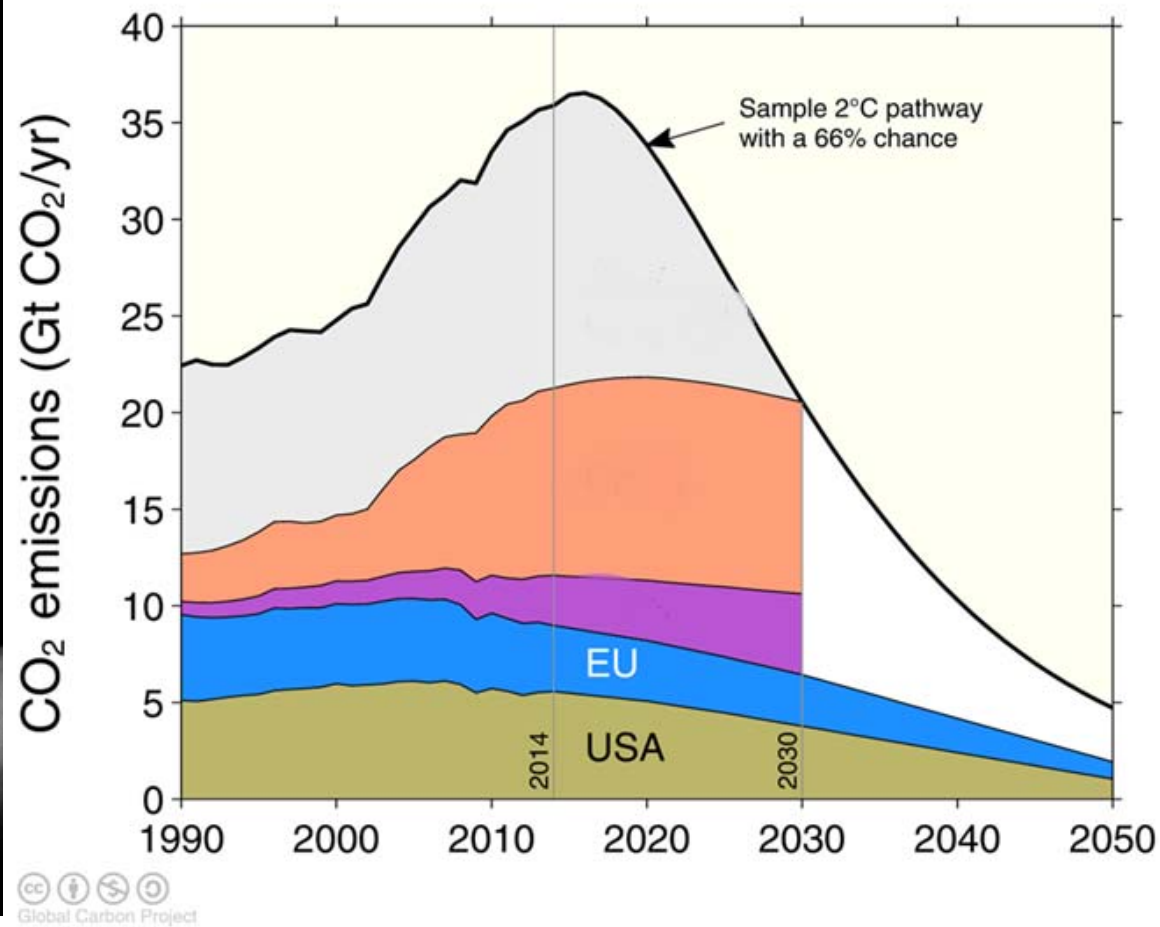


Renewables & Energy Efficiency:

