00:01:06:08 - 00:01:08:14

[Interviewer] Can you explain what you are doing?

00:01:08:14 - 00:01:11:14

This is a portable lamp.

00:01:11:15 - 00:01:13:15

A Solar LED lamp

00:01:16:01 - 00:01:19:01

Well this is what we did

00:01:19:19 - 00:01:22:14

in India.

00:01:22:14 - 00:01:25:14

I can put together this plate,

00:01:26:20 - 00:01:29:20

but since the batteries are already there.

00:01:31:09 - 00:01:32:14

With this lot,

00:01:32:14 - 00:01:35:14

this lamp charges

00:01:37:00 - 00:01:38:18

From the sunlight,

00:01:38:18 - 00:01:41:17

This one is 10 volts.

00:01:41:17 - 00:01:43:12

Yeah,

00:01:43:12 - 00:01:46:20

10 volts and 7 amperes

00:01:53:05 - 00:01:55:21

I,

00:01:55:21 - 00:01:58:21

From India I learned to assemble.

00:01:59:04 - 00:02:02:04

This is the plate of this lamp

00:02:03:17 - 00:02:06:17

that I can put together myself.

00:02:06:18 - 00:02:08:07

These are the components.

00:02:08:07 - 00:02:11:07

These are the components.

00:02:11:12 - 00:02:14:12

Yes, they are the components.

00:02:14:21 - 00:02:17:10

Here are the resistors.

00:02:17:10 - 00:02:20:00

These are resistors.

00:02:20:00 - 00:02:23:00

These are,

00:02:23:03 - 00:02:25:00

resistors.

00:02:25:00 - 00:02:27:14

These are the

00:02:27:14 - 00:02:29:06

AISI.

00:02:29:06 - 00:02:32:02

The diodes, the

00:02:32:02 - 00:02:35:01

capacitors that are diodes.

00:02:35:21 - 00:02:38:03

This is an offer .

00:02:38:03 - 00:02:41:05

This is a transformer, a capacitor.

00:02:42:11 - 00:02:44:19

This is another capacitor.

00:02:44:19 - 00:02:47:15

This is a

00:02:47:15 - 00:02:49:01

I knew this

00:02:49:01 - 00:02:50:23

and I learned that there.

00:02:50:23 - 00:02:53:23

These are the components of this plate.

00:02:54:07 - 00:02:56:11

I can put this together

00:02:56:11 - 00:02:59:11

and I have my book, through the book it was

00:03:00:07 - 00:03:03:07

that I learned to put together

00:03:03:19 - 00:03:05:18

each component.

00:03:05:18 - 00:03:08:18

If I don't set this up well, it doesn't turn on.

00:03:10:08 - 00:03:11:21

But through this

00:03:11:21 - 00:03:15:10

I repeated it every day, the teacher would tell us

00:03:17:23 - 00:03:20:23

that a resistance of

00:03:22:11 - 00:03:25:11

R22.

00:03:25:14 - 00:03:27:08

Well, they taught us colors

00:03:27:08 - 00:03:30:08

because resistors have colors.

00:03:30:21 - 00:03:33:21

The red, the yellow,

00:03:33:21 - 00:03:37:12

the black, the green because they have a voltage.

00:03:38:09 - 00:03:40:11

We do the math

00:03:40:11 - 00:03:42:17

through colors.

00:03:42:17 - 00:03:44:00

They taught us.

00:03:44:00 - 00:03:47:00

This is a 22k resistor

00:03:48:14 - 00:03:51:02

and I have to search

00:03:51:02 - 00:03:51:20

the little plate

00:03:51:20 - 00:03:54:19

It has its numbering where I have to

00:03:55:08 - 00:03:57:15

put.

00:03:57:15 - 00:03:58:22

Well,

00:03:58:22 - 00:04:02:14

This is a lamp plate.

00:04:02:18 - 00:04:03:15

It's this one here.

00:04:05:01 - 00:04:05:19

I can teach

00:04:05:19 - 00:04:09:03

the boys, just like they taught me and I didn’t know

00:04:10:03 - 00:04:13:15

what voltage, well voltage yes, because I learned

00:04:13:15 - 00:04:16:15

that the numbers, that we have to do the math,

00:04:17:13 - 00:04:18:06

the basics.

00:04:18:06 - 00:04:21:15

I didn't learn that quickly.

00:04:22:11 - 00:04:23:04

Yeah.

00:04:23:04 - 00:04:26:13

[Interviewer] So with each one of those you put them together for the other

00:04:26:13 - 00:04:28:00

[Interviewer] people from the community?

00:04:28:00 - 00:04:32:11

Yes, of course, because after the course they send us this.

00:04:33:03 - 00:04:36:13

The government has to finance the school

00:04:36:13 - 00:04:38:14

so they can send us the material

00:04:38:14 - 00:04:40:17

and to electrify the community.

00:04:40:17 - 00:04:43:17

“Barefoot school” (Barefoot College) in India,

00:04:43:17 - 00:04:47:18

and this is a PCB plate

00:04:48:14 - 00:04:51:14

of a control that is this one that is here.

00:04:52:23 - 00:04:55:05

This is how they gave it to us like this in India.

00:04:55:05 - 00:04:58:05

“Go set up!”

[Interviewer] Do they just send you that?

00:04:58:09 - 00:04:59:22

Yes, they give us this

00:04:59:22 - 00:05:02:02

back in India, that's what I did every day.

00:05:03:12 - 00:05:05:11

To set this up.

