Green Accountability and Incentives:

Reflecting the Social and Economic Cost of CO2 in New Capital Projects

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#RAW2021



Robert D. Brown III

- Twenty+ year career with experience in systems engineering, strategic decisions, and risk analysis
- Fortune 100 clients in petroleum, pharmaceutical, utilities, transportation, high tech, and telecommunication industries
- Project work includes facilities capital cost estimating, market evaluation, project valuation and selection, schedule risk analysis, environmental remediation, litigation strategy, new product development, IP-network architectural selection and design, and enterprise portfolio system design and support
- Author of Business Case Analysis with R: Simulation Tutorials to Support Complex Business Decisions, Apress (a Springer Nature company), 2018
- 1992 graduate of the school of Mechanical Engineering of the Georgia Institute of Technology



SERVING OUR CUSTOMERS

Novelis

Beverage Can	Automotive	Aerospace	Specialties
ABInBev Ball	First CHRYSLER AUTOMOBILES Mercedes-Benz	© AIRBUS	SAMSUNG
CCCCCa Corown		Q BOEING	DENSO
ArdaghGroup		BOMBARDIER	<u></u>РАСТІУ
			🕒 LG

OUR AMBITION

Novelis

Novelis' ambition is to be the world's leading provider of low-carbon, sustainable aluminum solutions that advance our business, industry, and society toward the benefits of a circular economy.



10% Reduction in **Water** use by 2026

Energy use by 2026

10% Reduction in

30% of women in leadership roles by 2024

15% of women in senior technical roles by 2024

20% Reduction in Waste to landfill by 2026

Putting Our Money Where Our Heart Is



Source: Novelis inspire other similar companies to do the same.

Through the issuance of our Green Bonds, we aim to finance a low-carbon, circular and sustainable economy through expenditures that align with our environmental and social priorities. With Novelis' Purpose of Shaping a Sustainable World Together we aim to align our strategic and business decisions, creating a true positive impact on the world. We hope the issuance of our Green Bonds will

https://www.novelis.com/wp-content/uploads/2021/07/Novelis-Green-Bond-Framework_2021_Final.pdf



Evaluating Capital Projects – Choose Alternative to Maximize NPV





Accounting for Carbon Footprint



The Tradeoffs Are Not Always Clear



Keep XYZ + Grow Bicycle & AFH Share

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Quantifying the Value of Carbon Emissions for Tradeoff Analysis



The Net Effect – deduct the CO2 discount for each strategy from each strategy's NPV





Thank You!

