

Time	Commenter	Comment
18:04:58	Craig Jones	Glad to see two of our Board of Supervisor members present! Very important! Thanks
18:06:06	Vice Chair, Supervisor Nora Vargas	Happy to be here!
18:07:31	Vanessa Forsythe	👍 thank you supervisors in attendance
18:07:48	Mike Bullock	Here is the WHY information that is provided:The global climate is changing, and we directly feel and see the effects of that change locally, in our communities, daily. This includes a higher frequency and intensity of extreme heat events, droughts, wildfires, storms and sea-level rise. Furthermore, a changing climate is causing immediate and long-term damage to our ecosystem, food production, health, safety, jobs, businesses, and our overall quality of life in the San Diego region. We need a coordinated response in our region to climate change.
18:08:09	Mike Bullock	Here is the WHY information that is provided:The global climate is changing, and we directly feel and see the effects of that change locally, in our communities, daily. This includes a higher frequency and intensity of extreme heat events, droughts, wildfires, storms and sea-level rise. Furthermore, a changing climate is causing immediate and long-term damage to our ecosystem, food production, health, safety, jobs, businesses, and our overall quality of life in the San Diego region. We need a coordinated response in our region to climate change.
18:09:57	Mike Bullock	What is NOT said about "WHY" is that humanity is currently on a path to end most life forms on Earth, including our own species.
18:10:29	Masada Disenhouse she/her	Thank you Supervisor Vargas for your commitment to an equitable approach to reaching the zero carbon future we all need
18:11:16	J Z	Thank you, SD BOS for finally turning our county in the right direction!
18:13:04	Craig Jones	Sorry to see Sup. Vargas have to leave this discussion; please pass on to her, that continued County sprawl will penalize her district communities, not provide the affordable housing needed, and produce more climate change GHGs
18:13:26	Cristina Marquez	Thank you Supervisors for being here!
18:14:29	Masada Disenhouse she/her	Thank you for the welcome and your leadership Sup. Lawson-Remer!
18:14:52	LYNDA DANIELS Sierra Club	Thank you! The time is NOW!
18:15:07	Cathy Gere	Yes, thank you so much Supervisor Lawson-Remer! We are grateful for your visionary leadership on this issue!
18:15:47	Luís César Modesto do Rosário Rosário	Boa noite, todas as noites a Tod@s, Saudações sustentáveis Rosário - Brasil- trabalho na Petrobras Transporte S.A. Gerencia Tecnologia . contato: luisrosario@transpetro.com.br

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18:18:32	Mike Bullock	Lets get real. Cars last 15 years. We can't get zero emissions from cars by 2035 unless we get rid of all of the internal combustion engine cars that will be on the road in 2035. That would be too expensive. A better target is the first-occurring climate-stabilizing requirement: 80% below our 1990 emission level by 2030. There is a set of enforceable measures that would achieve this. They are derived and defined in a peer-reviewed Air and Waste Management Association report.
18:19:17	Craig Jones	Murtaza, you have an incredibly important and timely job: not only to take advantage of opportunities for reegional coordination between all the cities and the County, but to create and foster new opportunities as well!
18:21:25	Craig Jones	Those hurt first and worst by climate change are our underserved communities
18:21:52	Frank Landis	As a counterpoint to Mike Bullock, we need to keep about half of known petroleum in the ground, and 90% of coal in the ground, to keep to the Paris Accord. Mike suggests an emission rate. Globally, we've got a budget that we're using up too rapidly. I'd suggest a budget based on not crashing civilization is truly real. I agree that cars won't come off the road unless bad things happen, but bad things are already happening.
18:22:11	Mike Bullock	Dr. Baxamusa: please don't say we must "fight climate change." That is not helpful. Instead please say we must "achieve climate-stabilizing requirements".
18:23:49	Vanessa Forsythe	Mike B your constant comments in the chat are distracting.
18:23:54	Kerry FORREST	How will this apply to our neighboring county to the South? so much of our carbon comes from Mexico due to uncontrolled wild fires and of course emissions from industry and vehicles
18:25:42	Heather Hofshi	We have a plethora of our own issues to deal with, and measures we can take here in SD county, to deal with climate change without blaming another country. Let's keep things focused.
18:25:58	Brenda Garcia Millan	I just want to second what Supervisor Vargas talked about earlier: we need to ensure the RDF centers on equity and that it prioritizes our communities of concern.
18:26:08	Mike Bullock	Zero carbon is the 2nd climate-stabilizing target. It occurs in 2045, or 2050. It will not save us if we fail to achieve the first climate-stabilizing target: 80% below 1990, by 2030. Note that this is for the industrialized nations. For all nations, the reduction can be less that 80% below 1990 by 2030. However, we are part of the industrialized world.
18:26:29	Sonja Robinson	Agree...Climate Equity has to shape the plan and guide the plan for all action
18:27:44	Craig Jones	It's certainly necessary to achieve both GHG eliminations and equity; in fact, failure to address climate change will lead to more inequity
18:29:08	Mike Bullock	Judge Taylor wrote, many yeas ago, the "enforceable measures are needed NOW. for this reason, the County needs to do the primary feasible mitigation measure that was proposed for both the first and second CAP, by the primary plaintiff.

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18:30:04	Cory Downs	any GHG emissions contribute to the negative impacts we are seeing today, lets rally to fight climate change and get to zero emissions as soon as we can
18:31:46	Kori Ellis	CCUS can be combined with hydrogen to create clean burning synthetic fuels that every combustion engine can use without adding more carbon to the atmosphere. CCUS created fuel can reduce greenhouse gas emissions drastically by every single combustion engine on the road today. If we clean the fuel at the pump, imagine the impact we can make.
18:31:51	Masada Disenhouse she/her	The UN Secretary-General did not mince words, saying that we're at Code Red for Humanity and that we must stop burning fossil fuels to do that. SanDiego350's blog on the report is here: <a href="https://sandiego350.org/blog/2021/08/13/code-red-for-humanity-a-dire-warning-from-the-ipcc-and-our-climate-action/">https://sandiego350.org/blog/2021/08/13/code-red-for-humanity-a-dire-warning-from-the-ipcc-and-our-climate-action/</a>
18:32:25	Masada Disenhouse she/her	It hasn't been a question for many decades now ...
18:35:00	Kori Ellis	Renewable Natural Gas can have a major impact on our transportation emissions. RNG- derived from animal and land waste, RNG harnesses methane, which is a naturally occurring, but potent and dangerous GHG. Renewable Natural Gas projects capture this methane from existing food waste, animal manure, wastewater sludge and garbage, and redirect it away from the environment, repurposing it as a clean, green energy source.
18:35:11	Sonja Robinson	Can you explain this chart a little more?
18:35:49	Frank Landis	Cycling carbon into and out of the atmosphere leaves carbon in the atmosphere. We need to keep putting out GHGs and get them out as fast as possible.
18:36:09	Frank Landis	One question for the IPCC: how much of "land use change" GHG emissions are coming from wildfires?
18:36:36	Prasad Naga	What is missing in the graph from Elena is that the US/EU have the highest cumulative GHG till date. Present conditions is a reflection of past actions. Hence its imperative that the USA step up its measure/investments/commitments to address climate change and not point fingers at China/India and developing countries on current trends. Finger pointing might score political points but does not provide solutions.
18:36:37	Frank Landis	Stop putting out GHGs, not keep putting them out.
18:36:39	Craig Jones	Right, Kori, as long as we completely stop using petroleum methane, and eliminate "natural gas" from buildings, transportation, etc.

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18:36:39	Tim Snyder	No pathway utilizing population control and then, reduction, ever appears to be emphasized. It seems that population control is the “third rail” for stabilizing climate change. But if it is people that need production of GHGs, then less people would produce less? Seems simple. A lot of these graphics look to echo population growth. But population growth is sacred and no one addresses reducing the human load on this planet.
18:36:42	Ellee Igoe	Regenerative agriculture and carbon farming can play an important role on offsetting those GHG emissions
18:36:42	Bill Tippets	I think it basically showed that we are not on track to reduce GHGs to meet the goals. And it will take really huge GHG reductions to meet the <1.5C target, ec.
18:36:44	Kori Ellis	Carbon Sequestration is apart of Cycling carbon. Massive amounts of carbon can be pumped underground and stored in California for thousands of years to come
18:37:09	Vanessa Forsythe	In terms of emissions please expalin land use changes
18:37:09	Ellee Igoe	It seems like farming (specially regenerative ag and those small farms practicing carbon farming) and farmers livelihood keeps not being included in the conversations or regarded when actual solutions on this field could lead to successful strategies to achieve a Zero Carbon region by 2035.
18:37:26	Dianne Woelke	San Diego County has >13.85 MILLION sq feet of plastic grass playing fields emitting methane and ethylene at ever increasing amounts. It is not recyclable and ultimately is landfilled or illegally dumped where it continuers to emit these gases. They also leachate hundreds of toxic and carcinogenic chemicals- including PFAS, 6PPD, chlorinated paraffins, benzothiozoles, PAHS and more. The 13.85 million figure is exclusive of used tire playground surfaces, residential and commercial applications and more.
18:37:45	Frank Landis	The best place to sequester carbon in California WAS the northern forests. Which are burning. This is one big problem: the wilder the weather the gets, the fewer chances we have to do anything about it.
18:37:57	Kori Ellis	Craig, I agree. It is possible to stop pulling fossil fuels and create a new renewable fuel that all communities can use. Not everyone can afford a new electric car, let alone a used car.
18:38:12	Bill Tippets	Vanessa, I think it means converting natural lands/habitats to developed or ag lands.
18:38:36	Vanessa Forsythe	Thank you Bill

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18:38:37	Mike Bullock	What I am saying is that the measure needs to be done, ASAP without waiting for some process, like this effort or like the CAP effort. The measure was well defined by the plaintiff, in both lawsuits. It is about a needed car-parking system. The system, once it is implemented by the vendor, would be requested by others that have car parking. So here are the steps: write a RFP-supporting document and use it to award the project of designing the defined system, implementing, it and operating it to a successful implementation. "Successful" means it is favored by most of the employees. When that is done, other employers will want the system. The very same system will work downtown, for beach parking, for shopping centers, for parking-meter parking, and for pay station parking. The key to keep in mind is that even employees that drive everyday will earn more money. Of course those that can get to work without driving, at least some time, will earn significantly more money.
18:38:50	David Harris	Kori Ellis- Thanks for sharing the fossil fuel industry perspective. Have seen you message in a lot of SDGE advertising
18:39:09	J Z	I'm not sure that this audience needs many reasons for why we need to pay attention to climate change.
18:39:18	Cathy Gere	^^^
18:39:20	Frank Landis	Also, San Diego risks flooding from an 1000-year Atmospheric River Storm. And due to increases in storm magnitude, we've got a 50% chance of getting hit by one of these monsters by 2050. An ARkStorm is the equivalent of three feet of rain in a month hitting San Diego.
18:39:21	Dianne Woelke	You mean like the remaining last sliver of Mediterranean climate Ag land in the country that developers are trying to take over?
18:39:52	Judi Schlebecker	Since in San Diego's transportation is at least 40% of our GHG, we need to have a great public transportation system that people use. In addition less sprawl by be willing to have lower cost housing near transportation hubs.
18:39:56	Prasad Naga	Defense industry has been missed out as a source of emission.
18:40:04	Brenda Garcia Millan	I think what's important to emphasize is that the RDF needs to be as specific and actionable as possible, clearly outlining all of the strategies needed to achieve Zero Carbon by 2035.
18:40:40	Kori Ellis	David Harris- I believe you have me confused with someone else. I haven't seen any SDGE advertising.
18:40:42	Ana Serrano (she/ella)	I completely agree Prasad
18:40:52	Mike Bullock	Cars emit way more than electricity. Cars are #1, by a lot, for our cities, our county, our state, and our country.
18:40:52	Courtney Ransom	Agree, Brenda!
18:41:37	Andrew Meyer	Glad they are mentioned carbon storage and sequestration in our natural habitats—existing and restored. ReWild Mission Bay and other projects like it.


