

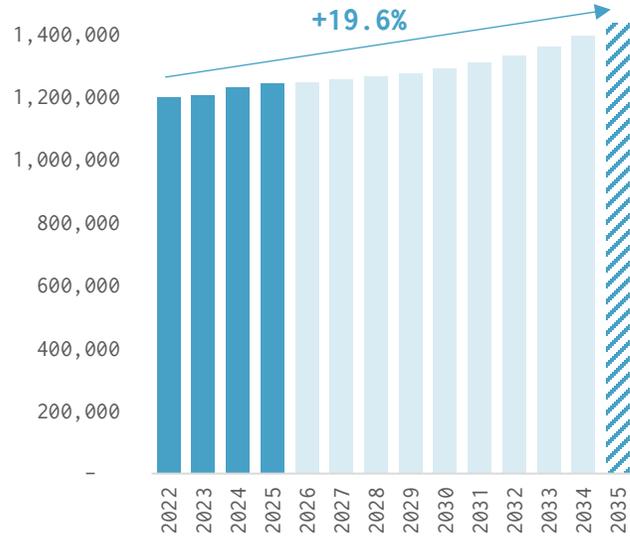


Employment in the Energy Sector

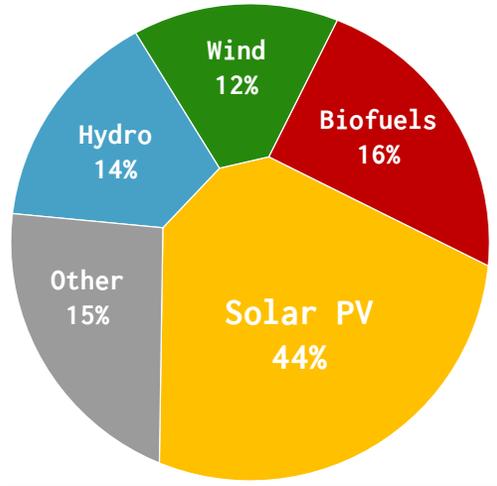
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Vol.38 Employment in the Energy Sector

Forecast of employed population in the energy supply sector in EU, [2022-2035]

