

WEBVTT

Kind: captions

Language: en

00:00:00.560 --> 00:00:03.350 align:start position:0%

invented<00:00:01.040> by<00:00:01.199> exer<00:00:01.959> power<00:00:02.280>
foil<00:00:02.639> is<00:00:02.760> an<00:00:02.960> energy

00:00:03.350 --> 00:00:03.360 align:start position:0%

invented by exer power foil is an energy

00:00:03.360 --> 00:00:05.150 align:start position:0%

invented by exer power foil is an energy

source<00:00:03.760> directly<00:00:04.279> integrated<00:00:04.880> into

00:00:05.150 --> 00:00:05.160 align:start position:0%

source directly integrated into

00:00:05.160 --> 00:00:07.509 align:start position:0%

source directly integrated into

electronic<00:00:05.799> products<00:00:06.160> to<00:00:06.359> power<00:00:06.680>
them<00:00:06.839> with

00:00:07.509 --> 00:00:07.519 align:start position:0%

electronic products to power them with

00:00:07.519 --> 00:00:10.589 align:start position:0%

electronic products to power them with

light<00:00:08.519> this<00:00:08.639> is<00:00:08.800> how<00:00:08.920> it<00:00:09.120>
works<00:00:09.920> inspired<00:00:10.400> by

00:00:10.589 --> 00:00:10.599 align:start position:0%

light this is how it works inspired by

00:00:10.599 --> 00:00:13.070 align:start position:0%

light this is how it works inspired by

Nature<00:00:11.400> the<00:00:11.559> D<00:00:11.880> sensitized<00:00:12.400>
solar<00:00:12.719> cell

00:00:13.070 --> 00:00:13.080 align:start position:0%

Nature the D sensitized solar cell

00:00:13.080 --> 00:00:15.990 align:start position:0%

Nature the D sensitized solar cell

mimics<00:00:13.839> photosynthesis<00:00:14.839> by<00:00:15.000> using<00:00:15.320> dce<00:00:15.759> to

00:00:15.990 --> 00:00:16.000 align:start position:0%

mimics photosynthesis by using dce to

00:00:16.000 --> 00:00:17.990 align:start position:0%

mimics photosynthesis by using dce to

convert<00:00:16.400> both<00:00:16.640> indoor<00:00:17.039> and<00:00:17.199> outdoor<00:00:17.640> light

00:00:17.990 --> 00:00:18.000 align:start position:0%

convert both indoor and outdoor light

00:00:18.000 --> 00:00:21.070 align:start position:0%

convert both indoor and outdoor light

into<00:00:18.320> electricity<00:00:19.279> in<00:00:19.480> 2010<00:00:20.359> we<00:00:20.519> invented<00:00:20.920> a

00:00:21.070 --> 00:00:21.080 align:start position:0%

into electricity in 2010 we invented a

00:00:21.080 --> 00:00:23.150 align:start position:0%

into electricity in 2010 we invented a

new<00:00:21.359> material<00:00:21.960> with<00:00:22.160> Thousand<00:00:22.560> Times<00:00:22.880> Higher

00:00:23.150 --> 00:00:23.160 align:start position:0%

new material with Thousand Times Higher

00:00:23.160 --> 00:00:25.390 align:start position:0%

new material with Thousand Times Higher

connectivity<00:00:24.160> than<00:00:24.320> the<00:00:24.439> electrode<00:00:24.920> material

00:00:25.390 --> 00:00:25.400 align:start position:0%

connectivity than the electrode material

00:00:25.400 --> 00:00:28.349 align:start position:0%

connectivity than the electrode material

used<00:00:25.880> in<00:00:26.080> flexible<00:00:26.560> solar<00:00:26.960> self<00:00:27.960> that's<00:00:28.240> how

00:00:28.349 --> 00:00:28.359 align:start position:0%

used in flexible solar self that's how

00:00:28.359 --> 00:00:30.830 align:start position:0%

used in flexible solar self that's how

we<00:00:28.519> can<00:00:28.760> create<00:00:29.160> beautiful<00:00:29.560>
solar<00:00:30.039> El<00:00:30.400> in<00:00:30.560> any

00:00:30.830 --> 00:00:30.840 align:start position:0%

we can create beautiful solar El in any

00:00:30.840 --> 00:00:33.830 align:start position:0%

we can create beautiful solar El in any

shape<00:00:31.560> without<00:00:31.800> the<00:00:31.960> need<00:00:32.200>
for<00:00:32.399> current

00:00:33.830 --> 00:00:33.840 align:start position:0%

shape without the need for current

00:00:33.840 --> 00:00:37.549 align:start position:0%

shape without the need for current

collectors<00:00:34.840> two<00:00:35.079> main<00:00:35.360> advantages<00:00:36.079>
of<00:00:36.559> power

