



# A Year for the Record Books

 CLEAN ENERGY CANADA



@cleanenergycan



CENTRE FOR DIALOGUE  
SIMON FRASER UNIVERSITY

# About Clean Energy Canada

Clean Energy Canada works to accelerate Canada's transition to a clean and renewable energy system. We collaborate with civil society, governments and the private sector to build awareness and support for solutions that address climate disruption and foster an energy efficient, environmentally responsible and prosperous economy.



Clean Energy Canada is an initiative of the Centre for Dialogue at Simon Fraser University.

# A Year for the Record Books



## Outline

- Introductions
- Overview of Global Trends
- Panel Discussion
- Audience Q&A

Duration: 60 minutes

# What is Clean Energy?

Clean energy policies, technologies or services accelerate the shift to an economy based on renewable energy. The clean energy transition involves:

**Increasing the supply of renewable energy.**

**Reducing consumer and industrial energy demand.**

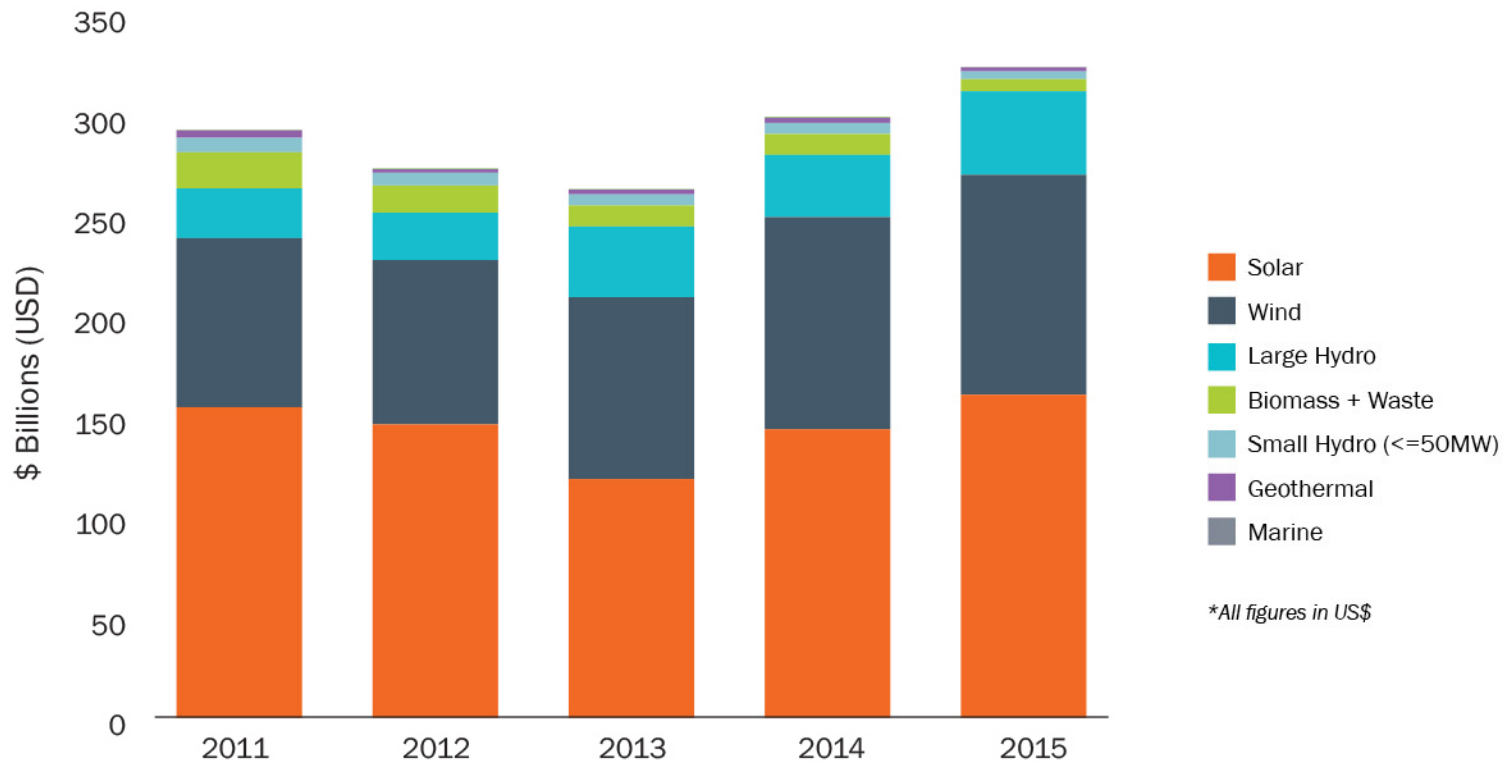
**Improving the infrastructure and systems that transmit, store and use energy.**