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18:42:59	Craig Jones	NOTE: the transition to electric vehicles will not happen fast enough for us to avoid disaster, we need to do more - and avoid land use sprawl creating more GHGs
18:44:05	Kori Ellis	Water Batteries should be implemented- renewable energy sources and pumped storage power plant creates powerful storage system for flexible power supply. The water battery acts as a short-term storage facility and helps maintain the grid stability.
18:44:06	Bea Alvarez - Carbon Sink Farms	We are still using very extractive ways to mine lithium and other minerals needed to manufacture those batteries, these mining techniques that are harming environments and indigenous communities globally
18:44:37	Mike Bullock	We need 100% of cars to be BEVs by 2030. We need a schedule of how internal engine cars are phased out for new cars. We still need a 32% reduction in per-capita driving with respect to 2005 (selected because this is the base year of SB 375.)
18:45:38	Dianne Woelke	we need to stop adding Microplastics, they get entrapped in Mangroves. CA DTSC is working towards regulating crumb tire releases into waterways and oceans in their 2021-2023 work plan.
18:46:09	Judi Schlebecker	Bea Alvarez let's make sure that the local Lithium plant at the Salton Sea doesn't cause more environmental problems.
18:46:12	John Eldon	Protect and enhance urban tree canopy and landscaping.
18:46:12	Kori Ellis	Electrical vehicle batteries allow for a 3% reduction in capacity each year. For example you buy a electric vehicle, can charge 100% year 1, by year 10 it has 70-80% capacity left.
18:46:16	Prasad Naga	EVs do not address sustainability because the Lithium that is extracted is a rare earth mineral not as abundant as oil unless we invest in recycling lithium. Also, the GHG embedded in manufacturing (steel, cobalt, lithium, copper,aluminum mining) these vehicles need to be calculated . That said, we need to continue to emphasize public transportation over private EV cars.
18:46:19	Craig Jones	Legislative change includes changing State laws to replace how cities and counties are put in competition with each other, with regional coordination and cooperation
18:46:36	Masada Disenhouse she/her	What I didn't hear: We need to stop extracting and burning fossil fuels and invest in environmental justice communities. Now.
18:46:51	Kerry FORREST	I live in the rural area of the county, our hills and meadows are being targeted for solar and wind farms. We are losing our natural open spaces to these projects. We lose our power of nature vegetation when these projects go in. The power is shut off when we have high winds and with not power we have no way to charge an electric vehicle. Instead of large scale projects like what was just approved in Jacumba, individual solar systems need to go on roof tops of homes, buildings and parking lots throughout the county not just in solar and wind farms in our last remaining open spaces.

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18:47:00	Marilyn Bruno	We set up microalgae cultivation projects in bioreactors (indoors, outdoors, rooftops getting CO2 directly from chimneys, etc.) and open ponds (even on desert lands using brackish water). Microalgae absorbs 100x more CO2 than any land plant, and the biomass is used to make biofuels and renewable coproducts (materials, plastics, nutraceuticals, food, feed, etc.). San Diego has the great weather to have optimal production year-round and be a model for urban algae products.
18:47:21	Adam Aron	Agree with Masada, we need to stop extracting and burning fossil fuels. Now. IEA 2021 said no new fossil fuel extraction.
18:47:31	Craig Jones	The way to overcome uncertainties: exercise the will to act. Where there is the will, there IS the way!
18:47:53	Prasad Naga	Promoting EV is promoting a new wave of consumer electronics which will help improve GDP/sale for Automotive industry but will not help sustainability.
18:48:10	Kori Ellis	If the electrical vehicle batteries are lithium and can lose capacity each year, even while not in use, imagine what happens to the lithium battery storage. This will not be sustainable if the capacity factor is decreased every year.
18:48:16	LYNDA DANIELS Sierra Club	Reservoirs must be utilized for solar panels
18:49:09	Mike Bullock	We need a plan, for each type of emission. Yes, as the plan is implemented we will learn and change our plan. However, we need to start with a plan.
18:49:14	LYNDA DANIELS Sierra Club	BE means building without gas lines!
18:49:21	John Eldon	Nuclear used to provide 20 percent of our electric energy, carbon- and smog-free. We have lost half of that through the mismanagement of SONGS, and now the state wants to shut down Diablo Canyon. This is going the wrong way.
18:49:34	Prasad Naga	Questions to the panelists: 1. When will investments be done in public transportation and when will those take fruition? 2. How will the re-using economy be kickstarted so that commodities/goods that are already produced continue to remain in circulation until their end of life instead of discarding it. 3. What is the County and City doing to increase direct outreach to individuals and businesses to change how we live/work/eat and to put them on a path towards sustainability? 4. Every year ambitions and promises are renewed but not backed by policies and progress. What is different in the County this year around? What makes these policies legally binding? 5. How do you ensure human and land use conflict does not arise due to deployment of solar power/wind farm/organic compost collection?
18:50:33	Sonja Robinson	Other: Clean Energy...impacts air quality, etc.
18:50:34	Craig Jones	MANY MORE THAN THREE RESPONSES APPLY!
18:51:16	Katie Meyer	Yeah I'm concerned about all of these

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18:51:20	Pamela Heatherington	My 'other' is all the above.?
18:51:33	Masada Disenhouse she/her	Not listed: increased infectious disease
18:51:39	Bill Tippetts	How is the County positioning itself to be the "climate leader" when SANDAG is the regional agency, the County's share of GHGs (and contributions to reductions) is perhaps only 20% (???) of the region's GHGs?
18:51:41	Terri Steele	I agree with Craig. Many are interdependent. We import over 90% of our water, which informs agricultural output, thus food supply and so much more.
18:51:45	Kerry FORREST	Improper forest management with high tree morbidity is also causing the increases in carbon due to wild fires. The forests must be better managed to reduce impacts.
18:52:03	Dianne Woelke	>13.85 million _+ other sq feet of plastic carpets emitting toxic gasses is WHOLLY UNNECESSARY and must be addressed now as many are due to be removed.
18:52:16	Jose Torre-Bueno	Utilities they need to be bought out
18:52:50	LYNDA DANIELS Sierra Club	PUBLIC UTILITY NOT investor owner utilities
18:52:52	Craig Jones	Vulnerabilities: all of the above
18:52:52	Karl Aldinger	Carbon Capture & Storage (and CCUS) are not viable tech. industry has failed to implement if successfully for more than a decade. we need to stop counting on it as a solution. natural carbon sequestration should be talked about separately.
18:53:02	Anne Sheridan	Address overconsumption of materials by building local economies and emphasizing reuse, repair, etc.
18:53:05	Sonja Robinson	fossil-fuel based industries (i.e., utilities) need to transition to clean renewable energy
18:53:09	Susan Freed	workforce development is critical for the new sustainable economy. we do not have enough people familiar with these technologies
18:53:09	Cory Downs	One issue that would be helpful to address is the artificially low price of natural gas. In addition to accounting for methane leakage the natural gas system costs do not reflect the fact that system wide revenue is expected to decrease while the system maintenance costs are expected to increase to the point that rate increases would not be able to cover the expected costs.
18:53:12	Clemencia Pinilla	It will be great to have short term and long term recommendations on behavioral changes that can contribute to decarbonization
18:53:15	Marilyn Bruno	There are simple ways for building managers to save av. 10% electricity/month and "go Green." Just using non-toxic, effective water treatments in cooling towers and HVACs to remove biofilm buildup is a good place to begin.
18:53:19	Mike Bullock	My first "other" is "a devastating collapse of the human population", meaning we will, for the most part, starve to death.



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18:53:19	Jose Torre-Bueno	agree that CCS is not a viable solution
18:53:30	Bee Mittermiller	The fossil fuel industry will be fighting our efforts every step of the way
18:53:31	Kori Ellis	UCSD is partnering with Cummins to recycle electric vehicle batteries then those recycled batteries will be placed in the "back up storage" to support the grid. Will they also work on recycling the nuclear spent fuel? This could create thousands of jobs, power millions of homes for hundreds of years. Nuclear energy is absolutely necessary in order to decarbonize and power the grid. 1 reactor is equivalent to 3.125 million PV panels (320 watts / panel)
18:53:35	Prasad Naga	Transportation sector, meat industry.
18:53:44	Peter Zahn	Some brief comments:
18:53:54	Adam Aron	Agree with Karl. Carbon Capture from fossil fuel plants and methane-> hydrogen are ways for the fossil fuel industry to keep extracting. We must not fall for these.
18:54:01	Vanessa Forsythe	Jobs have been a major concern including agricultural workers on front line. But also those left out of the decision making but are not considered. Need creation of safer, healthier jobs using renewable energy.
18:54:13	Peter Zahn	Some brief comments:
18:54:20	Yusef Miller Cleanearth4kids and NSDC-NAACP	Other= Disproportionate Concentration of effects in Micro Environments(People of Color), which prevents overall progress towards 100
18:54:25	John Eldon	Meat industry is indeed part of the GHG problem. Go vegan.
18:54:32	Bee Mittermiller	Hospitality industry might suffer if people are priced out of tourism and travel
18:54:42	Toshi Ishihara	We need to reduce GHG emissions from air travels, which will hurt tourist industry.
18:54:56	Ellee Igoe	We need to look at the intersections between these issues and not silo them. As a farmer, I see the huge disconnect between food security and agriculture/working lands.
18:54:59	Tim Snyder	One vulnerable industry: Tourism.
18:55:01	Katie Meyer	Lots of industries, but also a lot of industries will have worse effects from effects of the climate crisis.
18:55:06	Bea Alvarez - Carbon Sink Farms	food system is the most vulnerable sector on the economy, with climate patterns changing, farming is even riskier. We need to support local regenerative farms implementing carbon farming practices and feeding our communities.
18:55:11	John Eldon	Continued reliance on telepresence, telecommuting, etc.
18:55:35	Bill Tippets	The Service sector may be most vulnerable unless the region's transportation system/infrastructure can be radically transformed to allow service industry workers to use transit and other non-fossil fuel modes.
18:55:50	John Eldon	Re: conversion of nonproductive oil fields to solar -- Nature Conservancy is doing this with a defunct coal field.
18:55:57	Jose Torre-Bueno	There are relatively few wells in SD

