Submitter Name	Organization Name	Places provide your general feedback on the modeling results for Clean PowerSE's 2022 Integrated	Based on your r
Submitter Name		Resource Plan (available for review at CleanPowerSF.org/resourceplan). What stood out for you?	have a recomme
Victor Hurtado	N/A	What stood out was your stance on promoting a policy agenda.	adopt? Why or v The SFPUC should
			public. Why? Bec
			energy use does
Andy Robin Douglas F	N/A N/A	Good analysis. I hope it fits with full CA plan. The concept of clean power is fantastic, but the issue is that this should be reducing our bills and not	Base Case or 90%
		increasing them. Clean power costs less than fossil fuels but yet, our bills are up over 30% since the selection. If PG&E can't do better, then it's time to take over our own destiny in SE	
Tom LaBelle Seymour	N/A	50% LESS without your organization. And yes I've heard how we are all supposed to benefit. But I can't	bedroom apartm
		wrap my head around that until I figure out why your side almost doubles my bill. To make matters worse I keep getting mailers sent to me saying that I'm using 33% more electricity than any typical	anyone else in th
		single-family home in my neighborhood! How is that possible?! Then I find out from PG&e that I have	
		account is. This is a Kafka-esque nightmare.	
Joe Morse	N/A	While mix of renewables is admirable, it should not be your primary focus. We need reliable electricity	Find the ones tha
Anonymous	N/A	at better rates than PG&E. Why isn't nuclear included? It is clean, reliable, and cost effective.	Add nuclear pow
John Munn	San Timoteo Energy Associates	The lack of mention of the roles of efficiency or behind the meter PV/storage in easing burden on SF	Not enough infor
Eric Konzelmann	N/A	The 90% plan sounded most reasonable to me while reading through the slides, and I was surprised to find at the end that the staff recommended it, too!	Yep! 90%! It's no our goals.
Mathew Bittleston	N/A	It's incredibly difficult to follow for a lay person. The pdf is full of jargon, and some of it is not defined: "95% Time Coincidence" "real time"	I didn't see anyth will use more and
Gabriel Goffman	DSA SF	The modeling results show that we can aim for at least 90% coincidence if not 95% coincidence level. I think IPP could also look at other resources such as demand response, using EV batteries as sources of	95% coincidence
		energy to bring down cost and working with other CCAs to sign cheaper power agreements. It is not	
		residential buildings and low income communities. These incentive may bend cost curve.	
Anonymous	N/A	What is the global temperature reduction from this policy? Extensive report does not say.	Don't do it. It ad
			12.9 cents per KV
Anonymous	N/A	It was a little tough to read alone, but when reviewing it as a group I understood it better. I am glad	I generally agree
		that the PUC held listening sessions, even though I couldn't make it to them! I know that that likely helped people collect their thoughts. The IRP did a great job breaking down the various options, though	that being said, i and revisit the 95
		I got caught on some of the cost estimates. For example, the IRP showed in some slides the estimated	budget against tl
		portfolio costs. It's good to show the difference, but I'd love to see those comparisons side by side,	with the PUC in t
		perhaps in paired graphs. I also got caught up on the terminology, which I know is complex. If "time coincidence" could be defined at the bottom, that would help.	from afar could k loss can be estim
Jeremy Pollock	San Francisco Local Agency	The "EV and Building Decarbonization Targets Met" alternative portfolio highlights the dramatic	Of the three conf
		The "95% Time Coincident" conforming portfolio highlights the challenges of meeting CleanPowerSF's peak demand in the winter when solar power production is at its lowest. The combination of the huge	We note that the Francisco's electr
		increase in power capacity needed to meet that peak and the resulting huge increase in dependence on selling excess power during the rest of the year makes it clear that CPSE will need creative approaches	the 1,682 MW of
		to addressing winter peak demand—especially as building decarbonization leads to increased electricity	The 95% Time Co
		usage for writer heating.	portfolio being to
		We are interested in learning about possibilities for addressing winter peak demand such as procuring more geothermal or wind power, developing effective demand management programs, improving	contracts.
		weatherization and energy efficiency for CPSF residential customers, or possibly partnering in procurement with LSEs that have complementary load profiles that do not have peak demand in the	We would be interesting
		winter.	electrification wh
		We are interested in learning how the CPSF portfolio could be optimized to improve time coincidence	the significant st understand that
		during peak demand while also taking into account how excess power could be sold most profitably during non-peak times.	deadline.
