



County of Los Alamos

1000 Central Ave.
Los Alamos, NM

Agenda - Final

Los Alamos Resiliency Energy and Sustainability Task Force

*Katie Leonard, Chair; Robert Gibson, Vice-Chair; Susan Barns;
Elizabeth Daly; Charles Keller; Roy Michelotti; Heidi Rogers;
Oral Saulters, and Steve Tobin, Members*

Friday, September 10, 2021

3:00 PM

Council Chambers - 1000 Central Avenue
Zoom

NOTE: This meeting is in person and open to the public. However, for convenience, the following Zoom meeting link and/or telephone call in numbers may be used for public viewing and participation:

Please click the link below to join the webinar:

<https://us02web.zoom.us/j/81435463514?pwd=WE04QnIRbmpzaWlCOVB4Q0x1OW1pdz09>

Passcode: 518492

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Webinar ID: 814 3546 3514

Passcode: 518492

1. CALL TO ORDER - ROLL CALL

2. PUBLIC COMMENT FOR ITEMS NOT ON AGENDA

3. APPROVAL OF AGENDA

4. REVIEW AND APPROVAL OF MEETING MINUTES

[14866-21](#)

Approval of the August 27, 2021, Resiliency Energy and
Sustainability Task Force Minutes

Presenters: Katie Leonard

Attachments: [A - DRAFT RES Task Force Minutes August 27, 2021](#)

5. TASK FORCE BUSINESS

[14844-21](#)

LARES Electrical Supply and Demand Subcommittee Appointment

Presenters: Katie Leonard

Attachments: [B - Letter of Interest Richard Wallace](#)

[14855-21](#) Discuss Path Forward for LARES Work

Presenters: Katie Leonard

6. Reports

- A. Chair's Report - Katie Leonard
- B. Vice Chair's Report - Robert Gibson
- C. Subcommittee Reports
 - a). ***Natural Gas Reduction Subcommittee***
 - b). ***Electrical Supply and Demand Subcommittee***
 - c). ***Transportation and Mobility Subcommittee***
 - d). Community Planning and Zoning Subcommittee
 - e). ***Waste, Consumption and Natural Resources Subcommittee***
- D. Council Liaison Report - Councilor Rytli

7. INFORMATIONAL ITEMS

8. PUBLIC COMMENT

9. NEXT MEETING AND FUTURE AGENDA ITEMS

-Guest Speaker Rod Borup - Hydrogen Production and Hydrogen for
Transportation

10. ADJOURN



County of Los Alamos

Staff Report

September 10, 2021

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.:

Index (Council Goals):

Presenters: Katie Leonard

Legislative File: 14866-21

Title

Approval of the August 27, 2021, Resiliency Energy and Sustainability Task Force Minutes

Recommended Action Motion

I move that the Resiliency Energy and Sustainability Task Force approve the August 27, 2021 minutes as presented.

Or

I move that the Resiliency Energy and Sustainability Task Force approve the August 27, 2021, minutes as amended.

Body

The Resiliency Energy and Sustainability Task Force will review and approve the August 27, 2021 minutes.

Attachments

A - Draft RES Task Force Minutes August 27, 2021



County of Los Alamos

1000 Central Ave.
Los Alamos, NM

Minutes

Los Alamos Resiliency Energy and Sustainability Task Force

Katie Leonard, Chair; Robert Gibson, Vice-Chair; Susan Barns; Elizabeth Daly; Charles Keller; Roy Michelotti; Heidi Rogers, and Steve Tobin, Members

Friday, August 27, 2021

3:00 PM

Zoom

1. CALL TO ORDER - ROLL CALL

The August 27, 2021 RES was called to order at 3:00 pm via Zoom.

Members in attendance:

Chair Leonard
Vice-Chair Gibson
Member Barns
Member Daly
Member Keller
Member Michelotti
Member Rogers
Member Tobin

Subcommittee Members in attendance:

Skip Dunn
Jack Kennison
Oral Saulters
Greg White

Staff in attendance:

Anne Laurent, Public Works Director
Angelica Gurule, Environmental Services Manager (Staff Liaison)
Amy Danforth, Senior Office Specialist
Randall Ryt, Council Liaison

Members of the public in attendance:

None

2. PUBLIC COMMENT FOR ITEMS NOT ON AGENDA

None

3. APPROVAL OF AGENDA

A motion was made by Member Gibson, seconded by Member Barns, that the Resiliency Energy and Sustainability Task Force Approve the August 27, 2021 meeting agenda be approved as presented.

