## A Vision for Efficiency in Canada







# **Efficiency** Canada



#### **Definition:**

**vi-sion** /'viZHən/ *noun* 

the ability to think about or plan the future with imagination or wisdom.





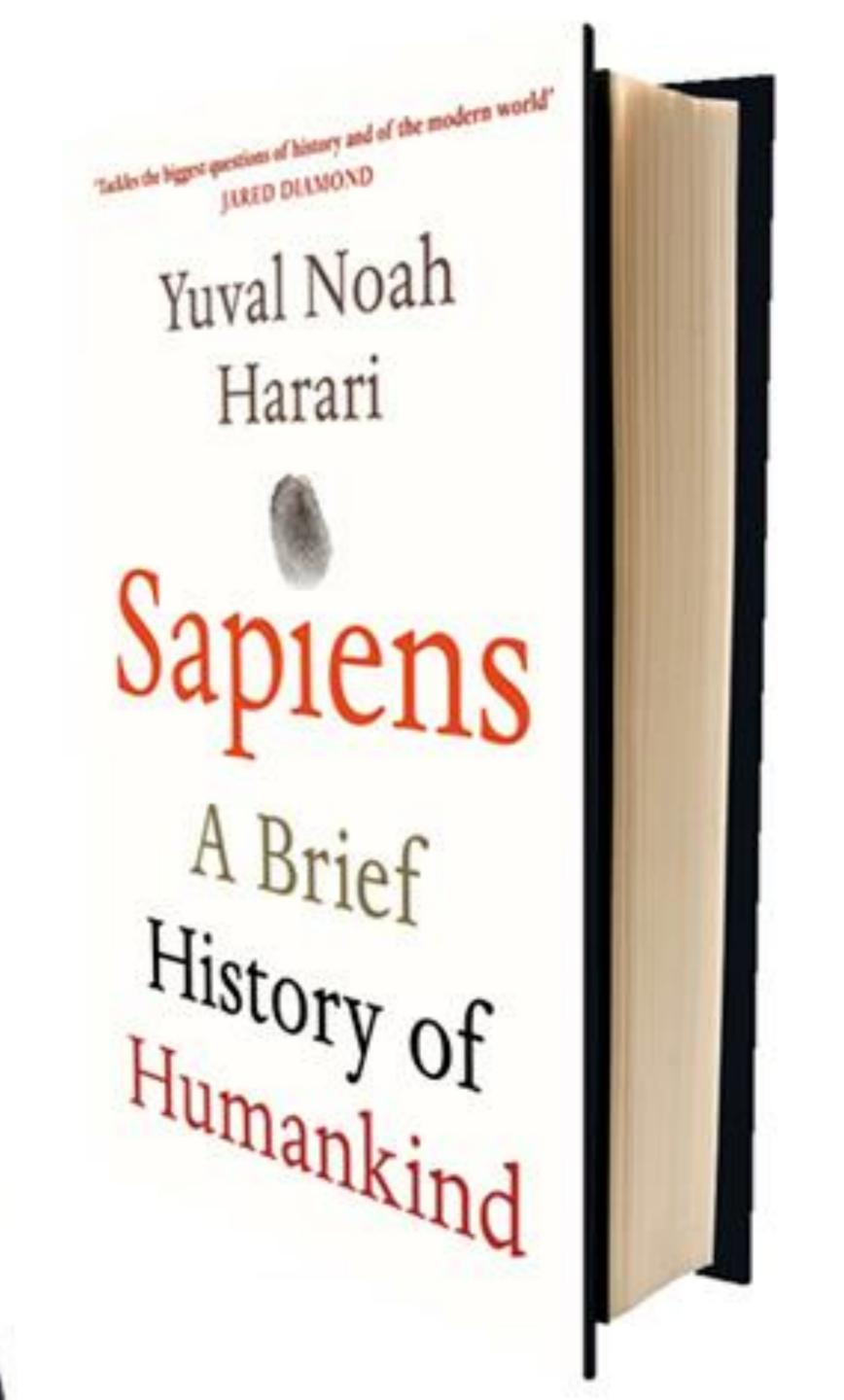
## We are the only animals that tell stories to understand the world we live in.

