

BC Hydro's Alternative & Emerging Energy Strategy

Alex Tu
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BC hydro 
FOR GENERATIONS

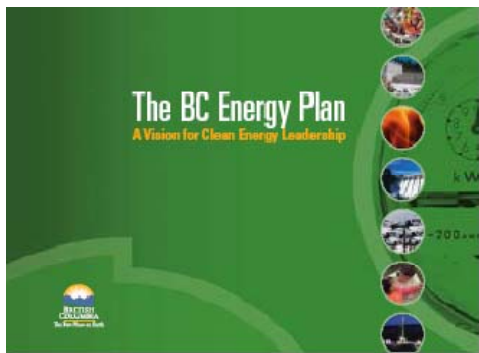


OUTLINE

- Drivers
- BC Hydro's Role in Technology Commercialization
- Alternative & Emerging Energy Strategy Goal
- Strategy Objectives
- Actions to Accelerate Ocean Energy Commercialization



Drivers behind the A&EE Strategy



- Clean Energy Targets
- Self Sufficiency
- ICE Fund

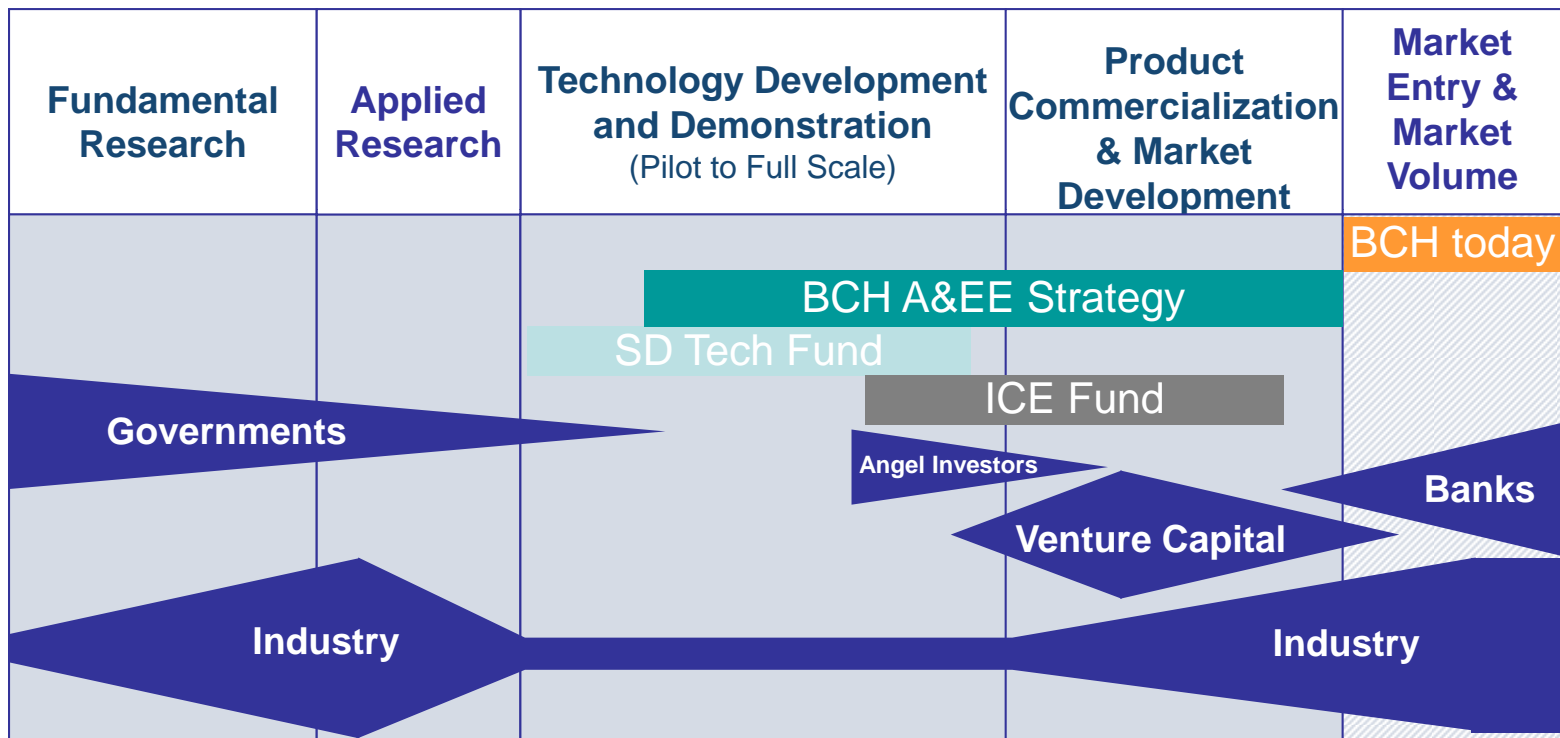


**Alternative Energy
Technology**

- Diversified Supply
- GHG Targets
- Long Term



BC Hydro Role in Innovation



A&EE Strategy Goal

BC Hydro will have **access** to **1,000 GWh** of new, **emerging**, clean, **alternative energy** by **2016**

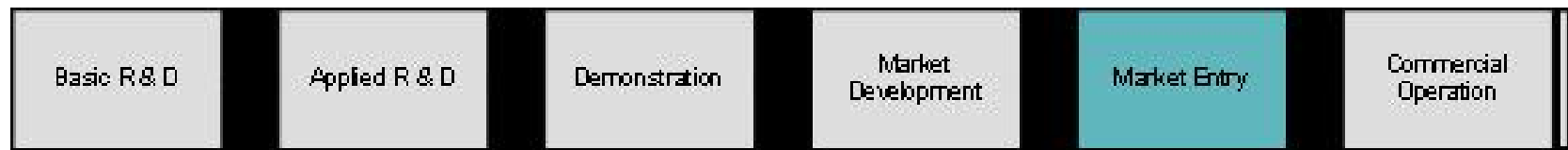
“access” – reliable energy available to BC Hydro through new or existing procurement mechanisms. Note that this is not a commitment to purchase

“1,000 GWh” – an aspiration, and measureable target, reflecting a small fraction of the total alternative energy resource



A&EE Strategy Objectives

1. **Connect demonstrations to the grid to evaluate and enhance technology performance**
2. **Support emerging technologies through BC Hydro processes and infrastructure decisions**
