

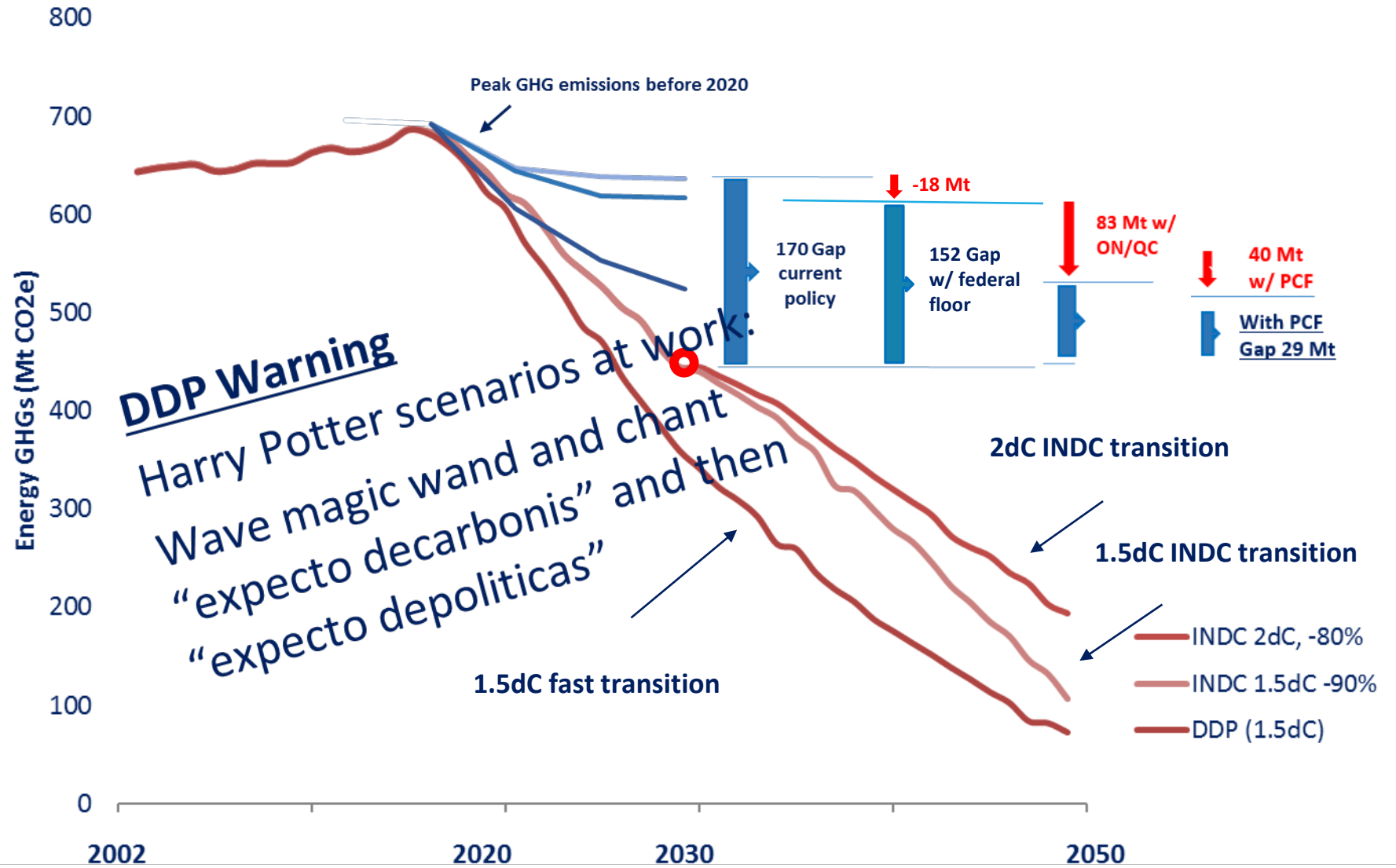
Electricity and Canadian Decarbonization Pathways



