

Biodiversity Offsets







Land Use 2021: A Place for Biodiversity Offsets

PRESENTING CURRENT TRENDS AND BEST PRACTICES LINKING THEORY AND PRACTICE STIMULATING INSIGHTFUL DISCUSSION

Biodiversity offsetting is the process of intentionally producing environmental gains to counterweigh the negative impacts of development on nature, with a goal of no net loss or net gain for biodiversity. Embedded as the final stage in a hierarchy of mitigation approaches, it is increasingly used as a policy tool in an attempt to reconcile development and environmental protection, both in Canada and many other countries around the world.

The last 20 years have seen an explosion of interest in the topic in policy circles, among development planners and in academia. Organizations such as the International Union for the Conservation of Nature, the Business and Biodiversity Offset Programme, the Cross-Sector Biodiversity Initiative and the International Association for Impact Assessment have worked to articulate a set of principles and good practices to properly and effectively apply offsetting. Despite this, the offsetting remains a risky and controversial approach to environmental protection. Many aspects of it are poorly understood or inconsistently applied.

To help advance thinking, policy and practice respecting biodiversity offsetting, the Alberta Land Institute is presenting a series of webbased presentations and discussions to improve understanding regarding current thinking and good practices in offsetting. We will be engaging academic experts, practitioners, policy-makers and stakeholders in insightful discussions that aim to link the theory and practice of practice of offsetting for biodiversity.

We will draw on theory and practice to promote dialogue aimed at better and more consistent offsetting as a means of creating a better environmental future.

8-PART WEB FORUM SERIES

APRIL 19 - JUNE 14, 2021 FREE REGISTRATION

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RELEVANT TO:

CANADIAN AND INTERNATIONAL AUDIENCE - OFFSET EXPERTS, PRACTITIONERS, POLICY-MAKERS AND INTERESTED STAKEHOLDERS

REGISTER:

ALBERTALANDUSE.CA/LU21

Information as at April 8, 2021

SCHEDULE OF TALKS

APRIL 19, 2021

2 - 3:30 PM MDT

PUTTING BIODIVERSITY OFFSETTING IN ITS PLACE - GIVING MEANING AND TEETH TO THE MITIGATION HIERARCHY AND LIMITS TO OFFSETTING

SESSION LEADER: Martine Marion, University of Queensland

APRIL 26, 2021

10 - 11:30 AM MDT

NO NET LOSS IN A CHANGING LANDSCAPE

PANELISTS: **Fabien Quetier**, Biotope; **Marian Weber**, British Columbia Ministry of Environment & Climate Change Strategy; **Eric Higgs**, University of Victoria and **Florence Damiens**, RMIT University

MAY 3, 2021

10 - 11:30 AM MDT

BEYOND MULTIPLIERS: MANAGING THE RISKS OF OFFSETTING

SESSION LEADER: Joseph Bull, University of Kent

MAY 10, 2021

10 - 11:30 AM MDT

ALIGNING CARBON AND BIODIVERSITY OFFSETS

SESSION LEADER: Stewart Elgie, University of Ottawa

MAY 17. 2021

10 - 11:30 AM MDT

OFFSETTING AS IF PEOPLE MATTERED: SOCIAL ASPECTS OF BIODIVERSITY OFFSETTING

SESSION LEADER: Victoria Griffiths, The Landscapes and Liveliehoods Group

MAY 31, 2021

3 - 4:30 PM MDT

MAKING OFFSET CREDIT BANKING WORK

SESSION LEADER: Amy Taylor, Green Analytics

JUNE 7, 2021

10 - 11:30 AM MDT

ECOSYSTEM SERVICE AND MARKET-BASED INSTRUMENTS

SESSION LEADER: James Salzman, University of California, Santa Barbara

JUNE 14, 2021

10 - 11:30 AM MDT

OFFSETTING IN THE CANADIAN CONTEXT: EXPERIENCE AND POTENTIAL

SESSION LEADER: Vic Adamowicz, University of Alberta



SESSION ONE:

PUTTING BIODIVERSITY OFFSETTING IN ITS PLACE - GIVING MEANING AND TEETH TO THE MITIGATION HIERARCHY AND LIMITS TO OFFSETTING

APRIL 19, 2021

2 - 3:30 PM MDT

Session Leader: Martine Maron, University of Queensland

What can we reasonably expect of offsetting? When is it appropriate to employ and when not?