00:00:37.549 --> 00:00:37.559 align:start position:0%

collectors two main advantages of power

00:00:37.559 --> 00:00:41.830 align:start position:0%

collectors two main advantages of power

one<00:00:37.800> is<00:00:38.719> can<00:00:38.920> be<00:00:39.079> made

00:00:41.830 --> 00:00:41.840 align:start position:0%

00:00:41.840 --> 00:00:45.549 align:start position:0%

flexible<00:00:42.840> we<00:00:43.120> have<00:00:43.280> to<00:00:43.800>
use<00:00:44.200> class<00:00:45.200> with<00:00:45.360> a

00:00:45.549 --> 00:00:45.559 align:start position:0%

flexible we have to use class with a

00:00:45.559 --> 00:00:48.830 align:start position:0%

flexible we have to use class with a

conducting<00:00:46.559> oxideon<00:00:47.559> that's<00:00:47.920>
expensive<00:00:48.600> it

00:00:48.830 --> 00:00:48.840 align:start position:0%

conducting oxideon that's expensive it

00:00:48.840 --> 00:00:52.990 align:start position:0%

conducting oxideon that's expensive it

breaks<00:00:49.840> we<00:00:49.960> didn't<00:00:50.239> believe<00:00:50.960>
in<00:00:51.399> this<00:00:52.399> uh

00:00:52.990 --> 00:00:53.000 align:start position:0%

breaks we didn't believe in this uh

00:00:53.000 --> 00:00:56.270 align:start position:0%

breaks we didn't believe in this uh

invention<00:00:53.520> first<00:00:54.079> but<00:00:54.239> then<00:00:54.600>
uh<00:00:55.079> H<00:00:55.559> said

00:00:56.270 --> 00:00:56.280 align:start position:0%

invention first but then uh H said

00:00:56.280 --> 00:00:58.549 align:start position:0%

invention first but then uh H said

you're<00:00:56.559> giving<00:00:56.920> you<00:00:57.440> samples<00:00:57.920>
you<00:00:58.079> test<00:00:58.359> them

00:00:58.549 --> 00:00:58.559 align:start position:0%

you're giving you samples you test them

00:00:58.559 --> 00:01:00.910 align:start position:0%

you're giving you samples you test them

and<00:00:58.680> you<00:00:58.920> you<00:00:59.079> write<00:00:59.280> a<00:00:59.440>
report

00:01:00.910 --> 00:01:00.920 align:start position:0%

and you you write a report

00:01:00.920 --> 00:01:03.869 align:start position:0%

and you you write a report

we<00:01:01.120> did<00:01:01.399> we<00:01:01.559> were<00:01:01.920>
amazed<00:01:02.480> how<00:01:02.680> well<00:01:02.879> it<00:01:03.039> worked

00:01:03.869 --> 00:01:03.879 align:start position:0%

we did we were amazed how well it worked

00:01:03.879 --> 00:01:06.230 align:start position:0%

we did we were amazed how well it worked

by<00:01:04.080> optimizing<00:01:04.680> the<00:01:04.799> light<00:01:05.080>
absorbing<00:01:05.600> Dy<00:01:06.119> and

00:01:06.230 --> 00:01:06.240 align:start position:0%

by optimizing the light absorbing Dy and

00:01:06.240 --> 00:01:08.429 align:start position:0%

by optimizing the light absorbing Dy and

the<00:01:06.360> electrolyte<00:01:07.080> together<00:01:07.320> in<00:01:07.439>

the<00:01:07.560> cell<00:01:08.320> we

00:01:08.429 --> 00:01:08.439 align:start position:0%

the electrolyte together in the cell we

00:01:08.439 --> 00:01:10.310 align:start position:0%

the electrolyte together in the cell we

can<00:01:08.720> choose<00:01:09.280> what<00:01:09.479> part<00:01:09.720>

of<00:01:09.840> the<00:01:09.960> large

00:01:10.310 --> 00:01:10.320 align:start position:0%

can choose what part of the large

00:01:10.320 --> 00:01:12.429 align:start position:0%

can choose what part of the large

Spectrum<00:01:11.000> powerfall<00:01:11.600> will<00:01:11.799> excel<00:01:12.200> at

00:01:12.429 --> 00:01:12.439 align:start position:0%

Spectrum powerfall will excel at

00:01:12.439 --> 00:01:14.550 align:start position:0%

Spectrum powerfall will excel at

converting<00:01:12.880> to<00:01:13.200> electricity<00:01:14.200> with<00:01:14.400> this

00:01:14.550 --> 00:01:14.560 align:start position:0%

converting to electricity with this

00:01:14.560 --> 00:01:16.789 align:start position:0%

converting to electricity with this

Innovation<00:01:15.439> we<00:01:15.600> can<00:01:15.799> manufacture<00:01:16.479>
solar

00:01:16.789 --> 00:01:16.799 align:start position:0%

Innovation we can manufacture solar

00:01:16.799 --> 00:01:18.749 align:start position:0%

Innovation we can manufacture solar

cells<00:01:17.240> which<00:01:17.400> produce<00:01:17.759> clean<00:01:18.200> energy