Jackie fielder	LAFCO	I appreciate the presentation updates timeline provided in slide 3, the key terms laid out in slide 4, and the explanation of the IRP process, assumptions, and methodology in slides 5-20. This goes a long way	Ultimately I supp primarily on the
		to help the public and even myself understand the content of this plan. I know we share the values of accessibility and civic empowerment in the IRP process. It is hard to understate how far this grounding	next year. Howev 95% Time Coinci
		and introduction to the presentation goes, so thank you for your work in this section. One term that I would have liked to have seen alongside examples is "RPS eligible renewable." first mentioned on slide	95% TC portfolio
		16. Which renewable energy sources qualify as "eligible" by the state? I would also like to understand	\$480 million. The
		the operating definition of "greenhouse gas free" in this plan.	that the 95% TC reliability of the
		I am pleased to see both 90% and 95% time coincident portfolios analyzed in this plan, in addition to building decarbonization and local resource procurement. It is my hope that in future IRPs, all portfolios	beyond \$480 mil and grid misman
		assessed have a 50% local resource procurement floor and building decarbonization goals built into the	sell, but it seems
			nater would put S
		Below is a table I compiled using the information from slides 25, 31, 37, 45, 52, and 60. I wonder what the difference is between total projected revenue requirement and net present value for each of the	
		portfolios. I also wonder how useful 2021 dollars are given inflation is more than 8% this year.	
		Portfolio	
		Total projected revenue requirement (2021 dollars) Net present value	
		(2021 dollars) 10-year financial plan	
		\$1.57 billion	
		? Base Case	
Sierra Garcia	N/A	\$1.72 billion	
JICH A GALUA		EV charging) to peak solar production hours. I hope that policy prioritizes new solar for rooftops or over	
		aqueducts/canals rather than on land that could otherwise be used for housing or habitat.	

E's 2022 Integrated	Based on your review of the modeling results available at CleanPowerSE org/resourcenlan, do you	Given that CleanPowerSE will undate its Integrated Resource Plan every two years, what do you think the program should	d Do you have thoughts or recommendations for improving our Integrated Resource Plan process going forward?	Anything else you would like to share?
stood out for you?	have a recommended CleanPowerSF resource portfolio that you would like to see the SFPUC	take into account in its ongoing and future energy resource planning work?		
	adopt? Why or why not? The SFPUC should adopt the principle of SERVICE. Provide dependable and reliable services to the public. Why? Because sending out a public service announcement requesting the public to conserve energy use does nothing for basic energy consumption.	Get out of the entertainment business and stop congratulating yourselves for your "great" work.	Put the energy experts, like PG&E, back in control. They've been doing much longer and with greater efficiency than a bunch of bureaucrats concerned with procedural correctness at the expense of people's needs.	Bring back hydroelectric and nuclear energy.
ng our bills and not ver 30% since the F.	Base Case or 90% time coincident both reasonable.	See how reality matches with 2-years-ago forecast. We need alternatives that are appropriate for various situations - a single person living in a 3 bedroom house does NOT use the same amount of power as 3 people in that same home, but the cost is equal. It makes no sense	Just ensuring it meshes with overall CA plans.	Thanks!
iks would be 40 to to benefit. But I can't . To make matters / than any typical om PG&e that I have vhat this other	I want to see why my bill is \$40 to 50% higher with Clean Energy involved. Why is my small one bedroom apartment in Twin Peaks labeled a single-family home that uses 33% more energy than anyone else in the neighborhood. Thank you.	People's monthly budgets and the economy.	I already gave enough of my personal thoughts thank you. Anymore will not do any good.	No
ed reliable electricity	Find the ones that lead to lower rates for ratepayers.	Price per kilowatt hour to ratepayers. That's the ONLY consideration.	Shift focus from the virtue signaling of clean power to better electricity rates. And rate transparency.	
asing burden on SF	Add nuclear power. Not enough information provided.	Reliable delivery in the face of high temperatures. Power outages are not acceptable. Behind-the-meter PV/storage assumptions used in calculations	Encouraging residential and small commercial building participation for efficiency and PV/storage. Meets SF PUC stated goals of investing in local production and jobs.	Just these questions: All portfolios, including the staff recommended 90% Time Coincident Portfolio, included adding 85.6 MW of local (defined as the 9 Bay Area counties) solar and 150 MW of local battery storage (slides 48 and 59). - What assumptions were made for behind-the-meter solar growth as a load modifier through 2035? - Wouldn't encouraging local residents and businesses to increase efficiency and install PV/storage in SF reduce the burden on CleanPowerSF? How is SFPUC encouraging this? Wouldn't helping behind-the-meter installations and efficiency help with the CPSF goal of investing in local renewable projects and local jobs, especially if contractors/installers were paired with SF Workforce Development? - How will SFPUC encourage electrification? Current rebate program is a start but what more will be done? - SFPUC anticipates 30% increase in load by 2040 due to electrification. What infrastructure upgrades are foreseen?