Delivering after COP21

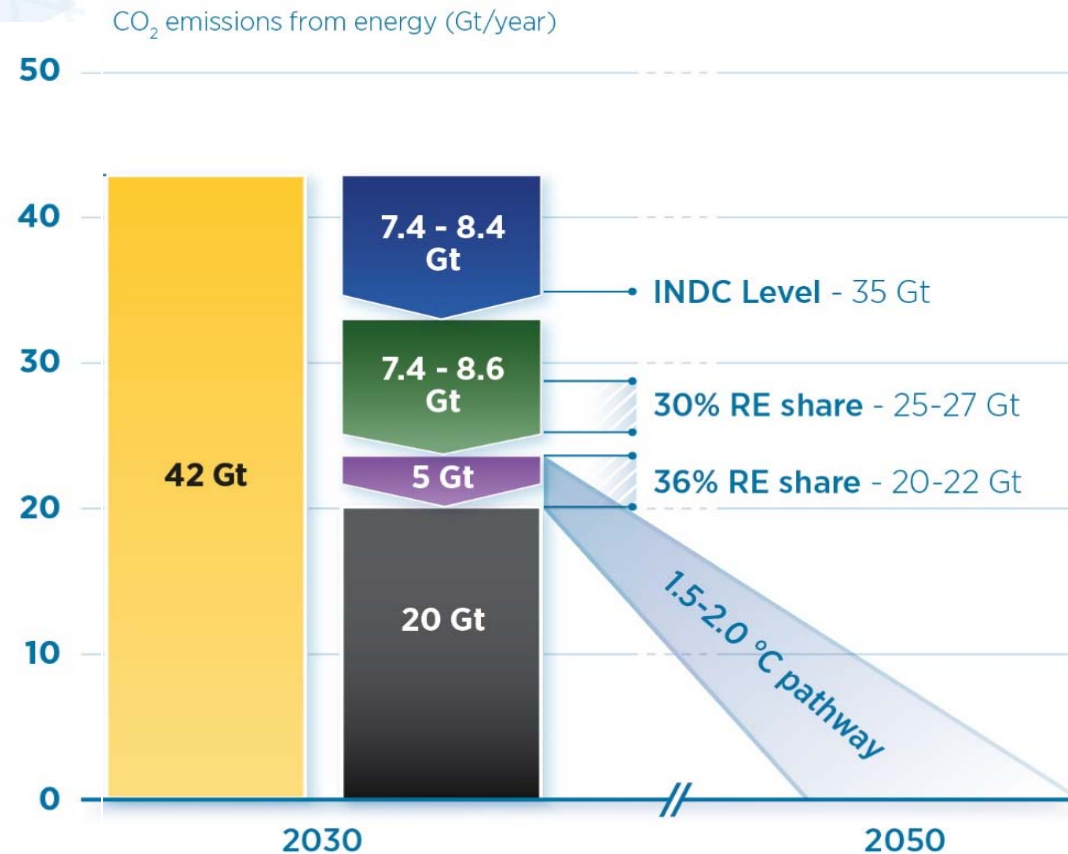
On behalf of
Adnan Z. Amin
Director General, IRENA
27 September 2016

Our biggest challenge?



nd

How do we shift onto a pathway to limit temperature increase to 2°C?