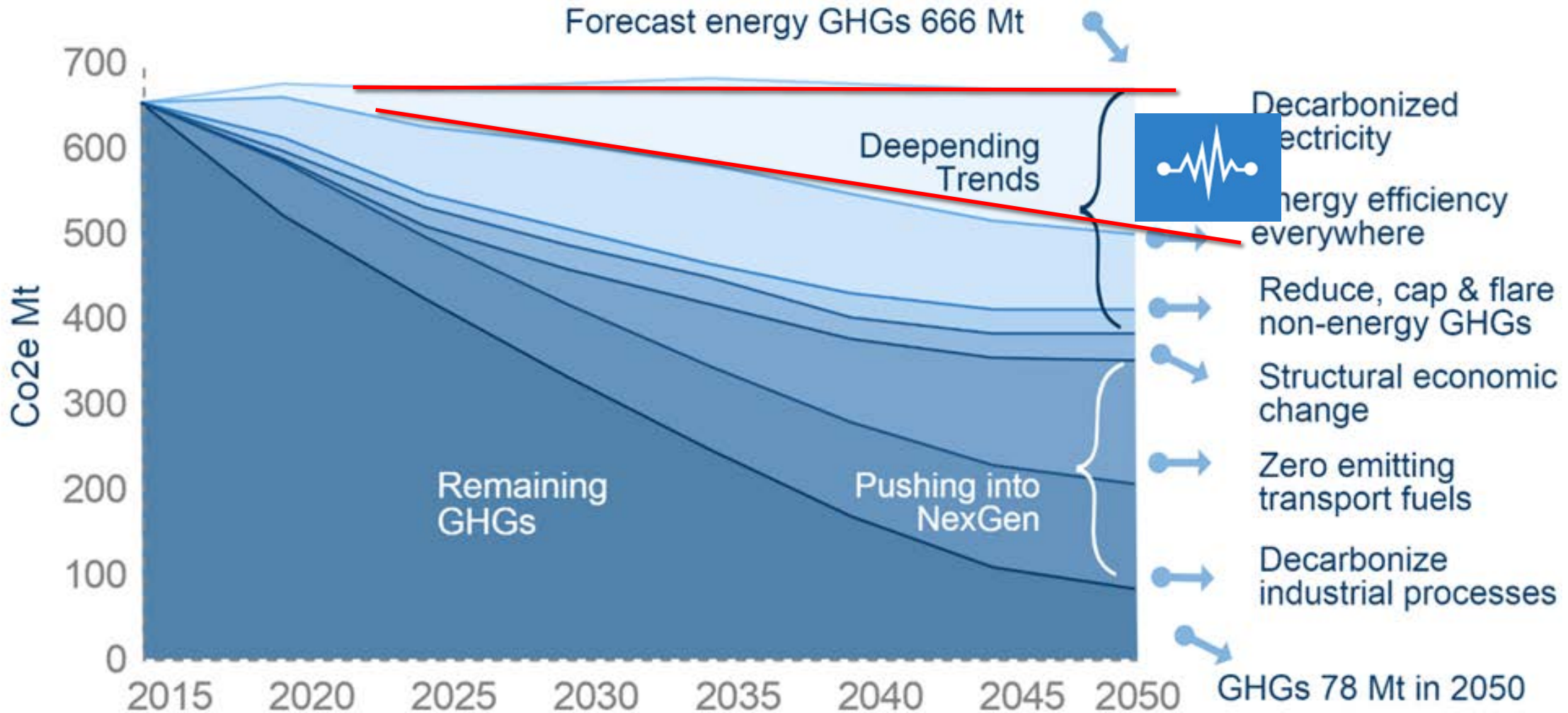
Canadian Decarbonization Pathways
Economic and emission opportunities
and outcomes