nd I was surprised to	Yep! 90%! It's not too cost-prohibitive (95% is a steep jump), and yet gets us closer than required to	Customer net metering.	Show some representative CAISO daily graphs of net demand so readers can get a sense of scale (in MW or MWh) for your proposals.	Nope, thanks for the info!
e of it is not defined: % coincidence level. I atteries as sources of greements. It is not alified low-income t curve.	our goals. I didn't see anything about energy use reduction. Does everything have to assume that every year we will use more and more resources? 95% coincidence with plan to subsidize low income communities, build solar and storage in low income communities and engage in demand response.	 Increased energy efficiency in SF - Find ways to utilize customer solar and battery storage to make the local grid resilient - Look at post-earthquake on Calaveras fault scenario where supply to SF is cut off It should look at changes of costs and ways to help consumers de carbonize to electrify and work with city to do community wide electrification, which in turn can provide more consumers for clean power. CleanPower SF should have a green growth mindset, where more demand is good, because there are so many opportunities to grow renewable energy, and distrubted generation. 	The presentation felt like it was targeted at people "in the know". The density of jargon made it difficult to comprehend for me.	Thank you for trying to lead towards a more environmentally friendly electricity supply.
s not say.	Don't do it. It adds cost with dubious and unquantifiable benefit. PG&E costs 3x what I pay in Florida, 12.9 cents per KWH.	Stop this virtue signalling madness. Focus on low cost power from lowest cost sources.	This whole exercise is a sinecure for utterly useless expensive environmental consultants. What is the global temperature reduction from this expensive conversion to 100% renewables? Make the expensive environmental consultants give a real degrees lower earth temperature.	 The science is not settled. Blaming man-made Carbon Dioxide, CO2 molecules, for The Global Warming Crisis is junk science. We can agree that the Earth has warmed by about +1.0C degree during the Industrial era. We can also agree that CO2 has increased +0.013% from 0.028% of the atmosphere to 0.041% during the Industrial era. However, correlation does not prove causality. CO2 is a tiny trace gas. Envision this: If you are in a room with a 9 ft ceiling and all the gasses were stacked, the pre-industrial CO2 layer would be as thin as a credit card. The raised letters on the credit card are as tall as all the extra CO2 added during the industrial age. It is this tiny thin layer of an invisible gas that has got potty mouth Greta Thunberg, Nobel Prize winner Al Gore, befuddled Mr. Biden, and all the other Global Warming alarmists panties in a bunch. An invisible layer of gas as thin as the raised letters on a credit card. How an infinitesimal +0.013% increase in CO2 can cause a +1.0C degree increase in the remaining 99.987% of the atmosphere defies any explanation. The Global Warming - CO2 gas math is quite simple. And physically impossible. The Earth's atmosphere has warmed +1.0C degrees during the industrial era. The added CO2 during the industrial era is one part in 7,700 of the atmosphere. To heat the atmosphere +1.0C degrees. It defies common sense, and physics, that the Sun's surface heat, at 5,700C degrees of the T. The surface of the Sun, 93 million miles away, is 5,700C degrees. To make the CO2 heat pencil out, Global Warming Alarmists claim there is a CO2 greenhouse heat feedback effect which amplifies the Sun's warming, a gimmick with the fancy name of "Radiative Forcing". The extra heat is impossible. CO2 can't add more heat than it absorbs. CO2 is an inert gas. There is no exothermic chemical reaction. The planet Venus has been hailed by climate scientists as an example of CO2 caused Global Warming. Yes, Venus is very hot, 460C degre
it better. I am glad ow that that likely arious options, though slides the estimated parative graph of sons side by side, s complex. If "time	I generally agree with the SFPUC that they should adopt the 90% Time Coincident Portfolio for now - that being said, it would be great to see how inflation/costs/subsidies develop over the next two years, and revisit the 95% Time Coincident Portfolio for the next IRP. I understand balancing the PUC's budget against that of the need to get as renewable as possible as quickly as possible. I would also love to see increased local buildout, knowing that that is tough through the many conversations I have had with the PUC in the past. I wonder whether the energy and money cost of transmission and storage from afar could be factored into this going forward - or is it assumed to be not a big loss? I heard that loss can be estimated at about 8% - but I don't know what distance that kicks in at.	The cost of losing energy during transmission from far away places; the cost of ethical sourcing of materials for energy project (lithium mining comes to mind), how things would change for this process if the SFPUC were to acquire PG&E's assets.	ts The process kind of snuck up on me this year, unfortunately (despite many many email reminders), and one of my main avenues for learning (a presentation at the CAC's Power Subcommittee) didn't happen due to quorum issues (I was the only one that could attend, and didn't want to waste everyone's time but I wonder in retrospect if I should have attended as a committee of one. I think a major issue this year (and likely for 2024) is that this review process fell ahead of election season. I know I and others in my subcommittee are often involved in electoral work, which may have made it harder for us to organize around this. I don't know if the schedule for review can be moved around or prolonged very much, but if that's possible it might help! Thank you so much for your work on this though. I know I will be better prepared next time around.	Just a big thanks to the staff for working on this. Also, I was curious about the "100% renewable & GHG-free by 2025" goal - is that by the beginning of 2025 (January), the end (December), or the beginning/end of Clean Power SF's fiscal year? Also, are there any labor costs or benefits factored into this, or is it all assumed that we are following City and CCA alliance labor standards? Oh - and - if there is a way to clearly break down the difference between "RPS Renewable" versus "Renewable," that would be awesome. Thank you all so much for your work on this.
