New Hampshire

Energy Efficiency Jobs in America

Oct 2020
10,951*
Dec 2019
11,913

Clean energy workers are a huge and important part of America's workforce. We know from our country's last economic crisis that clean energy can lead the way to recovery.

Hundreds of thousands of workers are ready to return to work to build a better, cleaner, more equitable economy for tomorrow. With innovative policies we could get these workers back on the job today. Congress can start by spurring investments in energy efficiency (EE) and help the economy recover and grow for years to come.

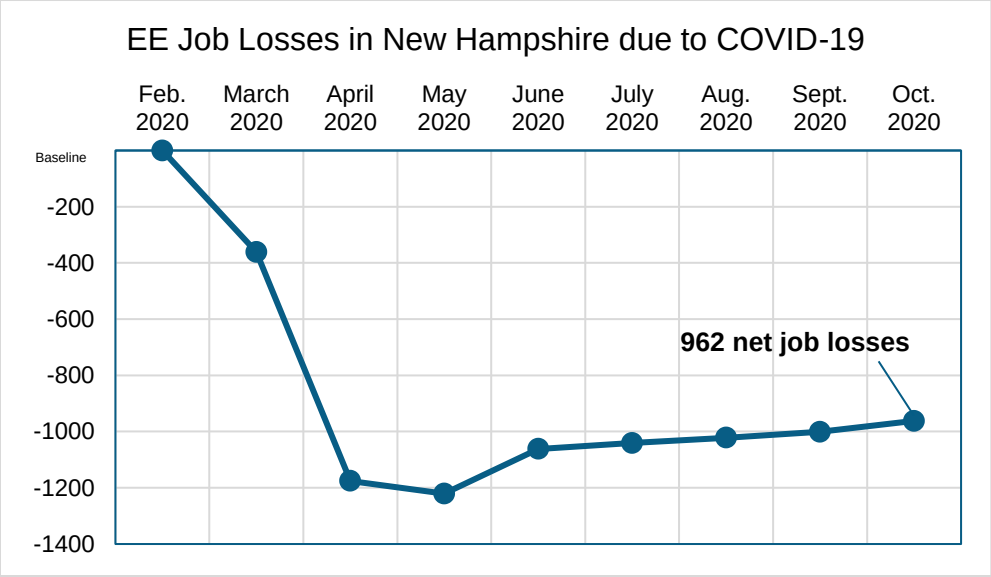
COVID-19 Impacts on the EE Job Sector

The 2020 pandemic shocked our nation's labor market with massive job losses. New Hampshire's energy efficiency industry lost as many as 962 jobs since its onset, an 8.1% decrease compared to total jobs in December 2019—wiping out the last 2 years of gains.

This disruption continues to ripple throughout the supply chain, slowing or halting the manufacture of efficiency equipment and components including insulation; windows; heating, ventilation, and air conditioning (HVAC) equipment; and other building systems technologies.

The energy efficiency workforce has the skills and expertise to meet this moment. Historically the New Hampshire EE workforce grew steadily, gaining 9.6% since 2016.**

As the U.S. advances our economic recovery, policy solutions must create conditions to return to work laid-off/furloughed EE workers and to create a pathway for new workers to join this vital sector.



8.1% DECLINE in Employment since COVID-19

Presented by:

*Source: Clean Energy Employment Initial Impacts from the COVID-19 Economic Crisis, March 2020-October 2020.
**first available sector-specific data

What are EE Jobs?

Jobs that deliver goods and services that lower energy use by improving technologies, appliances, buildings, and energy systems.