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18:56:02	Frank Landis	Sealing the leaks on oil wells might be a good job, at least for a few years. Natural gas leaks, especially as we retire the pipe infrastructure, should be something we find ways to pay for.
18:56:15	John Eldon	Thank you Frank! Seal the leaks in our NG system!
18:56:26	Kyle Heiskala, Environmental Health Coalition	communities that have suffered over-pollution and under-investment in San Diego are most vulnerable to climate impacts. These communities have suffered bad air quality, lack of green space, housing unaffordability and are most vulnerable to climate impacts. these environmental justice communities of City Heights, Logan, Southeast, National City, San Ysidro need to be invested in FIRST.
18:56:33	Robin Joy Maxson	The unincorporated community of Ramona has not yet been included in the County's identification activity as a "Community of Concern" or as having a significant low-income population. 25% of our population speaks a language other than English. Our community includes a significant workforce that does not translate into a work-from-home setting. Many of our residents must commute to work with their tools and materials to job sites. Or, they must be on the jobsite to provide direct healthcare services. When will the County recognize the vulnerable residents of our community and include them (reach out to them) in the planning of decisions that will directly affect their future and livelihood? Thank you. Robin Joy Maxson, Chair, Ramona Community Planning Group
18:56:45	Bea Alvarez - Carbon Sink Farms	"Carbon sequestration in soils and vegetation is one of the few ways that communities can simultaneously address climate mitigation and climate resilience. Climate-smart agricultural practices (e.g., planting trees and shrubs, using compost and mulch) prevent soil erosion, increase soil fertility, and improve the soil's ability to absorb and hold water. These benefits conserve critical agricultural resources, support several County-wide efforts, including the County of San Diego Climate Action Plan, and will become increasingly important in the fight against climate change". - SD Food Vision 2030
18:56:57	Pamela Heatherington	While there are no wells in San Diego, we want to buy clean energy. Conversion is upcycling the land to a higher use.
18:58:00	Mary Yang	We need to also focus on short-lived climate pollutants such as methane for curbing GHGs. The Physical Science Basis of the IPCC has a new chapter of SLCP but there is little mention of this in the summary for policy makers.
18:58:04	Adam Aron	Great points Jack!
18:58:05	LYNDA DANIELS Sierra Club	desalinization is not the answer pollutes the ocean1
18:58:15	Prasad Naga	
18:58:15	Anne Sheridan	Absolutely agree with Jack on pro-rating reductions!
18:58:18	Cathy Gere	I so agree with Jack about the timeline!!
18:58:20	Rick Bates	Great points, Jack!

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18:58:23	Masada Disenhouse she/her	Covid just showed us how disasters exacerbate income inequality and mean that disadvantaged communities will be put even more at risk. Climate impacts will do the same thing. We need to make sure that we're investing in our communities and ensuring a just and equitable transition
18:58:27	Mary Yang	Environmental Research Letters - All-out, rapid effort to slash methane emissions can eliminate 2030 emissions by 50%, slow warming rate over next few decades by > 25% & prevent ~around 0.25(°C) of additional warming in 2050 and 0.5(°C) in 2100. (May 4, 2021) Global Methane Assessment - Shows that human-caused methane emissions can be reduced by up to 45% this decade. Such reductions would avoid nearly 0.3°C of global warming by 2045. (Climate and Clean Air Coalition (CCAC) and the United Nations Environment Programme (UNEP), May 6, 2021)
18:58:31	Frank Landis	Great points Jack. Prorate.
18:58:37	Masada Disenhouse she/her	++ Jack Shu 😊
18:59:17	Brenda Garcia Millan	The RDF must prioritize good union jobs and a jobs pipeline for working-class people of color.
18:59:29	Maleeka Marsden	++Yeah Jack!
18:59:33	Ellee Igoe	Why aren't agricultural jobs ever included in green jobs? Seems like a huge oversight that I hope isn't left out of the workforce plan Supervisor Vargas was announcing.
18:59:39	Kori Ellis	Lynda Daniels, Desalination- can be double processed, the salt can be used in the new generation nuclear reactors that help process spent nuclear fuel. The newer generation nuclear reactors can give all of us zero carbon energy while cleaning our air and getting off of fossil fuels.
19:00:02	Wendy M She/Her	Great points Craig!
19:00:03	hope nelson	How does air travel impact the issue?
19:00:28	Jose Torre-Bueno	Given the issues with methane a program to trace and fix pipeline leaks would be a good jobs program. Also electrification to reduce the extent of the distribution network
19:00:30	Debra Kramer	In agreement with Jack, we need to lower our footprint NOW
19:00:37	Karl Aldinger	please consider a rapid transition for our public transit to all electric. Specifically our trains must go electric and they should be an anchor for our transportation. BRT will be challenging to sustainably electrify with batteries. We can and should focus on the lowest emissions most efficient solutions in electrifying transportation including ebikes which are an equitable mode much more accessible to more people. Bike infrastructure and mixed use buildings will allow people to massively lower VMT in ways electric cars will not.
19:00:37	Toshi Ishihara	We need to have large scale GHG sequestering projects funded by the governments that have emitted more GHGs than others. Of course, we need to improve natural sequestering, but it will not be enough to capture the GHG already accumulated and will be released.

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19:00:49	Masada Disenhouse she/her	Craig thank you for emphasizing climate justice
19:01:24	Rosa Alcaraz	Yes this has been going on for Decades! Great point Jack to start now and reduce ASAP
19:01:28	Brian Shuck	Car dealers will shut down as most old makers have decided not to seriously pursue EVs in time to keep up. We should allow no new ICE vehicle dealerships
19:01:29	Shelah Ott	Well said Gloria!
19:01:36	Kerry FORREST	I agree with the Ramona Planning Group, We in Descanso are in a similar situation, We have a population of lower income and ignored. Our communities are underserved in transportation accessibility, energy that is cut off, no broadband internet. We are viewed as the perfect site for these energy farms and composting sites. This gets these projects out of the city dwellers view, makes them happy and really impacts our country way of life and our biodome is greatly damaged.
19:01:37	Jose Torre-Bueno	Its not clear that any large sale sequestration other than natural sequestration will work at all.
19:02:10	Vanessa Forsythe	Is consideration being given to more frequent reporting of health impacts of climate change? Climate change events are causing more severe debilitating physical and mental health conditions? People on call aware of climate change impact but many others are not. Need people to be informed so they can understand intersection and we can determine efforts to mitigate the health impacts.
19:02:21	David Harris	Gloria Conejo- Great comments!
19:02:22	Masada Disenhouse she/her	++ Gloria for all of our nieces and nephews + equity + transparency + green union jobs. Escondido - 97 degrees today when I was there.
19:02:29	Marian Sedio (North County Climate Change Alliance)	Yes Gloria!
19:02:31	Katie Meyer	Yeah Gloria!!
19:02:40	Bea Alvarez - Carbon Sink Farms	The concerns about jobs/workforce must include farmworkers and the livelihood of farmers.
19:02:44	Bob Wilcox	Transportation is our largest sector of emissions, and even with fully electrified transit this will remain a dominant end use of energy. The most impactful thing we can do is to increase density in areas that are already developed to prevent sprawl and reduce vehicle miles traveled. Build up, not out!
19:03:19	Jose Torre-Bueno	totally agree w/ Bob
19:03:45	Brian Shuck	I just want to point out that I see some fossil fuel disinformation talking points above regarding EVs and batteries. There are already recycling projects going on. This is not our problem. And lithium is not at all rare. The proper things are happening in this area.

Time	Commenter	Comment
19:04:29	Kerry FORREST	Bob, just don't make the backcounty a "district 13" which exists to serve the dense pack communities "district 1"
19:04:52	Nastassia Patin	Agree with Bob as well. Massively expanding public transit and link residences to jobs will be crucial. Decreasing car dependence will have enormous implications for carbon emissions.
19:04:56	Craig Jones	Hydrogen from fossil fuels is NOT the answer . . .
19:04:57	Jay Lukes, The Lukes Network	This is an issue that goes accross political lines and unions. There are those that sit accross the aisle that believe in sustainability.
19:04:59	Toshi Ishihara	Too many people are still looking the other way, and running AC all day long even in the night. We need to educate them. We can buy prime TV time at multiple TV stations, and tell them how bad the climate situation is and we are the ones who is damaging this planet to "point of no return"
19:05:04	Dianne Woelke	If climate change isn't brought under control...no one, even union workers, will have jobs....you need to think further down the line .....7 generations
19:05:08	Masada Disenhouse she/her	Thank you Sean and your members for your work. Our goal is to work with you to ensure we can transition everyone to a healthy, sustainable future as we go to zero carbon. Green union jobs!
19:05:12	Kori Ellis	Nuclear energy protects air quality- zero emission clean energy. Nuclear energy's land footprint is small. Typically 1000 megawatt nuclear facility needs a little more than 1 sq mile to operate. Nuclear Energy Institute says wind farms require 360 times more land area to produce the same amount of electricity and solar photovoltaic plans require 75 times more space. Nuclear energy is extremely dense. It is about 1 million times greater than that of other traditional energy sources. 1 one inch uranium pellet is equivalent to 17,000 cubic feet of natural gas, 120 gallons of oil, or 1 ton of coal.
19:05:14	Ann Feeney	Agree with the comments against using CCS. Far better to just stop using/burning fossil fuels in the first place, and not depend upon removing carbon from the atmosphere after we have put it up there.
19:05:38	Vanessa Forsythe	We are here with you supporting our workers!
19:05:57	Heather Hofshi	I agree that a robust strategy using many different kinds of green energy is absolutely the way to go— defense in depth, as they say. Sean, I would love to hear more about where you think the future of green jobs is going and how we can support that transition
19:05:59	Cathy Gere	Electrification provides lots of good pipefitting jobs!
19:06:26	Craig Jones	The poll disappeared
19:06:29	Adam Aron	Agree with Cathy. And we can still have plumbers!
19:06:50	Brian Shuck	Also note: we cannot rely only upon governments to force us to change our ways. Many can stop flying frivolously now, as I did 6 years ago. I stopped buying gasoline years ago also. EVs are getting cheaper.
19:06:56	Masada Disenhouse she/her	where's regulation?