ts the dramatic on goals.	Of the three conforming portfolios, we agree with staff's recommendation of adopting the 90% Time Coincident portfolio to be submitted to the CPUC.	Looking beyond meeting the CPUC's strict requirements for the IRP, we urge the SFPUC to commit to implementing the "EV and Building Decarbonization Targets Met" alternative portfolio. Of the two alternative portfolios, we see the "EV and decarb partfolio as the best prove for the much more ambitious electricity system we will peed to most the ambitious goals of our	Now that LAFCo has participated in two cycles of commenting on CPSF's IRPs, it is clear that the CPUC's IRP process would benefit from significant reform. Our comments on improving the process are largely directed to the CPUC, CAISO, and state legislators:	We commend CPSF staff for their great work on both the IRP and the community engagement process.
ting CleanPowerSF's bination of the huge case in dependence on creative approaches to increased electricity	We note that the 90% portfolio falls far short of adding the additional capacity needed to meet San Francisco's electric vehicle and building decarbonization goals (922 MW of new capacity compared to the 1,682 MW of new capacity in the "EV and Decarb Goals" alternative portfolio). The 95% Time Coincident portfolio is compelling because it would add a comparable amount of new capacity as the "EV and Decarb" portfolio, but we agree with CPSF staff's concerns about the 95% portfolio being too reliant on market sales of excess electricity and over-committing to long-term	City, state, country, and planet. We request that CPSF provide more analysis and solicit community input on weighing the costs, benefits and feasibility of sourcing electricity in-City vs. within the nine-county Bay Area. One of the main priorities we hear from commissioners and th public is a strong desire for increasing in-City power sources to support local resilience from earthquakes, public safety power shutoffs, and wildfires.	 We appreciate the suggestions CPSF included in the "Lessons Learned" section of the 2020 IRP that urged the CPUC to provide more certainty in its guidance to LSEs and more time for LSEs to complete their IRPs. We encourage CPSF to revisit these suggestions and include a similar "Lessons Learned" Section in the 2022 IRP. We are concerned about how accurately the CPUC requirements for conforming IRP portfolios reflect CPSF's real-world planning, considering that CPSF cannot submit a preferred portfolio that fully capture factors like San Francisco's behind-the-meter solar power or the increase in projected demand from the City's electrification goals. We are concerned about the accuracy of IRPs for state transmission planning processes given the multi-year delay between CPSF submitting the IRP in 2022, the CPUC adopting a Preferred System Plan (PSP) portfolio in 2023, and finally CAISO adopting a 2024-2025 Transmission Planning Process (TPP) that will be used to approve transmission projects in 2025. Given the rapid rate evolutions of the electricity market, we urge the CPUC and CAISO to streamline these processes so that decisions are made on more timely data. 	
nd such as procuring grams, improving artnering in eak demand in the	contracts. We would be interested to see the results for 92% and 93% Time Coincident portfolios as potential compromises that would better model the City's anticipated future increase in electricity demand from	The significant cost of the "Local Resource" alternative portfolio is a sobering reminder of the significantly higher costs of regional power projects. It's unclear how much support there is for paying this premium for regional power sources that offer little or no improvement in local resilience.	4. LAFCo hopes to work with CPSF, the Board of Supervisors, and our state representatives to support legislative and regulatory improvements to the IRP and these other processes. 5. Because of these constraints on and issues with the CPUC's IRP process, LAFCo recommends CPSF reevaluate its approach to community engagement on the IRP. We commend CPSF for the resources it committed to the well-designed community engagement process for the IRP. But the drop off in public participation from the first round of listening sessions to the second round suggests that the process could be improved.	
