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Docket # 19-SB100 Joint Agency Report Charting a Path to a 100% Clean Energy Future

Additional submitted attachment is included below.

From: Bill Mayben
To: Energy - Docket Optical System
Subject: Docket # 19-SB100 Joint Agency Report "Charting a Path to a 100% Clean Energy Future"
Date: Saturday, October 19, 2019 9:05:27 PM

SB100 Notes: "Some Housekeeping Issues" 10-19-19

1. A State Project Management Agency specifically coordinating all issues related to conversion is essential. Transition by Design. Integrated Digital Project Management system.
2. From today forward, conservation is more than a civic-minded thing to do; it is a necessity. Conservation will progressively become an everyday practice. We might as well start now. Conservation of fossil fuels initiated now, will save hardship later. For example, in 2015 California burned 15 billion gallons of gasoline, amounting to 385 million gallons per day statewide. I propose targeting a 5% initial reduction in consumer fossil fuel use; 19.25 million gallons per day;
3. During the OPEC gas shortage in the 70's, the US wisely reduced highway speed limits to 55 mph. Climate change represents a much more existential threat that the OPEC shortage, so I recommend, when SB100 implementation is established, one of the first acts should be to reduce highway speed limits. This is both environmentally in line with the legislation; and symbolically important. We cannot continue to live as we have. . Conservation is the best friend of renewable energy. There is no value in pretending that we can continue to unnecessarily load the atmosphere with exhaust gasses. This change is inevitable.
4. Calculate the necessary increase in electrical power generation and distribution for public and private transportation. Contemplate the doubling, then tripling of local and regional public transportation capabilities; carrying capacity and extended service areas.
5. Tax policies; taxation and tax credits. Balanced public finance policies. A cash flow model, public finance model.
6. Collaborative and comprehensive financial planning for what amounts to a revision of the basis of our economy.
7. Focus on sustainability, resilience, conservation, self-reliance, and continuity.
8. To avoid disruption, agreements will need to be reached with fossil fuel industry to ensure the orderly tapering from fossil fuel use. Consider how to best allocate responsibilities, cost, and

schedule to dismantle abandoned infrastructure, and in what order. Consider what are and are not shared financial responsibilities. There will be exceptions to SB100; such as interstate trucking, buses; and aircraft; so make a list.

9. To avoid disruption, agreements will need to be reached with electrical and gas utility companies regarding fossil fuel generation facilities, gas storage and distribution facilities; as to responsibilities, costs and schedule associated with the dismantling of abandoned infrastructure.
10. Can we responsibly provide a new job for each job lost, without disrupting the entire economy? It appears, on a running rate, renewable resource-based power generation will not require the number of employees currently used by the fossil fuel industry.
11. Consider revisions in electrical codes for equipment, commercial and residential; as well as account for yet undeveloped technology and equipment.
12. Electrical power storage strategies for night and dark days.
13. Re-routing around known sea level rise.
14. Neighborhood Electric Vehicles; R&D support; rules of the road; progressive sales, charging, parts and maintenance.
15. Ag and Heavy Industry vehicle requirements assessed.
16. Disposition of obsolete fossil fueled vehicles.
17. Plan for decentralization of businesses and jobs to outlying communities wherever possible.
18. Public involvement on more than an informational basis. Active involvement in conversion tasks. Engagement, education and consciousness-raising. Forming and reinforcing public consensus.
19. Local manufacture of components. US manufacture at least.
20. Slowing down, working smart; not trying to recreate the impossible speed of a fossil fueled culture.
21. Converting within an attainable scale. This will take time, and will be continuous.
22. What are we to do with commercial jet aircraft? Interstate vehicles?
23. Parallel installation of state of the art high speed digital communication system to encourage effective decentralization of self-sufficient residential communities.
24. Consider unanticipated consequences:
    a. What defense capabilities and equipment must we retain? i.e., The Navy, The Air Force?
    b. Need to revise education curriculums.

c. Potential need to plan for and develop geothermal (ground coupled) heat pump HVAC equipment for homes and commercial buildings; to provide affordable heat and cooling, and reduce electrical loads statewide. This goes with planning for a California that is hotter, dryer, and more populated.
d. Reduction in street widths, garage sizes, lot sizes.
e. What unique power requirements for heavy industries? Possibly locate near hydro-electric facilities?
f. Plans need to be made to provide emergency power to a number of public and private facilities; examples include hospitals and convalescent facilities, refrigeration facilities; pumps; emergency communication systems; police and fire, prisons, airports, etc.

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