00:01:18.749 --> 00:01:18.759 align:start position:0%

cells which produce clean energy

00:01:18.759 --> 00:01:21.149 align:start position:0%

cells which produce clean energy

efficiently<00:01:19.600> in<00:01:19.759> a<00:01:19.960> wide<00:01:20.240>
variety<00:01:20.600> of<00:01:20.720> light

00:01:21.149 --> 00:01:21.159 align:start position:0%

efficiently in a wide variety of light

00:01:21.159 --> 00:01:24.109 align:start position:0%

efficiently in a wide variety of light

conditions<00:01:21.600> to<00:01:21.799> match<00:01:22.119> the<00:01:22.240>
needs<00:01:22.520> of<00:01:23.119> users

00:01:24.109 --> 00:01:24.119 align:start position:0%

conditions to match the needs of users

00:01:24.119 --> 00:01:26.230 align:start position:0%

conditions to match the needs of users

power<00:01:24.439> foil<00:01:24.920> has<00:01:25.079> been<00:01:25.360>
engineered<00:01:25.960> for

00:01:26.230 --> 00:01:26.240 align:start position:0%

power foil has been engineered for

00:01:26.240 --> 00:01:29.510 align:start position:0%

power foil has been engineered for

Humanity<00:01:27.240> to<00:01:27.479> work<00:01:28.000> wherever<00:01:28.520>
people<00:01:28.840> are

00:01:29.510 --> 00:01:29.520 align:start position:0%

Humanity to work wherever people are

00:01:29.520 --> 00:01:33.109 align:start position:0%

Humanity to work wherever people are

since<00:01:29.920> founding<00:01:30.320> in<00:01:30.880> 2009<00:01:31.880>
exer<00:01:32.560> has<00:01:32.759> invented

00:01:33.109 --> 00:01:33.119 align:start position:0%

since founding in 2009 exer has invented

00:01:33.119 --> 00:01:35.830 align:start position:0%

since founding in 2009 exer has invented

a<00:01:33.280> new<00:01:33.479> solar<00:01:33.799> cell<00:01:34.159>
technology<00:01:35.159> built<00:01:35.479> two

00:01:35.830 --> 00:01:35.840 align:start position:0%

a new solar cell technology built two

00:01:35.840 --> 00:01:37.950 align:start position:0%

a new solar cell technology built two

factories<00:01:36.439> to<00:01:36.680> manufacture<00:01:37.240> for<00:01:37.399>
a<00:01:37.520> global

00:01:37.950 --> 00:01:37.960 align:start position:0%

factories to manufacture for a global

00:01:37.960 --> 00:01:40.469 align:start position:0%

factories to manufacture for a global

market<00:01:38.680> and<00:01:38.840> we<00:01:39.040> continuously<00:01:39.759>
innovate<00:01:40.240> on

00:01:40.469 --> 00:01:40.479 align:start position:0%

market and we continuously innovate on

00:01:40.479 --> 00:01:43.230 align:start position:0%

market and we continuously innovate on

all<00:01:40.840> aspects<00:01:41.200> of<00:01:41.360> power<00:01:41.640>
foil<00:01:42.640> with<00:01:42.799> leading

00:01:43.230 --> 00:01:43.240 align:start position:0%

all aspects of power foil with leading

00:01:43.240 --> 00:01:45.469 align:start position:0%

all aspects of power foil with leading

researchers<00:01:43.960> from<00:01:44.159> around<00:01:44.520> the<00:01:44.640>
world<00:01:45.320> and

00:01:45.469 --> 00:01:45.479 align:start position:0%

researchers from around the world and

00:01:45.479 --> 00:01:48.709 align:start position:0%

researchers from around the world and

over<00:01:45.759> 250<00:01:46.759> patents<00:01:47.719> Innovation<00:01:48.280>
is<00:01:48.439> at<00:01:48.600> the

00:01:48.709 --> 00:01:48.719 align:start position:0%

over 250 patents Innovation is at the

00:01:48.719 --> 00:01:51.030 align:start position:0%

over 250 patents Innovation is at the

heart<00:01:48.960> of<00:01:49.119> exure<00:01:49.960> and<00:01:50.119>
power<00:01:50.439> foil<00:01:50.840> will

00:01:51.030 --> 00:01:51.040 align:start position:0%

heart of exure and power foil will

00:01:51.040 --> 00:01:52.950 align:start position:0%

heart of exure and power foil will

continue<00:01:51.399> to<00:01:51.560> be<00:01:51.719> the<00:01:51.840>
most<00:01:52.119> versatile

00:01:52.950 --> 00:01:52.960 align:start position:0%

continue to be the most versatile

00:01:52.960 --> 00:01:55.230 align:start position:0%

continue to be the most versatile

durable<00:01:53.880> and<00:01:54.079> environmentally<00:01:54.680> friendly

00:01:55.230 --> 00:01:55.240 align:start position:0%

durable and environmentally friendly

00:01:55.240 --> 00:01:59.200 align:start position:0%

durable and environmentally friendly

solar<00:01:55.560> cell<00:01:55.920> on<00:01:56.079> the<00:01:56.200> market