**Enabling market penetration of clean energy solutions.**

# While Fossils Crash, Clean Energy Soars

Nearly a third of a trillion dollars—US\$325 billion—was invested in clean energy in 2015.

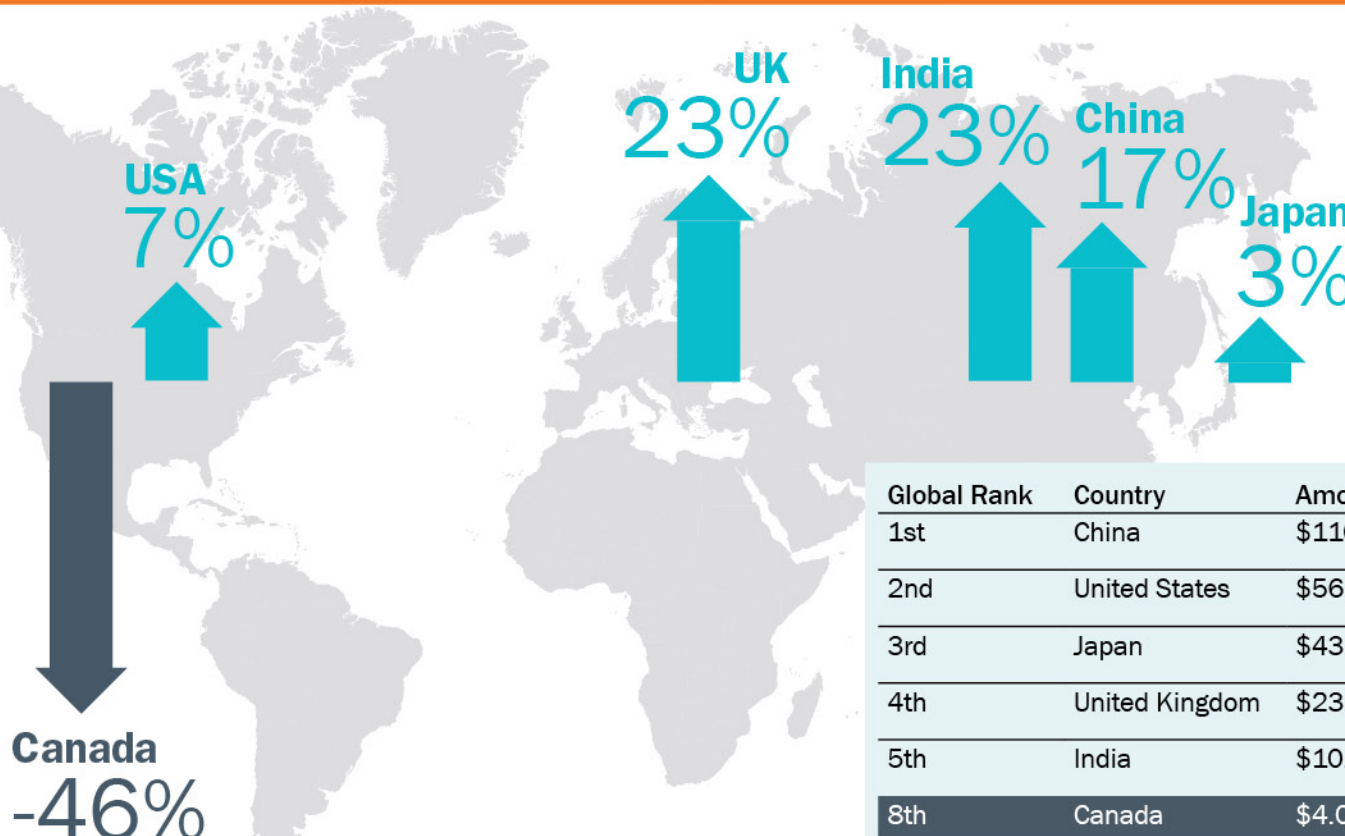
## TOTAL ANNUAL CLEAN ENERGY INVESTMENT



# Follow the Money

China continues to lead in clean energy investment, while Canadian investment dropped dramatically in 2015.

