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00:41:38 Alaa Mohd: Greetings from Frankfurt Germany
           Scott Hoppe: Scott with Sabreez in Newburyport,
00:41:50
Massachusetts
00:42:02
         Kuzeyhan Ozdemir: Good morning from Washington DC.
00:42:05
           Aaron Proujansky: Hello from Ithaca, NY!
00:42:13 Cassie Coravos: Hi everyone! I'm Cassie —calling in from
Detroit!
00:42:14 Juan Bravin:
                             Warm regards from Mendoza, Argentina
00:42:41 Ali-Planete Greenleaves:
                                         Hello from Montreal, Canada
00:43:01 Ryan Hoover (CTO): <a href="https://www.bit.ly/cto2021gf">www.bit.ly/cto2021gf</a>
00:43:22 Ryan Hoover (CTO): https://www.bit.lv/cto2021gf
00:43:46 Daniel Karpf:
                            Hello from C. E, CENTURY ENTERPRISES
00:48:46 Beth Zonis (CTO):Here's the link to the microsite with lots of
information! <a href="https://www.bit.lv/cto2021qf">www.bit.lv/cto2021qf</a>
00:49:01 Beth Zonis (CTO): <a href="http://bit.ly/cto2021gf">http://bit.ly/cto2021gf</a>
00:53:25 Amy Perlmutter: Greetings from Cambridge Massachusetts!
00:53:59 Richard Fennelly: Greetings from northern Wetchester County,
NY.
00:55:35 Scott Hoppe:
                           Oh yeah. I want this.
00:59:01 Cindi Thompson: Very cool
00:59:27 Ken Hayes (CTO HQ): All - if you have questions of Revamp
Moto, please put in this chat. <a href="http://www.revampmoto.in/">http://www.revampmoto.in/</a>
00:59:37 Brian Bauer:
                            The VW Thing of electric bikes
           Rajesh Solanki: What is your distribution strategy for B2C
01:08:04
especially? How will you compete with tmore visible and known brands like
Hero, Bajaj, Ola and others
01:15:48
         Beth Zonis (CTO): Any other questions?
01:16:10 Raj, Energos Inc.:
                                   thx
01:20:30 Richard Fu/Agrivolution: I see a big problem with the whole
global EV push. Lithium is a finite resource. How are we going to deal
with electrification when the reserves are gone? The Li price in 2012 was
$4,212 per metric ton. In 2018, it was $16,500 per metric ton.
         Beth Zonis (CTO): Richard, One of our 2021 finalists, Princeton
01:21:57
NuEnergy has a solution for that! They're recycling li-ion batteries!
           Richard Fu/Agrivolution:
                                       Hi Beth. Yes, it is great. But, as
I understood from their presentation, they are focusing on the cathode
materials (Ni, Co). Is there anyone recycling Li?
         Beth Zonis (CTO): Richard, That's a question for Chao! He has
been researching this.
01:25:21 Ken Hayes (CTO HQ): Presenting now: CIRCUL'EGG:
https://circulegg.fr/
01:25:42 Eric Douglas: What is the timeline for availability in the
US?
         Yifei Wang: Richard, Chao said the current cost benefit
analysis of Li doesn't make economic sense still. There needs to be a
breakthrough in technology there. Lithium is still relatively cheap
compared to cobalt and nickel
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01:25:55 Amy Perlmutter: I love the CIRCUL'EGG, great idea. But is there any concern that this is helping to improve the economics of agribusiness that doesn't treat chickens well?
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01:27:16 Beth Zonis (CTO): Thank you for your questions about the startups that are pitching!

01:28:29 Beth Zonis (CTO): Thank you, Yifei! Sounds like we need policies to incentivize reduction of li-ion disposal.

01:35:41 Scott Witt: What are the current prices for these materials in the market? Can the firm charge premium prices based on their differentiators?

01:36:00 Yuwei Bai: Since you have several different directions to go, which one would you focus on? or which one has a bigger market share? 01:36:42 alec massé: Hi Justine, splendid presentation. I was wondering if you could further touch on the adhesive and paper manufacturing industries. What benefit can repurposed egg shell bring to those markets? 01:38:09 Chuck Digate: Congratulations on a great idea and your progress to date. What are your plans to penetrate other markets such as the USA?