Time	Commenter	Comment
19:06:57	Gloria Conejo She/Her	@Bea Alvarez, yes. we have a large population of farmworkers in N. Inland. they must included
19:07:06	Adam Aron	I don't see leaving fossil fuels in the ground as an option.
19:07:15	Terri Steele	Right on, Sean! It's an integrated approach that will ensure our success. Demystifying the broad reach of green collar jobs and the skills needed to fill them is critical. Let's make a concerted effort to leverage the oodles of state and federal monies available for community and economic development to provide both existing/impacted and *aspiring* professionals with training to equip them to swiftly fill the career opportunities across all sectors to support job creation, retrofitting residential and commercial buildings with energy upgrades and renewable energy improvements. Perhaps we can get some savvy grant writers and PACE (Property Assessed Clean Energy) contractors to accelerate upgrades with no up front cash in ways that will save energy, reduce energy costs for property owners, allow residents to live more comfortably and improve the energy integrity of the region's building stock. (The source of a large percentage of any municipality's emissions!)
19:07:22	Ellee Igoe	I have no boxesbtoncheck!
19:07:27	David Harris	How about transformation of our fossil fuel economy
19:07:32	Frank Landis	Poll answer: Impactful Deep Transformation is a bit nebulous....I'm with Adam, that leaving GHGs in the ground is the most important.
19:07:38	Katie Meyer	I think its important that we include a just transition so that workers can be part of green union jobs. We must transition away from fossil fuels, but include workers in that. Lots of potential green jobs!
19:08:00	Gloria Conejo She/Her	@katie meyer
19:08:02	David Harris	How about transformation of inequality in our society
19:08:23	Susan Wayo	Policy Support: Align what the CPUC is doing/thinking!
19:08:24	John Eldon	Technology is number one by far. This is how we get increased efficiency, reduced pollution, new jobs and economic opportunities.
19:08:31	Sonja Robinson	Goal-based development should have specific metrics and a roadmap to achieve and analyze
19:08:34	Toshi Ishihara	Buy used EVs and give them to those who cannot afford buying EVs.
19:08:39	Craig Jones	Policy support means, changing STate and local laws to allow aggressive regional coordination
19:08:39	Wendy M She/Her	Regional Integration: The County must use the RDF process to ensure continuity in substantial initiatives across the region. As an example, the move to electrify buildings (BE) - second only to transportation in GhG - will be vital to achieve our climate goals. The County could play a big role in this effort by coordinating with cities to provide access to financial and technical assistance, offer draft code language and generally promote similar practices across the region. BE will happen. A patchwork of different city regulations doesn't help developers, contractors, or homeowners. Let's include this type of support in the County plan!

Time	Commenter	Comment
19:08:43	Ellee Igoe	Other! Funding for pilot projects and bringing grassroots solutions to scale.
19:08:44	Bea Alvarez - Carbon Sink Farms	we need programs to support existing farmland to continue producing regeneratively or transition from conventional to regen ag, encourage new farms and support farmworkers rights and social programs that elevate their livelihoods.
19:08:48	Jose Torre-Bueno	We need to include workers but we should not allow the workers to be used as pawns of the companies that dont want to decarbonize
19:09:12	John Eldon	Yes to nuclear. Fusion in the future, fission for now.
19:09:19	Karl Aldinger	a Just Transition for affected workers is critical because we are divided on mo
19:09:25	Susan Wayo	We DON
19:09:27	Gloria Conejo She/Her	@jose torre-bueno
19:09:30	Peter Zahn	1. electricity is the linchpin of decarb – we need to reduce electricity to near zero or zero co2 emissions, and massively increase the supply (probably 2X). 2. adaptation is barely off the ground in the County – cities need enormous technical and financial assistance, not to mention unincorporated areas 3. extended producer responsibility – County could lead the way in requiring producers of products to take responsibility for the costs of managing their products (like plastics) at the end of life 4. single use plastics need to be restricted – to reduce fossil fuels and harmful waste 5. equity front and center – everyone must be allowed/invited/helped to join or we’ll never reach the tipping point to contain global temperature rise
19:09:31	Ashley Jabro	nuclear energy is great. too much fear mongering about a safe and clean energy source
19:09:34	Katie Meyer	Policy changes and regional integration
19:09:38	Susan Wayo	We DON’T NEED NUCLEAR!!
19:09:42	Brian Shuck	We need to switch to EVs ASAP through bans of ICE, new gas stations, committing car pool lanes to ZEVs. Electricity is already getting cleaner; we just can't let SDGE stop rooftop solar, etc.
19:09:44	Masada Disenhouse she/her	Sorry to be blunt, but I feel like this is doublespeak when we know we need to stop extracting and burning fossil fuels and transition our energy, transportation, housing and other sectors to renewable energy...
19:09:48	Karl Aldinger	many choices when workers jobs are on the line.
19:10:10	Adam Aron	It’s not possible to scale up new nuclear in the time frame we have, it takes 9 to 19 times as long as building utility scale wind or solar and at a cost over 10 times as great, Mark Jacobson, Cambridge University Press 2020.
19:10:16	Rosa Alcaraz	ABSOLUTELY NO NUK!
19:10:18	Jay Lukes, The Lukes Network	Amen, John

Time	Commenter	Comment
19:10:19	Vanessa Forsythe	Policy support includes dates for enacting and funding. People center transition includes transparency informing and involving public and creating jobs.
19:10:20	Masada Disenhouse she/her	^^ Adam
19:10:26	Prasad Naga	Revisit economic theories of prosperity definition which relies on extracting/exploiting earth, mass producing and selling it at profit for GDP growth. Example selling more cars is good for Automotive sector and is good for the GDP of USA.
19:10:30	Jose Torre-Bueno	Given the time and cost to build nuclear plants it is not a viable alternative.
19:10:33	David Harris	John Bennett- we haven't forgotten Three Mile Island, Chernobyl, Fukushima...
19:10:36	Ann Feeney	We do not have any way to safely remove all of the spent fuel rods in San Onofre, nor any place to put it. Let's take nuclear off the list of options.
19:10:39	Andres Reyna	No new nuclear plants in earthquake zones.
19:10:44	Shelah Ott	Thank you for being here Yusef!
19:10:48	Toshi Ishihara	Dump nuclear waste in the backyards of nuclear industry executives.
19:10:53	Frank Landis	Nuclear needs cooling. Sea level rise makes it problematic near the coast, and our reservoirs fluctuate to wildly to be safe coolant pools. Also, it takes 10-20 years to bring a plant online, and that's too slow.
19:10:59	Preston Brown	I think you need rephrase this question the possible selections seem to indicate themes of things that would obstruct the progress of decarbonization not as things of themselves that would impact. These ideas need to be separated. Thanks.
19:11:01	Craig Jones	It will take DECADES for nuclear generators to be online, in the meantime we need to really promote distributed rooftop solar . . . including aggressive installation in disadvantaged communities
19:11:06	Masada Disenhouse she/her	Yusef Divest CALPERS & CalSTRS from fossil fuels
19:11:09	Heather Hofshi	+Yusef!
19:11:13	Katie Meyer	Yassss!!
19:11:20	Brenda Garcia Millan	great message Yusef!
19:11:21	Gloria Conejo She/Her	@Yusef miller
19:11:22	Jack Shu	Yay Yusef Miller
19:11:27	Debra Kramer	Yes Yusef
19:11:32	Kori Ellis	Regarding San Onofre Nuclear Generation Station: Reprocessing the nuclear spent fuel that we currently have can create thousands of jobs, create Hydrogen, zero carbon power to desalination.
19:11:33	Sonja Robinson	Yusef
19:11:36	Kerry FORREST	Dump solar and wind farms in downtown san diego and La Jolla



Time	Commenter	Comment
19:11:37	Courtney Ransom	Hi, I'm Courtney with the San Diego Democrats for Environmental Action and SD Green New Deal Alliance. I love the point on geopolitical cooperation and wanted to ask what you think this would look like as a strategy in San Diego. Is there an example issue where we could especially leverage geopolitical cooperation?
19:11:41	Vanessa Forsythe	Yes Yusef job training in new industries. Solidarity!
19:11:42	Jay Lukes, The Lukes Network	We all breathe the same air.
19:11:46	Katie Meyer	*snaps*
19:11:47	Adam Aron	Yay, nice Yusef!!! Let's work together Union, there are plenty of jobs in the transition. Leave fossil fuels out of it!
19:11:52	Marilyn Bruno	We have been working with DOE (Lawrence Berkeley National Lab, Sandia National Lab, etc.) for the past 3 years, demonstrating that the fastest, cheapest green biofuel production is from algae. Production can be done in backyards, rooftops, unused land, or mega algae farms - indoor and outdoor. These projects create new jobs (cultivation, biomass drying, shipping) and opportunities for downstream green co-products.
19:11:57	Wendy M She/Her	yes Yusef!!!!
19:12:02	Judi Schlebecker	Again the major source of GHG is from vehicles. An essential goal should be a great transportation system with low cost housing in transportation hubs. This should be #1 in Goal-based development.
19:12:25	John Eldon	algae -- yes!
19:12:26	Bill Tippets	Without Regional Integration this area will never get on track to get on decarbonization. That's currently the role that SANDAG is supposed to play (at least from the transportation system housing allocation frameworks). But SANDAG is really just the cities and county agencies, so those elected officials have to work together, not for parochial interests. They must commit to developing real (achievable, fundable, and timely/implementable) programs and projects. And that means they must put money/financing into the most effective and needed sectors (which embeds social/env. justice....).
19:12:34	Brian Shuck	What disadvantaged communities need for the coming future: air conditioning, air filtration, and EVs
19:12:40	Kori Ellis	Sir, it is not nuclear waste, it is nuclear spent fuel. More than 90% of the potential energy still remains within each rod.
19:12:45	Masada Disenhouse she/her	Bill, must be regional
19:13:15	Cathy Gere	Public transportation!! So important!! The electric car cannot solve this thing
19:13:44	Adam Aron	That public transportation needs to be electric too Cathy