00:05:05:11 - 00:05:08:11

The components, they gave us the components, just like this.

00:05:09:01 - 00:05:12:12

[Interviewer] So it comes simple like this

00:05:12:23 - 00:05:14:19

[Interviewer] and you put everything together?

Yeah.

00:05:14:19 - 00:05:15:23

[Interviewer] From the beginning?

00:05:15:23 - 00:05:17:17

From the beginning, from scratch.

00:05:17:17 - 00:05:19:14

Just as it is.

00:05:19:14 - 00:05:22:14

There's the end.

00:05:23:03 - 00:05:26:03

Until it turns on.

00:05:26:10 - 00:05:28:17

This is a control, a loading control

00:05:28:17 - 00:05:32:01

which controls the charge from the solar to the battery so that

00:05:33:06 - 00:05:35:15

it keeps.

00:05:35:15 - 00:05:38:15

Yes, this is a 40 volt charge.

00:05:39:17 - 00:05:41:22

and 10 amperes.

00:05:41:22 - 00:05:43:22

Yeah

00:05:43:22 - 00:05:45:07

This

00:05:45:07 - 00:05:48:07

They asked us. “This name!”,

00:05:50:06 - 00:05:52:11

“This name!” said the teacher

00:05:52:11 - 00:05:54:22

and we repeated what he said first,

00:05:54:22 - 00:05:57:23

“PCB!” first repeated. “PCB!”

00:05:59:11 - 00:06:02:11

And he said “This name?” “PCB!”.

00:06:02:22 - 00:06:07:04

Okay, “Charge Controller!” meaning the control

00:06:09:22 - 00:06:11:04

Do you understand me that English? Or is that English?

00:06:12:07 - 00:06:13:25

[Interviewer] Yes, it is! (Laughs)

00:06:15:04 - 00:06:18:02

And that's how we learned it

00:06:18:02 - 00:06:21:02

“Charge Controller!” “This name?”

00:06:21:07 - 00:06:23:20

“PCB!”,

00:06:23:20 - 00:06:26:12

“This name?” “Charge Controller!”

00:06:27:11 - 00:06:30:13

and so then the components

00:06:31:14 - 00:06:34:14

aha, “This name?” in “resistance!”,

00:06:34:18 - 00:06:37:07

Oh, “resistance”

00:06:37:07 - 00:06:39:05

and so on.

00:06:39:05 - 00:06:42:05

We learned each one's name

00:06:42:18 - 00:06:45:13

“This name?” the teacher “This name!”

00:06:45:13 - 00:06:47:08

[Interviewer] Yes,

00:06:47:08 - 00:06:49:21

[Interviewer] In this organization, what is the importance

00:06:49:21 - 00:06:52:21

[Interviewer] that it is women who learn?

00:06:52:21 - 00:06:56:11

Well, it says at school because we are grandmothers,

00:06:56:11 - 00:06:59:11

and we stay in the community

00:07:00:06 - 00:07:03:14

teaching our children or our grandchildren

00:07:04:15 - 00:07:08:00

and that is why the importance of women is

00:07:08:16 - 00:07:11:16

because she is the one who is always in the community

00:07:12:17 - 00:07:15:07

and men don't, they leave,

00:07:15:07 - 00:07:18:05

“Men drink” they said.

00:07:18:05 - 00:07:21:02

That's why it's so important

00:07:21:02 - 00:07:23:08

Elder women,

00:07:23:08 - 00:07:26:07

because if they are young, they also go to the city.

00:07:26:15 - 00:07:30:01

On the other hand, the mothers are grandmothers, and they already stay at home.

00:07:30:23 - 00:07:31:18

That is the importance.

00:07:31:18 - 00:07:33:16

That's what they explained to us in India.

00:07:34:22 - 00:07:36:10

[Interviewer] Do you believe in that too?

00:07:36:10 - 00:07:39:02

Yes. Well, that is.

00:07:39:02 - 00:07:40:15

[Interviewer] And how does it work?

00:07:40:15 - 00:07:43:15

[Interviewer] the solar panel,

00:07:43:23 - 00:07:46:19

[Interviewer] goes through what regulator to charge the batteries?

00:07:46:19 - 00:07:48:10

[Interviewer] And then when can you use it?

00:07:48:10 - 00:07:51:09

Well, the regulator is this, that is,

00:07:52:12 - 00:07:53:10

is this.

00:07:53:10 - 00:07:58:00

This is the control that regulates the load

00:07:59:02 - 00:08:01:20

from solar to battery.

00:08:01:20 - 00:08:02:17

It keeps it.

00:08:02:17 - 00:08:06:06

It does not burn the battery, but it has already reached its cycle.

00:08:06:06 - 00:08:07:13

Ten years it’s ten years.

00:08:07:13 - 00:08:10:13

There are only five years of lifespan for a battery.

00:08:10:18 - 00:08:13:11

Time has passed,

00:08:13:11 - 00:08:17:02

but when this was given to the community the lights turned on.

00:08:17:09 - 00:08:18:14

Happy, happy.

00:08:18:14 - 00:08:21:14

What happiness!

00:08:21:15 - 00:08:24:07

This is the page

00:08:24:07 - 00:08:26:22

from the school.

00:08:26:22 - 00:08:28:22

You get in there

00:08:28:22 - 00:08:29:09

And that

00:08:29:09 - 00:08:31:12

when the community brought it to me

00:08:31:12 - 00:08:34:12

all this disassembled, burned.