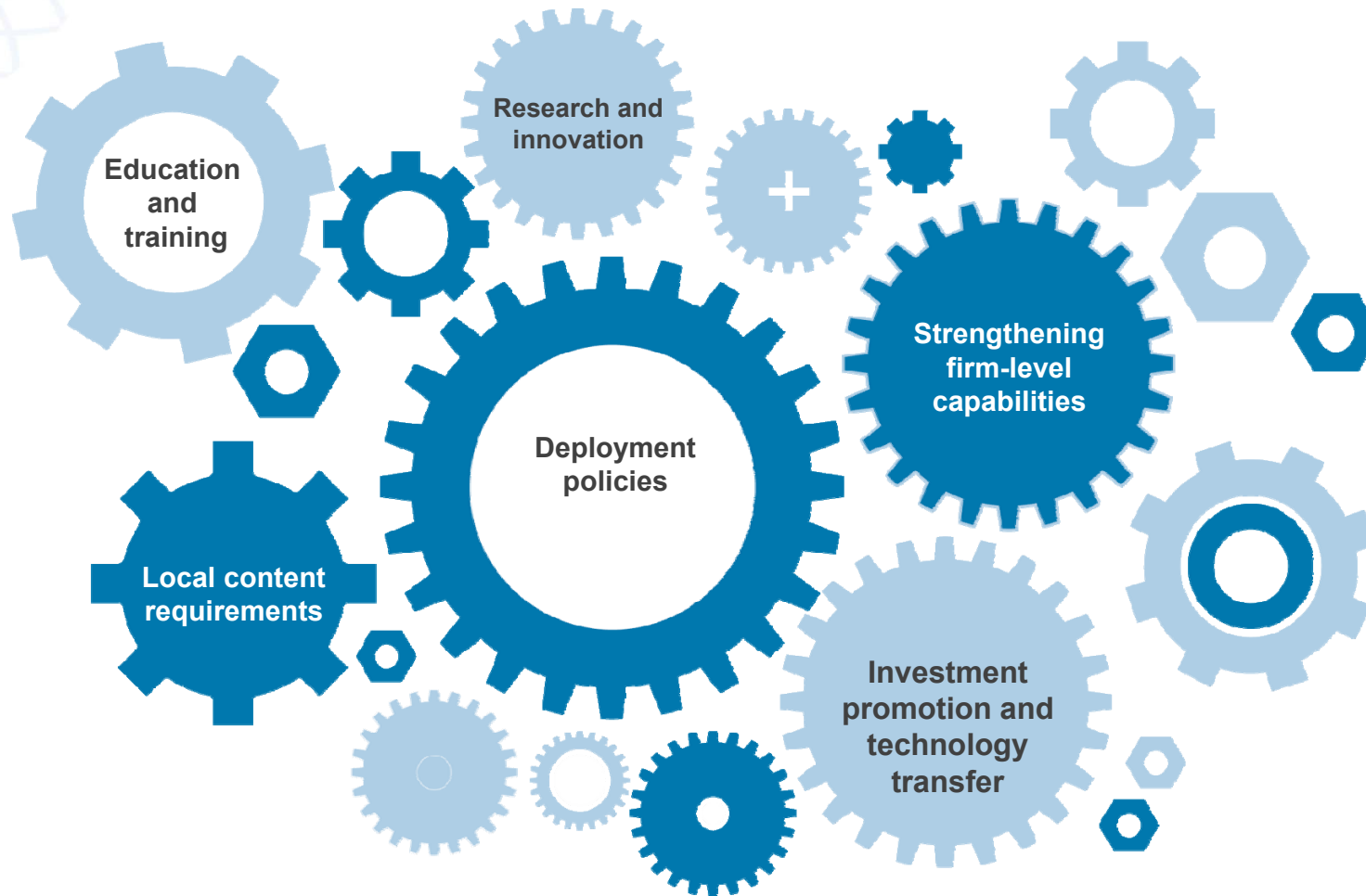
REmap: A roadmap for doubling the share of RE by 2030

Renewable energy and energy efficiency can be rapidly scaled-up

- Energy efficiency
- REmap Options
- Doubling Options

Doubling the share of renewables by 2030 would keep the world on a pathway to limiting global warming to 1.5-2.0 degrees