01:41:52 Thomas BRUNO: Congratulations Justine!

01:45:17 Ken Hayes (CTO HQ): Presenting now: Earthchain <a href="https://www.earthchain.ch/">https://www.earthchain.ch/</a>

01:52:50 Chloe Soroquere: Tres bonne présentation, Justine! Felicitations.

Deborah Knuckey: Curious how this works for charges from 01:54:20 retailers that sell a wide range of things - e.g. a \$100 charge from Target. Could be electronics, plastic bags or organic food. Suchit Kulkarni: How carbon scoring engine is going to handle scope 3 emissions for different products? And uncertainties associated with varying upstream/downstream supply chains even for same product? Earthchain - Dan Graf: @Deborah Knuckey: "Curious how this 02:11:32 works for charges from retailers that sell a wide range of things - e.g. a \$100 charge from Target. Could be electronics, plastic bags or organic food." - the way Doconomy and others do it only uses Merchant Category Code and financial amount, which gives a rather fuzzy estimate but which I still think has some value. You're right though, at that level you can't discriminate between \$50 of carrots from \$50 of air-freighted Argentinian beef. For that reason, our real focus is retail where the Level 3 data lives - the line items and for e-commerce, the shipping. We'll soon release plugins to the major e-commerce storefronts to get that in place in an "easy" way. We are then approaching retailers, terminal vendors and acquiring institutions to target that side of the payments space.

02:14:17 Deborah Knuckey: Thanks

02:14:22 Scott Witt: Loick is a God in Sailing

02:14:30 Earthchain - Dan Graf: @Suchit Kulkarni - "How carbon scoring engine is going to handle scope 3 emissions for different products? And uncertainties associated with varying upstream/downstream supply chains even for same product?" - when we work on the retail side, we start with a

matrix of product characteristics we can obtain from stock inventories that refine our scores, and modifying co-efficients which allow us to tweak based on an individual retailers other sustainability credentials. Our aim is to automate with the matrix, then refine with subject matter expertise over time. I'm not gonna specifically say "AI" here but that may also be employed to a certain extent to help refine estimates in some areas.

- 02:16:10 Scott Witt: And then use it for the LA Olympics
- 02:17:46 Suchit Kulkarni: Thank you. All the best @Dan
- 02:18:22 Ken Hayes (CTO HQ): Company presenting now: FinX -

## https://finxmotors.com/

- 02:22:44 Beth Zonis (CTO): Any questions for FinX?
- 02:24:55 Scott Witt: IF the propulsion unit is immersed in sea water for long periods of time, how will it respond to marine life that likes to grow on surfaces?
- 02:26:55 Yifei Wang: are there any publications about the science behind this propulsion system?
- 02:29:37 Talley Cain (CTO): <a href="http://bit.ly/cto2021gf">http://bit.ly/cto2021gf</a>
- 02:32:14 Beth Zonis (CTO): Thank you to the audience for your active participation!
- 02:34:34 Earthchain Dan Graf: Regarding the question about IP, if anyone can recommend a good US attorney who can represent us (UK based) to file on USPTO we'd be really interested for the US we do want to register trademarks and perhaps that's an opportunity where we can get the advice as I referred to in my answer
- 02:39:53 Revamp Moto Jayesh Tope: How is the purity of hydrogen maintained, Since impurities will add to emission of sodium or potassium? Also how is the pressure generated to store hydrogen efficiently?
- 02:40:50 Revamp Moto Jayesh Tope: Please provide information on volumetric efficiency.
- 02:43:27 Richard Fu/Agrivolution: @SYLFEN The efficiency should be compared against HHV instead of LHV. But, more importantly, how are you obtaining the heat required to operate it? I assume the thermal requirement is not taken into the efficiency reported.
- 02:58:24 SYLFEN Nicolas Bardi: Answer to Revamp Moto: we work with a high temperature solid state technology: so there is no sodium or potassium impurities. A risk exist on the air side, which we need to protect with a ceramic coating. The storage needs compression. Today we do it with quite classical hydrogen compressors. But if someone has a more efficient electrochemical compression device (or other better technology) we'd be glad to use it!
- 03:00:25 Cindi Thompson: yikes
- 03:07:59 Deborah Knuckey: Can the growth medium be used for other cell-cultured food, e.g. Gourmey's lab-grown fois gras or Just's lab-grown chicken?
- 03:13:07 J-J.A. Colantonio: great name/brand, btw
- 03:14:21 Jessica Smothermon (CTO HQ): Yes!