00:08:34:15 - 00:08:34:23

Sure,

00:08:34:23 - 00:08:36:05

I have a spare

00:08:36:05 - 00:08:39:07

because they sent me spare parts from India and I can repair,

00:08:41:02 - 00:08:43:08

give them again.

00:08:43:08 - 00:08:46:14

But if they don't want to make the payment.

00:08:47:07 - 00:08:48:10

[Interviewer]Yes. What is the payment?

00:08:48:10 - 00:08:52:21

It's $5,000 pesos a month for maintenance.

00:08:53:14 - 00:08:58:04

If, for example, that battery or this one finished its cycle,

00:08:58:16 - 00:09:01:15

With that cash, with that money,

00:09:01:23 - 00:09:04:09

I can buy the battery,

00:09:04:09 - 00:09:06:23

Go back and turn on the lamp again.

00:09:09:10 - 00:09:12:16

But if the community does not collaborate

00:09:13:19 - 00:09:16:19

with the payment, which is $5,000 pesos per month.

00:09:17:12 - 00:09:20:16

I have told them they can kill a goat and

00:09:20:16 - 00:09:25:02

That goat makes $60,000 a year.

00:09:25:21 - 00:09:28:21

Yes, it's nothing.

00:09:31:02 - 00:09:35:00

[Interviewer] But they don't have the money for that, or they don't want to pay?

00:09:35:04 - 00:09:38:18

No, they do have.

00:09:40:06 - 00:09:42:21

But, with just a goat,

00:09:42:21 - 00:09:44:22

one goes and sells that goat,

00:09:44:22 - 00:09:49:00

And it’s 60, annually, it’s 60

00:09:51:03 - 00:09:52:17

[Interviewer] is that worth it?

00:09:52:17 - 00:09:54:12

Of course, or even more.

00:09:54:12 - 00:09:57:09

[Interviewer]and let's say,

00:09:57:09 - 00:09:59:15

[Interviewer] how to give them the importance,

00:09:59:15 - 00:10:01:09

[Interviewer] that is, make them realize the importance

00:10:01:09 - 00:10:02:12

[Interviewer] of electricity?

00:10:02:12 - 00:10:04:20

Right now they are suffering,

[Interviewer] They are?

00:10:04:20 - 00:10:07:17

Yes, they are feeling the suffering

00:10:07:17 - 00:10:10:17

because everyone is off.

00:10:11:04 - 00:10:11:14

Sure thing.

00:10:11:14 - 00:10:14:14

So how to give importance?, come back,

00:10:16:04 - 00:10:17:17

re-electrify.

00:10:17:17 - 00:10:20:23

oh well, fix this again

00:10:22:06 - 00:10:25:10

turn it back on and new batteries.

00:10:27:00 - 00:10:29:05

But here’s a thing,

00:10:29:05 - 00:10:31:08

pay for a year in

00:10:31:08 - 00:10:33:08

advanced, with that money

00:10:33:08 - 00:10:35:05

that which is going to be deposited in a bank.

00:10:35:05 - 00:10:37:13

It's not for me,

00:10:37:13 - 00:10:39:20

It's for the committee, because there is a committee.

00:10:39:20 - 00:10:42:20

I have an association called Azoperro,

00:10:45:06 - 00:10:46:10

I have the association.

00:10:46:10 - 00:10:48:16

[Interviewer] And with that association the money is managed?

00:10:48:16 - 00:10:51:16

It is managed, the money is put in

00:10:52:12 - 00:10:55:12

which is maintenance and which is not for me.

00:10:56:11 - 00:10:58:16

[Interviewer] And let's say, I see that you have there

00:10:59:21 - 00:11:01:08

[Interviewer] television?

00:11:01:08 - 00:11:04:07

Before it turned on.

[Interviewer] Did it turn on before?

00:11:04:15 - 00:11:07:20

It had Direct TV, it had wi -fi

00:11:09:12 - 00:11:11:11

Also my battery is already dead,

00:11:11:11 - 00:11:14:11

but I think and think about it a lot,

00:11:14:19 - 00:11:17:19

I have to replace it,

00:11:18:07 - 00:11:19:12

I'm going to replace it.

00:11:19:12 - 00:11:21:04

[Interviewer] and where do you get the materials for that?

00:11:21:04 - 00:11:23:02

There, there

00:11:23:02 - 00:11:25:05

It is also sold in Uribia.

00:11:25:05 - 00:11:28:13

That's worth it, it's worth like every battery from that big one

00:11:28:13 - 00:11:31:13

It's costing like a million pesos.

00:11:31:19 - 00:11:34:19

Umm , yes a million pesos.

00:11:35:10 - 00:11:37:18

There are three large batteries

00:11:37:18 - 00:11:41:03

so that I can turn my workshop back on, because sometimes

00:11:41:07 - 00:11:44:07

I start to repair,

00:11:44:18 - 00:11:46:07

I concentrate.

00:11:46:07 - 00:11:51:07

Yes, I have, I don't like knitting, I don't like knitting.

00:11:51:07 - 00:11:53:14

I don't like it, I don't have patience.

00:11:53:14 - 00:11:55:15

[Interviewer] Do you love electronics?

00:11:55:15 - 00:11:57:12

It's the one I like the most, it entertains me.

00:11:57:12 - 00:12:00:12

Yes, yes, I like it better.

