



### Progress to Action

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The International Renewable Energy Agency (IRENA) is the intergovernmental organisation that serves as the principal platform for co-operation, a centre of excellence, a repository of policy, technology, resource and financial knowledge, and a driver of action on the ground to advance the transformation of the global energy system. IRENA promotes the widespread adoption and sustainable use of all forms of renewable energy, including bioenergy, geothermal, hydropower, ocean, solar and wind energy, in the pursuit of sustainable development, energy access, energy security and low-carbon economic growth and prosperity.



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The world has undergone dramatic change over the last decade. Growing populations have increased global energy demand, the urgency of addressing climate change has intensified, and sustainable development has moved into sharp focus.

In response, renewable energy has advanced from the margins to the centre ground of global energy and development policy. This mainstreaming has made renewables the world's primary source of new power capacity, outpacing all other forms of new generation put together for the last seven years.

Yet the deployment of renewables must accelerate considerably to meet development goals in the new decade. Universal energy access, sustainable economic growth and gender equality should all be a reality by 2030. Renewables contribute across the sustainable development spectrum.

10 Years: Progress to Action charts recent global advances and outlines the measures still needed to scale up renewables, achieve sustainable development and meet key climate goals set by the United Nations for the next ten years.

The solutions are affordable, readily available and deployable at scale. It is possible to achieve sustainable development and climate goals, but only through a decade of unprecedented ambition and decisive action.

THAT DECADE OF ACTION STARTS NOW.

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## Renewables have become the world's main source of new power generation capacity





# Renewable capacity can become the world's primary source of power generation









## Renewables must grow to meet climate goals



## Renewable power generation increasingly competes head-to-head with fossil fuels



### Renewable power could become the most competitive option based on costs alone





GW = gigawatt MWh = megawatt-hour

### The world has invested USD 3 trillion in renewables in 10 years



### **Renewable energy investment**

### 2018 > 90% financed by private sector

Public sector financing mechanisms behind feed-in tariffs add substantial, yet indirect financial volumes.



## Annual investments in renewables must double by 2030 to ensure a sustainable future





# Renewables create growing numbers of jobs across many sectors of the economy





The global energy transformation means net gains in job creation

DECADE OF ACTION



# Off-grid renewables have emerged as a key solution to expand energy access





## Off-grid renewables will help reduce the world's energy access gap



### Innovation has paved the way for cost-effective uptake of renewables



# Innovation will accelerate the global energy transformation



potential



### "We have entered the decade of renewable energy action — a period in which the energy system will transform at unparalleled speed.

"IRENA's role in advancing this low-carbon future will further promote knowledge exchange, strengthen partnerships and work with all stakeholders, from private sector leaders to policy makers, to catalyse action on the ground. We are engaging with countries and regions worldwide to facilitate renewable energy projects and unlock investment.

"Renewables can ensure a climate-safe and sustainable future. It's possible."

> **Francesco La Camera** Director-General, IRENA