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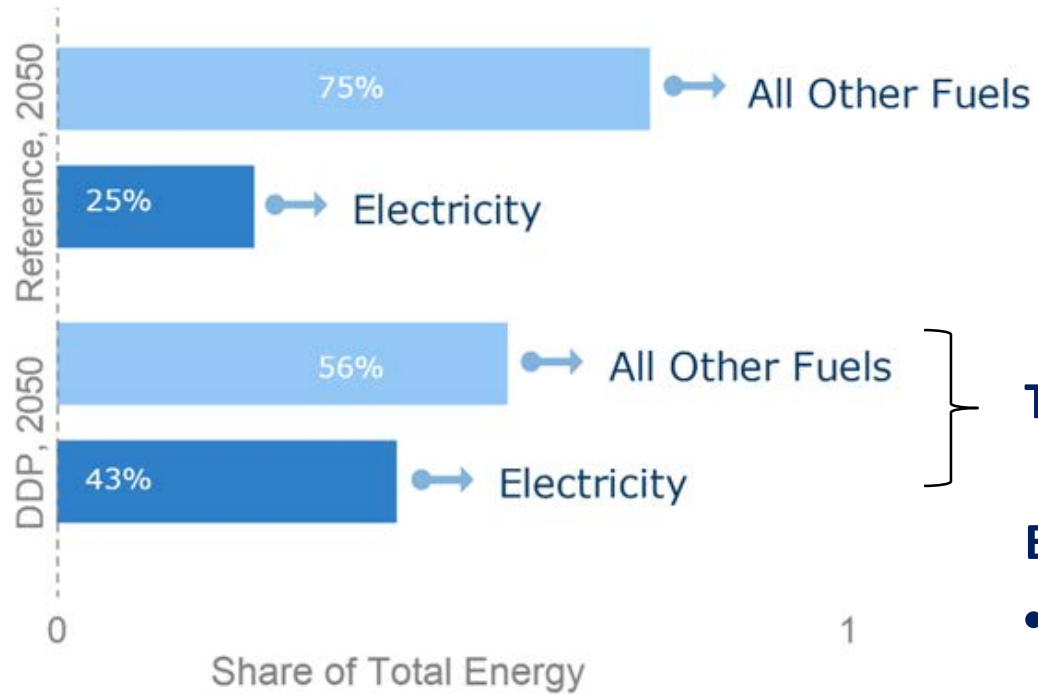
Taking Stock Canada's 2030 NDC and Deep Decarbonization



Decarbonized Electrification a Resilient Pathway, Scalable to GHG Ambition



Deepen Trends | Decarbonized Electrification



Total energy from 25% to 42%

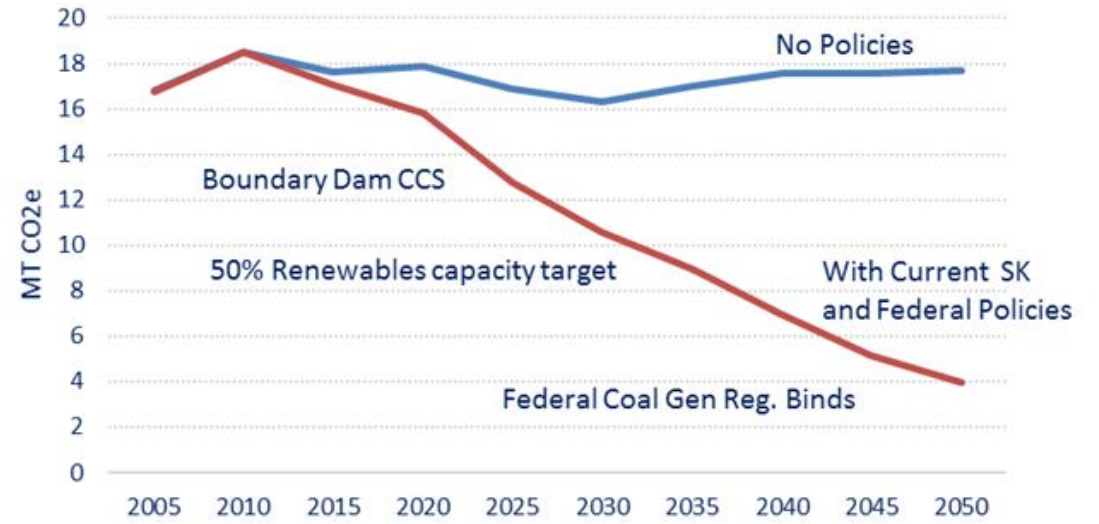
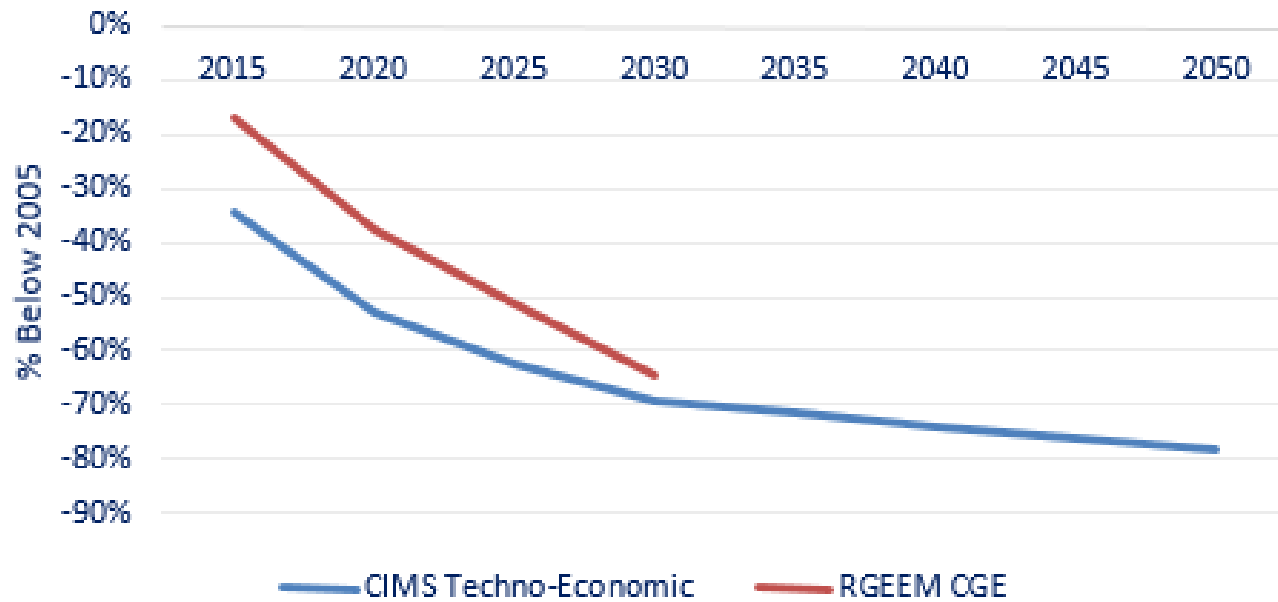
Electricity sector investment \$15.5 bln historical