00:12:01:00 - 00:12:03:20

[Interviewer] Let's say, a project, but it's not like

00:12:03:20 - 00:12:04:18

[Interviewer] individual, but

00:12:06:13 - 00:12:08:09

[Interviewer] solar panels, but much bigger

00:12:08:09 - 00:12:10:09

[Interviewer] to electrify

00:12:10:09 - 00:12:14:02

[Interviewer] everything, is that something you have thought about, thinking about how to make it bigger?

00:12:14:02 - 00:12:15:16

[Interviewer] Not like each house has its own,

00:12:15:16 - 00:12:19:04

[Interviewer] but to enlarge the project and make it like one?

00:12:19:08 - 00:12:22:08

They have done census here, they say...

00:12:22:17 - 00:12:25:05

that they are going to electrify

00:12:25:05 - 00:12:28:05

the entire Upper guajira with large solar panels,

00:12:29:04 - 00:12:33:03

to turn on a refrigerator, I don't know, but that takes a while.

00:12:33:03 - 00:12:36:03

That's what I'm waiting for. Hopefully.

00:12:36:12 - 00:12:39:12

[Interviewer] You can lead the project.

00:12:39:16 - 00:12:41:11

Yes, that's what they told me,

00:12:41:11 - 00:12:44:11

but I don't know how to wait.

00:12:44:14 - 00:12:47:14

The companies that are here, Helios.

00:12:50:09 - 00:12:51:05

[Interviewer] Tell us a little more

00:12:51:05 - 00:12:54:05

[Interviewer] from the school they want to open

00:12:54:07 - 00:12:56:17

[Interviewer] where they want you to be a teacher.

00:12:56:17 - 00:12:57:19

[Interviewer] What is it about?

00:12:57:19 - 00:13:00:19

That's there in Cabo de la Vela.

00:13:01:03 - 00:13:03:05

Well they want to do

00:13:03:05 - 00:13:05:17

that project there like in India,

00:13:05:17 - 00:13:08:13

that women learn to

00:13:08:13 - 00:13:13:12

repair their own equipment for maintenance,

00:13:13:12 - 00:13:16:06

because it is going to be electrified

00:13:16:06 - 00:13:19:06

in that area due to the wind zone.

00:13:19:06 - 00:13:21:12

That's what I understand.

00:13:21:12 - 00:13:23:13

They told me like this.

00:13:23:13 - 00:13:26:22

So they are going to hire me to teach. “This name?”

00:13:33:00 - 00:13:36:11

I don't know if they are going to bring the material from India, I don't know,

00:13:36:23 - 00:13:38:08

Until now, I don’t.

00:13:38:08 - 00:13:42:02

[Interviewer] But is it in association with them or do they want to do it separately?

00:13:42:13 - 00:13:45:13

Apart, yes apart.

00:13:46:06 - 00:13:47:10

They are on it,

00:13:47:10 - 00:13:50:10

They are already communicating with the school.

00:13:52:10 - 00:13:55:08

and they are going to bring a teacher from India

00:13:55:08 - 00:13:59:07

In order to reinforce.

[Interviewer] Sure to reinforce.

00:13:59:09 - 00:14:00:15

Yeah

00:14:00:15 - 00:14:02:22

[Interviewer] and let's say there are no initiatives for that here,

00:14:02:22 - 00:14:05:22

[Interviewer] I mean, like he's a teacher from here?

00:14:06:09 - 00:14:09:10

I don't know, I think so, of course, there must be,

00:14:10:09 - 00:14:12:14

but they want to bring it like in India.

00:14:12:14 - 00:14:14:12

Because do they learn like this

00:14:14:12 - 00:14:17:12

illiterate, semi-literate.

00:14:17:17 - 00:14:20:23

It is a strategy that they have to

00:14:21:15 - 00:14:24:15

learn.

00:14:27:09 - 00:14:28:23

[Interviewer] Are you

00:14:28:23 - 00:14:32:05

[Interviewer] an electrical engineer?

00:14:33:01 - 00:14:34:12

We set this up there.

00:14:35:13 - 00:14:36:13

[Interviewer] It's very impressive.

00:14:36:13 - 00:14:39:14

[Interviewer] I don't know about that, it seems very complicated.

00:14:39:15 - 00:14:40:12

Me too.

00:14:40:12 - 00:14:43:12

I said on the plane, what am I going to know about mathematics?

00:14:43:13 - 00:14:44:16

I did not know anything.

00:14:44:16 - 00:14:46:07

[Interviewer] But you learned to weld and everything.

00:14:46:07 - 00:14:47:13

Yes of course.

00:14:47:13 - 00:14:50:12

Here I do it, easily.

00:14:50:12 - 00:14:51:04

I weld.

00:14:51:04 - 00:14:52:18

I grab here and there.

00:14:52:18 - 00:14:53:00

This

00:14:53:00 - 00:14:56:00

So

00:14:56:00 - 00:14:59:15

I have practiced that already.

00:14:59:19 - 00:15:01:00

[Interviewer] and do you have the iron, the solder?

00:15:01:00 - 00:15:03:09

I have everything, everything, everything, everything, everything.

00:15:04:10 - 00:15:07:03

[Interviewer] And how could you weld if there is no power?

00:15:07:03 - 00:15:11:16

There isn’t because my batteries have already arrived to their lifespan too.

00:15:11:17 - 00:15:14:17

They no longer heat up during the cycle.

00:15:16:01 - 00:15:16:19

Yeah.

00:15:16:19 - 00:15:21:02

[Interviewer] Would receiving more batteries mean receiving that payment from the communities?

