANG

Yes. Elaine.

[0:11:44]

WALLY JIANG

My daughter, I will teach green energy. Once she grows up, I hope she joins my business.

[0:11:59]

PEGGY LIU

A lot of people look at the clean tech revolution that's going on in the world and they look at China and they say why is it that China has been able to pour all of this money and be able to deploy so quickly? It's actually fear. Energy security is national security. If you have this much demand from people who want energy you have to be able to supply that amount of energy especially for a country of 1.5 billion people. If you don't have enough oil, if you don't have enough coal or natural gas where we're going to end up is with riots on the street.

[0:12:35]

The only way to really solve this problem and not to create conflicts down the road with other countries is renewable energy.

[0:12:49]

China is a step ahead in that the Chinese government believes that the science of climate change is real. They believe that climate change is caused by man. China is now the leading country in terms of how fast they are implementing sustainable technology at really large scale.

[0:13:14]

JIGAR SHAH

Today I believe that, that China now has industrial might.

It has more manufacturing capacity for wind energy than any country in the world. It has more manufacturing capacity for solar energy than any country in the world.

[0:13:33]

JIGAR SHAH

Renewable energy is the largest wealth creation opportunity of the 21st century and the United States and China are in a huge battle to be the largest economic power. This really is a race, the first one to deploy the most solar technologies at scale, wins. They get the most jobs, they get the most billionaire entrepreneurs and they become the most affordable place to do business.

[0:14:04]

HAL ARONSON

A thin PV crystal is like a thin piece of glass, it's actually made out of the same stuff glass is, did you know that?

STUDENT

Silicon?

HAL ARONSON

That's right, that's right. It's made out of silicon only it's highly refined. They get it to what we call...

[0:14:19]

BELL SOLAR COMMERCIAL:

Men have at last harnessed the sun with the bell solar battery, let the sun shine upon it and you get an electric current.

[0:14:28]

MIKE STRYKOWSKI

Solar is an American technology.

MIKE STRYKOWSKI

The first commercialized solar panel was 1954 Bell Labs that was in real use and that was through the space program.

[0:14:38]

HAL ARONSON

The first solar cell that went up worked weeks, months, years, decades it just kept going and once that happened solar became the power source for satellites.

[0:14:58]

MIKE STRYKOWSKI

United States government continued to push solar forward during the space race. Kennedy's moon shot was so important to show the country that things that were formally thought of as impossible, were actually possible.

[0:15:15]

PRESIDENT JOHN F. KENNEDY

We chose to go to the moon in this decade and do the other things, not because they are easy but because they are hard; because that goal will serve to organize and measure the best of our energies and skills, because that challenge is one that we're willing to accept, one we are unwilling to postpone and one we intend to win.

[0:15:40]

MIKE STRYKOWSKI

Having that leadership, rallying the country behind a common goal and the government being able to make those investments and technology made getting to the moon possible and unleashed an era of technological advancement.

[0:16:08]

EDDIE WILTZ

When I hear the word environmentalist, I think of people going out and planting flowers everywhere and whose gonna pick up bottles they see on the ground.

[0:16:21]

EDDIE WILTZ

In Richmond you're not going to find any environmentalists, people have way more concerns. I really never thought about none of these things until I got in this program.

[0:16:37]

EDDIE WILTZ

I went to college but I didn't feel like it was for me. We was in class talking about Socrates. I didn't see anything long term. A bunch of minimum wage opportunities. If you don't go to college you still can get a good job but it's going to be a lot harder; it's going to be a lot harder.

[0:17:22]

VAN JONES

My dad grew up in a place very much like Richmond, California, I mean he grew up in the poorest part of Memphis and he grew up in abject poverty. He was able though to put himself through college, and then he put his little brother through college, and then he put me and my sisters through college.

(To son) This is the biggest sock I've ever seen! Where'd you get these socks?

[0:17:42]

VAN JONES

He used to tell me all the time that you've got to go through the internal disciplines of climbing that ladder out of poverty yourself, that's every individual's responsibility. My dad also said, society has a responsibility as well, society has to make sure that every child has a ladder to climb, and that's what's wrong right now in places like Richmond.

[0:18:10]

VAN JONES

It used to be the case that if you didn't go to college it was all right, you could go get blue collar job, we had manufacturing going on, now, a lot of those jobs have left the country.

And so you wind up in a situation where low income people have to try to climb a six story ladder out of poverty but the ladder only has four rungs on it. So when we talk about green collar jobs you're talking about putting some green rungs back in that ladder of opportunity. We pass the right policies, real people, are gonna have to get up in the morning, put on their work boots, put on their green hardhats and get out there and do the work.

[0:18:42]

TAVIS SMILEY

Prime middle advocate Van Jones' new book which makes its debut this week on the New York Times best seller list is called the Green Collar Economy. 'How one solution can fix our two biggest problems.'

[0:18:54]

AMY GOODMAN

Van Jones lays out a plan for a green economy, he says could help solve the nation's economic inequality.

[0:19:02]

VAN JONES

70% of global warming problems are in our cities. We can't beat global warming without greening the cities and we can't green the cities without greening the ghetto. You are ground zero for our agenda, the only way we can save the polar bears is to save the neighborhood.

[0:19:18]

MALE SPEAKER 15

This is BBC World and we were at the meeting this morning.

