

The energy transition needs you!

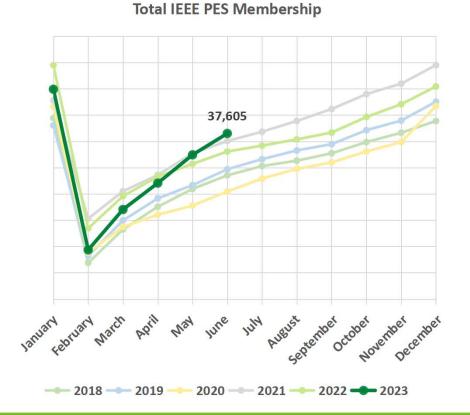
Dr. Julio Romero Agüero VP Chapters & Membership, IEEE PES

2023 IEEE PES General Meeting Orlando, FL July 17, 2023

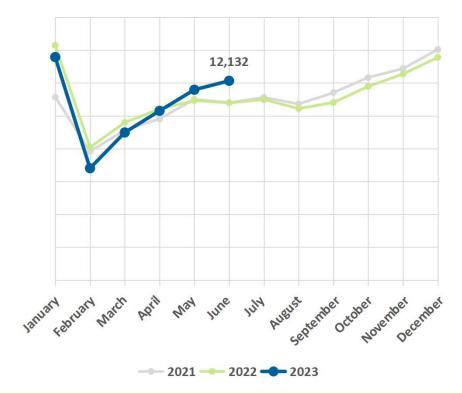
PES Membership



- Greatest YoY PES membership of the last five years (2018-2023), <u>PES has 37,605 members as of June 2023!</u>
- Students and graduate student members comprise about 1/3 of our total membership



Student and Graduate Student Members



IEEE PES Membership by Age Group



- Growing segment of our membership approaching retirement
- Need for greater involvement of students in technical activities

10,000 9,000 8,000 7,000 Members 6,000 5,000 4,000 3,000 2,000 1,000 0 20's 30's 40's 50's Over 60 Age