00:15:21:03 - 00:15:23:00

Yeah.

00:15:23:00 - 00:15:23:23

Yes of course.

00:15:23:23 - 00:15:26:23

They have to each one.

00:15:27:01 - 00:15:29:20

[Interviewer] It costs 1 million pesos every five years,

00:15:29:20 - 00:15:31:08

[Interviewer] well, you can surely save a million pesos in five years.

00:15:31:08 - 00:15:32:22

Yes of course.

00:15:32:22 - 00:15:36:00

[Interviewer] 75 communities, or people?

00:15:36:00 - 00:15:39:10

75 families, in Macuira too.

00:15:40:03 - 00:15:40:15

And here.

00:15:42:22 - 00:15:44:08

Yes, in Macuira.

00:15:44:08 - 00:15:45:00

[Interviewer] And can you pass us the book?

00:15:45:00 - 00:15:48:00

The book?

00:15:48:01 - 00:15:49:23

Is the same.

00:15:49:23 - 00:15:51:20

[Interviewer] Did you learn

00:15:51:20 - 00:15:53:15

[Interviewer] in English then?

00:15:53:15 - 00:15:56:15

No, I wish I learned English.

00:15:57:11 - 00:15:59:18

Here it is

00:15:59:18 - 00:16:02:16

I have all these tools, I have them all.

00:16:02:16 - 00:16:05:07

[Interviewer] Yes, but the book is not in Spanish.

00:16:05:07 - 00:16:07:22

No, I have brought translated

00:16:07:22 - 00:16:10:22

some when I had wifi, I started translating.

00:16:11:15 - 00:16:13:17

I translated some of them

00:16:13:17 - 00:16:15:23

because

00:16:15:23 - 00:16:20:00

I want to know what this is called in Spanish and I

00:16:20:00 - 00:16:23:11

I learned it was just (in English). Here are them all, the resistances,

00:16:24:15 - 00:16:26:15

of how many,

00:16:26:15 - 00:16:28:13

all these little things.

00:16:28:13 - 00:16:31:13

[Interviewers,

00:16:32:12 - 00:16:34:08

[Interviewer] let's say, since it was like 10 years ago,

00:16:34:08 - 00:16:36:01

[Interviewer] with the updates of technology,

00:16:36:01 - 00:16:38:15

[Interviewer] do you think there will be new ways to do it?

00:16:38:15 - 00:16:40:20

Ah, I think that already in India, at school,

00:16:40:20 - 00:16:42:02

I saw, I get in

00:16:42:02 - 00:16:45:04

always on the page, I see that they are more different.

00:16:45:08 - 00:16:47:21

Yes, they are back and lamp.

00:16:47:21 - 00:16:50:06

[Interviewer] Then you should get technical.

00:16:50:06 - 00:16:51:23

[Interviewer] Become even more expert.

Clear

00:16:53:00 - 00:16:56:00

That's what we want

00:16:56:04 - 00:16:57:23

[Interviewer] So we send you back to India?

00:16:57:23 - 00:17:00:14

Yeah,

00:17:00:14 - 00:17:02:07

or right here.

00:17:02:07 - 00:17:03:16

There’s no need.

00:17:03:16 - 00:17:08:03

[Interviewer] Is it possible right here?

Of course you can.

00:17:09:01 - 00:17:09:08

Look

00:17:09:08 - 00:17:12:00

the colors that I learned every day they taught us.

00:17:12:00 - 00:17:14:12

I said why do we learn that color, I already know black,

00:17:14:12 - 00:17:16:08

I already know the brown, I know the red.

00:17:16:08 - 00:17:19:19

We didn't understand why they taught us colors every day,

00:17:20:20 - 00:17:21:17

the numbers.

00:17:21:17 - 00:17:24:12

[Interviewer] Do you know how much a thousand volts is in colors?

00:17:24:12 - 00:17:26:13

thousand volts

00:17:26:13 - 00:17:32:05

It is a black and 000 that is the black, black, black.

00:17:33:02 - 00:17:37:04

[Interviewer] I took courses on this, I also know how to put them together,

00:17:37:16 - 00:17:40:20

[Interviewer] but then also the same thing.

00:17:40:20 - 00:17:43:09

[Interviewer]I knew them.

00:17:43:09 - 00:17:44:19

AHA. I said in India, for what?

00:17:44:19 - 00:17:46:05

If I already know the black,

00:17:46:05 - 00:17:49:05

I already know red and I know, we didn't understand, because

00:17:49:16 - 00:17:54:08

when they taught us resistance, Ah! It’s the resistance,

00:17:54:08 - 00:17:58:00

So this was not for the semi-literate either.

00:17:58:02 - 00:18:01:11

You also have to look at mathematics.

00:18:02:13 - 00:18:04:09

[Interviewer] Yes, but then they taught you…

00:18:04:09 - 00:18:07:09

Here and here, for example, one does the math, here it is.

00:18:08:05 - 00:18:10:13

[Interviewer] And did they teach you to draw then

00:18:10:13 - 00:18:12:21

[Interviewer] how much voltage is there?

00:18:12:21 - 00:18:16:01

[Interviewer] If there is that much voltage, how much resistance is there?

00:18:17:00 - 00:18:20:00

[Interviewer] like in math and like amperage times voltage.

00:18:20:09 - 00:18:22:12

Yes, but a little.

00:18:22:12 - 00:18:25:12

I learned those amperes.