VAN JONES

It would be hard to imagine my work life balance being any worse. If I get four hours of sleep, I'm doing great. But we're in the first minute of the first mile of a very long marathon here.

(to crowd) You could put people to work right now re-powering America with clean energy. That's what this movement is all about.

[0:19:58]

MAYOR MCLAUGHLIN

As a result of the fire at the Chevron Richmond Refinery, 15,000 people were treated at the hospital for respiratory related conditions.

COMMUNITY MEMBER 1

We are in a state of emergency. Why are we the city that leads the county in death and disease? People are still experiencing symptoms, some that may turn into very serious conditions like cancer or heart conditions.

COMMUNITY MEMBER 3

The day after the fire Chevron raises the price on gas, and the people of this town are paying for their fire and I think they made, how much, three billion in the last quarter?

[0:20:43]

MAYOR MCLAUGHLIN

And the fact that they put a lot of money into campaign contributions for council members created a certain privilege for Chevron.

[0:20:44]

FEMALE REPORTER 1

Oil giant Chevron is pushing for a multimillion dollar refund on its property taxes. At the same time Chevron announced big profits today.

[0:20:53]

MAYOR MCLAUGHLIN

When I ran for city council, I won by fighting hard against a large corporation who really conducted an out and out campaign against me. We have a vision for green jobs the will not only put money in the pockets of our residents but will also show that we can meet our energy needs. We definitely could be a solar city if you have the political will.

[0:21:21]

DANNY KENNEDY

There's a revolving door between governments and fossil fuel interests, and so they are protected in large part from competition. We subsidize dirty energy with investment and tax credits, we refine them in communities that are already marginal and dispossessed like Richmond. And they've concentrated a lot of wealth and power so we got to change power supply, and that will mean changing power relations too.

[0:21:51]

MAYOR MCLAUGHLIN

If we got full taxes from Chevron, we would be so flush in money that we could put that money into stimulating the green economy.

[0:22:02]

DANNY KENNEDY

Energy policy is social policy. Because solar power is distributed, because it is local because it can be owned by the people that use it we can make a fairer, cleaner, lower cost world. That's an amazing reversal of fortunes putting power in the hands of the people both literally and figuratively, that is the potential of solar.

[0:22:32]

HAL ARONSON

Here's the power formula: Volts × Amps = Watts. Watts is power.

PAUL MULDROW

Training for a new field of work at forties is frightening. It's

absolutely frightening cause you don't know in the back of your mind if it's gonna be an age thing.

PAUL MULDROW
Now I lost me.

HAL ARONSON
Yeah, you take a big step backwards. Look, you got 8 modules.

PAUL MULDROW
Right..

HAL ARONSON
One string,

PAUL MULDROW
...is 12.

HAL ARONSON
Twelve volts what? How many amps?

PAUL MULDROW
One.
Here I'm a college educated person and I have no job. So that's definitely was frightening

[0:23:13]
HAL ARONSON
When you wire in parallel, amps go up. So where did you get 24 from?

PAUL MULDROW
Amps go up.

HAL ARONSON
So where did you get 24 from?

PAUL MULDROW
Because...with the y.
That fear would be the method of my motivation.

HAL ARONSON
You didn't put the two strings together in series, you put them together in parallel.

PAUL MULDROW
Ohhhhh

HAL ARONSON

You are like, this far away from having nailed it man. You're doing good!

[0:23:40]

SOLAR RICHMOND TRAINEE
You got another cable?

SOLAR RICHMOND TRAINEE 2
Down low down low.

HAL ARONSON
So yeah, just find a bare piece of wire there, that's perfect, and now you got to go to the positive side.

[MUSIC PLAYS ON SOLAR POWERED SPEAKERS]

HAL ARONSON
Okay this was good. That's the positive positive? Good.

PAUL MULDROW
Yes that's the positive positive.

HAL ARONSON
And on the other side?

PAUL MULDROW
Which is parallel

HAL ARONSON
Good. Just watch your hair blow there, okay Paul?

PAUL MULDROW
I never thought that this would be so easy to get a fan going off solar panels.

TRAINEE
It's blown all over the place.

PAUL MULDROW
I am cool right now even though I am in the sun. Ahhhhh.

[0:24:21]

SOLAR TRAINER
What do you got going there Rick?

RICK
Well we found this music box here. We decided we wanted to try to power this up with some solar modules.

MALE SPEAKER 23
Hit the switch.

[MUSIC BOX PLAYS AT DOUBLE SPEED]

RICK
It's too fast.

SOLAR TRAINER
Look at that.

RICK
That's a nice song.

MALE SPEAKER 23
We couldn't recognize the song because it's just, there's too many volts running through it.

[0:24:41]

SOLAR TRAINER
Correct.

RICK
When we cut it down to half. Ready?

[MUSIC BOX PLAYS]

"You Are the Sunshine of My Life"

MALE SPEAKER 23
You are the sunshine of my life.

SOLAR TRAINER
Stevie Wonder.

MALE SPEAKER 23
Yeah.

RICK
And it's powered by the sun.

SOLAR TRAINER
Awesome.

[0:24:59]

[Steve Wonder "You are Sunshine of My Life"]

♪You are the sunshine of my life♪
♪That's why I'll always be around♪
♪Oooh, you are the apple...♪

[0:25:15]

MIKE STRYKOWSKI

Solar was started by hippies in the '70's. Yes those crazy tree huggers that everybody hates, were right.