### Salman Rushdie









# Where did our industry come from?



Canadian Energy Efficiency Outlook: A National Effort To Tackling Climate Change







# Where are we today?

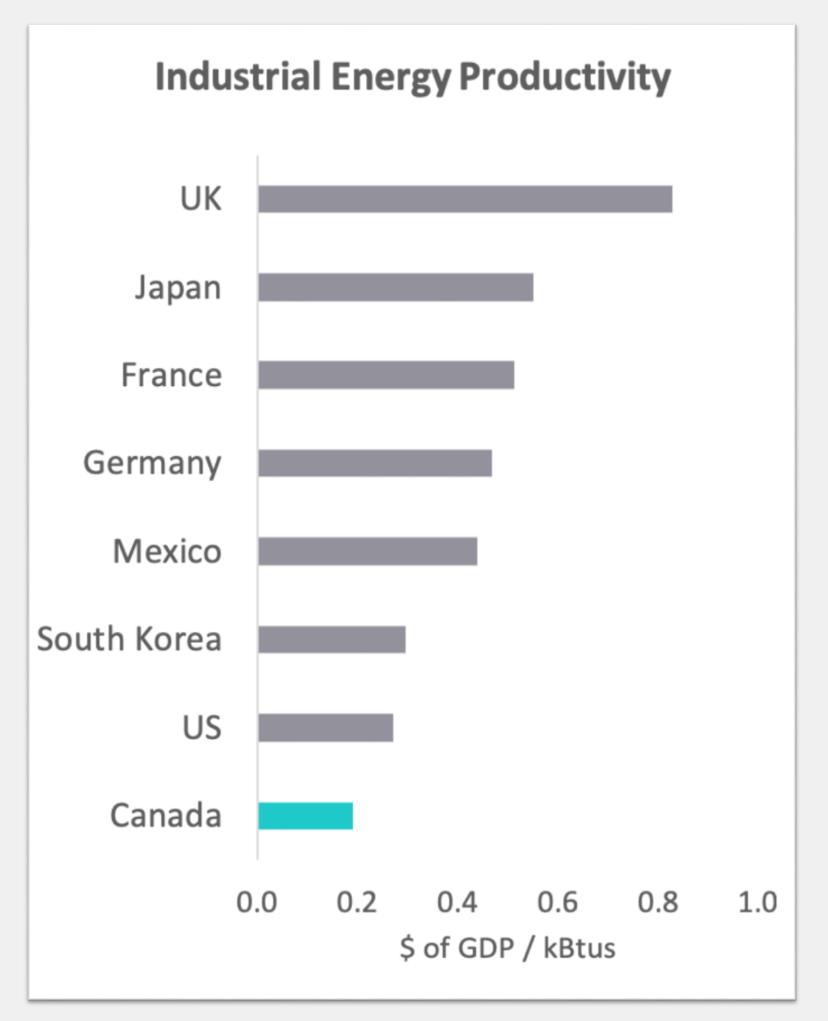


#### of Canada's energy needs by 2050



#### **Energy efficiency is** Canada's most plentiful energy resource ...

- The International Energy Agency estimates that energy efficiency can account for more than 40% of Canada's energy needs by 2050\*
- Energy efficiency is the fastest growing part of the global energy sector\*\*