00:18:26:00 - 00:18:26:23

Sure.

00:18:26:23 - 00:18:28:19

Here it is, go,

00:18:28:19 - 00:18:31:18

the volts, do the math.

00:18:31:18 - 00:18:34:18

I already learned this

00:18:35:15 - 00:18:37:10

and I said oh no,

00:18:37:10 - 00:18:40:10

because they said it was for illiterate people,

00:18:40:18 - 00:18:43:01

which is not so much for the illiterate,

00:18:43:01 - 00:18:46:01

I said when they showed me these numbers.

00:18:46:19 - 00:18:47:23

[Interviewer] But did you know how to read?

00:18:47:23 - 00:18:50:23

Of course, I am

00:18:51:06 - 00:18:54:06

high school.

00:18:55:21 - 00:18:58:21

[Interviewer]My grandmother has been in second grade.

00:18:59:15 - 00:19:02:15

There were women until they reached second grade.

00:19:03:19 - 00:19:05:02

and they learned.

00:19:05:02 - 00:19:08:02

[Interviewer] They learned hard but cool.

00:19:08:05 - 00:19:09:15

Yeah.

00:19:09:15 - 00:19:11:23

These are my teachers.

00:19:11:23 - 00:19:13:10

[Interviewer] Look how cute.

00:19:14:19 - 00:19:17:00

I knew all this.

00:19:17:00 - 00:19:20:00

This is Teacher Magan.

00:19:20:18 - 00:19:22:18

They dressed us as Hindu.

00:19:22:18 - 00:19:25:01

Yes, she does, she is very cool,

00:19:25:01 - 00:19:27:02

He lent us his things, he dressed us as Hindu.

00:19:27:02 - 00:19:30:02

I have photos of me dressed as Hindu.

00:19:31:14 - 00:19:34:14

These are the teachers.

00:19:35:01 - 00:19:36:11

This is a man who

00:19:36:11 - 00:19:39:11

uses crutches.

00:19:39:14 - 00:19:41:23

Yes Yes Yes.

00:19:41:23 - 00:19:44:23

Teacher Umán is cooler.

00:19:45:01 - 00:19:47:05

“Teacher, Problem?”

00:19:47:05 - 00:19:49:15

No.

00:19:49:15 - 00:19:50:13

No problem.

00:19:50:13 - 00:19:51:20

No problem , he told me.

00:19:51:20 - 00:19:54:19

With that, with that patience,

00:19:55:23 - 00:19:58:23

It was with him that we learned the most.

00:19:59:02 - 00:20:03:01

We said every day, women, “teacher problem!”.

00:20:03:18 - 00:20:06:07

I mean, as it is, I don't learn, I don't know.

00:20:06:07 - 00:20:09:07

And he said no problem , no problem .

00:20:09:23 - 00:20:10:18

He was so cool.

00:20:10:18 - 00:20:12:21

Him,

00:20:12:21 - 00:20:15:21

But more than all he and this one.

00:20:16:00 - 00:20:17:15

He,

00:20:17:15 - 00:20:19:15

who was my teacher too,

00:20:19:15 - 00:20:21:15

I think he is the one who is going to come.

00:20:21:15 - 00:20:24:21

Um , he was in Guatemala and has formed a school

00:20:24:21 - 00:20:27:02

in Guatemala with Rodrigo Paris.

00:20:28:16 - 00:20:30:19

[Interviewer] Do you know when he's coming or when it is?

00:20:30:19 - 00:20:32:13

When school is here, they told me.

00:20:32:13 - 00:20:35:13

[Interviewer] And who is organizing the school thing?

00:20:37:02 - 00:20:40:08

The People of Ipse .

00:20:42:06 - 00:20:45:08

That now with Petro and him

00:20:46:02 - 00:20:49:02

They are with Ecopetrol,

00:20:49:18 - 00:20:51:22

they are going to finance

00:20:51:22 - 00:20:54:11

and I think this is the one that's going to come.

00:20:54:11 - 00:20:56:20

I don't know,

00:20:56:20 - 00:20:59:20

He told me like this, all of these are teachers.

00:21:00:16 - 00:21:02:15

[Interviewer] This is a little different topic,

00:21:02:15 - 00:21:05:19

[Interviewer] but what changes have you seen in the environment?

00:21:05:20 - 00:21:06:20

Here?

[Interviewer] here.

00:21:06:20 - 00:21:09:20

Well, at the beginning there was a change, of course,

00:21:10:20 - 00:21:13:12

there was joy because

00:21:13:12 - 00:21:16:07

People could charge their cell phones.

00:21:16:07 - 00:21:19:07

The children studied at night, did homework,

00:21:20:12 - 00:21:21:10

I think they're back

00:21:21:10 - 00:21:24:09

the same as before and it makes me sad

00:21:24:09 - 00:21:25:00

sometimes.

00:21:25:00 - 00:21:27:20

That's when they invite me and say

00:21:27:20 - 00:21:31:04

What is the progress? how it moves forward if that is backwards

00:21:33:01 - 00:21:36:01

and it’s embarrassing for me to say that

00:21:36:08 - 00:21:37:03

[Interviewer] let's say

00:21:37:03 - 00:21:40:13

[Interviewer] because children study and that is not known

00:21:40:13 - 00:21:42:10

[Interviewer] have put in the effort to say well then

00:21:42:10 - 00:21:43:23

[Interviewer] is that they are no longer studying,

00:21:43:23 - 00:21:46:07

[Interviewer] I can't charge my cell phone anymore, like they haven't said how

00:21:46:07 - 00:21:49:17

[Interviewer] please take and buy me a battery, fix it .