First priority: Getting the policy mix right

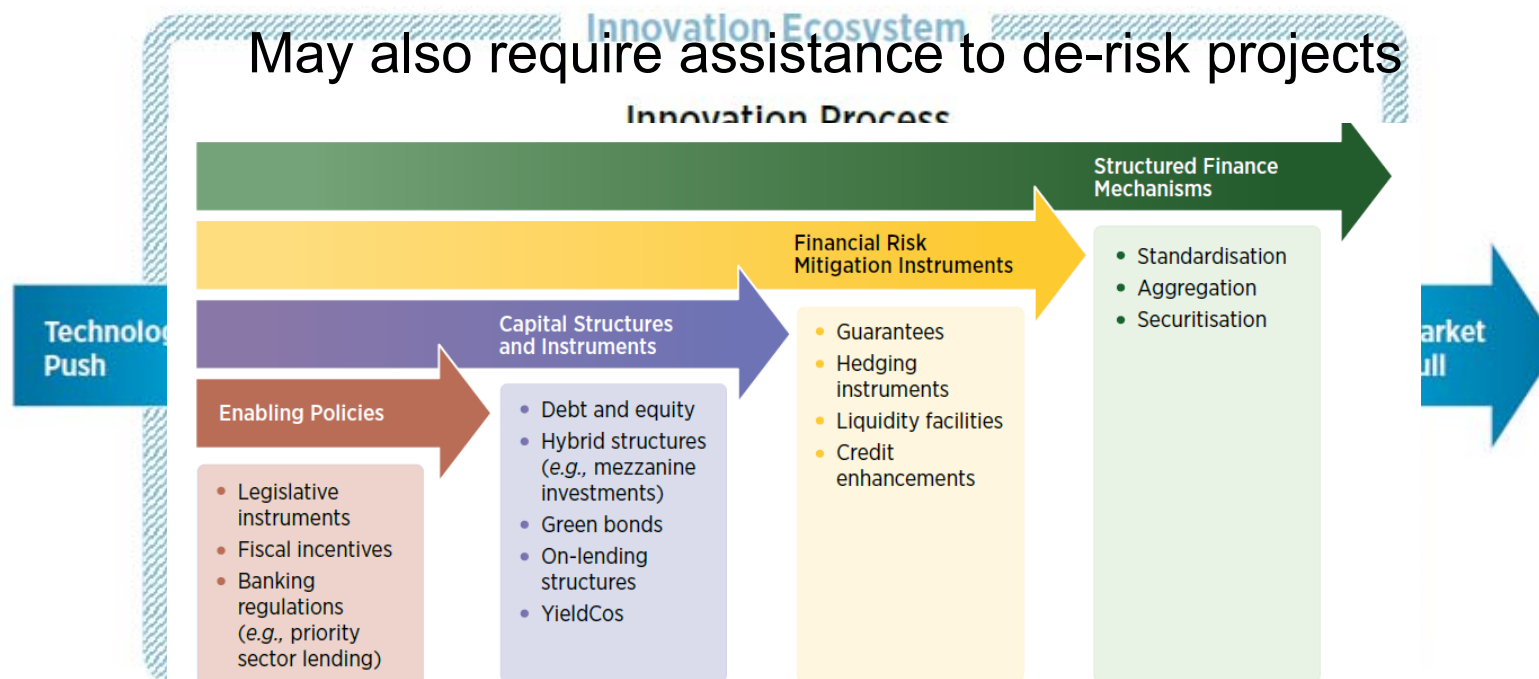


Requires a country and technology specific approach

Resources vary by country

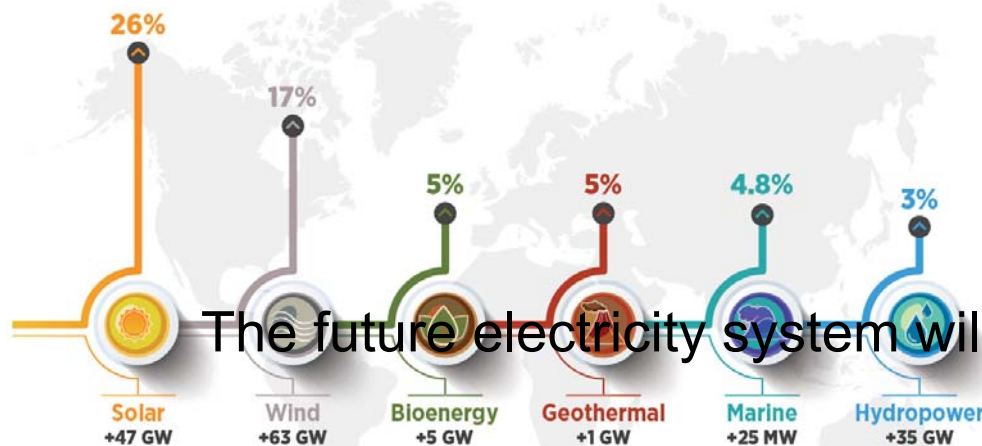
Technology maturity is a spectrum

May also require assistance to de-risk projects



