

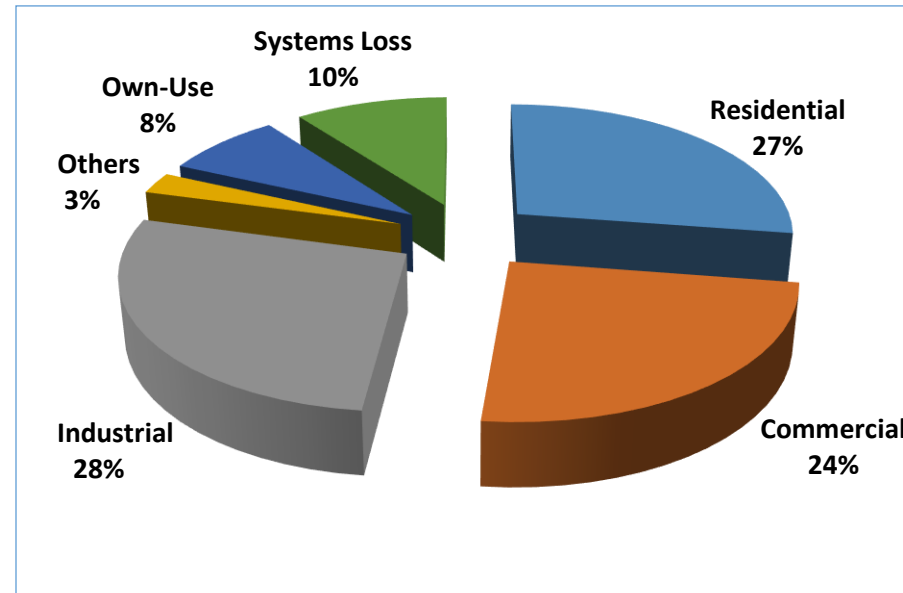
RENEWABLE ENERGY OPTIONS FOR THE INDUSTRY SECTOR

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Electricity Sales and Consumption by Sector

	2013
	GWh
Residential	20,613.72
Commercial	18,303.75
Industrial	20,676.80
Others	1,971.35
Total Sales	61,565.62
Own-Use	5,959.41
Systems Loss	7,740.83
TOTAL	75,265.86



Key Areas for exploiting the potentials of renewable energy

- So far, the potential of renewable energy technologies in the industry sector has received scant attention.
- Studies shows that the current renewable energy share in the industry sector could be raised to contribute to doubling the share of renewable energy in the global energy mix by 2030. (IRENA)

Key Areas for exploiting the potentials of renewable energy

PRIORITY AREAS

- **Energy-intensive sectors:** With 75% of the total industrial energy demand and long lifetimes for these types of plants, the energy-intensive sectors need to consider renewable energy options not only as an integral part of their new build capacity, but also as part of their existing capacity.
- **Small and medium enterprises (SMEs):** Accounting for more than 90% of all manufacturing businesses, SMEs play a crucial role in increasing the deployment rate of renewable energy technologies, providing local manufacturing opportunities and stimulating cost reductions through learning by doing.

Key Areas for exploiting the potentials of renewable energy

PRIORITY AREAS

- **Biomass:** Among the renewable technology options, biomass has the largest substitution potential in the manufacturing industry, but immediate and internationally coordinated action is required to alleviate the serious supply constraint of sustainable sourced and low-cost biomass resources, and to deploy the most resource efficient biomass use applications.
- **Solar thermal systems:** Solar thermal heat systems have a large technical and realizable economic potential in small scale plants and less energy-intensive industries like the textile and food sectors, but the vicious circle of high initial capital costs and low deployment rates needs to be broken.

Key Areas for exploiting the potentials of renewable energy

- **Electrification:** With increased electrification in the industry sector, renewable energy deployment can only be achieved through technology development in both the industry and power sectors.
- **Regional aspects:** Regional potential depends on production growth, ratio of existing and new capacity, and renewable resource availability. Energy pricing and climate policies can ensure a level playing field and biomass resource constraints may be elevated by trade, but equally important will be specific policies to support the different industries in deploying renewable energy.

Thank you!

Source:

RENEWABLE ENERGY OPTIONS

FOR THE INDUSTRY SECTOR:

GLOBAL AND REGIONAL

POTENTIAL UNTIL 2030, IRENA