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CLIMATE  
TRUST

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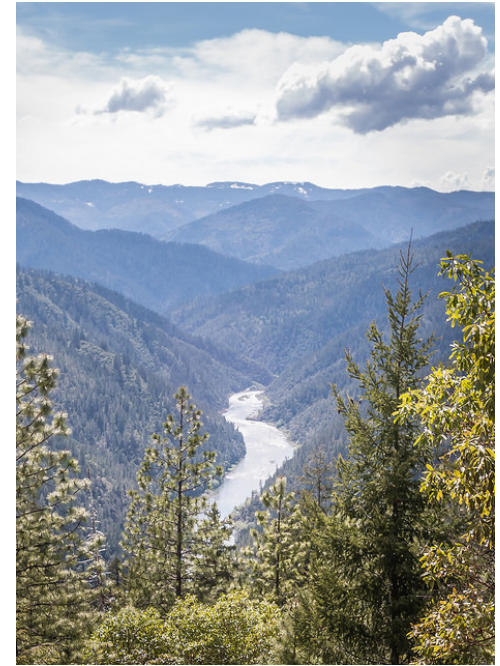
# Senate Bill 98

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Sheldon Zakreski  
The Climate Trust  
February 7, 2019

# About The Climate Trust

- 20 years experience in carbon markets
- Nonprofit organization based in Portland, OR
- Committed over \$43M in carbon projects
- Eliminated over 4.4 million tonnes of CO<sub>2</sub>
- Administer offset funds from OR EFSC CO<sub>2</sub> Standard
- Manage the NW Natural Smart Energy carbon offset project program portfolio



Flickr/Bureau of Land Management OR and WA



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# Biogas Experience

**Over 10 years experience.** Reviewed over a hundred biogas energy projects across the country and funded over 15 projects starting in 2008.

**Deep financial commitment.** Provided more than \$15 million in funding for both voluntary and California compliance biogas projects that produce carbon offsets.

**Oregon focus.** Most of our biogas projects are in Oregon, followed by Washington. Purchase offsets from all currently active biogas projects in Oregon.



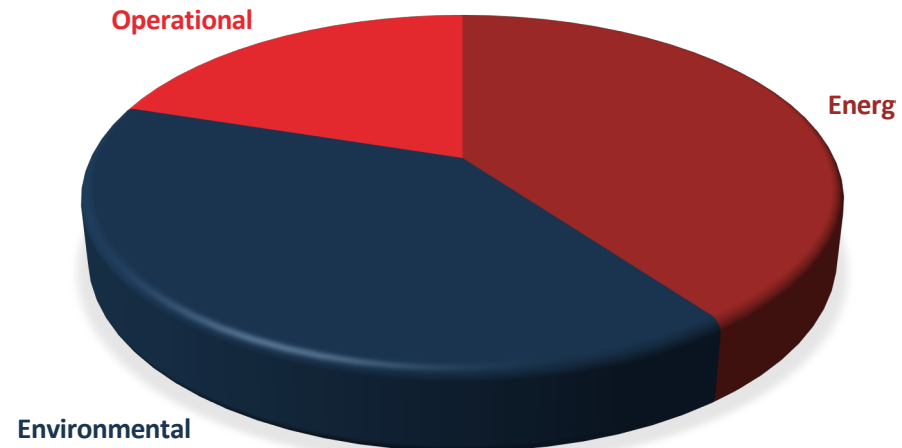
Oak Lea Dairy Digester, Aumsville, Oregon

# Dairy Digesters in Oregon



# Dairy Biogas Financing

Revenue Sources	Dependency	Certainty
<b>Energy</b>		
Renewable Natural Gas	Policy	Low- no policy
Renewable Electricity	Market	Low- not competitive at current pricing
<b>Environmental</b>		
Carbon Offsets	Policy	Low- Nascent policy
Renewable Energy Credits	Market	High- mature RPS and voluntary markets
Low Carbon Fuel Standard Credits	Policy	Low- Nascent policy
RINs	Policy	Low- Nascent policy
<b>Operational</b>		
Fiber\bedding	Market	High- cheaper than 3rd party suppliers



**Banks don't finance policy risk**

## Why is SB 98 needed?

**Policy Certainty.** SB 98 sends a positive signal to banks and investors to place their capital into biogas projects.

**We have the gas.** There are about 125,000 dairy cows in Oregon. Just over half are feeding digesters.

**Demand exists.** As of 12/31/17 over 655,000 Oregon customers enrolled in NW Natural's Smart Energy (green gas) Program. Indicative that a substantial number of customers care about the environmental impact of their gas use and would be receptive to buying renewable natural gas.



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THANK YOU!

