



REDUCING GHG EMISSIONS. FUNDING A WAY FORWARD.

Climate Change and Emissions Management Corporation
Alberta CANADA

CCEMC- Platform

Industry Policy obligations

- Mandatory requirements to hit performance target
- Flexibility options
 - Continuous Improvement
 - Credits or Offsets
 - Pay into fund @ \$15/tonne (\$30/tonne by 2017)
- Annual compliance

CCEMC Mandate

- All funds go to Gov of AB, then distributed to CCEMC
- CCEMC = Reduce GHG emissions and help Alberta adapt
- Focus is technology discovery development and deployment

Delegated Administrative Organization

- Arms length - Board led
- Business and technical acumen
- Virtual – suite of service providers
- Governance best practices



Operational Strategy

- Align with Alberta Climate Change Strategy
- Pursue technology (transformative) development
- Seek technologies from around the world
- Run competitions to find/select the best projects
- Invest in all stages of technology development
- Manage a diverse portfolio
- Partner to assist in achieving outcomes



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Funding Process

\$425.5M received to date, new funds received annually

Competitive process

1. Request for proposal – 2 stages
 - a. Expression of interest
 - b. Full project proposal
2. Due diligence – technical, financial, GHG reduction
3. Decision – portfolio considerations
4. Contracting and performance management
5. Commercialization – Innovation ecosystem



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Our Performance

Operating for 5 years – >100 projects

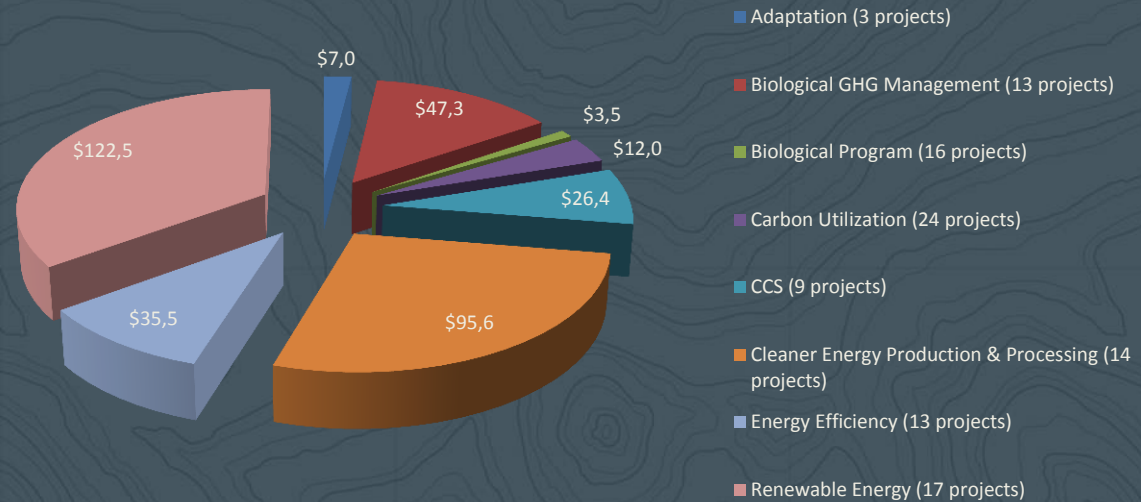
- Committed \$349.8M
- ~ \$2.2 billion in total project value (leverage ~ 5.3:1)
- Emissions reduction estimated at 11.8 MT/2020
 - Market potential 9.3 MT/2020
- 24 Grand Challenge projects (1 MT)
- Adapting to climate change – \$7M, 3 projects
- Biological program – \$8.4M, 16 projects (1MT)
- Active RFP's - Grand Challenge