- **DDP +89% over historical levels**
- **Currently on pace for 45%**

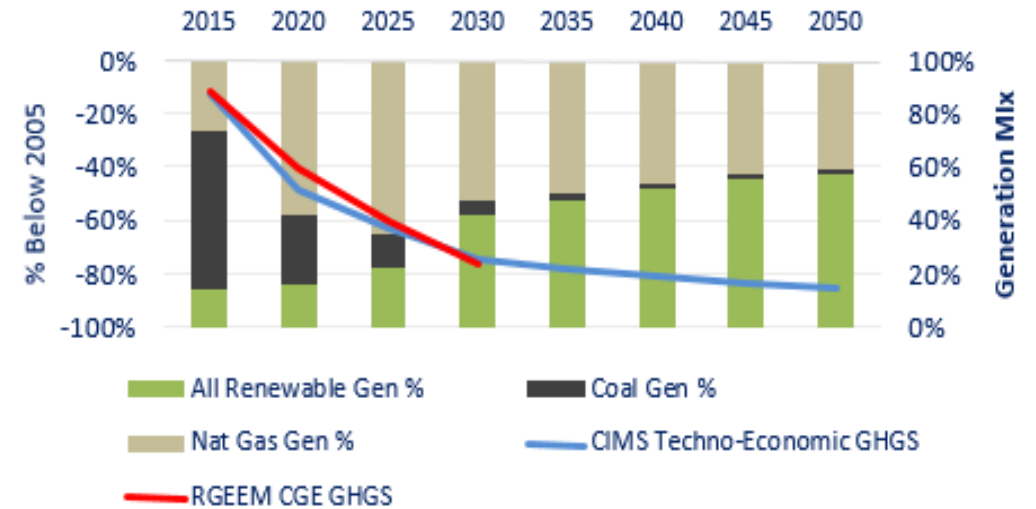
Current Policy a big decarbonization driver Electricity on 1.5dC Pathway of -80% from today?