3. **Foster the skills and support advancement of regulations needed for technology deployment**
4. **Facilitate the launch of market ready technologies**



BC Hydro will have access to 1,000 GWh of new, emerging, clean, alternative energy by 2016

Connect demonstrations to the grid to evaluate and enhance technology performance

- Build collaborative partnerships with public sector funding agencies
- Provide seed money for demonstration feasibility studies
- Utilize existing and develop new demonstration infrastructure to evaluate emerging technologies potential in a grid connected environment
- Assess and develop appropriate procurement mechanisms (e.g., an emerging energy standing offer program) for promising emerging energy technologies

Support emerging technologies through BC Hydro processes and infrastructure decisions

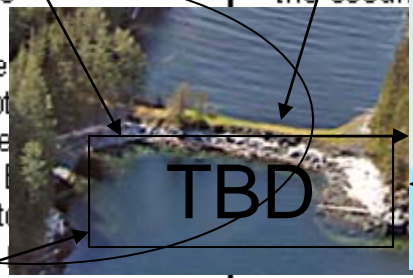
- Develop knowledge base of emerging technology trends and timelines
- Streamline interconnection processes for emerging technologies
- Understand alternative energy resource potential to support other plans (e.g., Powerex, etc.)
- Explore the energy storage technologies to integrate variable output renewables

Foster the skills and support advancement of regulations needed for technology deployment