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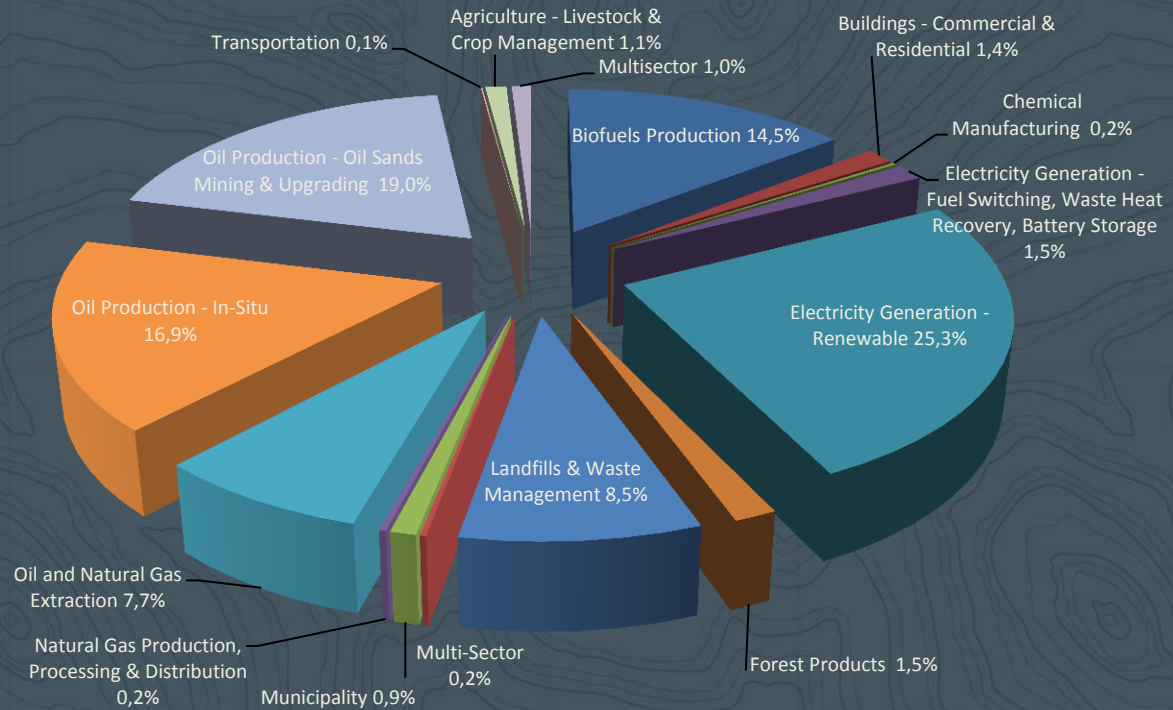
Funding by SIA

CCEMC Investment by Strategic Area (All Projects) (\$millions)



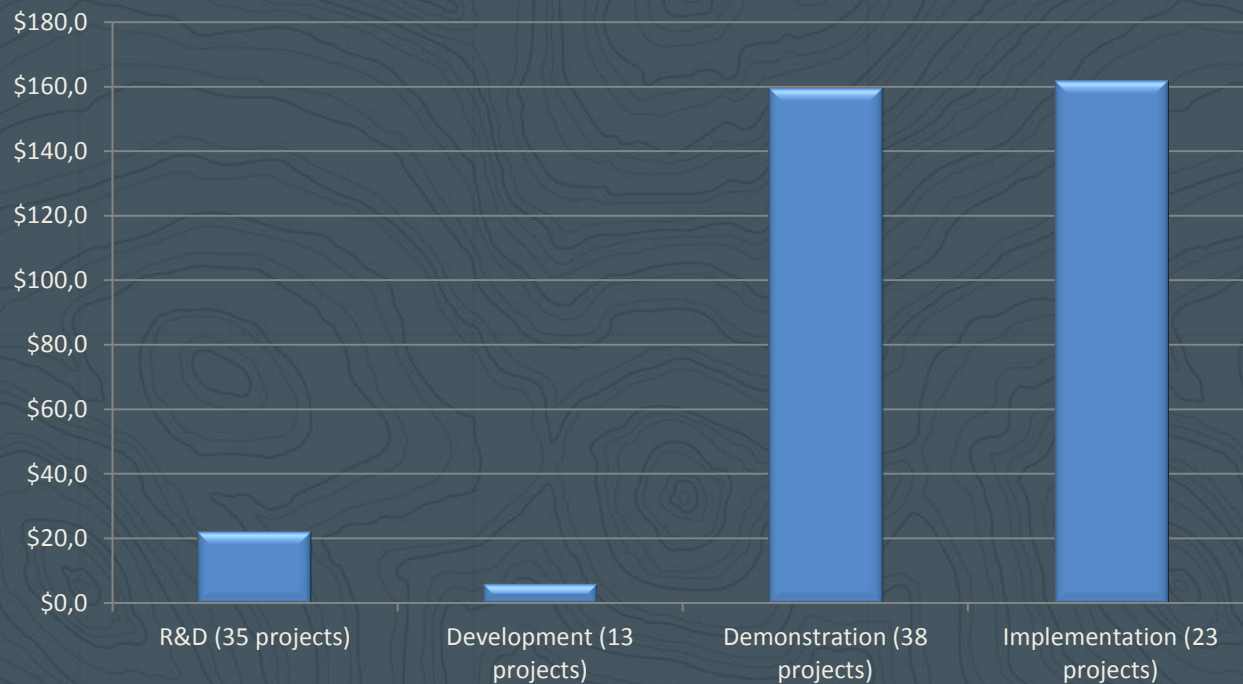
Investment by Sector

CCEMC Funding by Industry Sector (Rounds 1 - 10)



Innovation Step (\$M)

CCEMC Investment by Innovation Step (All Projects) (\$millions)



Additional Value

New Conference Board of Canada report*

- CCEMC portfolio from 2011-14
- Total economic impact - \$2.4 B
- 13,600 person years of employment

Impact in Alberta

- GDP impact approx. \$2B
- 11,000 person years employment



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*<http://www.conferenceboard.ca/e-library/abstract.aspx?did=6861>

Closing

CCEMC Grand Challenge: Innovative Carbon Uses
ccemcgrandchallenge.com

Learn more: CCEMC.CA

- Projects we support
- Funding opportunities



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