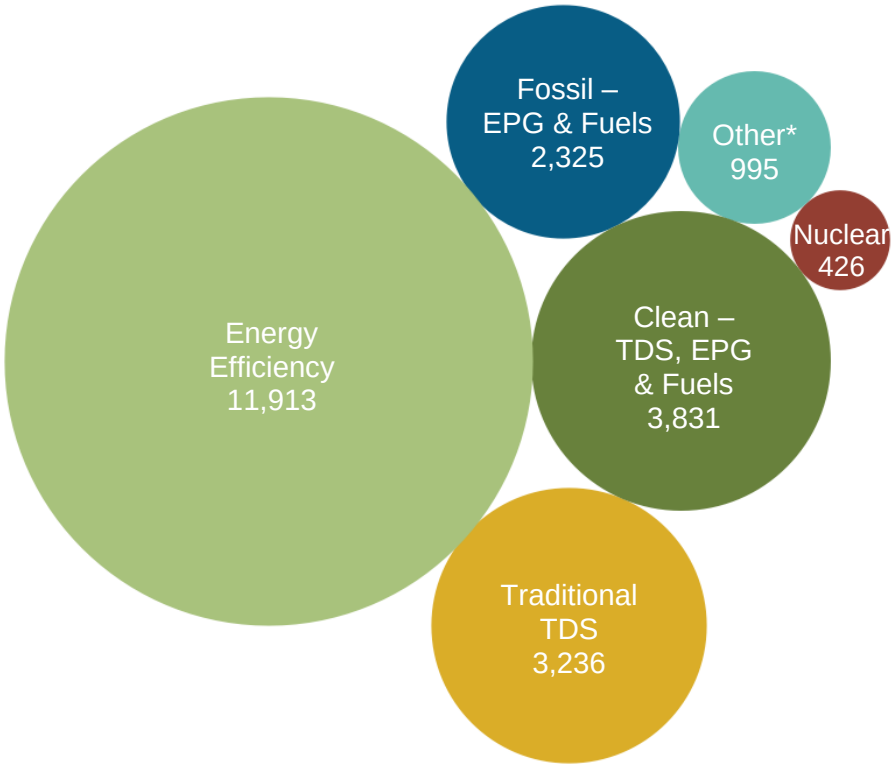
What type of work are EE workers doing?

- Manufacture and install high efficiency systems, controls, windows, insulation and ENERGY STAR-certified appliances and products in existing and new homes, commercial & industrial buildings
- Design and construct high performance buildings such as those earning LEED certification
- Upgrade and repair heating, air conditioning and ventilation (HVAC) and water heating equipment
- Educate property owners and managers on building improvements to unlock savings for businesses, homeowners, schools, states, municipalities, military bases and more
- Analyze building energy data using software to maximize savings through targeted performance improvements and behavioral changes
- Review and approve loans to finance energy savings performance contracts to improve the comfort, health and operational costs of buildings

All EE jobs counted in this report enhance energy efficiency. The above descriptions provide illustrative examples of what some EE workers do, and should not be considered an exhaustive list of all efficiency work.

How does EE compare in New Hampshire?

Energy efficiency is the largest energy sector in New Hampshire.



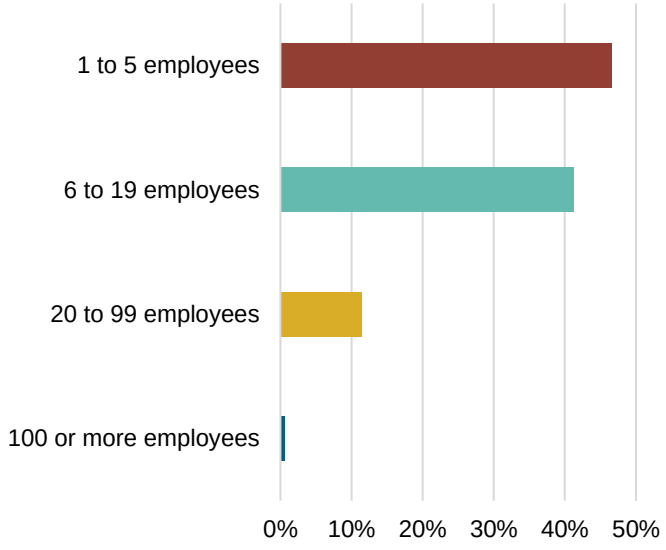
Energy efficiency in New Hampshire has seen consistent, reliable job growth – 9.6 percent since 2016.

*Includes other energy subsectors such as corn ethanol, woody biomass, large hydropower, and others.

