

Climate on Tap

'Green Jobs'

Facilitator:
Laura Tucker

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What comes to mind when you hear the term 'green jobs'?



- 1) Jot down a list of jobs you feel are 'green'.
- 2) Put a star next to those that are available in our community.
- 3) Share your thoughts with those next to you.

Green jobs contribute to, preserve, or restore the environment, be they in traditional sectors such as manufacturing and construction, or in new, emerging **green** sectors such as renewable energy and energy efficiency.



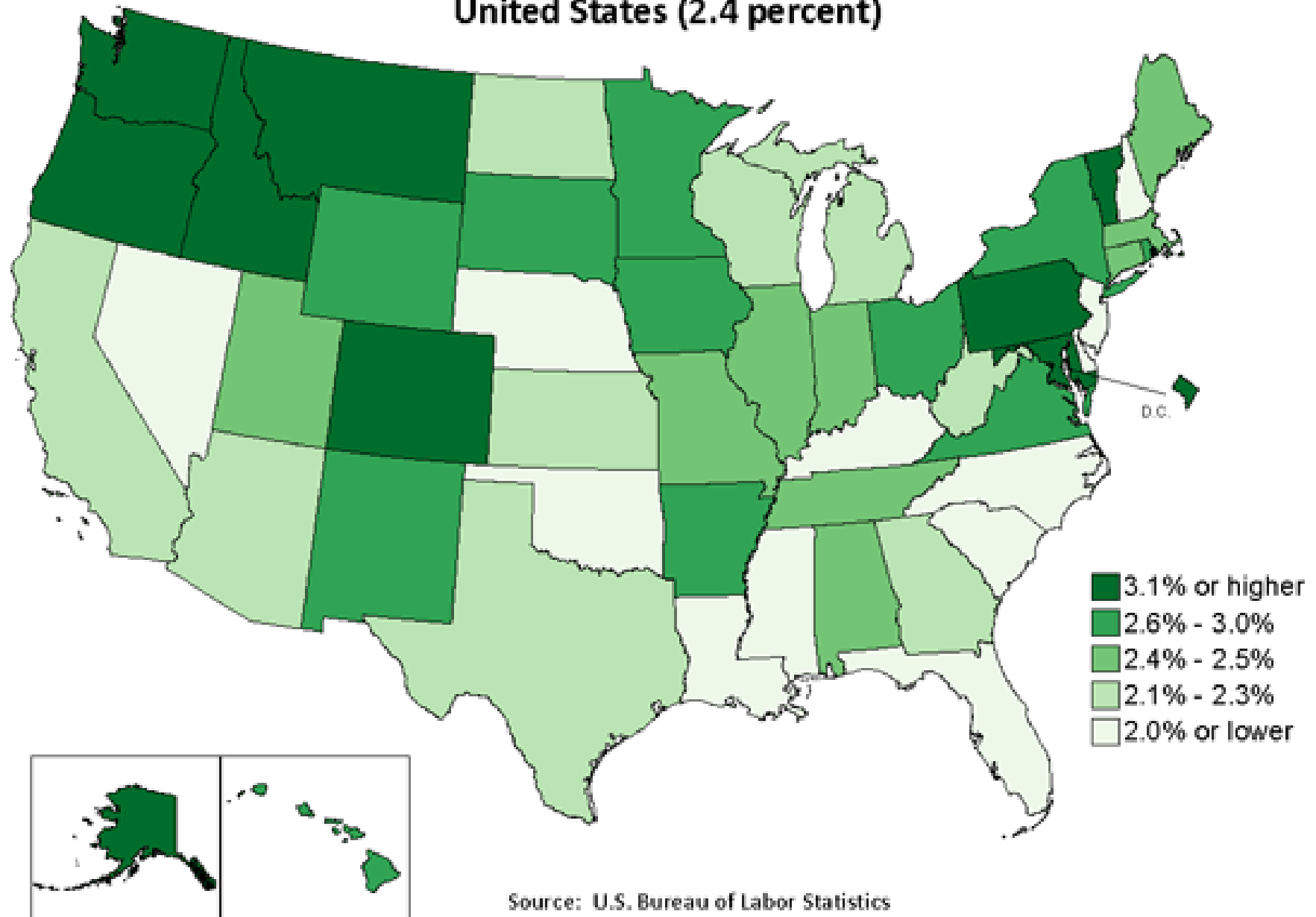
With this definition in mind, add a few more jobs to your list

