

Sixth Element is a “boutique” consulting firm specializing in concept planning, start-ups, and early-stage companies in the bioeconomy that do not have the senior management depth or experience. We provide C-level consulting services for [inventors](#), [entrepreneurs](#), [investors](#), and [public sector agencies](#).

Dr. Kutney, Ph.D. in chemistry, has two decades of executive experience with global corporations and entrepreneurial enterprises in the forest bioeconomy. He brings the innovation of research and technology development, the financial discipline of big business, and the spirit of entrepreneurship to start-ups and early-stage companies. Consulting services include: include *pro forma* design and analysis, feasibility studies and business plans, technology/venture vetting and audits (see [Projects](#) for recent studies). Our focus sectors are [emerging biofuels](#) and [Indigenous bioeconomy](#) ventures in the forestry sector, including lumber, logging and bioenergy.

Forest Bioeconomy

- Prepared business plans, feasibility studies and *pro forma* design for Indigenous forest-bioeconomy ventures (see below)
- Prepared technology-vetting studies on the commercial status of bioenergy/biofuels technologies
- Audited the commercial preparedness of an emerging technology venture for an IPO
- Chairman of the expert panel on international standards for solid recovered fuels (SRF) for ISO ([TC 300](#))
- Member of the expert panel on international standards for solid biofuels (wood/biomass pellets, torrefied pellets and biochar briquettes) for ISO ([TC 238](#))
- Member of the expert panel on Canadian standards for solid biofuels for CSA
- Forest products research manager for an international corporation
- Director - Biochar Ontario
- Executive - Investor Services, Emerging Technologies, Biomass Power, Biodiesel - for the world's premier bioeconomy consulting group ([Lee Enterprises Consulting](#))
- Executive - biomass processing business
- Executive - pyrolysis/biochar venture
- Executive - bioproducts/bioenergy business of a major forest products company (Tembec) in Canada

Indigenous Forest-Bioeconomy Projects - First Nations

- Aroland First Nation
- Eabametoong First Nation
- Ginoogaming First Nation
- Gitksan Nation
- Haida Nation
- Long Lake #58 First Nation
- Marten Falls First Nation
- Missanabie Cree First Nation
- Pikangikum First Nation
- Whitesand First Nation

Indigenous Forest-Bioeconomy Projects – Recent Studies

- Project *Pro forma* Design and Analysis – biomass power & wood pellets
- Project *Pro forma* Design and Analysis (3 studies) – logging
- Project *Pro forma* Design and Analysis (3 studies) – sawmill
- Feasibility Study (3 studies) – logging
- Feasibility Study – sawmill
- Business Plan (2 studies) – sawmill
- Business Plan – industrial park
- Business Plan – biomass power & wood pellets

Climate Change

- Authored the peer-reviewed book [*Carbon Politics and the Failure of the Kyoto Protocol*](#), which examines the policy challenges for addressing climate change
- Adjunct Professor & Part-time Instructor fourth-year/graduate course on Climate Change, University of Northern British Columbia – Environmental Science

Miscellaneous

- Approved consultant with the Business Development Bank of Canada ([BDC, Entrepreneurs first](#))
- [MBA mentor](#) at the University of Ottawa
- Entrepreneur mentor with [Invest Ottawa](#)