HAL ARONSON

By the way it wasn't the hippies it was us hippies right?

MIKE STRYKOWSKI

Yeah!

[BOTH LAUGH}

MIKE STRYKOWSKI

The early adopters were people concerned with the environment. But when it reached the public it was more out of independence mixed with necessity.

[0:25:36]

MALE REPORTER 3

The oil producing countries of the Arab world decided to use their oil as a political weapon. They will reduce oil production by 5%...

MIKE STRYKOWSKI

The solar industry had one of its larger eras of public adoption during the oil embargoes in the 1970s.

MALE GAS STATION ATTENDANT

No more gas, out of gas.

[0:25:55]

NIXON

We must face up to a stark fact. We are now consuming more energy than we produce.

[0:26:03]

MIKE STRYKOWSKI

During the Nixon era OPEC raised oil prices overnight, very much shocking the nation.

MANA

The oil is declining, and the problem will be a problem of availability and not a problem of prices. When you are thirsty in the desert you are ready to pay whatever you have money in your pocket for a glass of water.

[0:26:31]

MIKE STRYKOWSKI

We saw it again under the Carter administration during the Iranian revolution. The Iranians cut back supply and spiked the price of oil in America.

We were afraid we're going to run out of oil, not have enough oil and it was basically being rationed.

[0:26:45]

PRESIDENT JIMMY CARTER

This is intolerable dependence on foreign oil threatens our economic independence and the very security of our nation.

MIKE STRYKOWSKI

President Carter actually set an energy agenda; he wanted us to be on 20% renewable energy by the year 2000.

[0:27:04]

PRESIDENT CARTER

Today in directly harnessing the power of the sun we're taking the energy that God gave us, the most renewable energy that we will ever see. And using it to replace our dwindling supplies of fossil fuels. Solar energy will not pollute our air or water; we will not run short of it. No one can ever embargo the sun or interrupt its delivery to us.

[0:27:40]

MIKE STRYKOWSKI

President Carter put solar panels on the White House. Ronald Reagan took 'em off the second day he was in office. One of Ronald Reagan secretaries actually said that solar was not a technology befitting a super power.

[0:28:00]

JIGAR SHAH

We were left with all of these great technologies in solar, wind, storage that were invented in the United States but we just didn't have the policy in place to deploy them at scale.

[0:28:13]

JIGAR SHAH

The oil industry, they receive 20, 30 billion dollars a year from the US government in subsidies.

When you have a system that's been in place for 100 years and you've been making money for 100 years, the last thing you want is innovation that actually turns that system on its head.

[0:28:31]

FOX NEWS ANCHOR

Oil and gas produce massive amounts of energy. Wind and Solar don't.

FOX SPECIALIST

We couldn't build enough solar panels and enough wind mills... it would still be fossil fuels...

MALE FOX NEWS

I want an energy policy that works, not this nonsense of supporting wind and solar.

[0:28:55]

DEBBIE DOOLEY

I love the south. Solar makes sense for the south because look! Look outside today! Look at the sunshine. Solar is becoming so affordable utility companies see solar as a threat. And they're really begin to fight now very hard with everything they've got.

FOX NEWS ANCHOR

The Green Tea Coalition as its called has come together to break what they say is the unfair monopoly state law gives power companies to deliver electricity. Solar they say is the way to do it.

DEBBIE DOOLEY

The Green Tea Coalition, we asked Georgia power to include more solar in their integrative resource plan. This was led by Republicans. But we're facing a battle, we were attacked.

[00:29:46]

CHRIS HAYES

Despite the Tea Party support, a political group founded by billionaire brothers Charles and David Koch wants Georgia's utility regulators to reject the new solar plan.

DEBBIE DOOLEY

Follow the money. Koch funded groups like ALEC and Americans for Prosperity are pulling out all the stops on a local level to stop solar.

[00:30:11]

DEBBIE DOOLEY

Energy freedom and liberty is not a Democrat issue, it is not a Republican issue, it is an American issue.

[00:30:23]

PEGGY LIU

As China moves from the factory of the world to the clean tech laboratory of the world, it's working with partners from around the world to deploy large amounts of capital to be able to buy this equipment, install it in large pieces of land in China. And it does it at a pace that is frankly, a China pace, right, in a blink of an eye.

[0:30:56]

WALLY JIANG

The government gave more and more support for clean energy. They gave me the bank's support. I got a low interest loan. They issued a law. And the government started to promote local people to use more and more solar.

[0:31:17]

WALLY JIANG

We plan to create 8,000 jobs, opportunities for the jobless in Texas. My solar city project is supported by the Texas governor. And this is Perry. He's my friend. He supports me to promote solar energy in the U.S. (laughs) I told you.

[0:31:51]

WALLY JIANG

I have a dream. I want to go to the U.S. and buy land to build a solar city. The solar city will be including the factory, training center, convention center, hotel and solar mall. That's my dream.

[0:32:19]

WALLY JIANG

After the solar city is built, then we can use free energy, and also create jobs, and also save money.

[0:32:38]

VAN JONES

Green For All is part of a much larger movement of groups that are trying to propose climate solutions that actually create jobs and make us better off. We're gonna be trying to get legislation this year in congress; it's just going to be very stressful. This is the first time I've heard Jana really be, frustrated, because she's got to be with two sick kids for a week and so she's like, 'why are you gone again? you know like, I don't understand why this is so important?' And these kinds of things it's just, it's hard.

