

Special Meeting: Hydrogen Production, Transportation, and Infrastructure Task Force

Oklahoma Commons Auditorium, Oklahoma City, OK

Monday, July 19, 2021

1:30 p.m.

Notice was posted online with the Secretary of State on July 9, 2021. Public notice was also posted at the Secretary of Energy and Environment Office and as the Oklahoma Commons Auditorium on Thursday, July 15, 2021 at 1:30 p.m.

PRESENT

Secretary Kenneth Wagner – Chairman

Senator Kim David – Co-Chair

Representative Mark McBride – Co-Chair

Representative Brad Boles – House Energy Chairman

Dr. Tomas de la Ruiz – University of Oklahoma

Brent Kisling – Department of Commerce

Terri Angier – Department of Transportation

Julie Cunningham – Oklahoma Water Board Resources

Amy Walton – Oklahoma Center for Advancement of Science & Technology

EJ Thomas – Oklahoma Corporation Commission

Secretary Wagner called the meeting to order at 1:45 p.m., confirmed proper posting of the meeting notice, ensured the presence of a quorum.

1. Goals of Task Force and Scope of Work - Subcommittees

a. Discussion of SB 1021

Pursuant to SB 2021, a final report will be submitted to the Governor, Senate Pro Temp, and House Speaker on December 1, 2021. Secretary Wagner reads prescribed goals to hold one meeting each month including topics regarding production and distribution, as mentioned in SB 1021. Secretary Wagner expands on hydrogen topics and goals such as: storage, transportation, and fueling infrastructure. Questions related to: What are required for these goals? How do we fuel? What does storage look like? These are prescriptive aims; the task force hopes to provide to Oklahoma leaders.

b. Hydrogen Report

The report has an aggressive timeline to distill everything that is mentioned in the bill. Hydrogen energy is a fairly new discussion to Oklahoma, which is why public input is critical and appreciated in the process of delivering this report. Questions and comments voiced by the community will allow the Task Force and its subcommittees to work towards the established goals and produce a thorough report to the Governor, Senate Pro Temp, and House Speaker.

There will be four subcommittees led by members of the Task Force. These include:

1. Production – Representative Boles, Dr. Diaz de la Rubia, Julie Cunningham
2. Distribution/Infrastructure – Brandy Wreath and Terri Angier
3. Economic Opportunities/Taxation/Incentives – Brent Kisling and Amy Walton
4. Off-Taker Market Uses – Amy Walton and Matt Newman

Majority of substance in the final report will developed from the subcommittee meetings. These meetings will be public meetings and not open meetings. There will be a follow-up email that will be sent to interested parties for participation in subcommittees. Hydrogen has decarbonizing component. Secretary Wagner emphasizes that this is less about specifics on environmental goals, and more that Oklahoma is one of the few states that has resources that can all work together. Participation in the subcommittees are not limited and the invitation is widely spread. Oklahoma intends to be leaders in energy.

2. **Hydrogen 101** – Presented by Matt Newman

Secretary Wagner introduced Matt Newman, Hydrogen Task Force Advisor and Facilitator. The presentation aims to help the audience better understand why hydrogen works in Oklahoma.

Matt Newman explains an overview on hydrogen, and how things align and will come together. Newman shared that hydrogen is a big issue in California and the Great Lakes in the northeast. Hydrogen has a big economy in Europe and Japan. People don't recognize Oklahoma as a big player.

The presentation also included:

- Where does the energy come from?
- How do you produce hydrogen and how do you move it around?
- What do you do with it once you have hydrogen?
- What is Hydrogen?
- Production Method: Steam Methane Reforming, Gasification and Pyrolysis, Electrolysis,
- Carbon Capture Use and Storage
- Fuel Cells
- Uses
- Next Steps

3. **Public Comment**

Secretary Wagner asks for all speakers to keep remarks limited to 2-minutes and opens the floor for comments, ideas, and thoughts to the audience.

Budd Ground, Petroleum Alliance— Ground mentions that a good source of water in Oklahoma is produced water. This would be a good use of production water.

Ron Mercer, Bedrock— Mercer asked about thoughts on how ONE Gas hauling hydrogen and how they plan to transport hydrogen. Newman replied on focusing on what we can and how funding is needed. Newman explains that there is pending research on existing pipelines and that there is investment on research.

There are unsettled visions of what can be moved like how much can be move, how much can be blended. There is a wide array of moving hydrogen, and this is something on subcommittee will discuss. Mercer participated in the 2004 Hydrogen Task Force. API studies on steel study and there is known and unknown. If there are names of people in materials would be helpful as well.

Maki Ikeda, Baker Hughes— Ikeda asked about what Baker Hughes can do to help going forward. Topics to broach include:

- What technologies to unlock for hydrogen?
- Embrittlement and balancing of blending
- Materials and system management of grid and energy balance
- Leveraging
- Supply-chain management

Meeting was adjourned at 3:01 p.m.