It is broadly agreed in theory and in policy that biodiversity offsetting ought only to be considered as the final step in a hierarchy of mitigation measures, after all reasonable efforts have been made to avoid, mitigate and remediate environmental impacts

As well, there are circumstances where offsetting is either very risky or practically impossible due to the rarity, fragility or irreplaceability of the particular species or resource in question. However, despite the widespread agreement and frequent mention of these doctrines, policymakers have frequent difficulty in applying them with consistency.

This session will focus on how processes can be established to give life to the mitigation hierarchy and the notion of "non-offsetability", as well as the special challenges of apply offsets in non-standard environmental conditions.

Presenters:

- Céline Jacob, Vertigo Lab (formely at Université du Québec en Outaouais), Jan-Willem van Bochove, Suzanne Livingstone, Thomas White, John Pilgrim & Leon Bennun, The Biodiversity Consultancy "Marine biodiversity offsets – pragmatic approaches towards better conservation outcomes"
- **David Browne**, Canadian Wildlife Federation "Can Offsets Be Used to Achieve Recovery Objectives for Species at Risk?"
- **Ritah Kigonya**, Norwegian University of Science and Technology "Consequences of funding protected area management as biodiversity offsets in Uganda"

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SESSION TWO:

NO NET LOSS IN A CHANGING LANDSCAPE

APRIL 26, 2021

10 - 11:30 AM MDT

Panelists:

- Fabien Quétier, Biotope
- Marian Weber, British Columbia Ministry of Environment and Climate Change Strategy
- Eric Higgs, University of Victoria
- Florence Damiens, RMIT University

A spirited discussion of the many issues measuring ecosystem losses and gains to assess progress to no net loss. Those issues are magnified in an increasingly shifting landscape.

The goal of biodiversity offsetting is often said to be no net loss or net gain of biodiversity. The notion relies on a projected future, adjusted to account for development and offsets. This is manifest by the offset requirements of baselines, additionality, and equivalency. But "nature' is changing before our eyes, that its future may be less something we restore or reconstruct, and more something we design.

Join us for a provocative discussion on how key aspects of offsetting might apply in the Anthropocene.

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SESSION THREE:

BEYOND MULTIPLIERS: MANAGING THE RISKS OF OFFSETTING

MAY 3, 2021

10 - 11:30 AM MDT

Session leader: Joseph Bull, University of Kent

The success and timeliness of offset measures is often far from certain. How can we adjust the process to compensate for risks and known inadequacies?

Biodiversity offsetting is frequently risky. Data on both development impacts and offset effectiveness is frequently less than ideal, baseline conditions may be uncertain and variable, offset measures may not be effective, differences between impact and offset sites and characteristics, and time lags may bring temporary or irremediable environmental losses.

A frequent tool to compensate for these risks is the use of offset multiplier ratios, whereby the offset outcome is planned to be larger than the development impact by a factor reflecting accumulated risk. The usefulness and assessment of multiplier ratios is a much-debated area, with positions ranging from advocacy for a complex mathematical approach customized to particular circumstances to simple set ratios that avoid contention and complication.

This session will explore this debate and wrestle with how multiplier ratios should be used and what other means are available to manage the risks of offsetting.

Presenters:

- Marcus Eyre, Independent Consultant
- Karen Stefanyk, British Columbia Ministry of Environment
- Amrei von Hase, Biodiversity Specialist and Offset Practitioner
- Naomi Nichol, BC Ministry of Forests, Lands and Natural Resource Operations
- Susie Brownlie, deVilliers Brownlie Associates cc

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SESSION FOUR:

ALIGNING CARBON AND BIODIVERSITY OFFSETS

MAY 10, 2021

10 - 11:30 PM MDT

Session leader: Stewart Elgie, University of Ottawa

The world needs tools to battle the twin crises of climate change and biodiversity loss.

Can we use offset concepts to make progress on both issues together? Can a harmonized process of offsetting, accounting for both types of environmental values, be accomplished?

