ROAD Session
Virtual Exchange

Pathfinders:
Climate-Smart Solutions from Rural America and Native Nations
Today’s Event Partners

Community Strategies Group

Welcome
Bonita Robertson-Hardy
Associate Director
Aspen Institute Community Strategies Group
Why host/organize Rural Opportunity and Development (ROAD) Sessions?

- Highlight and unpack rural development ideas and strategies that are critical in response to COVID-19 and to long-term rebuilding and recovery.
- Feature stories of on-the-ground practitioners who have experience, wisdom and savvy to share.
- Reflect and emphasize the full diversity of rural America - lifting voices and lived experiences from a wide range of rural communities and economies.
- Spotlight rural America’s assets and challenges
- Infuse practitioner stories and lessons into rural narratives, policymaking and practice across the country
- Strengthen the networking of organizations serving rural communities and regions.
Our Next ROAD Session: Infrastructure on August 16th

- Join us on **August 16th at 3:00 PM ET**
- Panel Discussion and Breakout Rooms on the topic of **rural infrastructure and economic opportunity**
- Register via the link in the chat box or https://aspeninst.zoom.us/webinar/register/WN_oRZyZC_ISYaxiUlyDmi9Mw
Panel Discussion: 1:30 - 2:45 p.m. ET
Our speakers share their experience adapting and innovating rural strategies to combat climate change.

Breakout Rooms: 2:45 - 3:15 p.m. ET
Optional
Join a breakout to meet others, ask questions, seek advice and share your thinking and experience. Format: Open questions and answers, ideas and advice sharing. Each breakout will include one or more of today's speakers plus a facilitator.
Use the **Chat Box** to share insights or to echo/underline a panelist’s point. Please share your thoughts with civility and compassion.

Use the **Q & A Box** to ask your question of the speakers. Participant questions will be addressed during the event, in the last 15 minutes of the panel discussion, and during the 30-minute follow-on breakout session.
If you’d like to share insights from this event on Twitter or LinkedIn, you can find us at:

@AspenCSG, @RuralLISC, @RuralHome @RCAPinc, @federalreserve

#ruralinnovation, #roadsession, #climatecrisis
And last before we start... A little Housekeeping

- Your mics are muted. If you have any tech issues, please use the Chat box. We have people standing by to address!

- At 2:45 ET, enter the breakout discussion by clicking on the link provided in the Chat Box and in the email sent to you today.
  - You have received an email with a special Zoom link for the breakout session already.
  - We will send those links again in the next hour to every registered participant’s email.
  - If you have not received it – please send a note to csg.program@aspeninstitute.org.

- Recordings of the first hour will be available on the Aspen CSG event webpage in the next few days. That video link will be sent to all registered.
Welcome Today’s Moderator:

Chitra Kumar
Acting Associate Director for Environmental Justice
US Environmental Protection Agency
Setting the Context on Rural Climate Action

Jeremy Richardson
Senior Energy Analyst
Union of Concerned Scientists
Climate Change Solutions and Rural America
Impacts beyond temperatures

- Little or no rain
- Extreme precipitation (rain and snow)
- High-tide flooding and increased storm surge
- Extreme heat
- Tornados and thunderstorms
- Western wildfire activity
- More Atlantic hurricanes
- Parched soil
- Extreme rainfall from hurricanes

Weakest Evidence  Growing Evidence  Strong Evidence  Strongest Evidence
Midcentury (2036-2065): Steep increase in extreme heat
Late Century (2070–2099), slow action on climate change

Average days per year with heat index above 90°F

- 101 - 203
- 51 - 100
- 26 - 50
- 11 - 25
- 1 - 10
- 0
Climate Action Must Include Assistance to Workers and Communities

Dealing with Immediate Crisis

• Require advance notice of closures
• Dislocated Coal Workers
  – Early retirement and wage replacement for five years, indexed to inflation
  – Continued health care coverage
  – Full retirement/pension contributions
  – Retraining opportunities
  – Job placement resources and assistance
  – Relocation allowances
• Communities
  – Temporary replacement of lost tax revenue *
  – Economic planning grants
  – Addressing indirect and induced jobs (?)

Longer-Term Needs

• Mandated decommissioning and reclamation, employing dislocated workers as much as possible (win-win)
  – Strong labor standards, local hire if possible
  – Power plant decommissioning
  – Cleanup of coal ash ponds and groundwater contamination *
  – Mine reclamation (surface and underground)
• Prioritize federal infrastructure funding for local projects in affected communities
• Tax incentives to companies that hire or retain dislocated workers, or companies that locate in coal communities
## Estimated Cost of Supporting Dislocated Coal Workers

<table>
<thead>
<tr>
<th>Policy Support</th>
<th>Low Case</th>
<th>High Case</th>
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</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td>Five-year comprehensive wage replacement for</td>
<td>$31.4</td>
<td>$59.1</td>
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<tr>
<td>dislocated coal workers</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Educational benefits</td>
<td>$0.3</td>
<td>$7.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Educational benefits for family members</td>
<td>$0.6</td>
<td>$14.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job placement services and training programs</td>
<td>$0.2</td>
<td>$0.4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relocation assistance</td>
<td>$0.5</td>
<td>$0.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Educational benefits for previously dislocated coal</td>
<td>$0.1</td>
<td>$0.8</td>
</tr>
<tr>
<td>workers (2015-2019)</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td><strong>$33.2</strong></td>
<td><strong>$82.9</strong></td>
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</tbody>
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Science and for a healthy planet safer world.
## Summary of Key Assumptions