Time	Commenter	Comment
19:14:01	Preston Brown	I don't think Plumbers have to worry, Have a look at Plumber Engineers magazine. They will be direly needed in the movement of water and liquids in the future.
19:14:10	Jack Shu	Let's not forget to place reduction of travel and use of energy as what we can do. It is the most cost effective. Poor people are already doing it. It's the well to do, high and middle income people who are driving up GHG emissions and pollution.
19:14:11	Tim Snyder	Other: A campaign for acceptance of the reduction of most standards of living.
19:14:13	Kori Ellis	Frank Landis, nuclear energy especially the newer generations can be put online within 10 years right in line with all of this decarbonization timeline.
19:14:37	Masada Disenhouse she/her	++ Bee!
19:14:39	Ann Feeney	We must stop the burning of fossil fuels, methane gas, in our homes. There are excellent all-electric alternatives to gas furnaces, gas water heating and gas stoves. The County should mandate that all new construction and major renovations be all-electric. The County should also develop a plan to incentivize retrofits of existing buildings.
19:14:41	John Eldon	Need plug-and-play (120VAC, 20A) heat pump appliances to replace natural gas dryers and water heaters without expensive home rewiring.
19:14:42	Brenda Garcia Millan	Agree with Cathy: efficient public transit is key! it must be affordable and accesible to everyone.
19:14:44	Jose Torre-Bueno	the new gen reactors are still experimental we would not count on them
19:14:52	Sonja Robinson	Great comments Bee +++
19:15:01	Susan Wayo	Great comment about need to counter misinformation especially from fossil fuel based industries
19:15:20	Jack Shu	Ask the people in Japan what they think of nuclear power.
19:15:29	Tina Tran	As a youth, we need to stop extracting fossil fuel, but also not look to use nuclear energy. Nuclear waste is radioactive, we cannot dispose the waste in a safe manner. We see that currently in Japan.
19:15:41	Ashley Jabro	we need more public transportation and that transportation must be near where people live and work. less sprawl, more density
19:15:49	Annie A.	I'm a journeywoman plumber for local 230. Its important to use a balanced approach when decarbonizing our regions. Renewable natural gas will reduce green house gas emission, divert the landfill waste, and create high-paying Union jobs. Renewable natural gas projects capture the methane from existing food waste, animal manure, waste water sludge and garbage and redirect it away from the environment while repurposing it as clean green energy sources. I support the use of Renewable natural gas, hydrogen, long duration pump storage pump storage, CCUS, and nuclear energy as excellent options for this decarbonization framework.

Time	Commenter	Comment
19:16:10	Bea Alvarez - Carbon Sink Farms	Land Use (agriculture and conservation)
19:16:20	Craig Jones	Strategies as pathway to decarbonization: YES, transportation and land use! End land use sprawl, insist on coupling development intensification with WORKING public transportation.
19:16:23	Masada Disenhouse she/her	++ Nastassia transportation is the biggest component + we need a functional transit system!
19:16:31	Brian Shuck	We need to retrofit housing for getting gas out, including EV charging infrastructure, and solar installations. Local microgrids for resilience.
19:16:43	Kyle Heiskala, Environmental Health Coalition	a. we need to invest limited resources in zero-emission mass transit to reduce dependency on cars, and to electrify heavy-duty trucks - that charging infrastructure needs to be prioritized in environmental communities first
19:16:55	John Eldon	Public transit is no help without solving the "last mile" problem. The "first mile" problem is trivial to solve with park-and-ride, bike-and-ride, etc., but if you can't get to your destination and back, public transit is useless.
19:16:57	Brenda Garcia Millan	transportation & land use: we need to stop sprawl development and build more affordable housing within existing communities. We won't achieve our goals if we keep forcing people to drive long distances to carry on essential activities like shopping, working or going to school.
19:17:06	Craig Jones	SANDAG's proposed "5 Big Moves" plan is a START to functional public transportation, we need more and faster
19:17:06	Vanessa Forsythe	Great point by Bee not just new buildings but also retrofitting new buildings. Note not everyone can afford an EV still and mining of rare elements for and disposable of batteries is an issue. EV not a ure all.
19:17:08	Mary Yang	We need to consider workers that will be affected but we should not fall for false solutions. August 2021 - New Report showing why hydrogen is a false solution for replacing fossil fuels for heating & cooking in homes & buildings. <a href="https://earthjustice.org/features/green-hydrogen-renewable-zero-emission">https://earthjustice.org/features/green-hydrogen-renewable-zero-emission</a>
19:17:22	Peter Zahn	Good point about reactors Jose. Regardless of their waste issues, which are terrible and unresolved, the technology is way to costly to go forward
19:17:25	Katie Meyer	Thats true Nastassia, transit is crucial
19:17:36	Ashley Jabro	would like to see the county raise awareness about the negative health effects of gas stoves and offer families free or affordable alternatives
19:17:42	Masada Disenhouse she/her	Mary
19:17:43	Brian Shuck	Autonomous EVs will solve the last mile personal transport problem fairly soon.

Time	Commenter	Comment
19:18:17	Terri Steele	Right on Yusef (and Nastassia)! San Diego's Barrio Logan has the third worst air quality in the state. I've been working with the community to initiate The Green Ride, an app-based electric vehicle shuttle system to address the environmental injustices that have plagued free-way and port-proximate communities for years by reducing vehicle trips, addressing parking congestion and air quality issues and ameliorate the challenges parking congestion imposes on local businesses. It can be easily replicated to create healthier, more walkable communities and then interconnect them across the region.
19:18:36	Peter Zahn	Good points about the need for outreach - on issues like building electrification, electric induction cooktops!
19:18:43	Yusef Miller Cleaneart4kids and NSDC-NAACP	Thar's right Terri
19:18:49	Valerie Lake	Some focus and investment should be on new tech to address reducing GHG in Existing vehicles and buildings. Solar and EVs are not the only solutions. Much of suburbia will never have convenient public transit or afford EVs and solar retrofits.
19:19:05	Adam Aron	Carbon capture and hydrogen and promoted by the fossil fuel industry to keep doing the same thing.
19:19:06	Danny	The City of SD and County of SD's multi-hauler trash collection services are ridiculous. Why are 10+ trash trucks going through streets and alleys to collect just 3 waste streams!? In addition to unneeded GHG emissions, trash trucks are the heaviest on the road - tearing them up causing undue infrastructure investment from jurisdictions. It also lessens the quality of life for residents. Stand up to industry to make the changes necessary to achieve all of these climate goals. While some industries will undoubtedly suffer, others will absolutely flourish. Sustainable industries should be rewarded.
19:19:10	Craig Jones	Hydrogen is not green today; it's produced from fossil fuels
19:19:15	Courtney Ransom	Energy: Electrification! SDSU Mission Valley committed to building their Mission Valley campus to being nearly all electric and LEED Gold building standards on the site. This required a lot of pushing but could be possible for all developers.
19:19:23	Jack Shu	We can start addressing transportation by changing our funding system for road and freeway maintenance. Changing from fuel tax to road use fees will help reduce congestion and pollution. What we have now is not equitable.
19:19:32	Cathy Gere	Can someone from the unions please explain the link between diverse fuels and jobs?
19:19:50	Preston Brown	This question on strategies, it is splits in the purpose from the question to the possible answers. You ask about strategies then you give us choices users of or producers carbon. These are 2 different ideas. For instance, ENMERGY is not a strategy.
19:19:59	Brian Shuck	Allow voting on comments here in the future

Time	Commenter	Comment
19:19:59	Ann Feeney	Agree with Mary that hydrogen and renewable natural gas are not good solutions. Stopping the burning of fossil fuels ASAP should be our approach. We are in a "Code Red for Humanity" crisis that demands immediate action.
19:19:59	Mary Anne Viney	Why are GHGs from aircraft not included in our GHG county inventory? We have many airports located within 10 miles of low-income and disadvantaged communities. Communities have the right to know.
19:20:20	John Eldon	Replace sprawling business parks and commercial centers with mixed-use with affordable housing.
19:20:28	Jose Torre-Bueno	I dont think we should choose alternatives because they currently are employing workers. It needs to be the other way around. We need to figure out the optimal strategies and then retrain any workers who are displaced by any changeover.
19:20:37	Cathy Gere	There is not enough renewable natural gas to make a dent climate change
19:20:50	Ann Feeney	** agree with Jose
19:21:19	Toshi Ishihara	Make public transit free to all county residences. It does not cost much. Only 30% (?) of MTS revenue is coming from ticket sales. Then increase gasoline tax and implement road use fees.
19:21:19	Jack Shu	We can also take away the idea that "free parking" exist. all parking should have a price.
19:21:22	Margaret "Peggy" Budd	What makes sense to me is to eliminate more carbon in the air by cutting it at the source; i.e. stop fossil fuel corporations from drilling and fracking, and putting the oil in pipelines. This stoppage can be "encouraged" by divesting from these corporations, the banks, and insurers that fund their projects. I suggest that San Diego County do that divestment in the County's Pension plan. Supervisor Vargas as a member of the SDCERA Board could look into that as part of the decarbonization plan.
19:21:26	Kerry FORREST	If you have ever been in a commercial kitchen all the ranges and ovens are gas for good heat control with cooking. if you go to all electric you can kiss your fine dining restaurant experiences good by
19:21:42	Vanessa Forsythe	have smaller generation sites that are eltrical and available to communities
19:21:49	Vanessa Forsythe	yes local hire
19:21:51	Wendy M She/Her	A plumber installed my electric heat pump water heater. a low-emission climate friendly alternative to gas
19:21:54	Courtney Ransom	Energy: Energy efficiency and solar incentive programs, especially on bill financing and for multi-family housing
19:22:01	Jose Torre-Bueno	actually that is not true at all induction ranges work fine and there will be a presentation about that in SD
19:22:09	Bee Mittermiller	The water infrastructure in the County is in desperate need of work. = alternate work for gas workers?
19:22:13	Cathy Gere	Thanks for this input. Cristina! We need to make transition jobs into good union jobs!!
19:22:15	Ann Feeney	Induction cooktops have precision control of temperature of cooking. You do not need gas stoves for that