[0:33:25]

VAN JONES

We have an opportunity to solve the two biggest crises possibly ever to face this country. An economic catastrophe and a climate crisis. We have an opportunity to do something that no generation of America has ever had the opportunity to do. We can build a green economy, we have the opportunity to connect the people who most need work with the work that most needs to be done and fight pollution and poverty at the same time. This is the chance for America finally to return to its roots as the most important economy in the world, not because we are the number one consumers, but because we are the number one producers.

[0:34:13]

VAN JONES

So that was pretty good. We got 500 million dollars for the Green Jobs Act! Excellent day! We're just changing the world, American, changing the world, no autographs, how are ya, how are ya.

[0:34:46]

EDDIE WILTZ

I don't want to work at the Chevron refinery, I just don't want to be around all those different chemicals and gasses and what not. Like I think in the longterm, I think in the longterm it does affect a lot of people. And, like when my dad passed away from cancer it's just something I'm scared of.

[0:35:07]

JUANITA WASHINGTON

This, oh, you and your dad. Boy you guys tickled me.

Right now in Richmond there's not much opportunity as far as employment. A lot of the industries have pulled out and left.

I just knew you was gonna grow up to be an engineer of some kind because you always wanted to figure out how things worked.

My hope for Edward is that he comes out of this program with skills and knowledge that can carry him through his life, and be able to sustain himself.

[0:35:45]

EDDIE WILTZ

I just want a job. It doesn't have to be a green job. I want a job, a good paying job.

[0:36:06]

EDDIE WILTZ

I was in the solar class, walked in, and seen an open seat next to a pretty girl. and i went and sat down. Tierra very talkative and so she just striked up a conversation.

SOLAR TRAINER

Yes ma'am.

TIERRA ANDREWS

Would you mark the rafters?

EDDIE WILTZ

Tierra already knew a lot about solar and construction in general. So she was able to help me a lot because I was fresh and didn't know much of anything. Working with her, I grew an interest for solar. It makes it funner having a beautiful woman there helping you.

SOLAR TRAINER

Okay, you and Tierra up, just work together, okay? You carry it like that you bring it here.

[0:36:41]

TIERRA ANDREWS

Most women might be afraid of the whole electricity thing, it sounds dangerous but I feel pretty confident in the things that I've learned. Just want to make sure that I'm doing everything the way I'm supposed to be.

SOLAR TRAINER

Get that belt tight. Okay so the pants are not down to here right.

[LAUGHING]

TIERRA ANDREWS

It's the heat he's delirious.

[0:37:03]

EDDIE WILTZ

I'm most looking forward to actually installing a real solar panel on someone's home like because I never thought about this stuff. I know that I have it in me to become an installer.

[0:37:17]

MALE NEWS REPORTER2

A bay area homeowner today got thousands of dollars worth of free work done on his home, and in the process some kids are learning a new craft. You might call it a win-win situation.

FOREMAN

Go to the first available bracket there. This is the point where we shed that...

WORKER

Right there? This looks pretty good right there.

[0:37:35]

WORKER

Coming up, let me know when you got it.

KORALI

Let's lean that one up against here, put it into place, okay great.
Perfect.

[WRENCH SOUNDS]

[0:37:53]

PAUL MULDROW

Once I figured out what solar really was and how you can supply energy to your own house I was thinking I could wire up my own house with solar panels and save some money there.

MULTIPLE SPEAKERS

Five, four, three, two, one, zero, solar!

[0:38:13]

KORALI

That's the free power that you're getting from the sun right now.

FEMALE SPEAKER 11

Alright, get out of here, get out.

KORALI

You're making more than you're using right now.

FEMALE SPEAKER 11

So I'm not having to pay anything right now?

KORALI

Not right now no.

FEMALE SPEAKER 11

This moment.

FEMALE SPEAKER 12

Whoa.

FEMALE SPEAKER 13

I'm not having to pay nothing. Hello! I like them numbers.

FEMALE SPEAKER 12

Are we going to do this in the City of Oakland? I live in Oakland.

KORALI

Oh yeah we're doing it in Oakland.

FEMALE SPEAKER 12

Well how come I don't know nothing about it.

KORALI

I'll give you my card.

FEMALE SPEAKER 12

Give me your card... they're doing it in Oakland... oh my God am I going to be able to get solar? Am I going to be pumped from the sun?

[0:38:45]

[APPLAUSE, CHEERING]

CROWD

Obama, Obama, Obama...

[0:38:55]

OBAMA

Starting today, we must pick ourselves up, and begin again the work of remaking America. We will harness the sun, and the winds, and the soil to fuel our cars and run our factories, to meet the demands of a new age.

[CHEERS]

[0:39:15]

VAN JONES

For the first time we're going to have a president that is taking the environment and energy and climate crisis seriously, I got a phone call from Carol Browner who is the energy Czar for Obama and she wants me to join her team. She said that she was facing a big set of challenges in the White House and that somebody with my particular gifts could make a big contribution.

[0:39:49]

JANA CARTER

You know aside from relocating the family and those kinds of issues which I feel you know, like we would just deal with, if that's what the decision that you make if that's what you want to do, we'll just deal with that. My main concern is you running Green For All is in my opinion, really important. I guess I'm just not sure that you going to the White House is gonna be the most effective way for you to use your skills to serve.