<table>
<thead>
<tr>
<th>Assumptions</th>
<th>Low Case</th>
<th>High Case</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assumed coal phaseout</td>
<td>2040</td>
<td>2030</td>
</tr>
<tr>
<td>Lifetime of program</td>
<td>25 years</td>
<td>15 years</td>
</tr>
<tr>
<td>Estimate for health and retirement benefits</td>
<td>30% salary adder</td>
<td>60% salary adder</td>
</tr>
<tr>
<td>Education</td>
<td>25% uptake by eligible workers; two-year community college</td>
<td>75% uptake by eligible workers; four-year university</td>
</tr>
<tr>
<td>Free post-secondary education for children</td>
<td>50% uptake by eligible children; one child per dislocated worker</td>
<td>75% uptake by eligible children; two children per dislocated worker</td>
</tr>
<tr>
<td>Per-worker cost in the Workforce Innovation and Opportunity Act’s Adult and Dislocated Worker Programs</td>
<td>$3,424</td>
<td>$4,496</td>
</tr>
<tr>
<td>Relocation allowance</td>
<td>$10,000 per worker</td>
<td>$10,000 per worker</td>
</tr>
</tbody>
</table>
Clean Energy Economies in North Carolina

Ajulo Othow
Founder and CEO
EnerWealth Solutions
Clean Energy Economies in North Carolina

Curtis Wynn
CEO
Roanoke Electric Cooperative
Climate Action and Environmental Justice in Southeast Louisiana

Shirell Parfait-Dardar
Traditional Tribal Chief
Grand Caillou/Dulac Band of Biloxi-Chitimacha-Choctaw
Climate Action and Environmental Justice in Southeast Louisiana

Kristina Peterson
Co-Founder
Lowlander Center
LAGNIAPPE FOR THE WORKING COAST:
Reducing Flood Risk and Protecting Sacred Sites and
Tribal Communities’ Resilience by
Strengthening Louisiana’s Marshes

Chief Shirell Parfait-Dardar and
Dr. Kristina Peterson
Content and technical advisor
Devon Parfait, Young Chief

Rural Opportunity and Development (ROAD) July 16th 2021
A 1999 map of the pipelines, wells and platforms. Currently there are many more than are shown on this map.
Category 5 Storm Surge Inundation (SLOSH Maximum of Maximums)

With this education and awareness tool, anyone living in hurricane-prone coastal areas along the U.S. East and Gulf Coasts can now evaluate their own unique risk to storm surge. This map makes it clear that storm surge is not just a beachfront problem, with the risk of storm surge extending several miles from the immediate coastline in some areas. You
Three Tribes working together to refill canals
Land loss rates for indigenous tribal lands in southern Louisiana are higher than overall regional rates.

1. Grand Caillou/Dulac
   Lost 0.7% per year

   1988
   73% land
   27% water

   2020
   52% land
   48% water

2. Point Au Chien
   Lost 0.4% per year

   1988
   77% land
   23% water

   2020
   65% land
   35% water

3. Isle de Jean Charles
   Lost 0.7% per year

   1988
   66% land
   35% water

   2020
   44% land
   56% water
LAGNIAPPE FOR THE WORKING COAST:
Reducing Flood Risk and Protecting Sacred Sites and Tribal Communities’ Resilience by Strengthening Louisiana’s Marshes
Video Presentation
Thank you

Merci Beaucoup
Climate Adaptation Planning on the Confederated Tribes of the Umatilla Indian Reservation

Wenix Red Elk
Public Outreach and Education Specialist
CTUIR Department of Natural Resources
Climate Adaptation Planning on the Confederated Tribes of the Umatilla Indian Reservation

Colleen Sanders
Climate Adaptation Planner
CTUIR First Foods Policy Program
CTUIR Treaty of June 9, 1855

- Confederation of three Tribes: Cayuse, Umatilla & Walla Walla
- 6.4 million acres ceded to the US in NE Oregon & SE Washington
- Retained reserved treaty rights within ceded lands of the exclusive right of taking fish, hunting, gathering roots and berries and pasturing their stock on unclaimed lands.
- Sovereign Nation – Created Umatilla Indian Reservation
- 1949 Constitution & By-Laws adopted
Traditional Use Areas Increase in importance if/when Food distribution changes.
To protect, restore, and enhance the first foods - water, salmon, deer, cous, and huckleberry - for the perpetual cultural, economic, and sovereign benefit of the CTUIR. We will accomplish this utilizing traditional ecological and cultural knowledge and science to inform:

1) population and habitat management goals and actions; and
2) natural resource policies and regulatory mechanisms.
First Foods are the Center of Culture
Tribal Community Cultural Continuity, Preservation Outreach & Education Project

DNR’s First Foods Excursions Outreach and Education Goals:
- First Foods Mission management and restoration;
- identify, locate and document;
- provide gathering and legal access to sites;
- teach participants how to identify, harvest, and procure First foods
First Foods Associated Activity

Cedar Root Pull

Cleaning Cedar on the Sandy River, OR
Smoke Plume Through Columbia Gorge
Passing Traditions to Our Youth
First Foods Resiliency
CTUIR Climate Adaptation Wheel

- Water (Surface & Groundwater)
- First Foods Availability & Access
- Infrastructure & Built Systems
- Human Health & Happiness
- Economics & Community
- Energy Production & Use
- Sovereignty & Treaty Rights
Q & A Session
Moderated by Chitra Kumar
Join us for the breakout room discussion

- To enter the breakout session: Simply use the Zoom breakout link provided in the Chat Box.

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- Each room will include one of our speakers and a facilitator – it may take a few minutes to get them sorted into the right room. Chat until they get there!

- Open discussion!
Today’s Event Partners

Community Strategies Group
THE ASPEN INSTITUTE

Board of Governors of the Federal Reserve System

RCAP
Rural Community Assistance Partnership

RURAL LISC

HAC

See you in the Breakout Room!