E REERSETT FOR A SUSTAINABLE FUTURE



Take up the technical challenges of sustainable energy.

Energy consumption is predicted to increase 50% by 2030 and almost double by 2050. Conventional carbon-based sources, while plentiful, degrade our environment, perhaps with catastrophic consequences. Nuclear power has promise and dangers but is not a renewable source, and known fuel supplies cannot meet our growing needs for more than a few decades. Terrestrial fusion sources could be the ultimate answer, if we can harness the promise, but it still seems 50 years off, as it has for the last 50 years.

What about our life-sustaining fusion source, the sun? Solar energy is superabundant, clean and attainable. It is the only renewable source that can supply projected future energy needs.

Solar energy has the advantage of being available everywhere; it can be used to power phones in far-flung regions, drive water pumps in developing areas that lack electrical distribution systems, and run heating and electrical systems in homes in the energy-hungry developed world. The use of solar systems simplifies energy distribution, but challenges remain in energy storage; here again scientists and engineers have the opportunity to contribute.