VAN JONES

For me like the criteria isn't you know, what's going to be the - you know, the best kind of like resume booster, the legacy I want to leave for these guys is he got some people some jobs, you know he made some stuff happen.

[0:40:34]

VAN JONES

We got anymore tape?

JULIE HAENER NEWS ANCHOR

A Bay Area community activist who over the years has fought against the establishment is now moving to the establishment's epicenter, the White House. President Obama has tapped Oakland's Van Jones to be the White House's special advisor for green jobs.

[0:41:03]

VAN JONES

I'm moving the family to DC. I feel blessed in this crazy way. It's like three months ago if sat me down and said, 'What is the best possible job that you could have in the White House? The best possible job, don't hold back. And then we're going to add whipped cream and sprinkles to it, it's still only been half as good as a job I actually got. I can kind of pick the problems I want to solve, and then have tremendous support getting them solved.

[0:41:37]

VAN JONES

(on phone)

I like the—depending on how you do the math somewhere between 6 and 13 billion dollars for energy efficiency for buildings. This is one solution that's good for the environment in terms of saving energy and cutting carbon emissions that will save you money...

You know, I think we should retro fit every building in the United States. I have the authority to try to figure that out for the White House. I think that we should do a major effort with regard to green jobs for rural America. I've got the authority to do that, I get to pick those as problems to solve and do 'em. That's a great job.

[0:42:12]

MALE NEWS ANCHOR 3

Joining me now the president's special advisor on green jobs, Van Jones.

VAN JONES

What Barack Obama wants to do, is give the people with the big ideas support so they can compete and you're gonna unleash a title wave of

innovation, a title wave of entrepreneurship for small business for the new folks who get in here, shake up this energy sector and create new jobs.

[0:42:50]

EDDIE WILTZ

Last semester I was going to college and it really wasn't for me. I didn't like sitting in the classroom and I just didn't like school. I found this program and I'm saying they opened up brand new opportunities and brand new for me that I never thought about. I didn't even know how to drive a nail before I came in here. It was good. Thanks to Andre though, I can hit nine in a minute. I want to thank all of my classmates for helping me, I got love for all y'all, and I appreciate everything y'all did for me, thank you.

[0:43:21]

MAYOR MCLAUGHLIN

You're turning your lives around improving your lives, for yourself, for your families. You're helping Richmond change its image because you are showing other cities that we are ready in Richmond, we are ready for those green jobs, we--we most definitely are.

MICHELE MCGEOY

The moment we've all been waiting for... Paul Mudrow, Edward Wiltz the second...

CROWD

Eddie, Eddie, Eddie...

[0:44:03]

JUANITA WASHINGTON

This is fantastic, I am so proud of him. It's been a long haul since his dad passed and my heart is full, my heart is so full. Thank you. I'm proud of you, I'm so proud of you.

EDDIE WILTZ

I'm ready to go to work, right now, we can start.

[0:44:31]

MALE SPEAKER 33

As hurricane Sandy moves west, it has left an unprecedented path of destruction. Over 8 million are without power.

[0:44:46]

DAVID CRANE

What we saw after super storm Sandy is that Global warming threatens us all, everybody. In business you work in facts, and when you know 99% of the world scientists all agree that beyond a shadow of a doubt this thing is happening and it could have catastrophic consequences

for humanity. I'm gonna substitute my judgment for them, you know no way.

[0:45:11]

DAVUD CRANE

NRG, we're the second largest power company in the United States. The biggest and most profitable of the power plants we have always owned are coal plants. Our fleet was aging and it was carbon intensive, and I didn't think that was good for the long term future of the company. At NRG we started a strategic shift towards clean energy. You're talking about somewhere between a trillion and a 1.5 trillion dollar market. You know there aren't too many other opportunities out there like that, so I don't think we can afford not to do this.

DAVID CRANE

The goal that the world's scientists give us is reducing the carbon in the atmosphere 80% by 2050.

The electricity sector is the biggest single issue. We have to go to zero, zero carbon emissions. I'm confident the electricity sector can be 100% renewable power. Just three days ago Germany was 75% on renewable power and you know Berlin did not collapse, low and behold.

[0:46:21]

FLIGHT ATTENDANT

Welcome to Düsseldorf ladies and gentlemen please keep your seat belts fastened..

[0:46:35]

WALLY JIANG

My suggestion is we can set up joint venture branding to develop the China market and the global market. Let's work out strategy of what we can do in the future. We manufacture in China or in U.S.

MALE SPEAKER 35

I don't see U.S. but..

[LAUGHING]

WALLY JIANG

That's MOU. M-O-U. For business cooperation between Westech and Resol. Thank you. I hope we can do more business together.

MALE SPEAKER 36

Thank you.

[0:47:08]

WALLY JIANG

Germany is the biggest market for solar energy. In Germany, they

adapted very fast. They issued a lot of laws, to encourage people to use solar energy.

FEMALE NEWS ANCHOR 3

Germany has decided to switch off all its nuclear power stations by 2022. The move is intended to turn Europe's largest economy in to a frontrunner for creating renewable energy and jobs.

[0:47:39]

PHILIP HIERSEMENZEL

European Union has a target of 20% renewables by 2020. I think that's not going fast enough. I think we could easily come to 80% renewables by 2030 no problem. It's not a technical problem at all. It's a problem of political will. And it's a problem of breaking the influence of the big companies, that provide our energy now.