00:21:51:23 - 00:21:54:05

No, nobody,

00:21:54:05 - 00:21:55:12

but that is the commitment.

00:21:55:12 - 00:21:58:17

If any organization arrives

00:21:59:12 - 00:22:02:12

to provide us with the battery, that's what I plan to do,

00:22:03:02 - 00:22:05:19

In other words, get the family involved

00:22:05:19 - 00:22:08:19

that has to advance

00:22:09:13 - 00:22:11:03

money

00:22:11:03 - 00:22:14:03

and we electrify them, if they don’t want to,

00:22:14:08 - 00:22:16:19

It is not electrified.

00:22:16:19 - 00:22:18:17

But is that

00:22:18:17 - 00:22:21:17

It is something very small, but it shines.

00:22:21:20 - 00:22:24:19

This little light shines a lot at night,

00:22:24:19 - 00:22:27:09

There are four for each family,

00:22:27:09 - 00:22:30:09

One here in the kitchen, on the bed inside

00:22:31:13 - 00:22:33:21

and lasts all night.

00:22:33:21 - 00:22:35:18

[Interviewer] And does it charge every day?

00:22:35:18 - 00:22:36:16

Every day.

00:22:40:15 - 00:22:41:06

This is the,

00:22:41:06 - 00:22:44:06

here it connects,

00:22:44:18 - 00:22:47:1

here we connect the,

00:22:48:03 - 00:22:51:03

we make the connection here,

00:22:51:15 - 00:22:54:07

here we connect,

00:22:54:07 - 00:22:56:13

We connect here.

00:22:56:13 - 00:22:59:13

This is the positive and negative.

00:23:25:06 - 00:23:26:23

Well then

00:23:26:23 - 00:23:29:22

here the panels are connected,

00:23:30:06 - 00:23:33:06

positive-negative solar panels

00:23:34:01 - 00:23:36:00

Battery.

00:23:36:00 - 00:23:36:21

We connect here.

00:23:36:21 - 00:23:39:21

This is for the lamps

00:23:40:00 - 00:23:41:17

in the four lamp.

00:23:41:17 - 00:23:45:01

[Interviewer] Have you never shorted by mistake?

00:23:45:07 - 00:23:46:04

[Interviewer] Didn't it short out or burn?

00:23:46:04 - 00:23:49:09

No, because you have to be very careful that one

00:23:49:09 - 00:23:52:23

do not connect the positive to the negative

00:23:53:01 - 00:23:57:08

If any of the resistors is shorted or burned

00:23:57:14 - 00:24:00:14

Ever

[Interviewer] And how do you know when they are burned?

00:24:00:19 - 00:24:03:03

With the,

00:24:03:03 - 00:24:06:03

with the... what's his name, the tester

00:24:06:08 - 00:24:08:12

[Interviewer] Oh, do you have a tester ?

Yes too.

00:24:08:12 - 00:24:09:21

[Interviewer] Do you have a multimeter too?

00:24:09:21 - 00:24:12:21

Yeah.

[Interviewer]You have everything.

00:24:13:07 - 00:24:15:19

With that I

00:24:15:19 - 00:24:18:15

I realize.

00:24:18:15 - 00:24:19:10

already.

00:24:19:10 - 00:24:21:03

Well.

00:24:21:03 - 00:24:22:16

Yeah.

00:24:22:16 - 00:24:25:16

That

00:24:28:20 - 00:24:30:10

I mean.

00:24:30:10 - 00:24:33:01

How is this connected here?

00:24:33:01 - 00:24:34:14

Oh, okay.

00:24:34:14 - 00:24:36:15

And how much do you know how to say it?

00:24:36:15 - 00:24:38:22

How he has control of it.

00:24:38:22 - 00:24:41:21

But do you know how charged they are or not?

00:24:42:06 - 00:24:45:20

Because here he has the little light when he shines.

00:24:46:01 - 00:24:46:19

AHA.

00:24:46:19 - 00:24:48:18

When it is green he is charging.

00:24:48:18 - 00:24:49:19

Good.

00:24:49:19 - 00:24:52:06

When it is red it means it is not charging.

00:24:53:12 - 00:24:53:21

to that.

00:24:53:21 - 00:24:58:04

You don't know if they are 100% at 50?

00:24:58:04 - 00:24:59:02

No.

00:24:59:02 - 00:25:01:03

It is not measured with the tester.

00:25:01:03 - 00:25:02:22

Oh okay, and he tells you how much?

00:25:02:22 - 00:25:03:17

Yes of course.

00:25:03:17 - 00:25:06:08

How much voltage does the battery have?

00:25:06:08 - 00:25:07:06

How much is the voltage?

00:25:07:06 - 00:25:10:06

Maximum 12. 12 and.

00:25:10:19 - 00:25:12:18

12.5?

00:25:12:18 - 00:25:15:02

No, ten is not carrying our load.

00:25:15:02 - 00:25:17:14

It has to be 12.5.

00:25:17:14 - 00:25:19:00

13 is fine.

00:25:19:00 - 00:25:20:22

Charge to be in English.

00:25:20:22 - 00:25:23:13

We have access. Very good.

00:25:23:13 - 00:25:25:06

Okay, yes.

00:25:25:06 - 00:25:27:18

Well

00:25:27:18 - 00:25:29:13

well, it is very lamp.