<b>Time</b>	<b>Commenter</b>	<b>Comment</b>
19:22:29	Brian Shuck	A carbon tax would go a long way towards the goals; reduce ICE use and air travel until planes become clean
19:22:31	Bee Mittermiller	True Ann!
19:22:36	Craig Jones	San Diego region has incredible potential to become a world leading clean energy and storage leader, this can create incredible work opportunities
19:22:41	Brenda Garcia Millan	a. Transportation & Land Use: we need to build more missing-middle housing projects (ADUs, cottage courts, fourplexes, etc). We can look at examples from other West Coast cities like Portland, Oregon.
19:22:56	Nancy Petitti	Improved public transportation systems must be paired with a large push to increase the number of low/no emission vehicles. And a marketing campaign to convince people that they can ditch their cars for public transport without experiencing a major loss of accessibility.
19:23:20	Ellee Igoe	What kind of incentives can be advocated for in this Plan to help industry transition to solar, electrical and other climate smart practices? What types of shovel ready projects can we include in the Plan to be ready when Federal infrastructure \$\$\$ start to flow?
19:23:48	Jim Peugh	I hope that we will seriously look into how to optimize nature-based carbon sequestration. It has some attractive by-products. It would discourage sprawl and encourage saving habitat for native species. It would probably be relatively low cost. We would probably need to improve our fire fighting capabilities, but we are going to have to do that anyway.
19:23:50	Brian Shuck	Let's be real on mass transit. We can't fill the trains with surfboards, etc. We have to get ICE off the roads
19:23:52	Shelah Ott	Ellee
19:24:03	Clemencia Pinilla	I think Vanessa brings a very important point! Thank you Vanessa!
19:24:06	Bee Mittermiller	Kerry, a good cook does just as well with all electric
19:24:26	Dianne Woelke	Hi, Vanessa. I'm a retired Advanced practice and public health nurse. Please provide link to your organization
19:24:35	Anne Sheridan	We should be counting all emissions that result from activity that takes place in the county. For example, this would include conducting a life-cycle analysis of products and materials that the county - or even the public at large - purchases even if the emissions occur outside of the county. It doesn't matter where the emissions occur if our activity is causing it.
19:24:54	Masada Disenhouse she/her	strategies: All of the above

Time	Commenter	Comment
19:25:05	Heather Hofshi	Fine dining won't survive the effects of climate change except for the super wealthy if we don't act. Good chefs can learn to cook on new stovetops, but restaurants will struggle in a future marked by frequent disasters and economic instability. Doubt people in New Orleans are super concerned about fine dining this week.
19:25:20	Kori Ellis	Technologies that should be considered on path to decarbonization while creating good union jobs during our transition- Renewable natural gas, Hydrogen, Carbon Capture Utilization & Sequestration, Geothermal & Long Duration Pump Storage, Water batteries, Hydroelectricity, & Heavy Duty Transportation Technologies
19:25:33	Vanessa Forsythe	<a href="https://www.climatehealthnow.org/mission">https://www.climatehealthnow.org/mission</a> health care providers come join us
19:25:34	Rosa Alcaraz	We need to work on our mass trans system by making it affordable so more folks can use the trolley, rail service
19:26:05	Brian Shuck	As was said, setting higher gasoline taxes will help
19:26:36	Jack Shu	Let's make sure Project Labor Agreements or Community Benefit agreements are part of the plan. This will protect workers, keep quality apprenticeship programs and support local labor.
19:26:41	Laura Hunter	A focus on EJ communities and those that constitute the 'heat-islands' and often the food deserts in our communities should be a focus. There could be a very focused effort to address the vulnerability in these neighborhoods. It could include building retrofit program (job creator), increases in the urban forest, covering rooftops/parking lots/roads with solar panels (job creator). I would also recommend the County help us get rid of the energy 'wheeling' prohibition so that neighborhoods could actually create and share energy created and even perhaps an economic benefit to those residents. We need to deploy rain water capture and rain water capture (jobs) which could also support community and individual gardens through out our urban areas so they can become more resilient, food secure.
19:26:44	Ann Feeney	Heat pump water and space heaters, induction cooktops. These are mature technologies, and are in widespread use elsewhere in the US and overseas. No reason to use methane gas-burning appliances in the home. In addition, gas stoves produce high levels of indoor air pollution, resulting in severe health risks, especially asthma and other respiratory diseases.
19:26:45	Masada Disenhouse she/her	katie we need to stop sprawl and engage with union members
19:26:58	John Eldon	Revenue-neutral carbon tax-and-rebate.
19:27:05	Brian Shuck	Paint roofs white; no-brainer.

<b>Time</b>	<b>Commenter</b>	<b>Comment</b>
19:27:10	Robert Lewallen	Rob Lewallen, Chair of the Ramona Design Review Board here..... This is a comment about the CA PUC. It seems to me that folks generating power with their rooftop photovoltaic systems need to be reimbursed for excess power that they put back into the grid - through the utility companies - at a more equitable rate than the meager, existing, lower-than-wholesale amounts. If we could get that up to closer to what we are charged for power, many folks would then install oversized systems..... creating a whole lot of individual electrical power suppliers with no costs other than that to the individual home system owners . The infrastructure system is already in place via the existing distribution systems already in place. This would eliminate much of the need for new transmission lines and help to reduce the use of dirty electrical generation. Thanks for “listening”.
19:27:31	Cristina Marquez	Thank you Cathy Gere!
19:28:03	Kerry FORREST	I agree Rob
19:28:07	Shelah Ott	Go Sonja!
19:28:08	Debra Kramer	I agree Sonja
19:28:13	Craig Jones	Google energy storage ideas: many of these will work well, e.g. industrial size new-generation flywheels, and non-flammable next-gen lithium and other batteries. Again, where there is a will, there is the way
19:28:23	Yusef Miller Cleaneearth4kids and NSDC-NAACP	Yes Sonja!!
19:28:24	Brenda Garcia Millan	well said Sonja!
19:28:27	Laura Hunter	Last, it would be great if this plan could propose consistent sample policies for cities. For example, Escondido just voted down its Planning Commission's proposal for an Urban Greening Plan. This was a huge loss for our residents. This decarbonization plan could really offer policies and clear directions on the kinds of actions and policies that are needed in the region. If the County helped fund those actions....that would also help too!
19:29:00	Nancy Petitti	Agreed, Sonja!
19:29:05	Bill Tippetts	Top priorities for decarbonization: reformed transportation infrastructure/system; new housing/development in Smart Growth areas; all new building must be zero net energy by 2030 and any sale/redevelopment project must be net zero. Finally, micro and smaller photovoltaic and wind (where feasible) facilities should be put on (financed by public funds to a reasonable degree) all buildings. Do Not defer to megascale,PV on out lands (wind facilities are much more topographic limited, but even these should not be placed in highly sensitive or rare habitat areas).
19:29:11	Craig Jones	laura
19:29:42	Brenda Garcia Millan	laura Hunter



<b>Time</b>	<b>Commenter</b>	<b>Comment</b>
19:30:02	John Bottorff	New nuclear power costs about 5 times more than onshore wind power per kWh. Nuclear takes 5 to 17 years longer between planning and operation and produces on average 23 times the emissions per unit electricity generated. In addition, it creates risk and cost associated with weapons proliferation, meltdown, mining lung cancer, and waste risks. Clean, renewables avoid all such risks. Mark Z Jacobson, Professor of Civil and Environmental Engineering & Director, Atmosphere/Energy Program, Stanford University
19:30:15	Kerry FORREST	roof top solar with batteries using existing distribution systems is the way to go. The sunrise power link has destroyed our viewscape and we still have power alerts and shutoffs
19:30:20	Terri Steele	Cristina - there is a pilot project in San Diego County that provides monies for lower income families to get into the EV market...then there are options for EV-PV (Electric Vehicles Powered by Photovoltaics). San Diego needs to be poised to immediately harness infrastructure monies coming out of Washington for EV modernization. The training of your workers in EV infrastructure and maintenance is terrific! If the County could be a repository for the full gamut of state, local and federal incentives available to help each citizen, business owner, laborer with assistance (incentives that inspire them to identify and act on where they fit into achieving our regional decarbonization strategy) we can really have an impact (and overcome prospective political obstacles to boot!)
19:30:23	Jack Shu	One measure of equity is when a person who lives in Logan Heights and travel (on public transit) 5 miles in the same time that someone who lives in La Jolla drives 5 miles.
19:30:36	Masada Disenhouse she/her	Sonja to metrics and a taskforce to ensure equity
19:30:40	Craig Jones	AGain: subsidize installation of photovoltaic solar in underserved communities, on apartment buildings, etc.; for more equity
19:30:48	Katie Meyer	Sonja
19:30:53	Aleksandra Ristova- Sanyal	Well said, Sonja!
19:30:57	Brian Shuck	We need more public education, starting in schools if we need by-in. Because people are resisting what needs to be done already
19:31:07	Heather Hofshi	+Sonja!
19:31:16	Laura Hunter	I agree with Sonja about the creation of a panel or advisory group to oversee the development of the plan. It might be a good model that when CARB was developing the AB32 plan, there was a statewide Environmental Justice Advisory Group. It might be a good model.

Time	Commenter	Comment
19:31:32	Kyle Heiskala, Environmental Health Coalition	offer compensation to people living in environmental justices communities for sharing their lived experience
19:31:34	John Bottorff	Carbon capture is expensive, unproven technology. It is unnecessary. Existing clean energy solutions already exist
19:31:45	Nancy Petitti	Retrofitting (Greening) existing buildings can be a low-cost solution that would provide jobs for the construction industry as well.
19:31:57	Courtney Ransom	We are freaked out!
19:32:02	Margaret "Peggy" Budd	San Diego County divest from fossil fuel corporations the banks and insurers that back their projects. Supervisor Vargas is on the pension board. that can happen now and stop more carbon in the air.
19:32:14	Shelah Ott	Yes Adam!
19:32:15	Masada Disenhouse she/her	1) call it something more accessible than RDF 2) community workshops 3) conversations at schools, businesses, churches, etc. 4) show people how climate impacts them and invite them to be part of the solution
19:32:34	Jose Torre-Bueno	Divest is a good start !
19:32:34	Masada Disenhouse she/her	++ Peggy Divest from fossil fuels now!
19:32:36	John Bottorff	Ideas for the future....offshore wind to create not just clean energy, but green hydrogen which can be used to store energy, power ships, trains, etc
19:32:38	Dianne Woelke	Addiction to fossil fuels and plastics is what has happened. Turn Off the Tap!
19:32:55	Wendy M She/Her	CLIMATE EMERGENCY
19:33:05	Masada Disenhouse she/her	Adam - specific, enforceable plan that keep fossil fuels in the ground
19:33:07	Maleeka Marsden	A few questions/recommendations: This plan was originally called a "zero carbon" plan, and the goal was to commit to zero carbon (getting off fossil fuels entirely) by 2035. I want to confirm that is still the plan? Also, along with the jobs/workforce analysis, will it also be coupled with policies to keep workers whole and ensure a just transition? Regarding centering justice and equity—will the county do outreach to working class communities of color to create policies to make sure that benefits and investments are prioritized in these communities? Lastly, this plan should be specific and actionable (we need this to be more than a high level document), and progress should also be tracked. Additionally, measures included should be coupled with a cost analysis, and ideally identify funding sources as well.