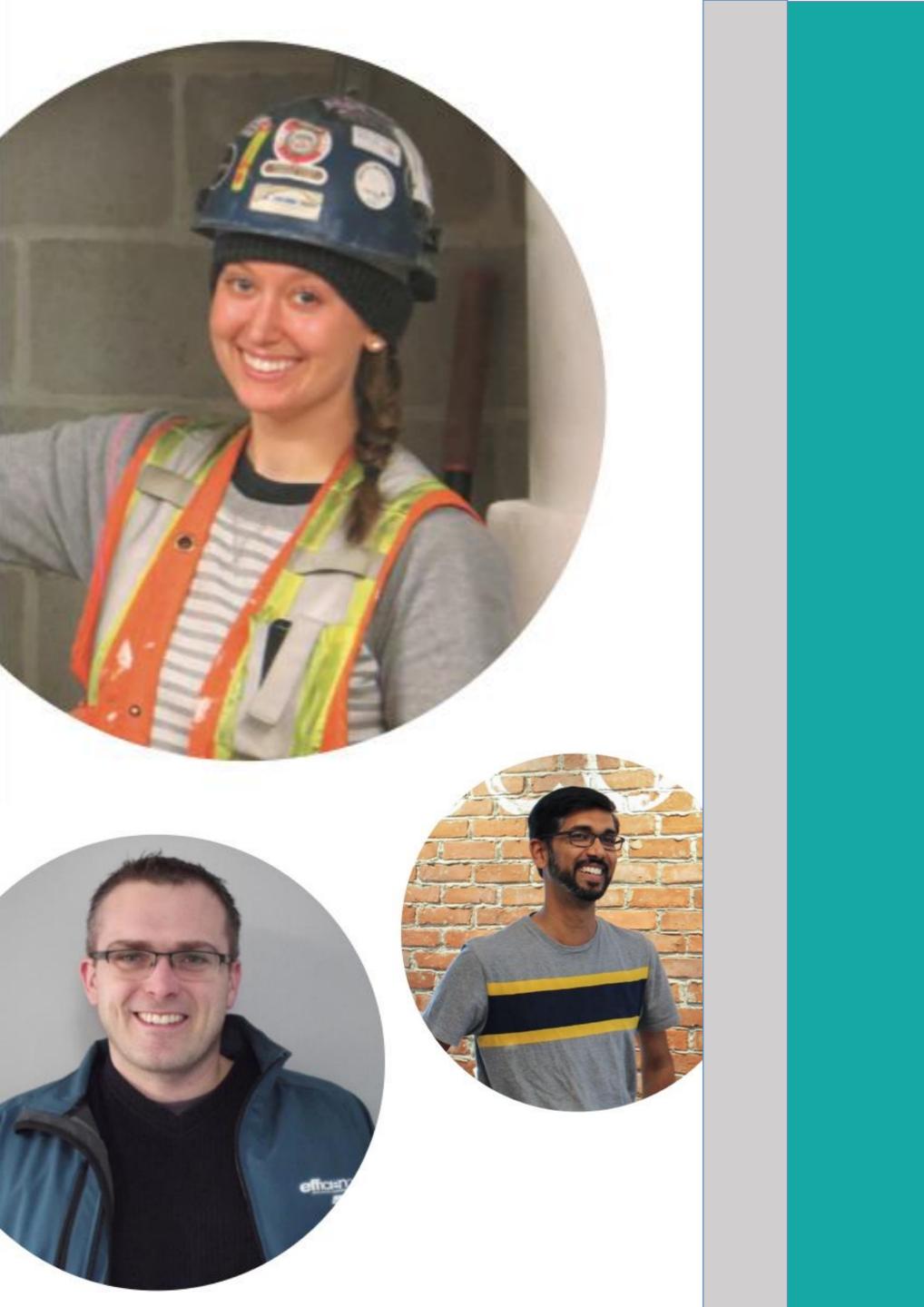
\*ACEEE - The 2018 International Energy Efficiency Scorecard, p. 53.



#### ... making Canada more productive and competitive ...

- Investing in energy efficiency can bring our • industrial energy productivity in line with US, Europe and Japan\*\*
- This will allow all of Canada's major economic sectors – manufacturing, forestry, mining, oil and gas, transportation – to be more competitive.





# ... creating jobs from coast to coast.

- In every community across Canada, the energy efficient economy is emerging.
- The people doing this work help small businesses and households reduce costs, freeing them up to spend on important things.