Top 10 green jobs in the US

Percent of green job postings (Indeed)

Job	Share
Environmental specialist	41.5%
Environmental health and safety officer	9.7%
Environmental technician	5.0%
Water treatment specialist	4.4%
Solar installer	4.3%
Environmental manager	3.8%
Environmental health officer	3.6%
Safety, health and environment assistant	3.1%
Environmental engineer	2.9%
Water resources engineer	2.8%

**Green Goods and Services (GGS) employment by state,
as a percent of total state employment, 2010 annual averages
United States (2.4 percent)**



11 of the Fastest Growing Green Jobs

<https://www.nationalgeographic.com/environment/sustainable-earth/11-of-the-fastest-growing-green-jobs/>

URBAN GROWERS

A chef picks "farm fresh" produce from an unusual source—a rooftop apple orchard planted among the high-rises of downtown Vancouver, British Columbia. The Fairmont Waterfront hotel project showcases two large sectors of the growing green-jobs movement: food production and green building.

Green roof gardens can deliver locally sourced foods that help protect the environment by minimizing the use of pesticides, fossil fuels, and other resources to grow and transport food to market from larger commercial farms. Green roofs can also improve the urban environment by insulating buildings against energy loss, managing storm water, improving air quality, and Providing places of recreation.



WATER QUALITY TECHNICIANS

Seeking creative solutions to a water quality control problem, the [Los Angeles Department of Water and Power](#) began pouring some three million polyethylene balls into the Ivanhoe Reservoir in the summer of 2008.

The reservoir water had concentrations of naturally occurring bromide and bacteria-killing chlorine additives, and when that combination is exposed to UV rays bromate is produced—an unwanted carcinogen in 58 million gallons of water used by some 600,000 Angelenos.

Engineers flooded the surface with the same type of balls that airports use to keep birds from flocking to wetlands beside runways, where they create a hazard to aviation. This solution isn't typical, because open-air reservoirs containing chlorine are increasingly rare. But water quality problems abound and their control is an increasingly important green job around the world.



CLEAN CAR ENGINEERS

Engineers work on an electric car prototype in a California factory. Manufacturing accounts for the bulk of U.S. green jobs—more than 462,000 of the nation's 3.1 million total according to the [U.S Department of Labor's Bureau of Labor Statistics \(BLS\) report](#).

Transportation is another key green jobs category as a retooling auto industry is asked to remake the nation's fleet with vehicles that consume less fossil fuel and produce less pollution.

Transportation currently burns about two-thirds of America's oil and produces about one-third of its greenhouse gas emissions. Electric cars, like this one, are an exciting alternative but can only be as green as the ultimate source of their power.

The renewable-energy sector is working to replace dirty fuels like coal with cleaner alternatives such as wind and solar.



11 of the Fastest Growing Green Jobs

- 1) Urban Farmers
- 2) Water Quality Technicians
- 3) Electric Car Engineers
- 4) Recyclers
- 5) Natural Scientists
- 6) Green Builders
- 7) Solar Cell Technicians
- 8) Green Design Professionals
- 9) Wave Energy Producers
- 10) Wind Energy Workers
- 11) Bio-fuel Jobs

GREEN DESIGN PROFESSIONALS

The Living Roof does a lot more than keep the rain out of the California Academy of Sciences building. It's home to 1.7 million plants, each one of nine native species, from poppies to strawberries.

The 19,000-square-foot roof even boasts seven hillocks to mimic San Francisco's topography and skylights that open and close throughout the day to illuminate the building within.

The roof doesn't trap heat like a traditional asphalt application, so the building's interior averages some 10°F cooler than it would be under a standard roof. That means big energy savings. Green design professionals from architects and landscapers to urban planners are part of a growing effort to green the spaces where we live and work.