## CHANGE IN CLEAN ENERGY INVESTMENT (2014-2015)

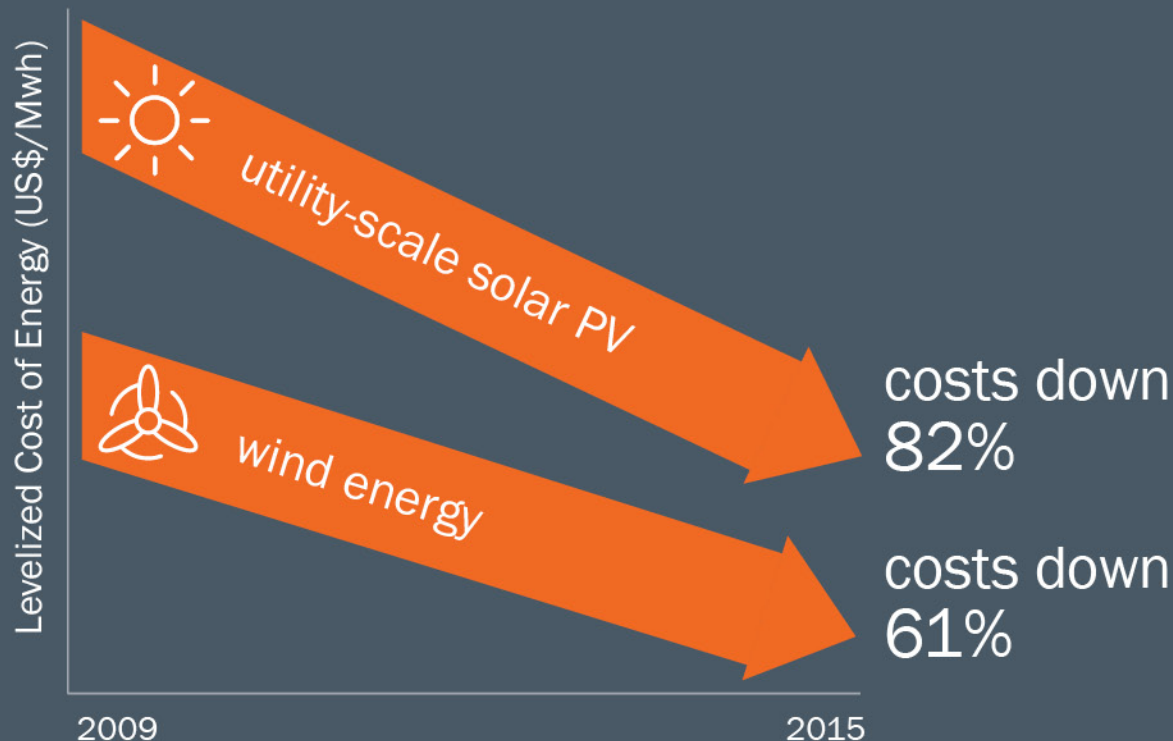


Global Rank	Country	Amount Invested* in 2015
1st	China	\$110.5bn
2nd	United States	\$56.0bn
3rd	Japan	\$43.6bn
4th	United Kingdom	\$23.4bn
5th	India	\$10.9bn
8th	Canada	\$4.0bn

