

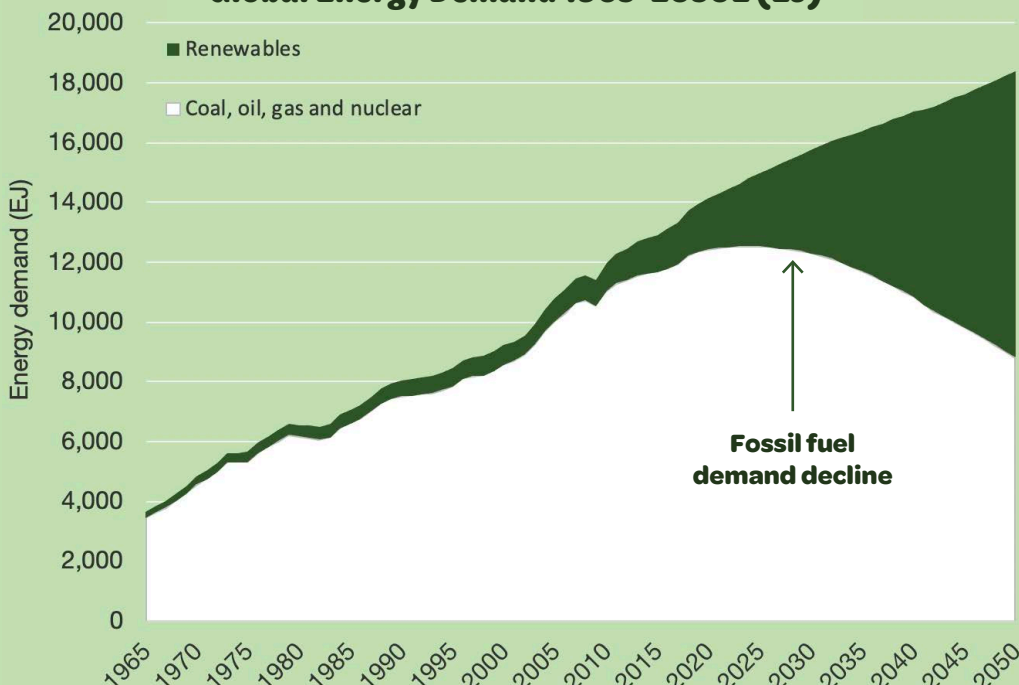
The Time has Come for

# Renewables



## From Incremental to Exponential Growth

### Global Energy Demand 1965-2050E (EJ)



## Fossil Fuels are Becoming Dinosaurs

Population and GDP growth will mean increasing demand for energy. This growing demand will be met by rapidly increasing use of renewable energy accompanied by a decline in nonrenewable energy.

## What's behind the coming exponential growth for renewables?

### Economics

In most cases it is cheaper to construct and operate a renewable power plant than a fossil fuel plant.

Solar PV costs have fallen **82%** over the last decade<sup>1</sup>

### Climate Change

The only remaining debate about climate change is politically (or special interest) motivated; the science on the subject is definitive.

There are approx. **1,880** climate laws & policies globally, up from 72 in 1997<sup>2</sup>

### Declining Battery Costs

Electric Vehicle (EV) growth will accelerate as the price advantage for gasoline powered vehicles flips in favor of EVs.

Battery costs have fallen **87%** since 2010<sup>3</sup>

### Pollution

Governments around the world are seeking cleaner air within their cities.

Pollution was responsible for **9 million** premature deaths in 2015<sup>4</sup>

### ESG Concerns

Incorporating some of the above points, it is increasingly clear that humans want and expect a better planet.

The United Nations Principles for Responsible investment has grown from

**63** signatories → **2,500+** signatories  
**\$6.5 tn** AUM → **\$90 tn**<sup>5</sup> AUM

### Important Information

<sup>1</sup> [https://www.solarpowerportal.co.uk/news/solar\\_pv\\_costs\\_fall\\_82\\_over\\_the\\_last\\_decade\\_says\\_irena](https://www.solarpowerportal.co.uk/news/solar_pv_costs_fall_82_over_the_last_decade_says_irena)  
<sup>2</sup> <https://www.ipu.org/file/4925/download>  
<sup>3</sup> <https://about.bnef.com/blog/battery-pack-prices-fall-as-market-ramps-up-with-market-average-at-156-kwh-in-2019/>  
<sup>4</sup> <https://www.npr.org/sections/goatsandsoda/2017/10/19/558821792/report-pollution-kills-3-times-more-than-aids-tb-and-malaria-combined>  
<sup>5</sup> <https://www.forbes.com/sites/betsyatkins/2020/06/08/demystifying-esgits-history--current-status/>  
 (\$tn AUM represents \$trillion Assets Under Management)

Investing involves risk, including the possible loss of principal.

The Fund's investment objectives, risks, charges and expenses must be considered carefully before investing. The statutory and summary prospectuses contain this and other important information and can be obtained by visiting [www.SmartETFs.com](http://www.SmartETFs.com). Read it and consider it carefully before investing.

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