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Bud Dunbar: the problem with natural fish farms is that they
require strip mining the oceans for feed fish like anchovies. If you
could use your tech for the feed fish instead of for human consumption,
we can grow larger fish in RAS fish farms that do not polute.
the important thing right now.
03:18:14
           Jessica Smothermon (CTO HQ): I'll be a taste tester!
03:18:29
           Scott Witt: Pricing! -- a critical factor for these important
innovations
03:18:49
         Cindi Thompson: My cat will be a taste tester.
03:19:07
           Deborah Knuckey: @Bud - note that there are farmed fish
companies moving to vegan feeds that don't strip mine:
https://www.maxbrimelow.com/post/bay-nature-the-vegan-trout
                                       Its a super Innovation Great
03:19:11
          MAHADEVAN VISHWANATHAN:
business model
03:19:44
           Earthchain - Dan Graf: Congratulations everybody, loved it all
- well done !
03:20:11 Beth Zonis (CTO): Excellent presentations today! Nice job!
03:20:22 Revamp Moto - Jayesh Tope: Thank you Everyone for your time.
03:21:30 Umami Meats - Mihir Pershad: @Bud Dunbar - the feed is
definitely a challenge with fish farms, but high animal densities and low
genetic diversity also create a prime ground for disease spread on those
farms as well. And if we can make the fish with our technology, it's
likely going to be more efficient to make it for human consumption rather
than feeding it to other fish!
03:22:22
           Umami Meats - Mihir Pershad: @Scott - definitely! We are
starting with premium seafood products to ensure we can achieve price
parity relatively early, as we also believe it will be essential to
consumer acceptance
03:25:31
         Richard Fu/Agrivolution:
                                       Wonderful presentations from all
of them!
03:33:55
         Cindi Thompson: Yes, we need to emerge with
rebirth/positivity to solve the climate crisis!!
          Ken Hayes (CTO HQ):
                                All - Tom will take questions shortly -
please put them in this chat.
03:43:09
         Scott Hoppe:
                          "See it, like it, want it, get it." Arianna
Grande
         Coil Cleaning Consortium: Richard Fennelly: Tom: what
03:45:24
strategies work if the potential customer doesn't even know that they have
a problem for which you have a solution?
03:47:58
         Ken Hayes (CTO HQ):
                                 I need to show this video to my
daughter, who just started her first professional job!
03:49:10
         Veer Shah: How do you convince both your direct customer and
your end user (as they often might be different)?
           Rick Kjellberg:
                           Tom, I've seen similar approaches that
emphasize the customer/investor as the hero, NOT the company. Is it fair
to say that this approach is about the hero (company) creating the new
hero (customer/investor)?
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Whsiper Energy Systems - Forest Guider: Often in stories there
is a second act dead spot that is hard to avoid, with startups, that's
often post prototype. How can we create a hero in our investor to help
avoid these difficult transition times?
03:55:26
           Philip Morkel:
                            When the problem the target countries have is
existential. Millions of potential casualties one day in the next 60
years. We alone can fix it properly. How do we navigate such a severe
problem and solution in such a campaign?
03:57:52
         William Landry: Great question Rick
03:57:54
           Scott Witt: 'Product-led Growth' as Hero's Journey
03:59:26 William Landry: Great podcast that reinforces this featuring
Nancy Duarte on the Starting Greatness podcast, hosted by Mike Maples
Junior
04:00:52
          Whsiper Energy Systems - Forest Guider: That's great advice.
Thank you.
04:01:09
         Rick Kjellberg: (From the Star Wars perspective, the customer
I think is Luke Skywalker, and the company is Obi-wan Kenobi, the old
mentor/guide through the story). Interesting take on the idea of it being
circular, too. Thanks, Thom!
04:02:41
           Scott Witt: Need to consider the difference between the journey
for an Early Adopter vs Late Majority customers
04:08:13 Beth Zonis (CTO): Thank you, Tom! Great insights!
04:10:40 Tamara - Joule, Inc:
                                  Nom Tom
04:13:25
           Scott Witt:
https://rmi.org/climate-techs-four-valleys-of-death-and-why-we-must-build-
a-bridge/
04:14:45
         Bettina Grab (CTO / Alder & Co.): Thanks Scott!
04:19:32 Ken Hayes (CTO HQ):
                                 Mel and Bettina run the Alder & Co
marketing agency: <a href="https://www.alderagency.com/">https://www.alderagency.com/</a>
04:29:36
         Bettina Grab (CTO / Alder & Co.):
https://www.linkedin.com/in/bettinagrab/
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## https://www.linkedin.com/in/melanieadamson/