### Energy efficiency will create economic growth and jobs across Canada. Here's an annual snapshot.

\$3.8 billion

18,300 jobs

\$2.3 billion

5,900 jobs

\$0.8 billion

3,400 jobs

\$0.9 billion

4,200 jobs

Efficiency Canada

\$3.9 billion

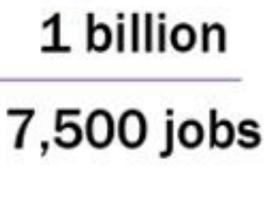
25,200 jobs

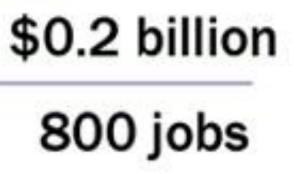
\$12.5 billion

52,900 jobs

L'CLEAN ENERGY CANADA











# Every **\$1 spent** on energy efficiency programs generates **\$7 of GDP.**



#### **É CLEAN ENERGY CANADA**



3.5



#### of our Paris commitments



#### **Energy Efficiency supports Canada's Clean Growth** Agenda.

- Energy efficiency can contribute to 39% of the reductions needed to reach our Paris climate commitments\*
- It is also the first pathway of the **Generation Energy Council** and the **Expert Panel on Sustainable Finance**

\*Dunsky Energy Consulting, The Economic Impact of Improved Energy Efficiency in Canada, April 2018.





### On average, 118,000 annual jobs will be created from economic activity enabled by energy efficiency measures.



#### CLEAN ENERGY CA



## 13 Milon

Energy-efficient products installed



# **\$3** returned tor every **\$1** invested

More than \$330 More than \$330

In energy savings



Participation by Alberta communities

#### 3.4 Million Tonnes

of greenhouse gas emissions avoided

**12 Million** cubic metres of water savings **2,300** Jobs being created



\$475 Million In economic growth





## efficiencyBC























*"Energy efficiency is the* ultimate win – win. It leaves consumers with more money in their pockets, creates jobs in our economy and boosts GDP across the country, all while reducing greenhouse gas emissions."

> Bill Morneau Minister of Finance





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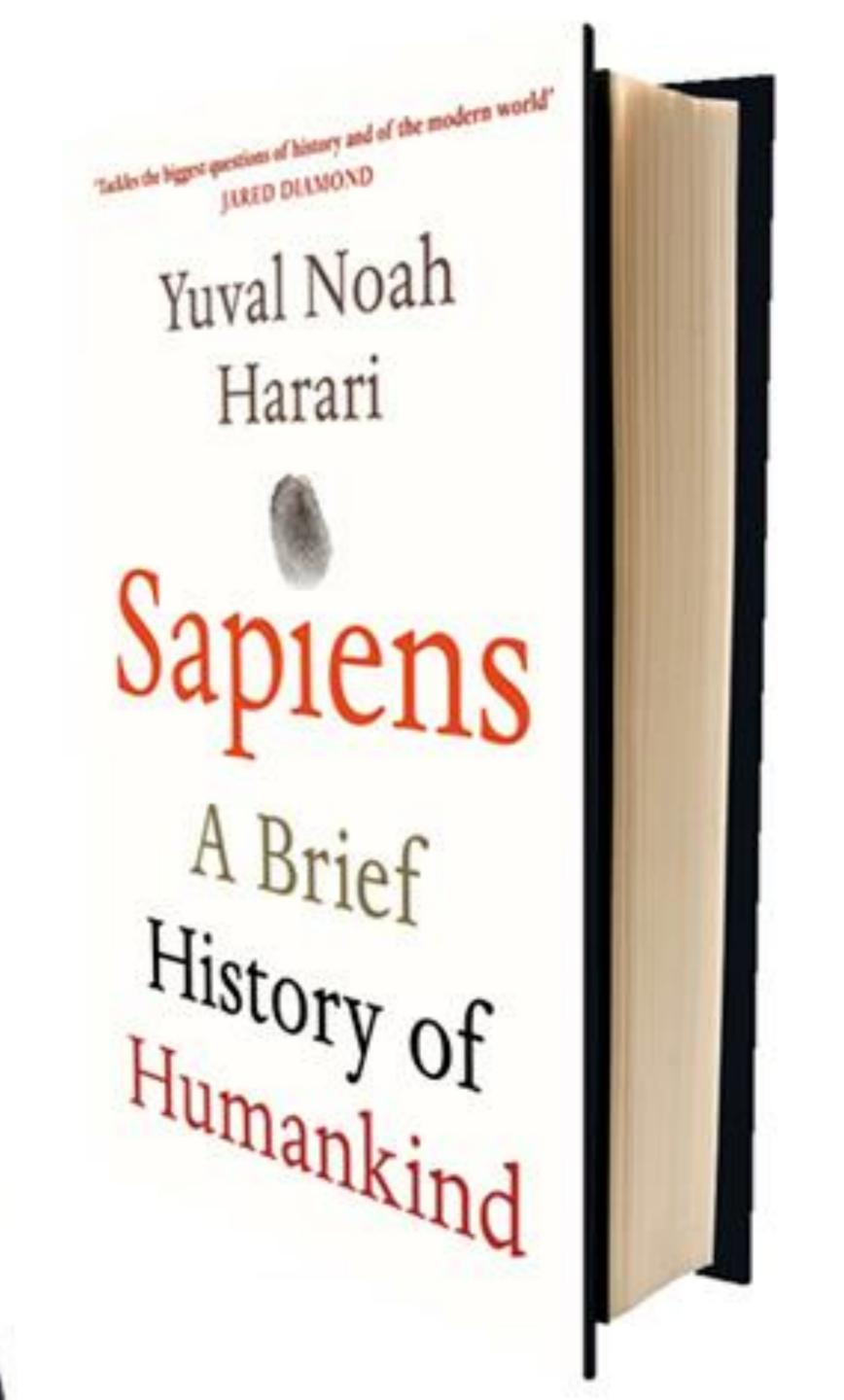






