Workshop
Methane, Dairies and Livestock, and Renewable Natural Gas in California
Tuesday, March 29, 2022
Agenda

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<th>Pacific Time</th>
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| 9:00–9:15 am | **Session 1: Statutory Requirements for Dairy Methane Emissions Reductions**
CARB Staff |
| 9:15–10:20 am | **Session 2: Overview of Dairies in California**
Dairy farm and dairy product trends in the United States and Calif.
William Hohenstein, Director, Office of Energy and Environmental Policy, Office of the Chief Economist, U.S. Department of Agriculture
Dairy operations and manure management in California
Amrith Gunasekara, Science Advisor to the Secretary, California Department of Food & Agriculture
Environmental impacts of dairies
Deanne Meyer, Ph.D., Livestock Waste Management Specialist, University of California Davis
Environmental regulation on dairies
Ramon Norman, Senior Air Quality Engineer, San Joaquin Valley Air Pollution Control District
Patrick Pulupa, Executive Officer, Central Valley Regional Water Quality Control Board Region 5
Michael Washam, Assistant Director, Economic Development & Planning Resource Management Agency, Tulare County |
| 10:20–10:45 am | **Session 3: Community Perspectives on Dairies** |
| 10:45–11:10 am | **Session 4: Perspectives on the Future of Dairies in California**
Phoebe Seaton, Co-Founder and Co-Executive Director, Leadership Counsel for Justice & Accountability
Paul Sousa, Director of Regulatory and Environmental Affairs, Western United Dairies |
| 11:10–11:55 am | **Session 5: Overview of Dairy Methane Emissions Reduction Technologies**
Enteric methane emissions reduction strategies
Alexander N. Hristov, Ph.D., P.A.S., Distinguished Professor of Dairy Nutrition, Department of Animal Science, Pennsylvania State University
Manure management methane emissions reduction strategies
Mark Stoermann, Chief Operating Officer, Newtrient LLC
Research efforts on dairy methane mitigation approaches
CARB staff
Compost application and pasture-based strategies
Jeanne Merrill, Policy Director, California Climate and Agriculture Network
Dairy and livestock product alternatives
Sabina Vyas, Senior Director, Impact Strategies, Plant Based Foods Association |

1 All times except for the 9 am start time are approximate. We will do our best to keep on schedule, but deviation from these times may occur.
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<td>11:55 am–12:25 pm</td>
<td><strong>Public Comment Period</strong></td>
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<td>12:25–1:00 pm</td>
<td><strong>Lunch</strong></td>
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| 1:00–1:50 pm | **Session 6: Dairy Digester Development and Installation**  
Anaerobic digester basics  
*Nick Elger, Program Manager, AgSTAR and Global Methane Initiative, U.S. Environmental Protection Agency*  
Overview digester operations at California dairy farms  
*Neil Black, President, California Bioenergy LLC*  
Overview of environmental protections for California digesters  
*David De Groot, Civil Engineer, 4Creeks, Inc.*  
Are the environmental protections for digesters enough?  
*Brent Newell, Law Offices of Brent J. Newell* |
| 1:50–2:35 pm | **Session 7: Dairy Methane Mitigation Funding and Economics**  
Funding of dairy methane mitigation projects  
*Sam Wade, Director of Public Policy, Coalition for Renewable Natural Gas*  
“What’s Worth More: A Cow’s Milk or its Poop?”  
*Aaron Smith, DeLoach Professor of Agricultural and Resource Economics, University of California Davis*  
Perspectives on dairy management decisions  
*Joey Airoso, Airoso Dairy*  
*Diana Giacomini Hagan, Giacomini Dairy* |
| 2:35–3:15 pm | **Session 8: Dairy and Livestock Greenhouse Gas Emissions Working Group and Subgroups**  
Overview of Dairy and Livestock Workgroup and subgroups goals and process  
*CARB staff*  
Subgroup Findings:  
Fostering Markets for Non-Digester Projects  
*J.P. Cativiela, Regulatory Affairs Director, Dairy Cares*  
Fostering Markets for Digester Projects  
*Michael Boccadoro, Executive Director, Dairy Cares*  
Research Needs, Including Enteric Fermentation  
*Mike FitzGibbon, Air Resources Supervisor II, Research Division, CARB* |
| 3:15–3:35 pm | **Session 9: Overview of Low Carbon Fuel Standard Program and Dairy Pathways**  
*CARB staff* |
| 3:35–4:00 pm | **Session 10: Analysis of Progress toward Achieving the 2030 Dairy and Livestock Sector Methane Emissions Target**  
*CARB staff* |
| 4:00–4:25 pm | **Session 11: Considerations for Methane Emissions Reduction Incentives and Regulation**  
*Michael Boccadoro, Executive Director, Dairy Cares*  
*J Jordan, Policy Coordinator, Leadership Counsel for Justice & Accountability* |
| 4:25–4:55 pm | **Public Comment Period** |
| 4:55–5:00 pm | **Close** |