



Energy Resources Council Draft Minutes

June 2, 2023
8:00 AM - 1:30 PM

ATTENDANCE

Energy Resources Council (ERC)

Chairman Cindy Crane, Senator Jim Anderson, Carl Bauer, David Emery, Chad Teply, Vello Kuuskraa (zoom), Representative Don Burkhart, Charlene Russell, Mark Doelger
Ex-Officio members: Ed Seidel, Dave True (zoom), Randall Luthi

SER Staff, Guests and Members of the Public

Holly Krutka, Jerry Evans, Kyle Summerfield, Trina Igelsrud Pfeiffer, Scott Quillinan, John Litynski, Kara Fornstrom, Fred McLaughlin, Christine Reed, Kami Danaei, Rob Creager, Kristi Russow, Rachel Ferrell, Angela Ver Ploeg, Jonathan Brant, Jonathan Naughton, Haibo Zhai, Richard Horner, Jeff Luthi, Jake Dippel (zoom), Senator Dan Dockstader, Tim Considine, Marie Dudgeon (zoom), David Reid (zoom) Carrie Ver Burg (zoom) Roger Hillibush (zoom), David Lucke (zoom), Frankie Vogt (zoom), Eric Robertson (zoom), Mikey Hannon (zoom)

ERC REGULAR MEETING: ITEMS BY DETAIL

Call to Order

Chairman Cindy Crane called the ERC meeting to order at 7:59 AM.

Rob Creager was introduced to the group as the New Executive Director of the Wyoming Energy Authority and John Litynski was introduced to the group as the new Senior Advisor for SER.

Approval of Agenda

Motion - Senator Anderson motioned to approve the agenda.

Dave Emery seconded the motion.

The motion was approved unanimously.

Approval of March 2023 Minutes

Minor edits were made under the Exception Review and Recommendation Committee (ERRC) section to remove the extra ‘the’ in the section on the CCCC and correct the roman numeral on the CarbonSAFE request from ‘VI’ to ‘IV.’

Motion – Chairman Crane motioned to approve the minutes as modified.

Senator Anderson seconded the motion.

The motion was approved unanimously.

Reports/Motions

Full copies of the following SER reports are available in the March ERC Notebook or upon request.

- Executive Director – Holly Krutka

Special Research Presentations

- Center of Excellence in Produced Water Management – Jonathan Brant, Director
- Wind Energy Research Center – Jonathan Naughton, Director

Questions for non-presenting directors

- Hydrogen Energy Research Center – Eugene Holubnyak
- Enhanced Oil Recovery Institute (EORI) – Roger Hillibush
- Outreach – Christine Reed

Presenting directors

- Research – Scott Quillinan
- Center for Economic Geology Research – Fred McLaughlin
- Center for Carbon Capture and Conversion – Trina Igelsrud Pfeiffer
- Center for Energy Regulation & Policy Analysis – Kara Fornstrom
- Academics – Kami Danaei
- 3D Visualization Center – Kyle Summerfield
- SER Financial Report – Rachel Ferrell

Ms. Ferrell presented the proposed FY24 Standard Budget.

The motion to approve proposed FY24 Standard Appropriation Budget of **\$9,084,000** in total, consistent with standard appropriation for the FY, as it stands in the biennium budget (understanding that the operating budget SER will actually see will be inclusive of returns on indirect. Also, it does not include proposed FY24 raises, so that will be included as well which would be a total \$9,604,000).

Motion – Chairman Crane motioned to approve the **standard** budget.

Representative Burkhart seconded the motion.

The motion was approved unanimously.

New Business

No new business.

Exception Funding Request Review

CORE-CM (Powder River Basin Project and Greater Green River and Wind River Basin Project)

The Department of Energy (DOE) funded two projects in Wyoming Basins “focused on expanding and transforming the use of coal and coal-based resources to produce Rare Earth Elements (REE), Critical Minerals (CM) and novel high-value, nonfuel, Carbon-Based Products (CBP), as part of our next generation of domestic U.S. materials.”

Projects in the Powder River Basin (PRB) and the Greater Green River and Wind River Basins (GGRB-WRB) have been selected for a timeline extension.

The DOE will fund an additional \$500,000, requiring 20% cost share, to each CORE-CM project. Each project requested \$125,000 in cost share from the Wyoming Energy Authority for a total of \$250,000.

The Exception Review and Recommendation Committee recommended approval for the \$250,000.

Motion: Chairman Cindy Crane made a motion to approve the funding for both projects for a total of \$250,000. The motion was seconded by Vello Kruuskaa.

The motion passed unanimously.

Wyoming Trails Carbon Hub

Cost share is required for the UW (EORI-led) portion of a U.S. DOE-funded project to complete a front-end engineering and design (FEED) study for a common-carrier CO₂ pipeline connecting potential CO₂ sources with CO₂ sinks from southwest Wyoming to east-central Wyoming.

The total project cost is \$5 million (\$3 million from DOE and just under \$2 million from commercial partners on the project). The exception request is for the needed matching funds of \$120,000 for the EORI scope.

The Exception Review and Recommendation Committee recommended approval for the \$120,000.

Motion: Chairman Cindy Crane made a motion to approve the request. The motion was seconded by Carl Bauer.

The motion passed unanimously.

Executive Session

No executive session was needed.

Adjournment

Motion: Senator Anderson moved to adjourn the regular meeting. Charlene Russell seconded the motion. The motion passed without objection.

The ERC adjourned the regular meeting at 12:48 PM.

NEXT MEETING DETAILS

August 18, 2023

Tasks and Assignments

Integrated Test Center:

- As a follow up assignment, ERC asked that the decommissioning language in contracts ensure there is funding for decommissioning and ensure the contracts have the liability and obligation to decommission. Particularly if there are smaller players, the ERC requests certainty in the contracts that if a company defaults, there is a decommissioning bond or other resources available. The ERC asked that the contracts include that provision.
- Provide a timeline-Gantt chart of projects and funding opportunities for new projects in the ITC to keep continuity of use in the test bays.

Research:

- Build a life-cycle path that wouldn't be dependent on federal funding for CORE-CM.
- CCCC and Mowry Project - Provide a life-cycle projection on the solvent extraction technology and Mowry project to maintain momentum and not slow progress. SER should make sure that it has adequate funding and put together a strategy for upcoming budget sessions.
- CCCC - Provide a clear road map of revenue generated from Intellectual Property (IP) on any and all products in carbon engineering.
- CCCC - Provide high level estimates in order to grasp how big the impact will be from the products/process. For example, how much does 1% of coal use make for Wyoming?
- CERPA - Start overlapping infrastructure need when looking at preference of energy type - add a layer to social license survey.
- CERPA - Look at a full breakdown of CCUS value chain costs - under geologic storage, tax credit piece, but there are also a storage fee, transport fee, secure costs. SER needs to make sure it is independently looking at it from a net economic cost perspective, not just a tax credit balance.
- WERC - Look into blade recycling of wind turbines. How do we design blades that up front are able to be recycled and if it is something that can take place in Wyoming?
- CEPWM and CCCC - The ERC is interested in the scale-up and timeline life-cycle to commercialization on these projects. Provide information on timeline and funding needed.

Financial Reports:

- Provide a five-year historical look back of the standard budget and how it has been allocated.
- The ERC asked for confirmation that the salaries are transferred and that the indirects are returned for FY24.
- Ask for more money in the next biennium.

ERC Administration:

- Schedule deep dive presentations to highlight research in other centers of excellence or SER sponsored research.

RESPECTFULLY SUBMITTED:

Cindy Crane
Chairman

James Anderson
Vice-Chairman