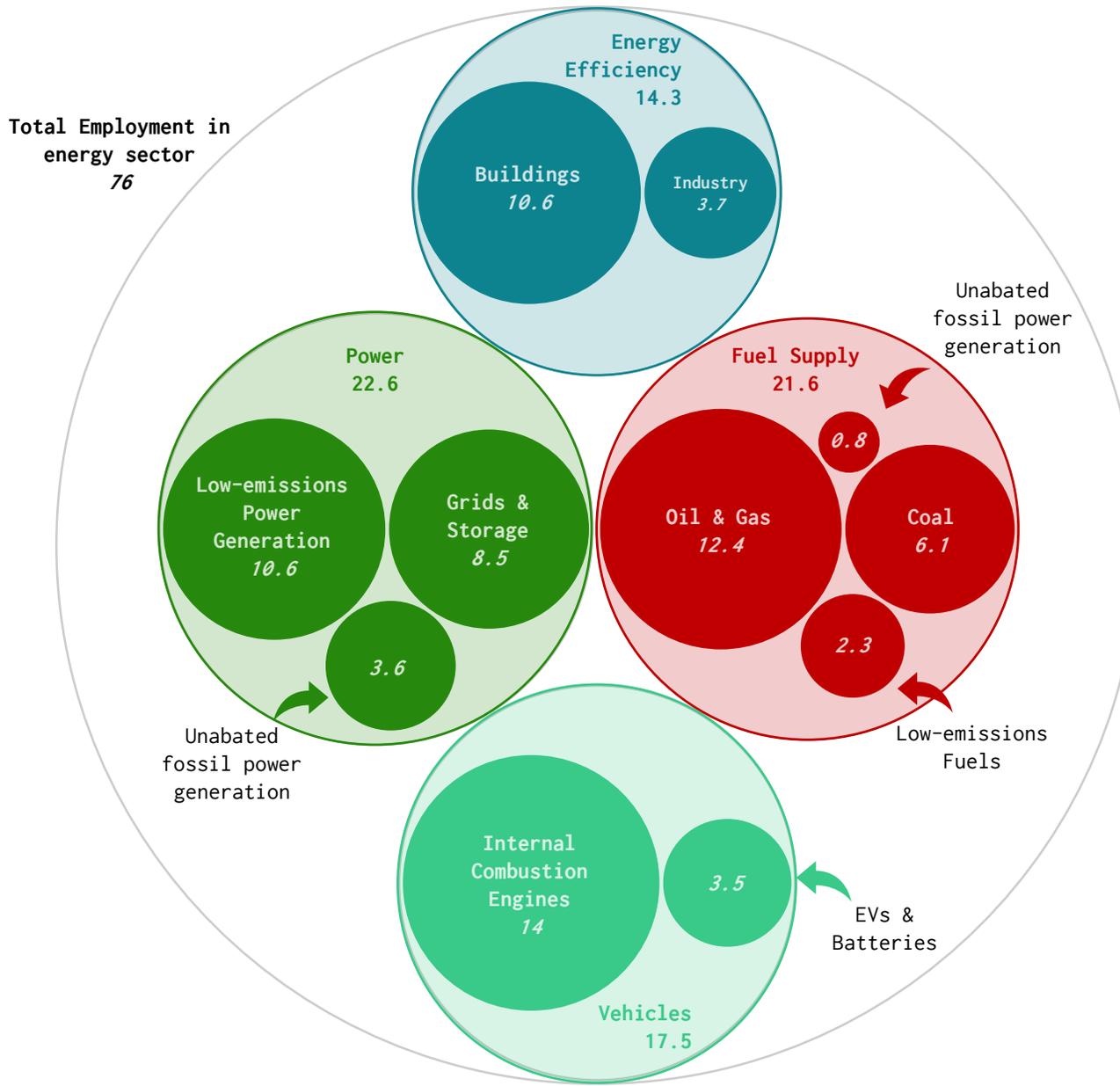


Global Renewable energy employment by technology (million jobs), [2024]

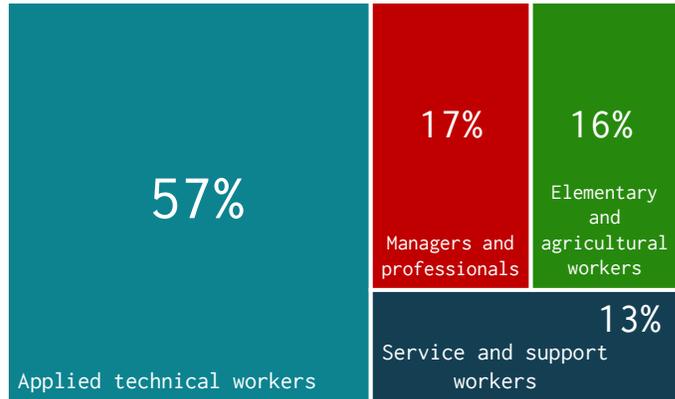


Total 16.6 million jobs in RES in 2024

Global Energy Employment by sector (million workers), [2024]

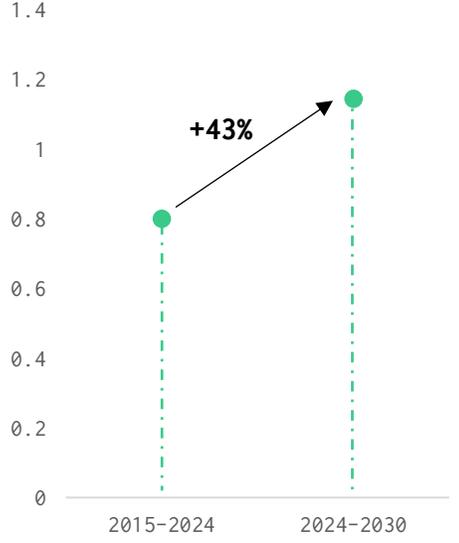


Global occupational employment shares in the energy sector related, [2024]



- Applied technical workers
- Managers and professionals
- Service and support workers
- Elementary and agricultural workers

Average annual hires (million) of applied technical workers, and projection for the period 2024-2030



Global employment in the energy sector continues to grow steadily. Jobs in clean energy are expanding rapidly, with RES reaching the 16.6 million jobs in 2024, representing a 2.3% increase compared to the previous year. These figures demonstrate that employment in the energy transition is no longer a future prospect but a present reality.

Rise of Clean Energy

Employment in the energy sector is projected to increase by 19.6% between 2022 and 2035, indicating steady growth across the global energy system. This rise highlights a sustained structural demand for skilled labour, driven primarily by electrification, renewable energy expansion, and infrastructure upgrades. Notably, employment in Greece's energy sector is expected to grow by 52.9%, reflecting the country's strong investment momentum in this area.

Growth in Employment



Necessity for Skill

Occupational employment data for 2024 indicate a strong demand for technical and applied skills within the energy sector. Engineers, technicians, and specialised workers constitute the majority of the workforce, reflecting the sector's growing complexity. As energy systems become increasingly digitalised and decentralised, workforce requirements are becoming more skill-intensive, underscoring the importance of targeted education, vocational training, and reskilling initiatives.

The future of Employment

Since 2015, the average annual hiring of applied technical workers has increased significantly, with projections showing continued acceleration through 2030. This growth reflects the extensive infrastructure development needed to support the growing energy infrastructure. Without ongoing investment in training and workforce development, labour shortages may become a critical constraint, potentially slowing the pace of energy investment rollout.

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