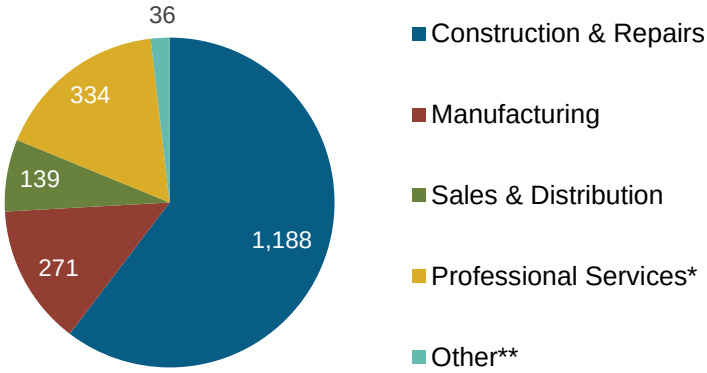
What do the EE businesses look like in New Hampshire?

EE Sector =
1,969
Businesses in NH
(Dec. 2019)
↑ **30** over 2018

99.3% of NH Businesses Have Less Than 100 Employees



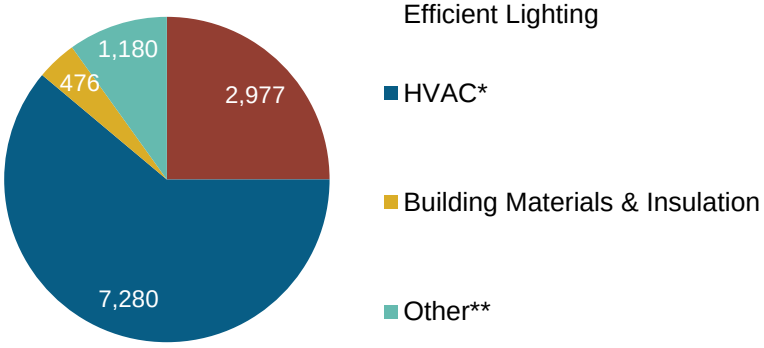
Firms by Supply Chain



* Professional services includes finance/accounting, architecture, engineering, R&D, etc.
** Other such as maintenance, and business and nonprofit organizations

8.3%
of New Hampshire residents employed in EE are **Veterans**

Jobs by Sector



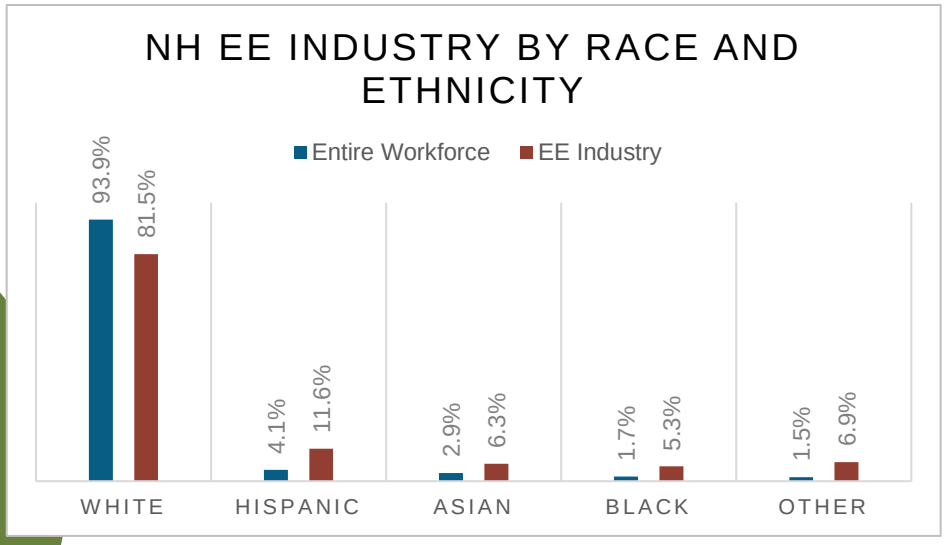
* Heating, Ventilation, Air Conditioning of higher than standard efficiency/renewable heating & cooling
** Other such as energy audits, building certifications, and software services

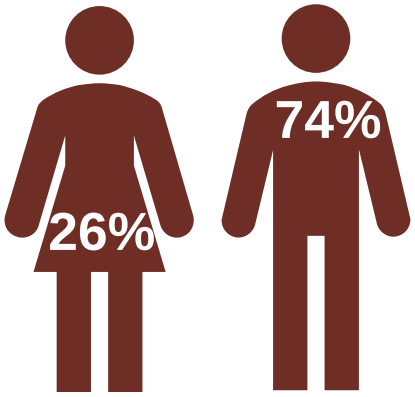
Energy Efficiency Construction Workers Make Up 25% of NH Construction Workers

How is EE Doing regarding Diversity in New Hampshire?