Motion passed unanimously

4. REVIEW AND APPROVAL OF MEETING MINUTES

[14772-21](#)

Approval of the August 6, 2021, Resiliency Energy and Sustainability Task Force Minutes

Attachments: [A - Draft RES Task Force Minutes August 6, 2021](#)

A motion was made by Member Barns, seconded by Member Gibson, that the Resiliency Energy and Sustainability Task Force Approve the August 6, 2021 meeting minutes be approved as presented.

Motion passed unanimously.

5. TASK FORCE BUSINESS

[14790-21](#)

Transitioning the Intermountain West to a Carbon-Neutral Energy Economy Presentation by George Guthrie

George Guthrie gave a presentation on Transitioning the Intermountain West to a Carbon-Neutral Energy Economy. Task Force members made comments and asked clarifying questions.

[14789-21](#)

Overview of Interim Report Presentation to County Council

Chair Leonard lead a discussion on the overview of Interim Report Presentation that was given County Council on August 24th. Task Force members gave comments and made suggestions.

6. Reports

A. Chair's Report - Katie Leonard

Chair Leonard will give a presentation on RES Transportation

Recommendations at the Transportation Board meeting on September 2, 2021. She is looking for monthly speakers for the next few months. Chair Leonard asked the Task Force to start thinking about money/economics (cost-benefit) for recommendations, and poll/survey questions for public outreach. Chair Leonard notified the board that PEEC would be available for a presentation in December or further out, they are currently scheduling 3 months out. Chair Leonard asked Task Force members to give notification before a meeting if they will not be able to attend.

B. Vice Chair's Report - Robert Gibson

Vice-Chair Gibson commented that if any Task Force members would like to switch subcommittees, this discussion could be held at the September 10, 2021 meeting.

C. Subcommittee Reports

None

D. Council Liaison Report - Councilor Ryti

Councilor Ryti gave an update to the Task Force Members.

6. INFORMATIONAL ITEMS

None

7. PUBLIC COMMENT

None

8. NEXT MEETING AND FUTURE AGENDA ITEMS

Next Meeting will be September 10, 2021 from 3:00 pm - 4:30 pm in Council Chambers.

Chair Leonard reminded Task Force members that the next meeting will be hybrid and members can attend in person or via zoom.

9. ADJOURN

The meeting adjourned at 5:15 p.m.



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Title

LARES Electrical Supply and Demand Subcommittee Appointment

..Suggested Motion

I move that the Resiliency, Energy, and Sustainability Task Force appoint the following members: _____ to the Electrical Supply and Demand Subcommittee.

Or

I move that the Resiliency, Energy, and Sustainability Task Force appoint the following members: _____ to the Electrical Supply and Demand Subcommittee.

Body

The Los Alamos County Resiliency, Energy and Sustainability (LARES) Task Force will discuss and may appoint a member to the Electrical Supply and Demand Subcommittee. Richard Wallace originally applied to become a task force member, however, he rescinded his letter of interest and instead, asked to be appointed to the Electrical Supply and Demand subcommittee.

Attachments

B - Letter of Interest Richard Wallace

Richard K. Wallace, Ph.D.
1630 Sereno
Los Alamos, NM 87544
RWallacenm@gmail.com
505-603-5074

August 14, 2021

Ms. Angelica Gurule
Los Alamos Resiliency, Energy, and Sustainability Task Force
Los Alamos County Council
Los Alamos, NM 87544

Dear Ms. Gurule,

I would like to apply for the advertised position on the Electricity Supply and Demand Management subcommittee of the Los Alamos Energy and Sustainability Task Force. Chick Keller recommended that I consider applying for this opportunity. I have discussed the goals, procedures and activities of this subcommittee with Chick and I find this to be an extremely exciting and important activity for Los Alamos County.