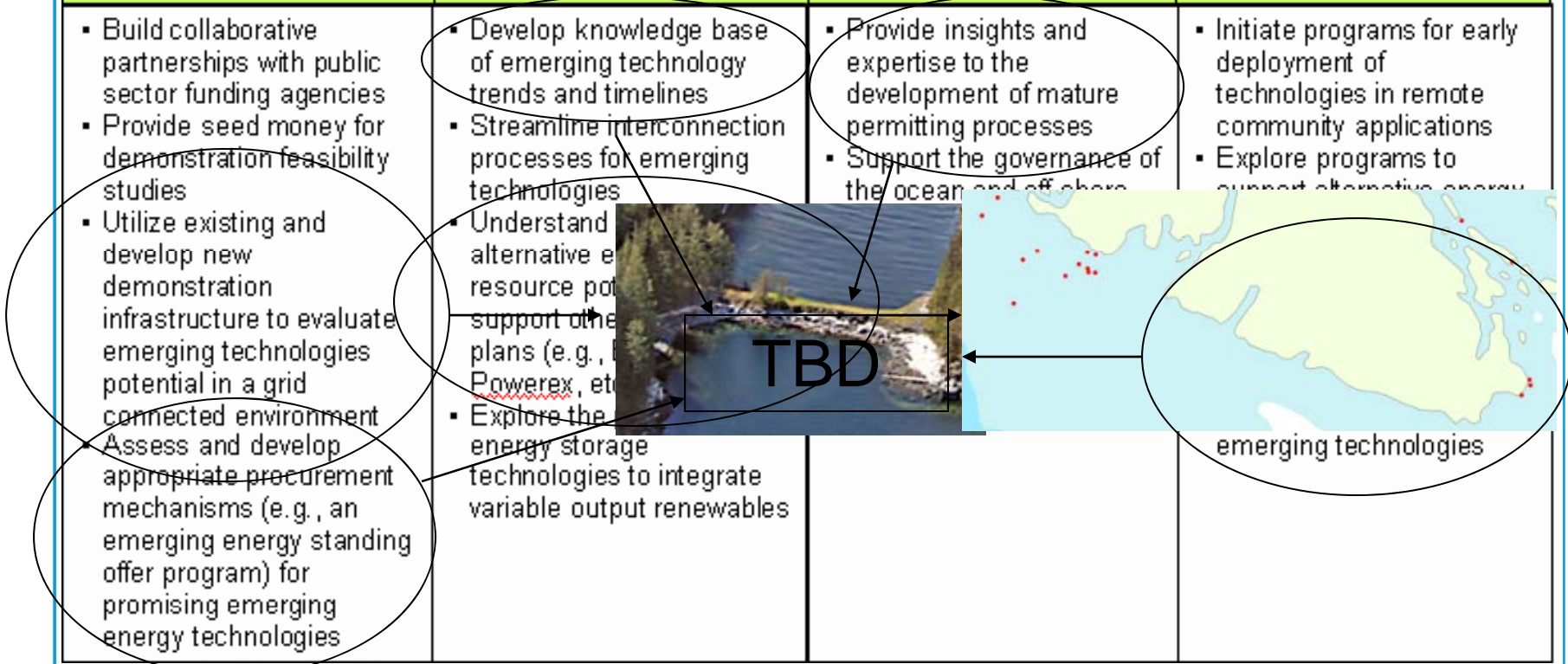
- Provide insights and expertise to the development of mature permitting processes
- Support the governance of the ocean and off shore

Facilitate the launch of market-ready technologies

- Initiate programs for early deployment of technologies in remote community applications
- Explore programs to support alternative energy



emerging technologies



Thank you

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A&EE Strategy Goal

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“access” – reliable energy available to BC Hydro through new or existing procurement mechanisms. Note that this is not a commitment to purchase

“1,000 GWh” – an aspiration, and measureable target, reflecting a small fraction of the total alternative energy resource

“emerging” – currently pre-commercial technology

“alternative energy” – energy sources meet the provincial clean energy definition and are sufficiently abundant in BC to contribute to BC’s clean energy mix

“by 2016” – connected to policy self-sufficiency targets

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