ve time coincidence old most profitably	electrification while moderating the flaws of the 95% Time Coincident portfolio. However, because of the significant staff, consultant, and computational time needed to calculate new portfolios, we understand that this is likely not possible to do in time to meet the 11/1/2022 IRP submission deadline.	 While we recognize that potential in-City renewable projects are much smaller in scale and much more expensive, we believe there are strong policy rationales and public interest for funding this energy resilience and independence. There may be stronger support for investing the funds necessary to source 10% of power in-City compared to investing a similar amount of funds to source a much larger percentage within the Bay Area. We also recognize that CPSF ratepayer funds alone will not come close to meeting the ambitious goals of the Alternative Portfolios, and we urge the SFPUC to consider all possible funding options when planning for our energy future, such as revenue bonds, general obligation bonds, the general fund, new local revenue measures, and state and federal funding. We are excited for further analysis of the in-City investment possibilities created by the federal Inflation Reduction Act, particularly the provision granting an extra 20% tax credit for small solar projects that benefit low-income households and the 	 6. We recommend CPSF make more explicit which portions of the process are subject to limits to meet CPUC compliance and which portions CPSF has freedom to modify. 7. CPSF could emphasize community engagement on earlier parts of the process, such as developing the broad categories of portfolios to be analyzed. In the first round of listening sessions, it was unclear how questions such as how to balance the priorities of affordability/reliability/renewable content would be translated into specific IRP portfolios. 8. Unless the CPUC makes significant changes to increase the flexibility of conforming IRP portfolios and to allow more time for development of IRP portfolios, CPSF should consider either deemphasizing input on evaluating the conforming portfolios or providing more context on what types of feedback would be relevant or helpful. 9. We suggest CPSF engage the community in a public process during the off years from the IRP cycle to inform the community on how the IRP is being implemented and allow the public to provide meaningful bigger-picture input on the earliest stages of the subsequent IRP. 10. We also request that in the future, CPSF consider publishing more detailed data on the modeling results to compliment the slide presentations. One of our commissioners called the slides "radically accessible" for someone who is new to the world of electricity policy. But people who work in related fields or who have participated in multiple IRP processes would benefit from seeing a great level of detail of the information that goes into creating the IRP. e 11. Lastly, we urge CPSF to publish responses to either all comments received or synthesized responses to categories of similar comments received. 	
aid out in slide 4, and This goes a long way	Ultimately I support the staff's recommendation of adopting the 90% Time Coincident Portfolio, primarily on the basis of needing to see how we emerge from inflation and a potential recession this	provision granting an extra 10% tax credit for brownfield sites. I hope in future IRPs, 50% local resource procurement becomes a baked-in floor for all portfolios. Any extra costs to such a policy would be outweighed by the thousands of local jobs provided, as well as increased reliability. In addition, at least some		
e share the values of ow far this grounding ion. One term that I st mentioned on slide o like to understand	next year. However, if economic conditions improve by the next IRP, I will be eager to push for the 95% Time Coincident portfolio. The difference between the total projected revenue requirement of the 95% TC portfolio and that of the 90% TC portfolio is only \$400 million; and the difference between the total projected revenue requirement of the 95% TC portfolio and that of the base case portfolio is only \$480 million. The SFPUC capital budget for FY 2021-22 alone is \$698.0 million, which indicates to me that the 95% TC portfolio is doable, at least in 2021 dollars. The increased diversity of resources and	costs could certainly be offset by taking advantage of new Inflation Reduction Act funds that incentivize renewable energy generation in communities currently and historically burdened by the fossil fuel industry and the anticipated new state revolving loan fund for energy efficiency upgrades. In fact, I hope LAFCo undertakes a study on how CleanPowerSF can best take advantage of IRA funds in the near future.		
plan, in addition to ure IRPs, all portfolios on goals built into the	reliability of the 95% TC portfolio, in my view, provides benefits to customers that amount to well beyond \$480 million. How can we put a price on reliability in these times of increasing climate chaos and grid mismanagement? I understand there are CPUC limits to how much any energy provider can sell, but it seems to me that becoming a large retail seller of renewable energy sooner rather than later would put San Francisco in a strong financial position for decades to come.			
nd 60. I wonder what alue for each of the 8% this year.				
electricity use (such as ar for rooftops or over ^r habitat.				