2003 2021

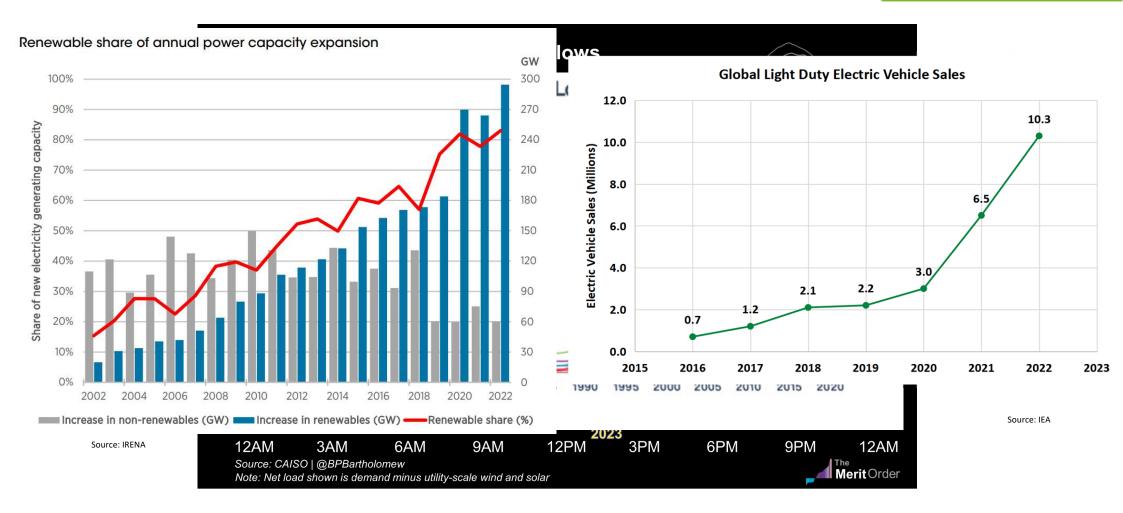
IFFF

PFS

Power & Energy Society

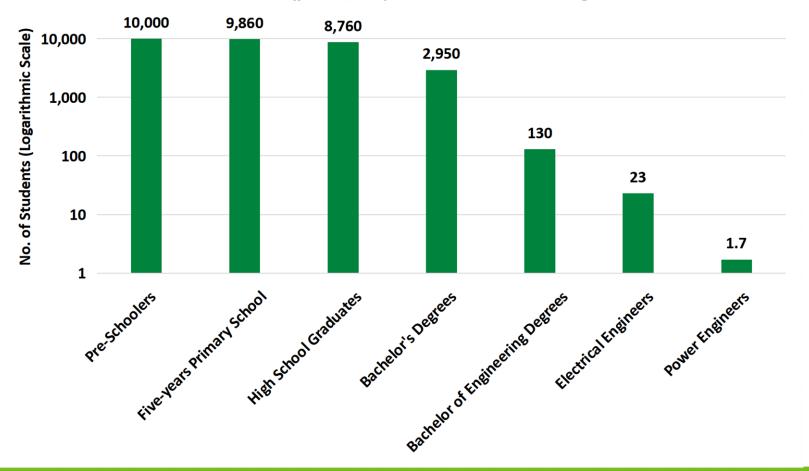
What we do is <u>cool</u> and <u>vital</u> for our global future!





Power & Energy Society*

The energy transition will require more power and energy professionals!



No. of Students (per 10,000) who become Power Engineers

5

Source: EPRI

We need a bigger tent!



- Our industry is increasingly becoming multidisciplinary
- PES is the home of <u>all</u> power and energy professionals

Profession	Bachelor's Degrees Awarded (Total)	Profession	Bachelor's Degrees Awarded to Women
Mechanical	34,781	Environmental Engineering	57.8%
Computer Science (Inside Engineering)	23,732	Biomedical	51.5%
Computer Science (Outside Engineering)	15,430	Biological and Agricultural	39.1%
Civil	13,586	Chemical	38.5%
Electrical	13,495	Architectural	36.0%
Chemical	9,872	Industrial/Manufacturing/Systems	34.1%
Computer	8,244	Metallurgical and Materials	32.6%
Biomedical	8,165	Engineering Management	31.2%
Industrial/Manufacturing/Systems	7,496	Civil/Environmental	30.6%
Other	7,231	Civil	28.1%
Aerospace	5,166	Other	27.7%
Electrical/Computer	3,700	Engineering (General)	27.1%
Engineering (General)	1,988	Engineering Science and Engineering Physics	23.1%
Metallurgical and Materials	1,841	Computer Science (Outside Engineering)	21.5%
Civil/Environmental	1,457	Mining	21.2%
Biological and Agricultural	1,310	Computer Science (Inside Engineering)	19.9%
Environmental Engineering	1,181	Electrical/Computer	19.1%
Petroleum	708	Petroleum	17.4%
Engineering Science and Engineering Physics	689	Mechanical	17.3%
Architectural	681	Nuclear	16.9%
Nuclear	384	Aerospace	15.9%
Engineering Management	375	Electrical	15.5%
Mining	151	Computer	15.4% Source: ASE

Volunteer!

- The world is still experiencing, on average, a shortage of engineers in all domains.
- IEEE and PES can help accelerate career growth, ensure access to continuous education and prepare members to lead and address existing and future industry challenges driven by the energy transition
- The future of PES and our industry relies on strong leadership, commitment, volunteering and innovative thinking from all our members!
- <u>Please reach out and volunteer with your local Chapters, we need your</u> <u>support to continue growing and providing benefits to our members!</u>

SUSTAINABLE GOALS

ICFF



"Engineering is a vital profession in addressing basic human needs, in alleviating poverty, in promoting secure and sustainable development, in responding to emergency situations, in reconstructing infrastructure, in bridging the knowledge divide and in promoting intercultural cooperation." UNESCO