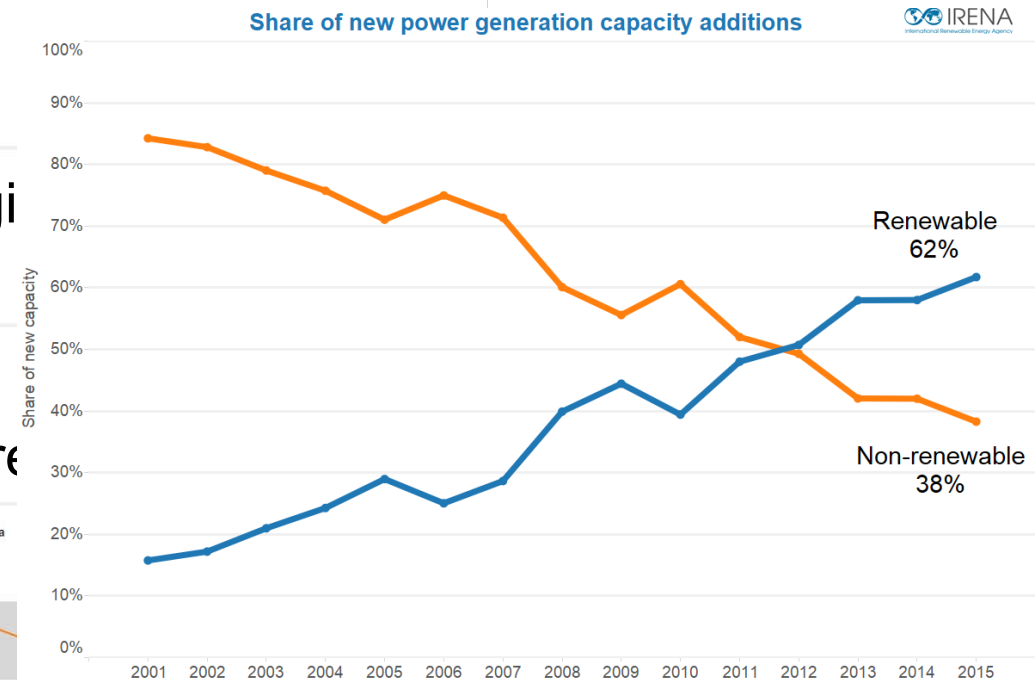
Challenges and opportunities

Today's progress in power generation is important



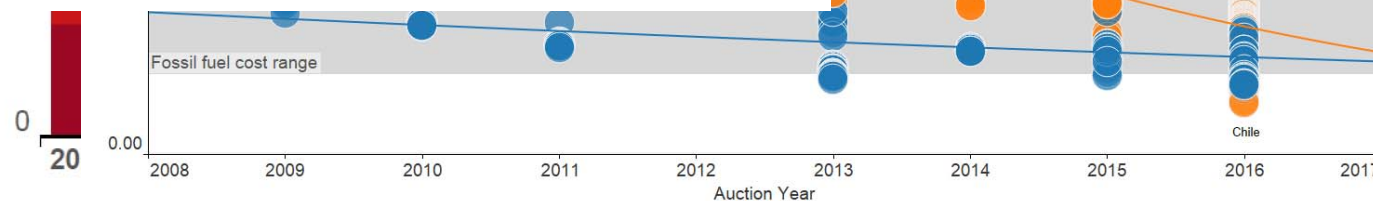
The future electricity system will incre

ing



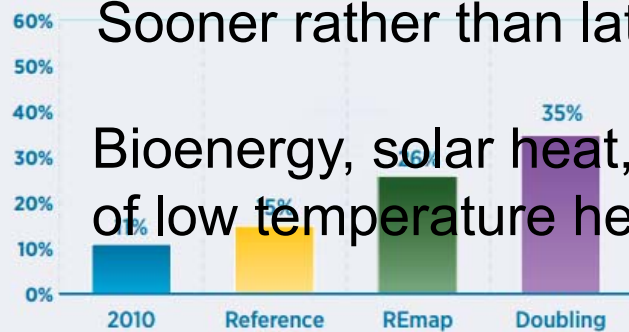
2015 Renewable Energy Capacity Growth By Technology