Canada's ELEC GHGs under Current and Developing Policies

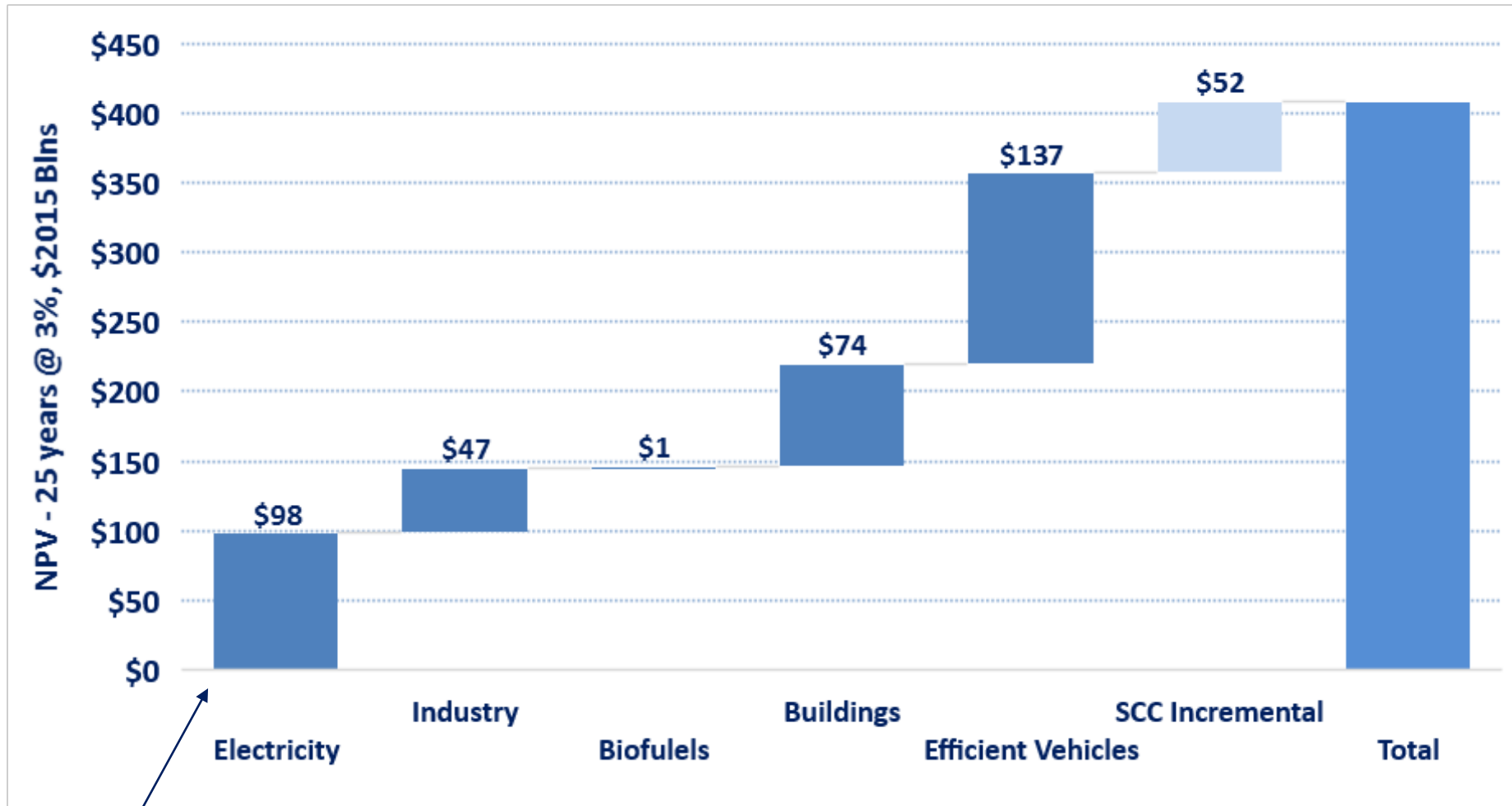
Chart Area



AB ELEC GHGs and Generation Mix under Climate Leadership Policy



Post-PCF Cumulative Low Carbon Investment to 2035



Post-PCF, 45% over historical or \$7 Billion annually

Summary

Now have the policy foundations for increased ambition,

- **Efficient and broad-based carbon pricing** of now our national baseline, **scalable**.
- Governments can **tighten existing performance-based regulations** enabling trading and other compliance flexibility.
- Policies include **measures to maintain competitiveness and ensure fairness**.

The scale of the decarbonization challenge significant; costs rise fast even with efficient policy.

- The **federal carbon price increases efficiency**, better aligning carbon costs.
- Given a likely **need to use global tradeable units to backstop ambition** to keep costs down

Effort needed for continued focus on aligning costs (as in federal floor) and cohesive climate governance.

- **Improving policy cohesion and efficiency is a priority.**
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