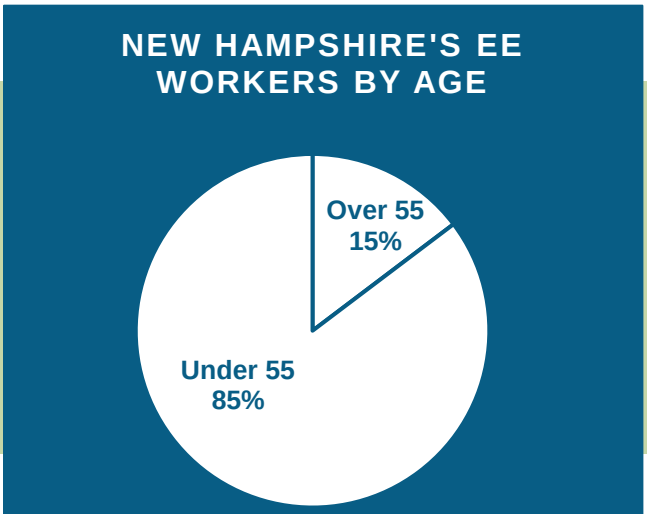
Demographic data is crucial for benchmarks and to measure progress in the energy efficiency industry. In striving for more diversity in EE jobs, we can create a stronger and more inclusive industry. Promoting diversity in hiring is key to maintaining a future workforce of talented professionals and ensuring all New Hampshire communities are represented in the EE sector.

The EE industry needs to do more to prioritize minorities and women for training and support that will enable them to obtain and/or retain employment at EE businesses.





Note: The U.S. Bureau of Labor Statistics (BLS) only includes two genders in their survey. Non-binary gender data is missing from this document due to this limitation.



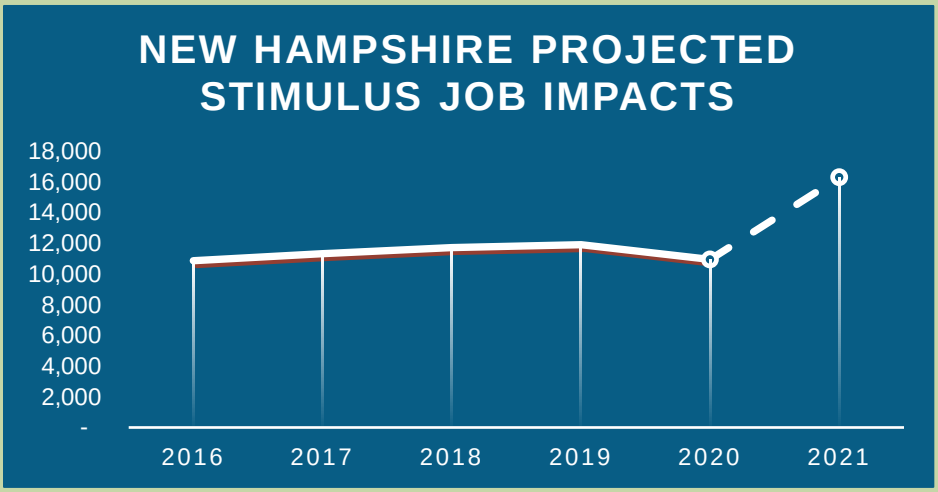
A significant portion of the New Hampshire efficiency workforce is in the “55+” category. 15% are likely to retire within the next ten years, providing career opportunities for current and future professionals.

Why invest in EE?

Economic benefits of a federal energy efficiency stimulus package include high-quality jobs for U.S. residents, worker income, boosts to local, state, and federal tax revenues, contributions to Gross Domestic Product (GDP), and energy cost savings.

All these benefits ultimately translate to greater cash flow and stronger local economies. Energy efficiency jobs are proven to be sustainable wage positions that are accessible to all localities nationwide — regardless of geography or politics — providing new jobs that cannot be outsourced.

Updates to U.S. energy infrastructure are investments in the collective economic future of Americans; the creation of a more resilient energy system is vital to economic growth and security.