Market design needs more attention

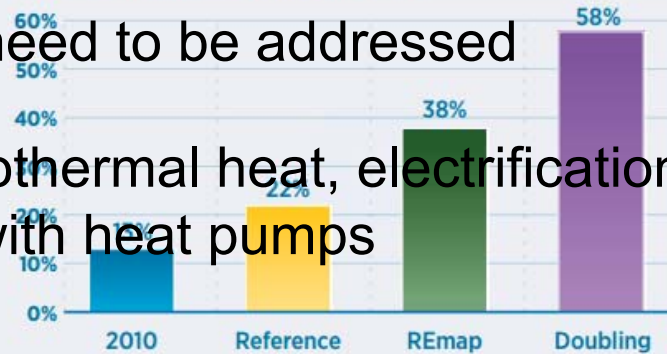


Industry, buildings and transport

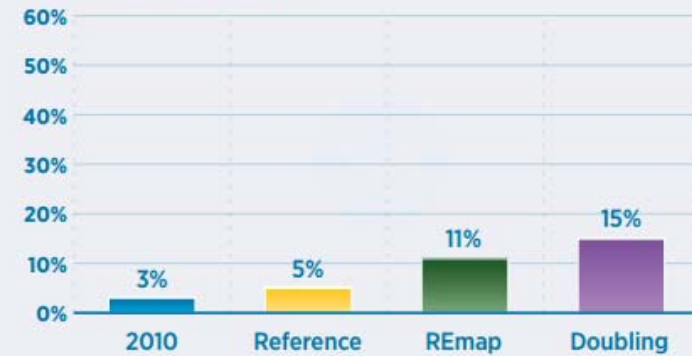
Industry renewable energy shares
(incl. renewable electricity/district heat use)



Buildings modern renewable energy shares
(incl. renewable electricity/district heat use)



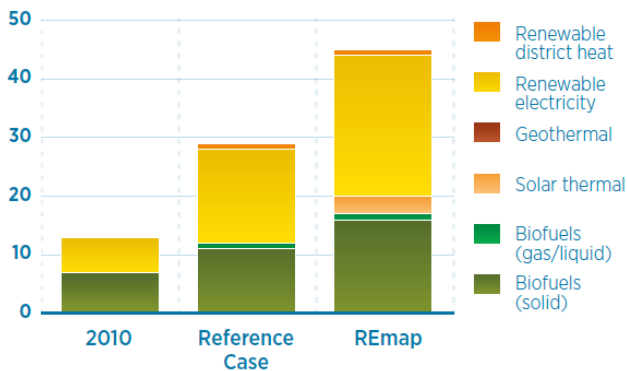
Transport renewable energy shares
(incl. renewable electricity use)



Sooner rather than later need to be addressed
Bioenergy, solar heat, geothermal heat, electrification
of low temperature heat with heat pumps

Old inventory banking stock is opportunity in cold
climates, but requires widespread retrofits

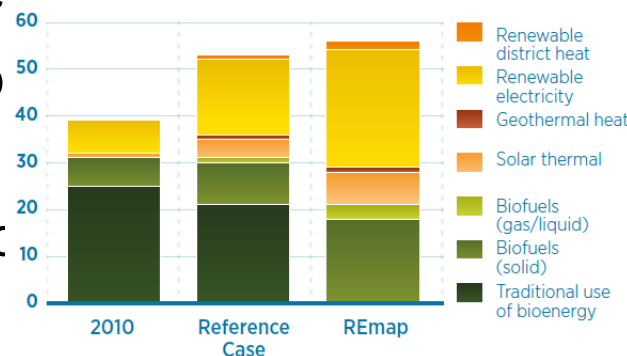
Total final renewable energy use (EJ/year)



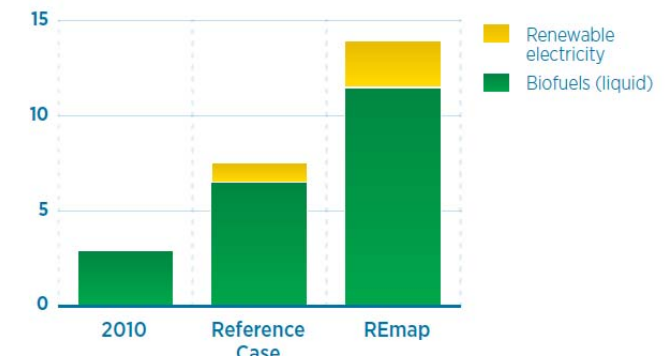
Based on IRENA estimates

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Total final renewable energy use (EJ/year)



Total final renewable energy use (EJ/year)



Based on IRENA estimates

Key action areas



Correct
for market
distortions to
create a level
playing field
and reform
power markets



Introduce
greater flexibility
into energy
systems and
accommodate
the variability of
key renewable
energy sources
and increase
sector coupling



**Develop and
deploy**
renewable
heating and
cooling solutions
for urban
development
projects and
industry



Promote
transport based on
renewable power
and biofuels



Ensure
the sustainable,
affordable and
reliable supply of
bioenergy feedstock

Success will unlock significant benefits

KEY BENEFITS OF DOUBLING RENEWABLES