\*All figures in US\$

# Clean Technology Delivers More for Less

## DROP IN RENEWABLE ENERGY TECHNOLOGY COSTS

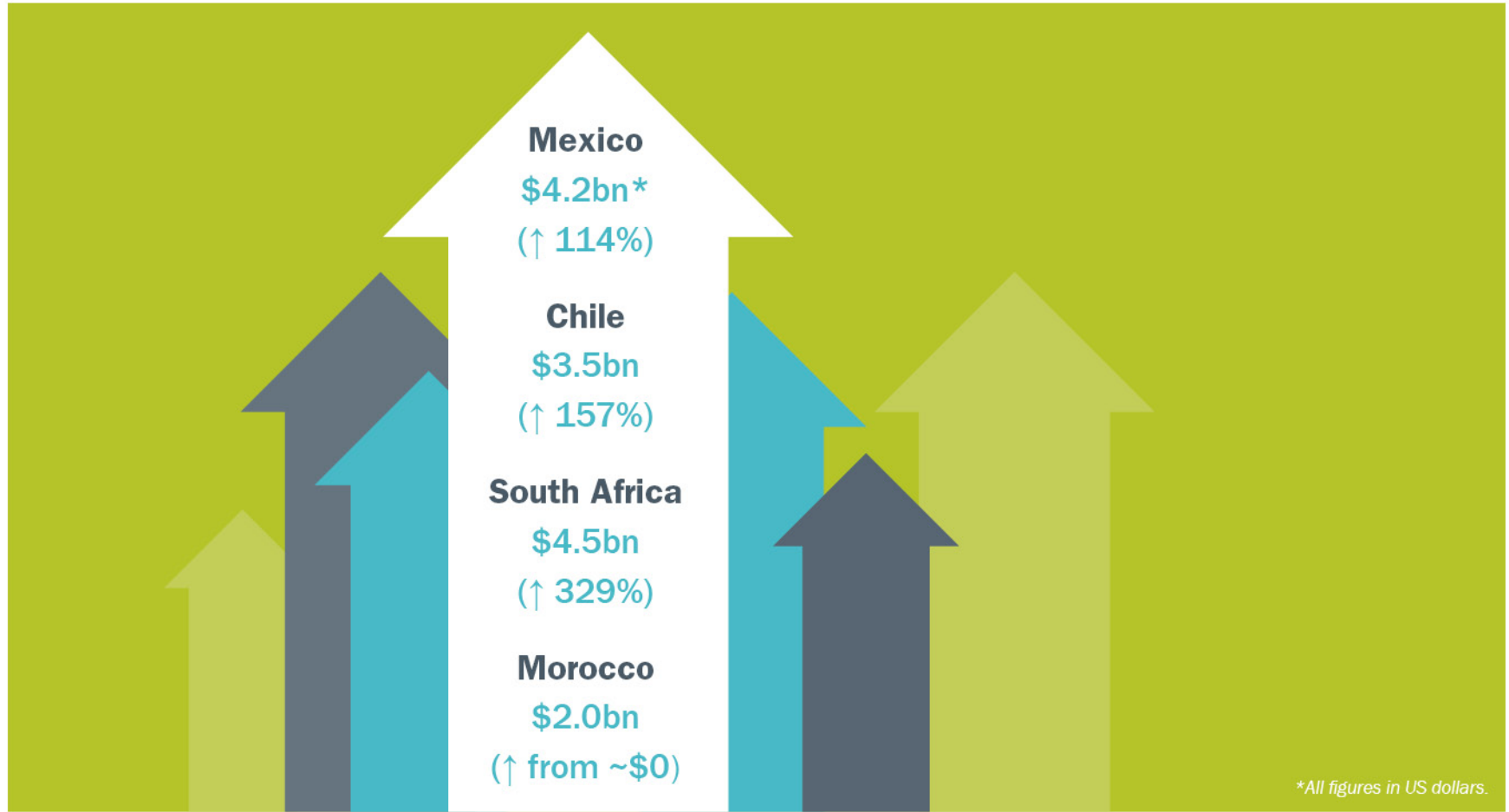


SOURCE: Lazard's Levelized Cost of Energy Analysis - Version 9.0 (2015)

In the U.S. over the last six years, wind and solar photovoltaic (PV) systems have become increasingly cost-competitive, without subsidies, thanks to improved efficiency and a material drop in the costs of components like panels, inverters and turbines.

# Markets to Watch

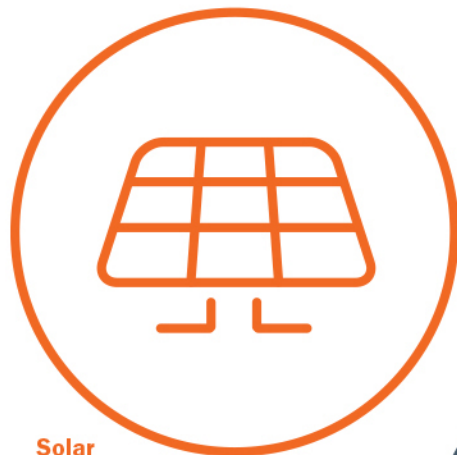
For the first time, developing countries invested more in clean energy than developed countries in 2015.