[0:48:07]

WALLY JIANG

For this renewable energy, we need the government to give guidelines and encourage people to use solar energy. I think the U.S. needs to take action.

MALE NEWS ANCHOR 4

The United States simply hasn't figured how to do solar, effectively. And, cheaply you look at the country of Germany it's working out great for them.

FEMALE NEWS ANCHOR 4

And they've got lots of sun,

MALE NEWS ANCHOR 4

Right.

FEMALE NEWS ANCHOR 4

Right? They've got a lot more sun than we do, and the problem is that, it's a cloudy day and it's raining, you are not going to have it.

[0:48:38]

BILL CLINTON

The sun shines on average in Germany as much it does in London. Even if you account for the subsidies, the German government and the Germany people paid, to get that solar, they still netted 300,000 jobs. So we are four times as big and twice as capable, so you do the math. It's two and a half million jobs if we did what they did.

[0:49:06]

VAN JONES

If you want a green economy, if you want to stop dumping mega tons of carbon pollution into our atmosphere; then you have to look at the polluters, and give the polluters some reason to stop polluting.

We had a strategy and the solution was cap and trade.

The basic idea, very simple, nobody should be able to pollute for free. Simple as that. You can't pollute for free. If you go out here right now and throw a tin can on the ground and a police officer sees you, you'll get a fine. Why? It's a civilized country. You can't pollute for free.

[0:49:49]

VAN JONES

Big oil big coal, you've got to say to these people, guess what, you're the most profitable company in the history of the world you don't get any more tax breaks and goodies from us. We're going to limit how much of this planet baking pollution we can put up in a year, and every year we're going to put up less and less until we're done.

[0:50:10]

VAN JONES

So you instantly begin to put all your research and development dollars towards the clean solutions. In new technologies, new innovations, and deploying them so people get jobs.

[0:50:24]

MALE SPEAKER 39

On this vote, the Bill is passed.

MALE NEWS ANCHOR 6

Cap and trade legislation passes the house, now it's on to the senate.

VAN JONES

I don't think we realized when we started tugging on that little string. What if the economy were better? What if it were better for poor people? What if it were better for generations yet to come? I don't think we really realized how threatening that little thread was to people who make a lot of money with the tapestry just the way it is.

[0:50:56]

ATTACK AD

Fact. Cap and trade will mean higher electric bills. The fact is America can't afford the cap and trade tax. Tell your Senator to vote no.

AFP RALLY SPEAKER 1

The federal government taking over the economy, that's really what cap and trade's all about.

AFP RALLY SPEAKER 2

You know if we let this cap and trade go through, if you think you're getting money taken from you now, just wait if that thing gets through.

VICTOR MENOTTI

Americans for prosperity may look like a grassroots group because of its bus tours, and it's rallies but the Koch brothers founded that and they fund that organization. So it's the big attack dog that they're using to defend their carbon based wealth.

[0:51:35]

VICTOR MENOTTI

In this report we went through the worlds billionaires from the Forbes list and we looked at who is actually wielding their wealth to stop the solutions like solar, like wind, like energy efficiency and you see really towards the top here, that's where we get to learn about Charles and David Koch.

They co-own Koch industries, a conglomerate whose fortune is based on fossil fuels. They funnel millions of dollars over the years to legions of lobbyists, think tanks, and fake grass roots agents that protect the fossil fuel interest.

[0:52:10]

GLENN BECK

Let's bring in Phil Kerpen, he is the director for Policy for Americans for Prosperity.

GLENN BECK

I think I this is a watermelon Bill.

PHIL KERPEN

And I think you're exactly right. This Bill is green on the outside and inside it's deep communist red.

VICTOR MENOTTI

The idea of a price on carbon, Americans for Prosperity and Glenn Beck came down hard on that idea. Now he's gone after the proponents of it like Van Jones.

[0:52:34]

PHIL KERPEN

He saw in green jobs kind of the kernel of capitalism's destruction and I think Obama agrees with that.

JANA CARTER

At a certain point, I started getting Google alerts of Van. One day, there's like 30 that are just crazy then there like 50, and there is like 60, I mean it was just, you could see this kind of increase in chatter.

GLENN BECK

He's a former black nationalist. An avowed communist. He came out an anarchist and he is in the Obama administration.

FEMALE REPORTER

Today, republican congressman Mike Pence called on Jones to resign or for President Obama to fire this controversial Czar.

MALE REPORTER

Should he stay or should he go?

MALE REPORTER 2

Oh well there is no doubt he should go.

FEMALE REPORTER 2

I wonder if Obama has the guts to get rid of this guy.

[0:53:19]

JANA CARTER

And they're not about him really. They're about trying to find an in-road into attacking the administration.

[BABY CRYING]

[0:53:37]

VAN JONES

Before it was just Fox and now it's the mainstream as well. I think I should quit tonight.

JANA CARTER

I think you should listen to it before you make a decision. I'm just saying.

VAN JONES

Honey, this is going to be every day, worse and worse and worse. I don't see...

JANA CARTER

It has nothing to do with your job.

VAN JONES

The media has nothing to do with reality, but the people of the United States, will have all heard of Van Jones by the end of this month, and it won't be good. I mean this is a full on war against me. We would have to have everybody we know defending everything I've ever done, forever.