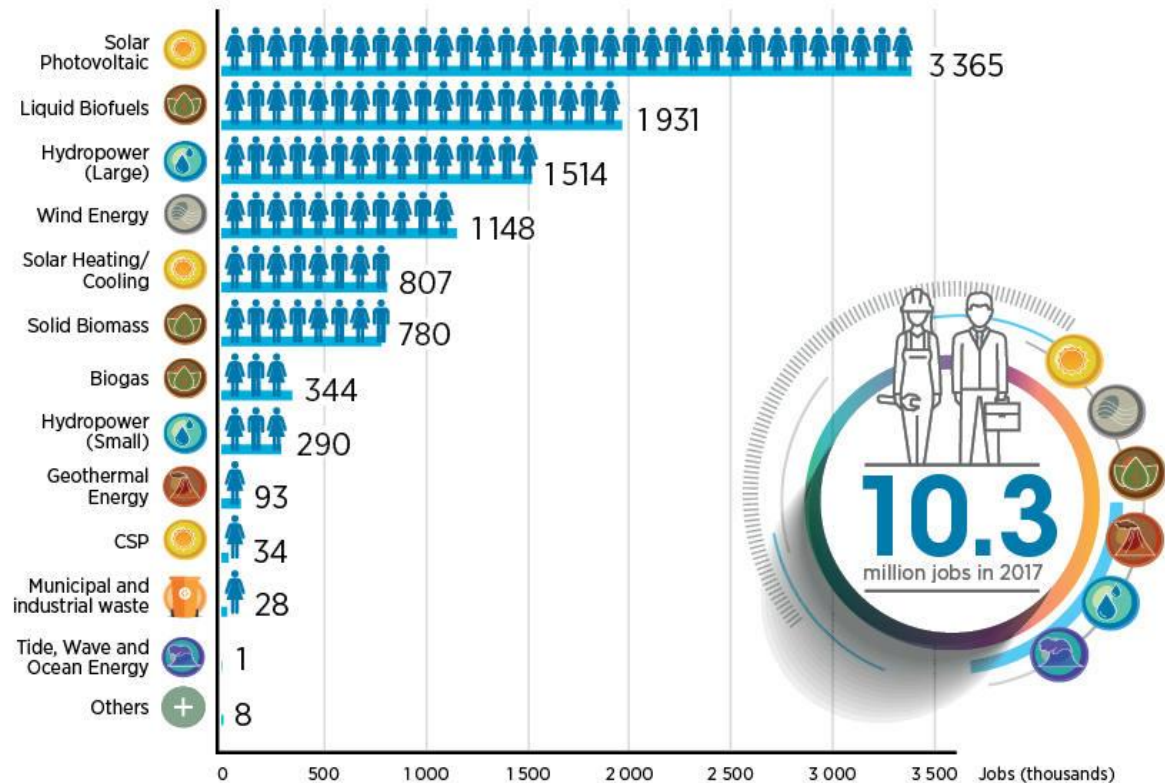


Green Jobs in the Renewable Energy Sector

Renewable Energy and Jobs
Annual Review 2018

IRENA
International Renewable Energy Agency

The renewable energy sector employs 10.3 million people, adding 500,000 new jobs last year.



What are some of the local
green jobs you thought of?



FinnRiver Farm and Cidery

We are committed to organic agriculture, human-scale production, local economics, traditional craft, community collaboration, farmland conservation, habitat restoration, and land-based education & celebration.



For more information, read their Mission (all of it!) here: <https://www.finnriver.com/story/mission>

Jefferson County PUD

MISSION

Deliver to the citizens of Jefferson County reliable electric, water, septic, and wholesale telecommunications services in a cost effective, sustainable, and customer driven manner.



98% CARBON-FREE ELECTRICITY

JPUD POWER IS LOCAL AND CLEAN

Jefferson County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.08 %	0	314	314
Coal	0.63 %	0	2,488	2,488
Geothermal	0.00 %	0	0	0
Hydro	89.53 %	347,366	8,248	355,614
Natural Gas	0.82 %	24	3,231	3,255
Nuclear	8.87 %	34,878	366	35,244
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.04 %	0	170	170
Petroleum	0.03 %	0	108	108
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	100.00 %	382,268	14,925	397,193

Sustainability Commitment:

1) 98% carbon free electricity

2) Net metering

Net Metering and Renewable Credit apply to the following systems:

- Solar Panels
- Wind Systems
- Small Hydro Systems
- Fuel Cells

3) Energy Efficiency Rebates

A final thought ...



We call for a green New Deal, like the New Deal that got us out of the Great Depression, but in this case focusing on green jobs to create 100% clean renewable energy by 2030, which is exactly what the science calls for.

— *Jill Stein* —

AZ QUOTES

Find the video here: <https://www.youtube.com/watch?v=d9uTH0iprVQ>



Climate on Tap

Thank you for coming!
Questions?

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