



MBCA Logo 1970 – 2011



MBCA "Earthline" logo beginning 2012



MBCA 50th Anniversary logo

Notes from 50th Anniversary & Energy Summit, January 29, 2019

Acronyms used in text

CAISO = California Independent Systems Operators (Angelina is on the Board of Governors)

CCAs = Community Choice Aggregations (locally run electricity providers)

EIM = Energy Imbalance Market

GHG = Greenhouse Gases

RE = Renewable Energy

TVA = Tennessee Valley Authority (David's employer in the 1970s)

David Freeman

In David Freeman's opening presentation these themes were emphasized:

- We need to get rid of all fossil fuels and have 100% renewables as a goal, and as soon as possible.
- We should "go on offense" and press legislators to control pollution and renewable energy generation through laws. He used the analogy of the laws implemented to reduce smoking, i.e. that getting individuals to stop wasn't enough; it took laws preventing smoking in public places to reduce the harm to public health.
- We need to individually make big commitments including rooftop solar and electric cars.

Angelina Galiteva

Through her comments and a series of PowerPoint slides with a lot of technical detail, Angelina emphasized these points:

- California has been a role model and is in the forefront of increasing renewable energy to fight climate change; we must continue.
- A lot of great things are happening in California, for example:
 - 70% renewables (per CAISO)
 - Price of renewables is dropping
 - Number of CCAs is increasing (focus on local distributed solar)
 - Title 24 implementation between 2020 and 2040 requiring solar in new buildings
 - Lots of jobs and careers in RE are being developed
- Among forces slowing rapid RE development are:
 - Not enough improvement in the transportation sector – need rapid move to electric cars
 - Embedded power distribution systems with a reliance on distribution for profit
 - Lack of united efforts among Western states
 - Need more flexibility and more storage
 - Need more political will especially for transportation and building sectors

Q&A Session

Q: What about other renewables?

David: Isn't sun and wind enough? It should be, done right!!

Angelina: WIND on west coast in deep water should be more developed. Hydro exists and helps. Working on more solutions that need to be deployed.

David: We're at the beginning of the age of RE. Using space to gather solar energy and wind is developing. Use what we've got!

Angelina: We still have to deal with legacy system for a while. CCAs are effective and cost effective. Reinvest back into the community instead of profit to shareholders.

Q: What about covering pristine land with panels?

Angelina: only a tiny percentage of land covered with panels would power the world.

David: Don't play into the hands of fossil fuel and nuclear fake news; many false statements; propaganda.

Q: Can we monetize RE savings?

Angelina: Yes, Regional EIM (based on load) has opened market for renewables.

Q: What about RE development in less developed countries?

Angelina: We lead by example. They can start with distributed programs because they're not caught up in legacy systems like we are. We need to educate young people.

David: America and Europe put those greenhouse gases into the sky. Developing countries want to see courage and support from the US. We should show leadership to motivate developing countries.

Q: What about nuclear?

Angelina: Catastrophic. Waste. Expensive. Extremely costly in the consequences.

David: I shut down 8 nuclear plants during my time with TVA and 1 in Sacramento and fought others. Americans give too much credit to famous people for knowing more than their expertise. Nuclear is as dangerous as GHG. Having nuclear power availability moves other countries closer to nuclear bomb.

Q: What about issues of autonomy if we regionalize RE?

David: Integrate with other states to get them off fossil fuels. Help them accept that we're all in the same boat. Need to influence them.