[0:54:33]

FEMALE NEWS REPORTER

The heat is on President Obama and his controversial Green Jobs Czar Van Jones. The question now, will Jones resign, be fired, or maybe actually survive this whole thing? Joining us now, here in Washington...

[0:54:57]

FEMALE NEWS REPORTER2

Van Jones resigned in a letter quote "opponents of reform have mounted a vicious smear campaign against me, they are using lies and distortions to distract and divide... I have been inundated with calls from across the political spectrum - urging me to 'stay and fight.' But I came here for others, not for myself."

VAN JONES

It was so devastating because you literally were one step away from opening the floodgates of private investment, new entrepreneurs, of new jobs. And the house passed a rules change but the Senate wouldn't even take a vote.

[0:55:40]

MALE NEWS REPORTER

In nearly 80 different countries around the globe, solar is as affordable as electricity from the grid.

WALLY JIANG

The sun is free to every country. So there is no end to the solar business. This must be a big market for the future. There's a huge market for the future.

MALE SPEAKER 44

There's a huge big market for the future.

WALLY JIANG

There is a big demand, especially for developing countries. Still some countries do not have a grid system. For solar, they do not need to build the grid. They just put solar on the roof. Then they can have light. Just like Johnny Appleseed. I spread my solar seeds worldwide.

[0:56:33]

WALLY JIANG

This year I've traveled to more than 30 countries.

WALLY JIANG
Hi Bonjour.

FRENCH MAN
Hi Bonjour. Nice to meet you.

WALLY JIANG
Bonjour, nice to meet you.

WALLY JIANG
We can charge in the daytime and once nighttime comes we have this sensor so this is working. For poor people, you can improve life. This is cool. Really.

FRENCH MAN
Kerosene is so bad for health. We are going to give light to 500 million Africans.

[0:57:05]
WALLY JIANG
Everyday, I see the sunset and sunrise in different countries. We live on the earth. The earth is one globe. It's a village. A global village.

[0:57:20]
WALLY JIANG
Wow, so beautiful here. Oh my god. I think more and more my dream will come true and more and more solar will be used. I think energy is just like love because many people need love. Many people need energy, especially need free energy.

[0:58:04]
PAUL MULDROW
Take him off the list.
Seven, eight, seven, seven.
I'm a solar installer and I'm out here for looking for work and I was wondering if you were hiring today?

FEMALE SPEAKER 19
You know, I believe we are looking for workers.
Let me see if our HR department is available right now.

PAUL MULDROW
Wow, I can't believe that's the first time they actually said yeah I think we are looking for people. I waited a year for that.

[0:58:34]

PAUL MULDROW
Good morning.

FEMALE SPEAKER 20
Paul.

PAUL MULDROW
Paul Muldrow,

FEMALE SPEAKER 20
Nice to meet you.

PAUL MULDROW
The reason I got into solar, I believe that's the future, I kind of missed the dot com so I'm kind of hopping this is the big boom it hasn't happened yet, maybe to you guys but not me.

FEMALE INTERVIEWER
What are you targeting as far as pay rate?

[0:58:52]

PAUL MULDROW
Ah, you know, It's whatever you guys are going to pay you know I mean I'm not going to try to go higher or lower. I'm ready to work, showing up ready to work whatever you tell me to do yeah.

[0:59:07]

JIGAR SHAH
All these people say, but I had an uncle who used to work at a manufacturing facility 40 years ago and he no longer has a job, and therefore I hate China. Right, I get it.

JIGAR SHAH
But when you look at a solar powered project only about a third of the cost of that is the actual solar panel. The other two thirds of the cost of that is design, installation, sales, marketing service which are all American jobs, 100% American jobs. You can't outsource those jobs to other places. If China actually drives the cost of solar prices down, then more solar is cost effective versus the electric utility industry and more Americans get jobs because more solar can be installed.

The thing that you learn from China is that solar can grow so fast. And so that means the government actually has to send real signals to the market place for an entrepreneur to thrive.

[1:00:00]

DANNY KENNEDY

We need, we're gonna do this like the moon shot kind of clarity, we're gonna go to the moon and back in a decade we're gonna re-wire America with clean energy in a decade. We in America need to make that call and go forward into the future like those other countries or we'll get left behind.

[1:00:29]

DEBBIE DOOLEY

Being pro solar aligns with conservative values because it's free market. It provides competition for these monopolies. There have been some that have said that those that support green energy are communist. Well I'm a right wing conservative. I have been called a lot of things, but I have never ever been called a communist.

DEBBIE DOOLEY

The Green Tea Coalition worked with Sierra Club and other environmental activists and guess what, we won this battle in addition to more solar being added so has more jobs. We don't have to wait on the gridlock in Washington DC. One state at a time we will win this revolution.

[1:01:31]

PAUL MULDROW

Grid alternatives, this non-profit organization, mounts free solar on low income people's homes. I kind of think it's funny that you know I haven't been able to get a job yet, but you know I'm getting solar on my house. This is a live wire.

I think I didn't make it because the demand's not there yet. But I got to tell you that putting solar on my house was the best decision ever.

Our electrical bill was eighty to ninety bucks a month, now its chopped down to about five bucks a month.

MAN WITH PAUL

Wow.