# Solar Leads On

## 2015 GLOBAL INVESTMENT (USD) IN RENEWABLE ENERGY BY TECHNOLOGY



Solar  
**\$161.0**  
Billion

Large Hydro  
**\$41.6**  
Billion



Geothermal  
**\$2.0**  
Billion



Wind  
**\$109.6**  
Billion



Biomass + Waste  
**\$6.0**  
Billion



Small Hydro  
( $\leq 50\text{MW}$ )  
**\$3.9**  
Billion

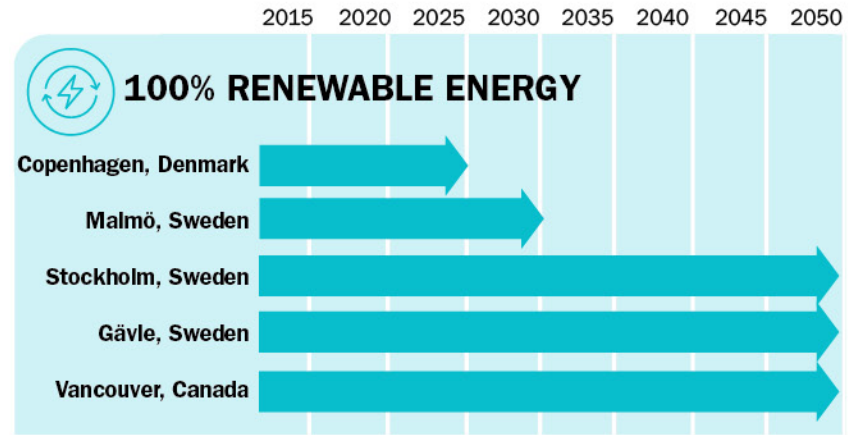
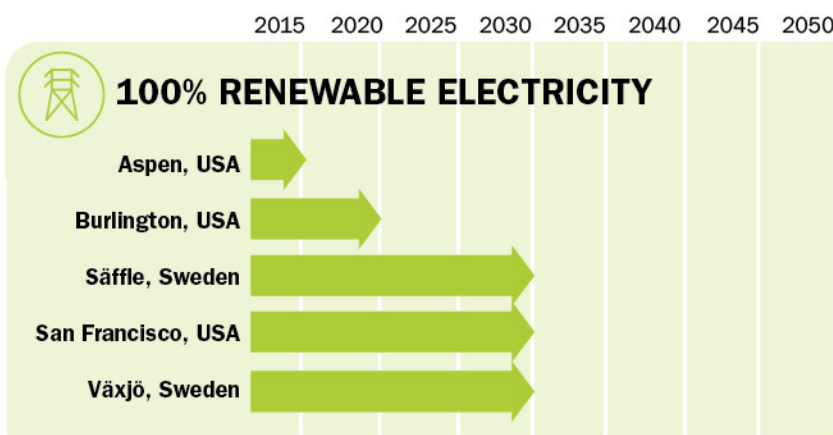


Marine  
**\$0.2**  
Billion

# Green is the New Black— and it's Good Business

96 cities, states, countries around the globe have set 100% renewable energy targets, along with big name businesses.

## CITIES WITH 100% RENEWABLE POWER TARGETS



## BIG-NAME BUSINESSES WITH 100% RENEWABLE POWER TARGETS



# Our Panelists



Pictured above (left to right):

- Amy Grace, Bloomberg New Energy Finance (@AmyGraceWind)
- Hando Kang, SkyPower Global (@HandoKang)
- Dan Woynillowicz, Clean Energy Canada (@danwoy)
- Julia Kilpatrick, Clean Energy Canada (@juliakilpat)

Join the conversation by using [#CEQuarterly](#)



## TRACK THE ENERGY REVOLUTION

Each Monday we publish the Clean Energy Review, a free weekly digest of must-read climate and clean energy stories from across Canada and around the world.

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