00:25:29:13 - 00:25:32:09

I hope they turn on again.

00:25:32:09 - 00:25:33:20

Before they did.

00:25:33:20 - 00:25:35:04

It's not very modern,

00:25:35:04 - 00:25:40:02

but it is something very, very necessary for the community.

00:25:40:02 - 00:25:46:10

It is very necessary because one can go to the neighbor at night

00:25:47:01 - 00:25:50:01

and he carries this in his hand, shining.

00:25:51:04 - 00:25:52:11

Look how we get to night.

00:25:52:11 - 00:25:55:11

All dark.

00:25:55:13 - 00:25:56:10

Total,

00:25:56:10 - 00:26:00:00

Yes, the light bulb is going to go out now.

00:26:00:02 - 00:26:02:16

Mmmmmmmmm well, it's working. Yeah,

00:26:04:13 - 00:26:07:10

It's like that, she already knows.

00:26:07:10 - 00:26:10:10

But you know, you learned it from my mom?

00:26:11:07 - 00:26:14:11

That is, I had six months in a school in the summer.

00:26:15:03 - 00:26:18:03

Yes, she, you know, she's a helper.

00:26:19:06 - 00:26:19:20

There you go.

00:26:19:20 - 00:26:22:20

There. Wait please.

00:26:23:03 - 00:26:23:17

Oh.

00:26:23:17 - 00:26:26:17

What if you already

00:26:27:17 - 00:26:30:16

You know, all the components of putting it together and so on.

00:26:31:02 - 00:26:33:19

Ahhhh

00:26:33:19 - 00:26:36:19

and

00:26:36:22 - 00:26:37:19

that we must move forward

00:26:37:19 - 00:26:40:19

but don't do it because it's not easy, quite

00:26:40:20 - 00:26:43:18

easy, though.

00:26:43:18 - 00:26:44:08

That's how it is.

00:26:44:08 - 00:26:47:14

There is also a lot about passing on knowledge.

00:26:48:22 - 00:26:51:05

The generation.

00:26:51:05 - 00:26:54:05

Yes to the one I'm missing in the living room.

00:26:54:14 - 00:26:56:01

No

00:26:56:01 - 00:26:58:18

here is the free room.

00:26:58:18 - 00:26:59:17

But you know.

00:26:59:17 - 00:27:02:17

concentration is needed

00:27:03:04 - 00:27:04:12

because it also comes

00:27:04:12 - 00:27:07:12

many people here visiting and

00:27:08:05 - 00:27:10:02

It's already driving me out of control.

00:27:10:02 - 00:27:11:06

Clear.

00:27:11:06 - 00:27:14:08

Because that is a concentration, it is closed in 1/4,

00:27:15:18 - 00:27:17:05

No

00:27:17:05 - 00:27:18:07

change the row.

00:27:18:07 - 00:27:20:11

The women are concentrated from there because they don't

00:27:20:11 - 00:27:22:02

They don't know how to cook or anything.

00:27:23:05 - 00:27:25:14

Oh, sure, yes.

00:27:25:14 - 00:27:28:13

Pure class, pure class

00:27:28:13 - 00:27:31:13

from 8 to 12 and from 2 to 5.

00:27:32:00 - 00:27:35:00

Every day in the afternoon.

00:27:35:10 - 00:27:38:10

So we got up at eight.

00:27:38:15 - 00:27:41:06

Yes Yes.

00:27:41:06 - 00:27:44:00

And concentrated there because

00:27:44:00 - 00:27:47:00

We no longer thought about children, nor about

00:27:47:07 - 00:27:50:05

not even in the goats,

00:27:50:05 - 00:27:53:01

like it says in the book.

00:27:53:01 - 00:27:56:01

We had to forget about the goats of the

00:27:56:01 - 00:27:56:06

I.

00:27:56:06 - 00:27:59:06

Did you ask

00:27:59:14 - 00:28:02:14

Was Oscar O Car left here alone?

00:28:04:05 - 00:28:05:06

Yes how are you.

00:28:05:06 - 00:28:05:19

Excellent.

00:28:05:19 - 00:28:07:13

You know everything is fine, he said.

00:28:07:13 - 00:28:09:18

He never said it was wrong.

00:28:09:18 - 00:28:12:18

Oh, of course, and everything is fine, he said.

00:28:13:01 - 00:28:15:12

He sits.

00:28:15:12 - 00:28:18:05

And there I was, that from and Venezuela

00:28:18:05 - 00:28:21:04

and he didn't want to leave them alone here.

00:28:23:18 - 00:28:24:18

With the other family.

00:28:24:18 - 00:28:26:20

There, yes, with my sister.

00:28:26:20 - 00:28:29:20

Sure, but very bi

00:28:30:00 - 00:28:33:00

AND

00:31:39:13 - 00:31:42:13

Well.

00:32:55:11 - 00:32:57:22

Wow, complicated.

00:32:57:22 - 00:32:59:17

But you know. It. What is

00:33:08:15 - 00:33:11:15

in sight,

00:33:39:05 - 00:33:39:14

No?

00:33:39:14 - 00:33:41:06

Well, barely.

00:33:41:06 - 00:33:42:21

If I ask him outside.

00:33:42:21 - 00:33:45:21

Yeah.

00:33:47:14 - 00:33:49:14

And he learned that whole book.

00:33:49:14 - 00:33:52:14

Of course, I

00:33:57:18 - 00:33:59:16

I say of course, it is.