# Where are we going?







#### **Definition:**

**vi-sion** /'viZHən/ *noun* 

the ability to think about or plan the future with imagination or wisdom.





#### 1. We moved beyond incremental change.

Incrementalism is innovation's worst enemy.

Nicholas Negroponte (MIT Nedia Lab)



## 1. We moved beyond incremental change. 2. We moved to a more comprehensive value chain of energy efficiency.





- Energy savings
- Capacity market
- Reduced transmission and distribution costs
- Emissions reduction
- Economic development
- Poverty alleviation



## 1. We moved beyond incremental change. 2. We moved to a more comprehensive value chain of energy efficiency. 3. We unlocked private sector capital.

#### THE NEW CLIMATE ECONOMY The Global Commission on the Economy and Climate

## \$26 trillion opportunity







Building a Competitive Economy

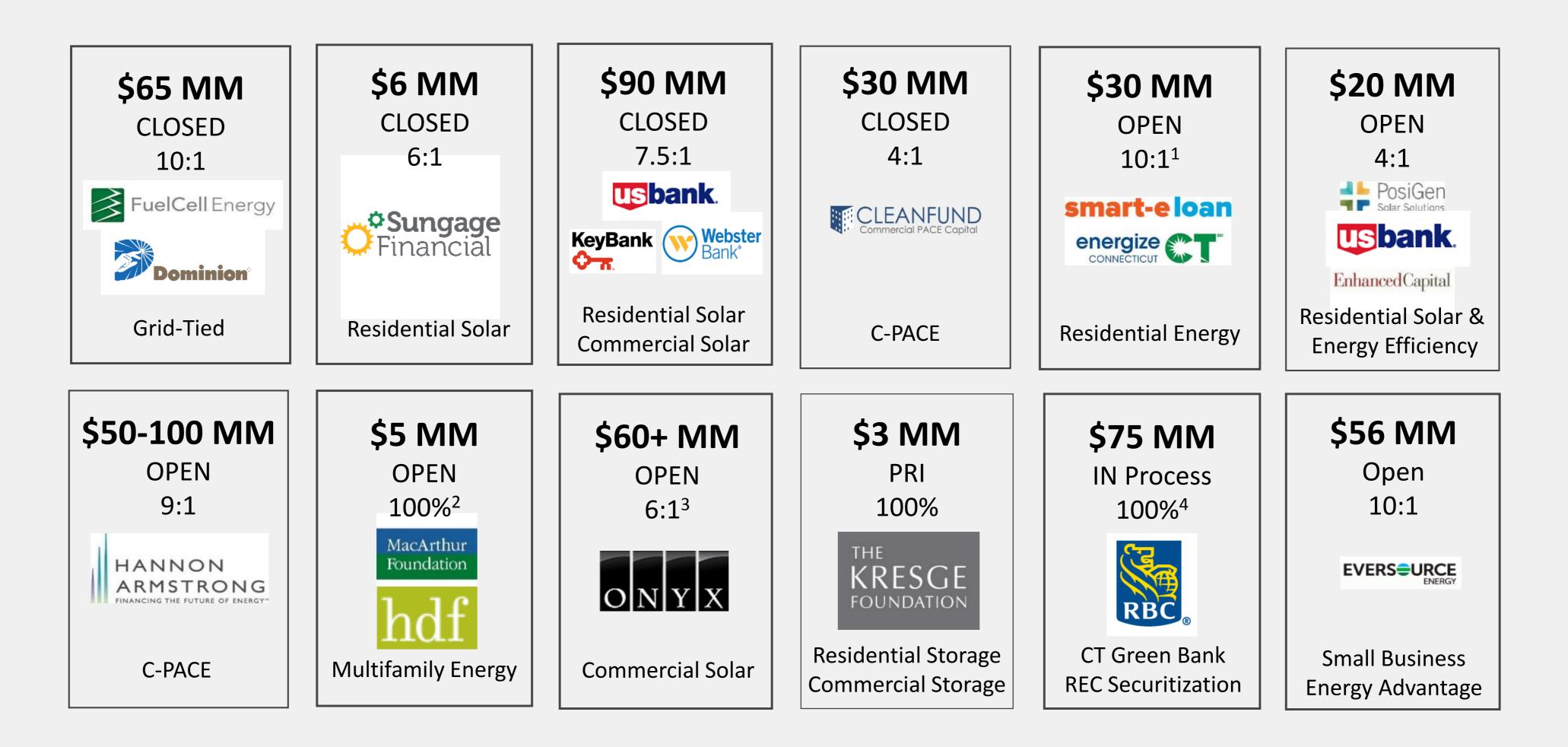
Through Energy Efficiency





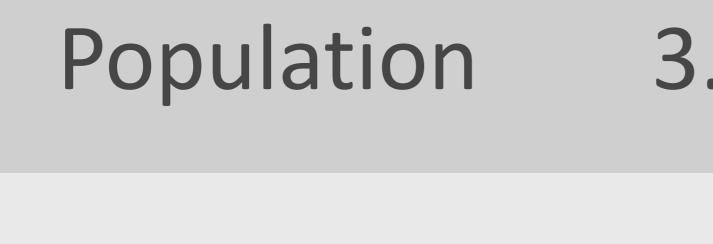
#### **INTERIM REPORT OF THE EXPERT PANEL ON SUSTAINABLE FINANCE**

#### **Connecticut Green Bank OVER \$500 million in private capital raised (5 Years)**













#### Connecticut



3.6 MM 4.3 MM

\$284B CAD

\$331B CAD

## 1. We moved beyond incremental change. 2. We moved to a more comprehensive value chain of energy efficiency. 3. We unlocked private sector capital. 4. We are no longer the messengers.



3. We unlocked private sector capital. 4. We are no longer the messengers. 5. We mobilized.

### 1. We moved beyond incremental change.

- 2. We moved to a more comprehensive value chain of energy efficiency.



"Over 70% of global energy investments will be governmentdriven and as such the message is clear – the world's energy destiny lies with decisions and policies made by governments."

International Energy Agency







@drvox

Climate change is not an "environmental problem." It's far deeper than that. Solutions require basic changes in technology, law, and infrastructure, none of which is affected by individual behavior. I can't build a subway or pass a carbon tax or string transmission lines.

5:29 PM - 21 Feb 2019





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### Most workers in this sector don't selfidentify as being part of an energy efficiency sector.











# #OurHumanEnergy

Demonstrate the human impact of energy efficiency work, enabling all of us to take pride in what we do, see ourselves as part of something bigger, and recognize shared opportunities and challenges.



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### 1. We moved beyond incremental change.

- 2. We moved to a more comprehensive value chain of energy efficiency.



## Are you in?