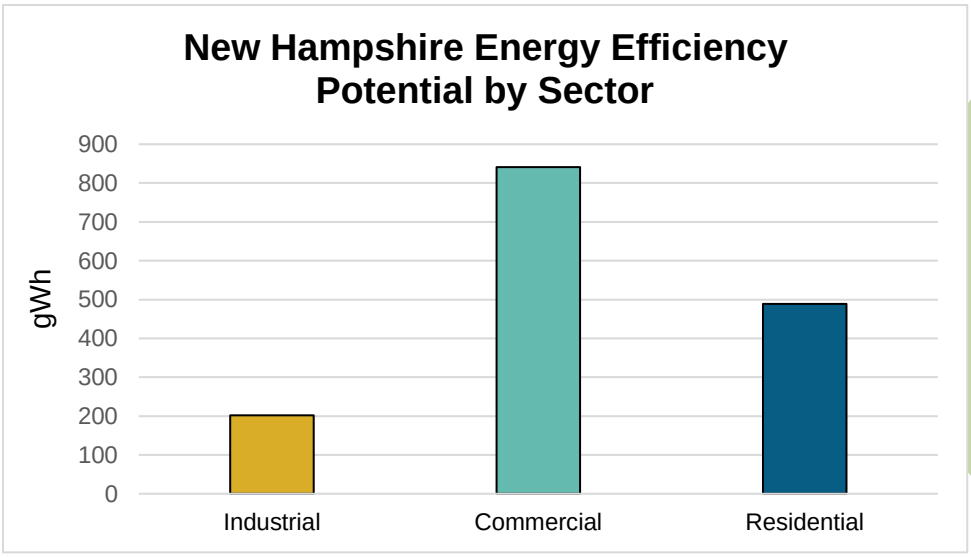


Source: Build Back Better, Faster.

Modeling finds that federal investment would create **5,345 full-time direct, indirect, and induced NH jobs** that will last for at least five years: Over **26,727 job-years** total.

A stimulus of this level and the jobs it would create would also generate more than **$393 million in GDP** each year for the next five years – resulting in **$2.0 billion in economic activity**, more than 3.8 times the investment.

How much energy efficiency is untapped in your state?



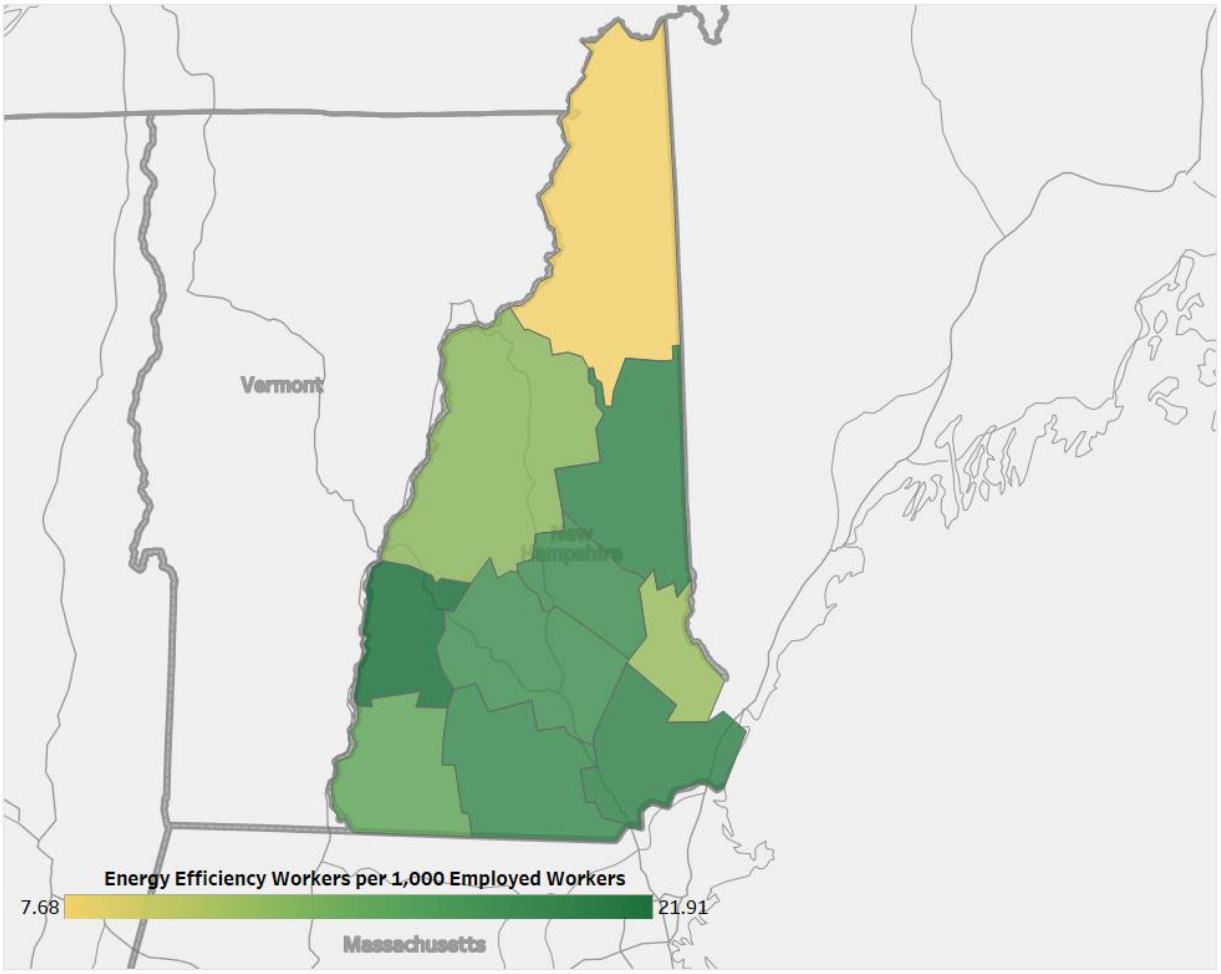
Combined, this would displace the annual electricity consumption of **213,111** homes.