Presenter:

- Royal C. Gardner, Stetson University
- Manual Piñuela, Cultivo, Drayson Tech. and SENS.L
- Amrei von Hase, Biodiversity Specialist and Offset Practitioner

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SESSION FIVE:

OFFSETTING AS IF PEOPLE MATTERED: SOCIAL ASPECTS OF BIODIVERSITY OFFSETTING

MAY 17, 2021

10 - 11:30 PM MDT

Session leader: Victoria Griffiths, The Landscapes and Livelihoods Group

Offsetting is not only an ecological project, but a social one. This session will examine the process of planning ecologically effective offsets while serving the needs and integrating the perspectives of local communities and the broader public.

Presenters:

- Linus Hasselström, EnviroEconomics Sweden and Scott Cole, KTH Royal Institute of Technology in Stockholm Sweden - "What do Swedes Prefer? Research on public acceptance and ecosystem services"
- Céline Jacob, Vertigo Lab (formely at Université du Québec en Outaouais) and Jérôme Dupras, Université du Québec en Outaouais "The Application of No Net Loss Policy in Quebec: Can we Really Engender 'Social Fit' for More Sustainable Land-Use Planning?"
- Charlie Palmer, Hemmera, Burnaby, British Columbia "Building Stakeholder Support Three Key Concepts"

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SESSION SIX:

MAKING OFFSET CREDIT BANKING WORK

MAY 31, 2021

3 - 4:30 PM MDT

Session leader: Amy Taylor, Green Analytics

This session will take the concept of offsetting beyond the simple balancing of negative and positive environmental impacts for a single project and look at how offsetting can lay the groundwork for other market-based environmental management tools.

Under appropriate conditions the use of quantifiable units of environmental gain or loss may give rise to a market in such units in which economic values are reflected, bridging the worlds of economy and environment.

This session will explore the conditions, risk and potential of such advanced approaches.

Presenters:

- George Kelly, Bespoke Mitigation Partners
- Conor Gillespie, Catalyst Companies "Ecological Mitigation Markets: A Practitioners Perspective on Critical Components and Pitfalls"
- Marianne Darbi, Hochschule Geisenheim University
- John Seidel, New South Wales Department of Planning, Industry and Environment

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SESSION SEVEN:

ECOSYSTEM SERVICE AND MARKET-BASED INSTRUMENTS

JUNE 7, 2021

10 - 11:30 PM MDT

Session leader: James Salzman, University of California, Santa Barbara

Many of the concepts developed in offsetting systems are transferable to other kinds of ecosystem service markets, opening up new possibilities of cost-effective conservation action. None, however, are free of controversy. This session will examine some of the leading thinking and experiences.

Presenters:

- **Gillian Kerr**, Dalhousie University, "Practical Governance Challenges for Offsets as Market-based Instruments in a Regulatory World"
- Carmen Cantuarias-Villessuzanne, Groupe ESPI, "Measuring the impact of transport infrastructure on biodiversity: towards a biodiversity finance in France"
- Christopher Wally Wright, Puget Sound Institute, "Keeping forest and agricultural lands working: market-based approaches, incentives and ecosystem services in Puget Sound"
- Paige Olmsted, University of Ottawa

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SESSION EIGHT:

OFFSETTING IN THE CANADIAN CONTEXT: EXPERIENCE AND POTENTIAL

JUNE 14, 2021

10 - 11:30 PM MDT

Session leader: Vic Adamowicz, University of Alberta

Canada has significant but inconsistent experience with offsetting at the federal, provincial and municipal level with respect to fish habitat, wetlands and species at risk. Several corporations have voluntarily sought to offset their impacts on biodiversity.

There is interest in several jurisdictions in expanding the use of offsetting, particularly with respect to caribou and boreal forest restoration and native grasslands. This session will explore the Canadian experience to date and seek to draw lessons about how offsetting might effectively be used in the future.

Presenters:

- Carol Stefan, City of Calgary, "Municipal Offsets: Balancing conservation and responsible development"
- Gillian Kerr, Dalhousie University, "Alberta's learning's on MBIs in use and in theory"
- Karen Stefanyk, BC Ministry of Environment, "BC's Environmental Mitigation Policy: Challenges and Opportunities for Mitigation and Offsets"
- Valerie Dupont, University Laval, "The Act respecting the conservation of wetlands and bodies of water: Critical legal analysis of wetland compensation funds in Quebec"

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