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04:30:21
         James Liao: Does CTO help entrepreneurs to connect to the
customers?
04:30:32
         Raj, Energos Inc.:
                               How do we handle a pivot or a
considerable change of problem understanding from a brand positioning nov?
         Raj, Energos Inc.:
                                How do we handle a pivot or a
considerable change of problem understanding from a brand positioning POV?
04:34:05
         Raj, Energos Inc.:
                                 thx
04:34:39
          Bettina Grab (CTO / Alder & Co.): Tofu - the online community
for marketing in climate https://tofu4climate.substack.com/
04:47:35 Tom White: can we see tanya's work?
04:47:40 Bruno Mejean:
                           what are some of the dont's
04:47:48 Rafi Isaac: how do you make energy generation sexy?
04:48:03 Scott Hoppe: Rafi- www.sabreez.com
                          http://communityenergylabs.com/
04:48:16 Tanya Barham:
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04:48:36
         Scott Witt: "Operationalizing your Brand" is a great strategy.
Check out Denise Lee Yohn
04:48:54 Rafi Isaac: @Scott, thanks:)
04:49:08 Scott Witt: "What you do, is who you are" Ben Horowitz al6z
04:50:10 Rafi Isaac: True, but you need to mingle with those who don't.
;)
04:50:32
         Whsiper Energy Systems - Forest Guider: Can you talk about
authenticity. I feel consumers are so much more experienced and saturated
with information these days - are there common success strategies or
pitfalls you have seen?
           Whsiper Energy Systems - Forest Guider: Thanks!
04:50:38
04:50:53
           Beth Zonis (CTO): Donnel Baird of BlocPower and Steph Speirs of
Solstice are Cleantech Open Northeast alumni who are great examples of
diversity and inclusion - not only in terms of their teams, but also in
terms of the solutions that they provide specifically to underserved
communities.
04:50:54
         Scott Witt: They care about Outcomes
04:50:59
         Coil Cleaning Consortium: Richard Fennelly: We are trying to
figure out how to make cooling equipment coil cleaning sexy ---- might the
potential to cut total global electric demand by 4% do it????
           Scott Witt: Functional & Emotional -- Jobs to Be Done
04:51:40 Rafi Isaac: Thanks Tanva!
04:52:30 Marcus Chee:
                           How do you brand low carbon (climate change)
advantage?
04:52:43
         Tom White: Thank you Bettina, Melanie, and Tanya. Really
great, tangible info.
04:53:08
         Rafi Isaac: Let me rephrase: How do you make energy sexy to
investors?
04:53:18 Rafi Isaac: Thanks Melanie!
04:53:51 Cindi Thompson:
                           lol
04:54:50 Scott Witt: They don't want to be "delighted/entertained" they
want to get on with their lives!
04:56:26
         Rafi Isaac: Good point Bettina! Thanks:)
04:56:28
         Raj, Energos Inc.:
                                 Gotta leave. Thanks a lot Bettina,
Melanie and Tanya. Great learning!
         Coil Cleaning Consortium: Richard Fennelly: New York City has
given buildings energy grades.
04:57:31
           Scott Witt: Also: they have Confidence/Trust that you'll
deliver the promised results
04:57:47
         Scott Witt: and they won't look like fools for choosing you
05:02:18 Whsiper Energy Systems - Forest Guider: Thank you so much!
05:02:30 Coil Cleaning Consortium: Richard Fennelly: Thank you!
05:02:32 Scott Witt: Great Topic -- thanks
05:02:45
                           Great Presentation! Thank you all.
           Scott Hoppe:
05:02:57 Michael Gould, WES:
                                Thank you!!
05:02:58
         Randy Taylor: Thank you all for the insightful and detailed
conversation
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05:03:20 Rafi Isaac: Thank you Tanya!