<b>Time</b>	<b>Commenter</b>	<b>Comment</b>
19:33:29	Craig Jones	Engaging the community: yes, to Sonja's idea of an advisory committee for equity. And also for engagement: KEEP saying, publicizing, the need and the potential solutions, positive ideas, OVER and OVER again
19:33:30	Shelah Ott	Engaging the community - working with community leaders in communities of concern and providing compensation for participation for those folks. ++ Sonja's recommendation to create an environmental justice advisory board
19:33:45	Brian Shuck	On the topic of plastics and the microplastic pollution, encourage the purchase of more sustainable clothing; see Patagonia and Prana brands.
19:34:00	LYNDA DANIELS Sierra Club	we can cooperate if there is a will to do so!
19:34:03	Ann Feeney	Adam. Agree with all you are saying.
19:34:12	Masada Disenhouse she/her	same for the high school students we work with
19:34:17	Maleeka Marsden	+++
19:34:19	Sonja Robinson	Thank you for your comments Adam +++
19:34:26	Tina Tran	Adam
19:34:26	Jack Shu	Equity is also when the air quality from one part of county to another is good enough for a child to safely play outside.
19:34:32	Craig Jones	To end plastics pollution, laws must simply outlaw their use - esp. use-once plastics
19:34:42	Vanessa Forsythe	Agreed we need to communicate hope and action! Yes many young people are resigned to climate change ending our world.
19:34:44	Sonja Robinson	Absolutely Jack...thx for saying that
19:34:46	Kyle Heiskala, Environmental Health Coalition	Carbon capture, utilization and sequestration (CCUS) is a false solution to climate change and dangerous distraction. We need direct emission reductions, using proven zero-emission technologies
19:34:50	Laura Hunter	It would be great if the County would fund a Climate Commission and climate organizers in every city or at least in every region of the County so that there could be direct communication to city leaders from the most impacted communities. We need to develop a formal channel of communication and we don't have it now. It would be great to have the County hire youth organizers to do outreach deep into the communities.
19:35:05	Tim Snyder	Participation: Be honest with the communities about the changes coming to their standards of living; transportation, power usage, real property, recreation, independence and more.

<b>Time</b>	<b>Commenter</b>	<b>Comment</b>
19:35:06	John Bottorff	"Natural" gas is methane. We need to stop allowing it in new construction in the county. No exceptions. There are electric alternatives for everything already available. Combined with rooftop solar makes it all very efficient
19:35:18	Jose Torre-Bueno	The key is going to be engaging workers without making the solution keeping the existing jobs in tasks that need to change. The unions need to recognize that their interests are not identical to the companies.
19:35:33	Shelah Ott	Yes Bea!
19:35:51	Sydney Pitcher	Clean transportation, storm water capture and rain harvesting, pandemic preparation and prevention, green hydrogen, fire prevention, forest restoration and protection
19:36:14	Kori Ellis	John, methane occurs naturally- through food, through waste, through fertilizer, through animals, and through humans.
19:36:25	Brenda Garcia Millan	I think it's important to work with students. We could use service-learning programs and partnerships with universities and k-12 schools.
19:36:25	Vanessa Forsythe	Agree with Maleeka action that is measureable.
19:36:27	Clemencia Pinilla	Thank you Adam! We definitely need think long term! Anything that we can do to make the world just a little better.
19:36:34	Debra Kramer	Yes Bea
19:36:36	Brian Shuck	We also need more air quality sensors. The EPA and therefore SDAPCD has failed us here. We will not be able to measure those equity improvements.
19:36:51	Cathy Gere	Renewable natural gas, 'blue' hydrogen, and carbon capture should not be included in the RDF: these are industry strategies for keeping the carbon bubble inflated
19:37:10	John Bottorff	Yes, Kori. It does. But SDGE is not piping that into homes and businesses. They drive the fracking industry which is incredibly destructive
19:37:16	Adam Aron	Agree with Cathy
19:37:23	Shelah Ott	Ellee
19:38:03	Ann Feeny	Agree with Cathy - keep RNG, CCS, hydrogen out of the RDF
19:38:06	Brian Shuck	Yes, on food, we can buy more at local low-carbon farms.
19:38:07	Shelah Ott	Recommended read is "Global Food Futures: Feeding the World in 2050"
19:38:08	Sonja Robinson	Thx for sharing Elle
19:38:12	Sydney Pitcher	Those are some ways we can fight climate change and do not forget we need to phase out bee killing pesticides.
19:38:36	LYNDA DANIELS Sierra Club	Agree! Both needed!

Time	Commenter	Comment
19:38:44	Toshi Ishihara	It takes so much energy to make microchips for iPhone, EV, and others. I heard that Taiwan is building power plants to support TSMC and other companies to increase capacities. We need to make people aware of all those costs and impacts on our environment. Lots of energy and materials are used to build cars including EVs. We need to reduce our energy and material consumptions. Unless people change their behaviors, everyone will lose ( very soon).
19:38:49	Adam Aron	We need a plan of Towards Carbon Zero, bold, enforceable, now, and NOT “net zero” or “carbon neutral”: those are excuses to do nothing now, and to rely on technological rescue in the future.
19:38:56	Suzanne Hume CleanEarth4Kids.org	Go Sonja! So many great ideas in the chat! Awesome Community! Thank you, Jack Shu! And, Way to Go Yusef #Divest from fossil fuels! Let's make it happen! #Divest SDCERA, Cal PERS, Cal STRS... And, way to go youth, interns, volunteers! Sydney Pitcher, great work on #Divestment, clean air, water, stopping pesticides! Healthy soils are vital for a climate action plan! We have the pesticide data from what is being used on County of SD Lands. <a href="https://cleanearth4kids.org/stop-pesticides">https://cleanearth4kids.org/stop-pesticides</a> . We need a strong County IPM! We would love to collaborate! Yes! We need a bold plan. A link to our CleanEarth4Kids.org Action Plan is on CleanEarth4Kids.org. <a href="https://cleanearth4kids.org/clean-earth-4-kids-cap">https://cleanearth4kids.org/clean-earth-4-kids-cap</a>
19:39:02	Masada Disenhouse she/her	including aviation
19:39:21	Mary Yang	For engagement - SD Region should have a weekly TV or radio show that engages residents, workers, policy makers, businesses -- . Need platform for discussion and education. e.g. can interview homemakers/chefs re. induction cooktops, get input from labor, contractors, input from scientists, farmers, CCAs .... Share solutions on what we can do together and individually.
19:39:33	Karl Aldinger	Ellee's point about food supply risk is a huge concern. Our number one crop in San Diego is non-native landscape plants which is a bad priority.
19:39:34	Cathy Gere	the difference between carbon neutral and zero carbon is huge! I hope the RDF really hews to the latter
19:39:42	Bea Alvarez - Carbon Sink Farms	@sydney pitcher indeed, eliminate the use of pesticides and chemical fertilizers
19:39:56	Danny	we really need to be carbon negative at this point. that is why carbon capture and sequestration is so important. use nature - plant trees, apply compost and mulch. even consider planting kelp forests and restoring wetlands
19:40:09	Danny	subsidize regenerative farming

Time	Commenter	Comment
19:40:12	Nancy Petitti	The fear for the future that so many people are expressing doesn't seem to have swayed a large percentage of our population. The fear of losing their way of living (driving, suburban communities) seems to outweigh the need for change to them. One way to convince people would be to start successful model projects that don't require big lifestyle changes for individuals to show the potential benefits of scaling up.
19:40:12	Masada Disenhouse she/her	Scott - building electrification now
19:40:18	Bee Mittermiller	Thank you, Scott!!
19:40:28	Kori Ellis	Danny- Totally agree!!
19:40:50	Cathy Gere	I agree with Karl Aldinger that natural carbon capture should be talked about separately from technical CCS
19:40:57	Brian Shuck	We should limit hydrogen delivery, even when we get green hydrogen, as who will have H2 pipes in their neighborhoods?
19:41:04	Shelah Ott	Prioritizing communities of concern in electrification is key so they're not left behind or further burdened by costs they can't afford. Funding and creative solutions are needed
19:41:06	Adam Aron	Agree with Karl and Cathy.
19:41:10	David Pearl	Well said, Bea - agree 100%! Sequestration benefits of carbon farming are highly applicable in San Diego County and represent a win-win solution. As you said, incentivization and pilot projects are the path forward. SanDiego350's Food and Soil Committee strongly supports this.
19:41:12	Courtney Ransom	Scott, so cool to hear!
19:42:03	Heather Hofshi	Scott! Better to act now than have to fix our avoidable mistakes later. Penny wise and pound foolish
19:42:06	Brian Shuck	Yes; per the caller. No more gas allowed in new construction is another no-brainer.
19:42:13	Karl Aldinger	Building Electrification is definitely a critical move. Solar plus electric appliances are the most efficient and cheapest, most cost equitable route. Gas prices will rise as it is phased out which places heightened burden on the last people who are left using gas.
19:42:30	Toshi Ishihara	County staff members, Thanks for arranging and supporting this event.
19:42:39	Adam Aron	Agree on building electrification, let's do it!
19:42:42	Sonja Robinson	Thank you County Staff
19:42:43	Cathy Gere	The new UCSD Hillcrest Hospital is projected to be 96% electric
19:42:46	Ellee Igoe	you are doing a great job facilitating!
19:43:02	Nancy Petitti	Can we get a copy of this chat stream?
19:43:20	Kori Ellis	You're doing a great job!

<b>Time</b>	<b>Commenter</b>	<b>Comment</b>
19:43:31	Masada Disenhouse she/her	click the 3 dots and say "save chat"
19:44:15	Nancy Petitti	Thank you, Masada!
19:44:28	Sydney Pitcher	Also, we should start building buffer zones that will reduce coastal flooding in the wake of rising seas.
19:44:34	LYNDA DANIELS Sierra Club	cruise ships pollute our oceans!
19:44:35	Scott Shell	I'd also like to recommend consideration of embodied carbon in new construction. There have been huge progress in the last few years to reduce embodied carbon in a cost effective and replicable manner. San Diego region already uses limestone/Portland cement and could be a leader in this regard.
19:44:36	Frank Landis	I'd love to see architects design homes whose roofs can hold enough solar to charge a car once per week (4 miles driven per kWh). How about garages where there's space next to the main circuit breaker box for a house battery? How about garages under apartments that are above the local water table, so that we don't have huge amperages meeting dirty water?
19:44:52	Craig Jones	Robin: the most cherished values of our rural communities will be best served, by keeping them rural - stop urban/suburban sprawl
19:45:01	Brian Shuck	For Robin and horse trailers, etc. Within 2 years, electric pickups will be out and better than the old ones
19:45:04	Jack Shu	No reason why all new homes and buildings should be net carbon zero with no off sets.
19:45:59	Masada Disenhouse she/her	Jim to public outreach and communication
19:46:02	Ashley Jabro	well said jim
19:46:05	Adam Aron	Good point Jim
19:46:07	Kerry FORREST	To engage with the community you need to talk with the planning groups who hold community meetings once a month in the community with the community
19:46:09	Nancy Petitti	Thank you, Jim!! Communications are key!
19:46:13	Brian Shuck	Per Jim's call: we need very much public education to undo decades of disinformation
19:46:16	Jack Shu	Great point Jim
19:46:48	Suzanne Hume CleanEarth4Kids.org	Yes! Building electrification! Stop natural gas in new construction! Why should people be exposed to air pollution when they are cooking dinner? Great job to Jim Wang for ALL of his important work and video with Leana and youth! Go SD Building Electrification Committee! Go Encinitas staff and city council for SO many reasons!
19:47:21	LYNDA DANIELS Sierra Club	Stop calling it natural gas - call it methane + pollutants!