Source: State and Local Planning for Energy (SLOPE) Platform.

Where are EE Jobs?

Congressional		Metropolitan Areas	
District	Jobs	Area	Jobs
1	6,469	Boston-Cambridge-Quincy	5,352
2	5,444	Manchester-Nashua	2,865
		Rural	3,695

Energy Efficiency Jobs by County



State Senate

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	455	7	583	13	303	19	250
2	552	8	534	14	1,097	20	334
3	570	9	577	15	612	21	611
4	458	10	369	16	561	22	547
5	393	11	567	17	404	23	497
6	286	12	615	18	185	24	553

State House of Representatives

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	122	405	35	602	9	722	72
2	279	406	107	604	121	723	449
4	88	408	77	605	<5	724	58
5	52	409	75	606	51	801	22
6	82	410	131	607	71	802	40
7	22	412	64	609	97	803	50
101	99	413	40	610	566	804	118
102	115	501	107	620	159	805	24
103	65	502	80	623	113	806	298
104	175	503	39	624	135	807	155
105	86	504	201	701	52	817	71
117	8	505	17	702	158	818	29
201	91	506	242	704	216	901	64
202	199	507	250	705	483	902	116
203	25	508	147	706	45	903	88
209	191	510	464	707	81	906	38
211	62	512	198	708	326	907	23
212	83	520	285	709	102		
301	55	521	398	710	353		
302	37	523	124	712	34		
303	50	525	12	713	55		
304	19	526	123	714	97		
305	15	528	166	715	41		
306	29	529	66	716	37		
401	96	530	300	717	19		
402	53	531	123	719	135		
403	39	537	119	720	127		
404	18	601	143	721	124		

E4TheFuture is dedicated to bringing clean, efficient energy home for every American and promotes energy solutions to advance climate protection and economic fairness. Visit www.E4TheFuture.org

E2 is a national, nonpartisan group of business leaders, investors and others who advocate for smart policies that are good for the environment and good for the economy. Visit www.e2.org

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Data Source: Unless otherwise stated, all data are from the 2020 U.S. Energy and Employment Report, March 2020, by NASEO and EFI (see Appendix A, pages 201-206 for methodology details). This methodology -- adopted by the U.S. Dept. of Energy for its 2017 U.S. Energy and Employment Report, approved by the Office of Management and Budget and grounded on data collected by the U.S. Bureau of Labor Statistics -- provides the broadly accepted best accounting of all U.S. energy workers.