PAUL MULDROW

Cuz it's yours. You end up paying everybody every month and you get a low bill. Before we got solar I would always hear about the electrical bill, but its real low now. Right now my house is as green as it could be, and that all came from solar training

[1:02:50]

EDDIE WILTZ

The ten goes here?

MALE SPEAKER 50

Yeah and that's the first panel we're going to lay.

EDDIE WILTZ

Okay. I actually just got full time. I luckily interviewed with this company first, I sent them an email and they called me back in like 30 minutes, I had a job the next day. All the panels are connected to each other and it's just through the J box from the J box and it travels to the inverter. Boom, boom.

MALE SPEAKER 51

And boom, boom.

[1:03:20]

EDDIE WILTZ

I like installing in neighborhoods I'm familiar with and I grew up in and where I got family and friends. I actually installed these solar panels right up here. While I am at work I'm seeing people I know and they looking at me like, 'What you doing?' 'I am working man, that's what I'm doing.' That's it.

[1:03:45]

TIERRA ANDREWS

After a while I found myself making trips to come see him outside of class. I just kind of gradually moved in. (laughs)

EDDIE WILTZ

I want to provide a good situation for my girlfriend. My future family. With this career, I could be a project manager, engineer. I could help design systems; I hope to seize all of those opportunities.

[1:04:26]

VAN JONES

Tell David to tell my 4:45 caller to call me, closer to 5:00 that might be good, to give us enough time, but just - okay bye, but I'm ready now, thanks, bye.

By the time the real facts came out, I had already resigned. I don't know what my next steps are. And, you know, I made the choice that I made. I'll always second guess it, I'll always go back, I will always walk it through my mind, but nothing that has happened has reduced my faith and confidence in the final outcome, you know maybe I won't be in the White House doing it or whatever, but that wasn't my goal in the first place. My confidence always was in ordinary people.

[1:05:12]

JIGAR SHAH

What's so crazy about solar is that the fight can happen locally. That means people actually have to get involved locally. Like don't buy a

Prius for the love of God. Go to your local city council meeting, go to your local utility. Tell them you want clean energy. That's how things change and that's how you'll get a job.

PROTESTERS

Hey hey, ho ho, hydro-fracking's got to go.

VAN JONES

If you're waiting for Washington DC to act, you're going to be waiting for a long time. States, tribes, cities that's where the action is going to be. And who are they giving the microphone to? I'm not on the main stage talking. They're giving grass roots activists the floor. Because they're gonna be the ones to get it done.

[1:05:56]

FEMALE SPEAKER 16

I'm an Asian-American mother of kids with asthma from Oakland, California. We are front line Asian immigrant families who face fires from refineries year after year because Chevron is in our backyards. We're tired of waiting for the united nations to solve the climate problem.

[1:06:18]

VAN JONES

You can't stop this green movement, despite this collapse in Washington DC; you still have a green economy that's growing. We will have a global green economy. Close your eyes, go to sleep we'll freeze you cryogenically. When we thaw you out in 100 years we will have a green economy. This is the future of humanity, if we have a future, this is it.

[1:06:47]

FEMALE NEWS ANCHOR

In Paris this morning a potential land mark deal is being revealed on climate change after two weeks of talks. The agreement calls for almost 200 nations to reduce manmade emissions of green house gasses and would be legally binding.

FRANCOIS HOLLANDE

(speaking French)

The Paris accord is accepted!

MALE NEWS ANCHOR CBS

How significant is this deal, do you think?

INTERVIEWEE

Massive. For the first time ever we are on the verge of having an agreement that moves us out of carbon heavy emissions and into a future that thinks about alternative energies.

CNN NEWS GUEST

This is an incredibly ambitious plan that will completely remake the world economy if it's actually enacted.

DANNY KENNEDY

We need clarity and signals from above in policy, we need to create more businesses and fill more niches with this incredible american invention.

[1:07:39]

DANNY KENNEDY

The solar cell which is the heart of the machine will be deployed on awnings and tent-like materials. Windows will have translucent photovoltaics, they'll be façade materials for architects to create a beautiful aesthetic, as well as some electricity for the building. The cell phone will have a solar panel on the back of it, and you won't have to plug the thing in.

[1:08:09]

GARY

So now I'm hooked up to my solar electric power supply. So now I'm charging. It's all solar. Carbon free.

DAVID CRANE

You'll roll your electric car onto a mat and through inductive charging your car will charge overnight. The only way you can do that is gonna be by harnessing wind and the sun.

[1:08:34]

DANNY KENNEDY

In the United State the solar industry is less than 1% of electricity supply and we already employ 120,000 people. So when we're 10 to 20% electricity supply we'll be hundreds of thousands and millions of workers. We'll be one of the biggest employers in the country.

DAVID CRANE

United States and China are the two largest emitters of carbon in the atmosphere. If the US and China work together, that would be a game changer on this -- on the idea of global warming climate change.

PEGGY LIU

It doesn't just take one country to implement solar and deploy solar around the world, the world is completely interlinked. Bottom line, we have very little time left to get our act right. It's not the US and China at stake; the world is at stake.

[1:09:56]

WALLY JIANG

I love Texas. Total we have 210 acres of land. This side will be the training center. Because we need to train the people. That area my solar factory will be. This side will be the solar city. And we will build a hotel and convention center. More than 3000 people will be working here. This is my dream. Can you imagine it?

[MUSIC]