Time	Commenter	Comment
19:47:34	Courtney Ransom	On engaging the community: granicus is awesome—get people on granicus, get young people on with creative content on new channels of social media (Instagram, TikTok?), give people food/things/money/appreciation when they participate
19:47:44	Yusef Miller Cleaneart4kids and NSDC-NAACP	AMEN RICK!!!!
19:47:54	Adam Aron	Just transition for the union workers ... great points Rick
19:48:02	Susan Wayo	Agreed! Not “natural gas” because it isn’t! It is methane +!
19:48:11	Brian Shuck	For the many jobs will be going away, we need much retraining. But more importantly, as we go to more robot and AI work, a Universal Basic Income would be needed.
19:48:16	Jose Torre-Bueno	Rick is spot on.
19:48:38	Yusef Miller Cleaneart4kids and NSDC-NAACP	Let's lay it out clearly for our Labor Brothers and Sisters!!!
19:48:41	Vanessa Forsythe	Yes aviation and GHG big issue and we should be looking to impact at county level and our airports. Yes stop calling it "natural gas". It is a lot about the way we are told things are and mis communicated
19:48:52	Jack Shu	Rick makes wise comments.
19:48:57	Masada Disenhouse she/her	++ Rick!
19:49:00	Katie Meyer	Agree with Rick\
19:49:01	Tessa Pierce Ward (she/her)	Methane was mentioned earlier in the chat, but wanted to bring it up again. Methane warms the planet 86 times as much as carbon dioxide over a 20-year period. Reducing methane emissions can provide some immediate benefits as we work on longer-term decarbonization. Reduction strategies include fixing gas pipeline leakages (or ideally reducing gas transport and utilization as much as possible), driving improved agricultural practices, and ensuring improved waste treatment and diversion, including food recovery and composting.
19:49:08	Marilyn Bruno	Register for DOE webinar on 09/15 - Local Energy Action: Building an Equitable and Sustainable Future with Communities - <a href="https://www.zoomgov.com/webinar/register/WN_qRp07KZvQ30BvSxjadXkxw">https://www.zoomgov.com/webinar/register/WN_qRp07KZvQ30BvSxjadXkxw</a>
19:49:10	Clemencia Pinilla	I think the fact that we are having this discussion is a good start to hear all the voices. I do not think that today we are being presented a plan. I find fascinating that the voice of the youth is much more concern and more open to new ideas! We must be open to new possibilities.
19:49:29	Murtaza Baxamusa	<a href="https://www.sandiegocounty.gov/content/sdc/sustainability/regional-decarbonization.html">https://www.sandiegocounty.gov/content/sdc/sustainability/regional-decarbonization.html</a>



Time	Commenter	Comment
19:50:06	Scott Shell	San Francisco is doing interesting work on a plan to decarbonize large commercial buildings over a decade. Requiring a Strategic Decarbonization Assessment and timeline aligned with existing building leases and renovations. <a href="https://sfenvironment.org/energy/strategic-decarbonization-assessment#:~:text=A%20long%20term%20financial%20planning,and%20electrification%20in%20San%20Francisco&amp;text=The%20Strategic%20Decarbonization%20Assessment%20(SDA,owners%20be%20more%20carbon%20aware.">https://sfenvironment.org/energy/strategic-decarbonization-assessment#:~:text=A%20long%20term%20financial%20planning,and%20electrification%20in%20San%20Francisco&amp;text=The%20Strategic%20Decarbonization%20Assessment%20(SDA,owners%20be%20more%20carbon%20aware.</a>
19:50:10	Rosa Alcaraz	I think you should contact schools, the CBO's in the community to help spread Decarbonization because I don't think that most folks understand decarbonization!
19:50:10	Rebeca Appel   County of San Diego	Link to some reports mentioned in Elena Crete presentation: IPCC 6th Assessment Report (2021): <a href="https://www.ipcc.ch/report/ar6/wg1/">https://www.ipcc.ch/report/ar6/wg1/</a> - Zero Carbon Action Plan, Sustainable Development Solutions Network: <a href="https://www.unsdsn.org/Zero-Carbon-Action-Plan">https://www.unsdsn.org/Zero-Carbon-Action-Plan</a>
19:50:36	Brian Shuck	I just want to point out that the time for the actions that we are discussing was 10 or more years ago. We are now in an emergency caused by emissions from decades ago, as i understand.
19:51:04	Suzanne Hume CleanEarth4Kids.org	Rebates... for gas powered Leaf blowers, lawn blowers, farm equipment. Let's protect workers and public from toxic pollution and greenhouse gases. SEQUEL is a group meeting every other Wednesday at 3 pm. Please join us!
19:52:09	Ellee Igoe	Come take a tour of our work on carbon sequestration and climate smart ag.... <a href="https://solidarityfarmsd.com/tours">solidarityfarmsd.com/tours</a>
19:52:10	Brian Shuck	For employers: educate them to not require that peoplle drive in every day for no reason, for those who can work from home.
19:52:15	Tim Snyder	Best Strategy: Be honest about the effect of programs to control "climate change" on the county residents.
19:52:18	Marilyn Bruno	Aequor is in several projects with DOE. We can provide info on the many federal loans, credits, incentives for green products. <a href="mailto:mbruno@aequorinc.com">mbruno@aequorinc.com</a>
19:52:28	Vanessa Forsythe	Murtaza please keep public part of Regional Collaboration communications.
19:52:53	Cristina Marquez	Berkeley Report - <a href="https://www.documentcloud.org/documents/7197687-UC-Berkeley-report">https://www.documentcloud.org/documents/7197687-UC-Berkeley-report</a>

Time	Commenter	Comment
19:53:06	Masada Disenhouse she/her	Hello - Masada Disenhouse with SanDiego350. Live in D2. Glad this process is underway - thank you. The biggest pieces for me are 1) This must be a regional effort, with a county-wide effort to build transit, affordable housing, and a green economy. 2) It must be bold, and it must start now. We must stop kicking the can down the road. There's no mystery about what we need to do - stop sprawl development, create a functional transit system, go 100% renewable energy for all home + business needs, etc. 3) The RDF must be specific and actionable - it can't be another unenforceable aspirational target, but an actual plan. 4) It must invest in making a healthy, sustainable future for everyone - end the disparity in air quality, access to transit and housing. And it must ensure that impacted workers are fully supported and protected during the transition. Question: What is the plan for working regionally - coming up with an accountable plan that actually gets done, across the county and 18 cities? Thank you!
19:53:28	Scott Shell	Some pilot projects to retrofit existing homes would be very helpful. Menlo Park is doing some interesting work in this regard, while avoiding expensive electric panel upgrades: <a href="https://www.youtube.com/watch?v=kojIFDKDtZU">https://www.youtube.com/watch?v=kojIFDKDtZU</a>
19:53:30	Andres Reyna	Local non-profit is working hard to increase our urban forest, <a href="https://www.treesandiego.org/">https://www.treesandiego.org/</a>
19:53:41	Rick Bates	Masada
19:53:44	Masada Disenhouse she/her	Thank you for your work Murtaza
19:54:05	Sonja Robinson	Murtaza...ECJ
19:54:07	Rick Bates	Thank you Murtaza and staff!
19:54:10	Andy Pendoley   MIG (Meeting Moderator)	<a href="https://www.sandiegocounty.gov/content/sdc/sustainability/regional-decarbonization.html">https://www.sandiegocounty.gov/content/sdc/sustainability/regional-decarbonization.html</a>
19:54:20	Courtney Ransom	Thank you staff for your work on this. It means a lot to have the county taking action, and it feels meaningful that we get to participate.
19:54:42	Shelah Ott	The regional decarbonization framework needs to be as specific and implementable as possible so that there is a concrete pathway to actually achieve Zero Carbon by 2035. I know many of us are afraid this will end up being another document that is focused on goals and values rather than the action steps that are needed. The RDF should also include a range of provisions to secure workers' rights and livelihoods as the regional economy shifts to a Zero Carbon economy, and prioritize good union jobs along with a jobs pipeline from Communities of Concern for working-class people of color. We need metrics and concrete action steps that reflect the crisis we're in.
19:54:57	David Harris	Thank you Rebeca and Murtaza
19:54:58	Courtney Ransom	True Shelah!
19:55:11	Heather Hofshi	Masada 'Let's' have vision and be bold, instead of stumbling one step at a time and getting there too late

<b>Time</b>	<b>Commenter</b>	<b>Comment</b>
19:55:21	Brian Shuck	Thanks all
19:55:23	Rosa Alcaraz	Thank you as well
19:55:25	Dianne Woelke	Agree with stopping urban sprawl into the WUI....people are having home owners insurance non-renewals in the thousands in this county....their know. Municipalities need to listen!
19:55:25	Shelah Ott	Heather
19:55:26	Philip Gibbons	Thank you
19:55:27	Vanessa Forsythe	Thank you staff it was worth attending.
19:55:28	David Flores	On behalf of Vice Chair, Supervisor Vargas, thank you everyone for all of your input, ideas, discussion. This has been a very rich conversation!! Appreciate all of your time and engagement! Thank you County staff!
19:55:28	Sonja Robinson	Thank you...
19:55:28	Tina Tran	Thank you
19:55:29	Jack Shu	Nice workshop, lots of public comments.
19:55:29	Sean-Keoni Ellis	Thank You all!
19:55:30	Suzanne Hume CleanEarth4Kids.org	Reduce plastics! Plastics emit methane (Dr. Sarah Jeanne Royer's discovery.) We must continue to pass Single Use plastic ordinances and work for natural grass- not synthetic turf! Great job youth for your videos!
19:55:30	Robert Lewallen	Andy - good moderating....
19:55:33	Clemencia Pinilla	thank you!
19:55:33	Shelah Ott	Thank you all!
19:55:34	Katie Meyer	Thank you!
19:55:34	Heather Hofshi	Thank you!
19:55:34	Cristina Marquez	We thank you!
19:55:38	Frank Landis	Thank you!
19:55:49	Mike Bullock	I got a postcard about the widening of I-5. The BOS should object!
19:55:51	Susan Wayo	Great program! Thanks
19:56:40	Terri Steele	Wonderful work, team! The energy exhibited here tonight is inspiring! so excited for what's to come...