I am concerned about the accelerating pace of tangible environmental impacts from global climate change, and I am well aware of the lengthy time required to find and implement effective and acceptable mitigation strategies to reduce the community's carbon footprint. I believe it is crucial for Los Alamos to aggressively continue developing creative options and strategies for decarbonizing electricity generation and adopting carbon-free electrification. Current environmental events have brought into question whether Los Alamos can continue to plan for a carbon-neutral/free energy generation by 2040, or if perhaps that goal should be moved slightly closer.

I realize that Los Alamos is a small community within a less-populated state of the Union. However, I have seen that successful developments in a small area can lead the way to much wider adoption, adaptation, and success in a larger scale. As a community known for its innovative development of scientific solutions, I feel we should set an example of how to address a carbon neutral future in an effective and practical way.

My knowledge and experience have prepared me to contribute to this effort, and I am excited for the possible opportunity to do so! My Ph.D. research was in analysis and computational modeling of nuclear energy generation systems in astrophysics. During my 31-year career at Los Alamos, and my subsequent retirement activities, I have applied that knowledge to a wide variety of topics which I believe are relevant to the goals and work scope for this subcommittee. Examples of my relevant experience include the following:

- I am on the Board of Directors, and just completed my term as Board President, of the Pajarito Environment Education Center, which runs the Los Alamos Nature Center and develops educational programs for both children and adults in environmental and science topics. Our goal is to help others understand the science and methodology for uncovering the secrets of nature and the environment.
- I am a founding member of the Jemez Mountain Night Sky Coalition and have researched community lighting to enhance safety and security, while minimizing light pollution, cost and

energy use of lighting installations. I have participated in drafting a model lighting ordinance for submission to Los Alamos County for consideration.

- Just prior to retiring from LANL, I worked for Sara Scott in the Civilian Nuclear Energy Program to analyze the safety, security, and effectiveness of various advanced energy technologies and to communicate the results of those analyses to DOE managers, international energy partners, and the public. The technology studied included modern fast reactors, such as the technology used for the NuScale Power Module included in the Carbon Free Power Project. I also testified as an expert on behalf of LANL before New Mexico legislative boards that were considering nuclear energy and long-term waste management for the state of New Mexico.
- I was both a line manager (Group Leader) and Program Manager at LANL, with responsibility for developing, fundraising, and executing both research and implementation projects. For example, my group participated in analyzing the Fukushima nuclear power plant accident, as well as recommending modified security strategies for the national energy systems of various partner countries.
- During my 3-year appointment at the International Atomic Energy Agency in Vienna, I wrote 65 papers analyzing the safety, security, and energy strategy of various member states, including economic analysis.
- I have installed a photovoltaic (PV) solar power system on my home and in the process of doing so researched various solar power technologies, implementations, grid impacts, and energy storage solutions (battery technologies).
- I have a plug-in electric vehicle (Tesla) and have direct experience with the charging infrastructure in New Mexico for operating such a vehicle, as well as Lithium-battery performance and limitations.
- My general background in physics allows me to understand the main issues associated with emerging energy storage technologies, such as gravitational storage, pumped hydro, and distributed community energy storage systems. I am also familiar with various smart grid demand and supply concepts.

In summary, I believe I could assist the subcommittee in developing options for a Los Alamos carbon-neutral future and planning a strategy to implement such a path forward. I would appreciate the opportunity to do so.

Thank you for your consideration.

Sincerely,
Dr. Richard Wallace

References:

1. Chick Keller, ESDMS member, alfonso@cybermesa.com, 505-690-3993.
2. Sara Scott, Former Program Director and supervisor, LANL, sara.scott@lanl.gov,
3. Katharine Buell, Executive Director of PEEC, director@peecnature.org, 505662-0460.



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Staff Report

September 10, 2021

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Legislative File: 14855-21

Title

Discuss Path Forward for LARES Work

..Suggested Motion

N/A

Body

The Los Alamos Resiliency Energy & Sustainability Task Force is scheduled to deliver a final report by February 1, 2022. LARES will discuss how to move forward in the next six (6) months and will review the subcommittee organization, final report format, community outreach and education, PEEC events and survey questions. Additionally, the final report deadline should be reviewed and reassessed.

Attachments

N/A