

NOVA SCOTIA CLIMATE CHANGE RISK ASSESSMENT

NOVA SCOTIA CLIMATE CHANGE RISK ASSESSMENT IS A CRITICAL PROCESS THAT EVALUATES THE VULNERABILITIES AND POTENTIAL IMPACTS OF CLIMATE CHANGE ON THE PROVINCE'S ENVIRONMENT, ECONOMY, AND COMMUNITIES. AS A COASTAL REGION WITH DIVERSE ECOSYSTEMS AND A SIGNIFICANT RELIANCE ON NATURAL RESOURCES, NOVA SCOTIA FACES UNIQUE CHALLENGES RELATED TO RISING TEMPERATURES, SEA-LEVEL RISE, AND EXTREME WEATHER EVENTS. THIS COMPREHENSIVE ASSESSMENT HELPS IDENTIFY THE KEY RISKS POSED BY CLIMATE CHANGE, ENABLING POLICYMAKERS, STAKEHOLDERS, AND RESIDENTS TO DEVELOP EFFECTIVE ADAPTATION AND MITIGATION STRATEGIES. UNDERSTANDING THESE RISKS IS ESSENTIAL FOR SAFEGUARDING INFRASTRUCTURE, PROTECTING BIODIVERSITY, AND ENSURING SUSTAINABLE DEVELOPMENT IN THE FACE OF GLOBAL CLIMATE SHIFTS. THIS ARTICLE WILL EXPLORE THE MAJOR CLIMATE RISKS FACING NOVA SCOTIA, METHODS USED IN RISK ASSESSMENT, AND ONGOING INITIATIVES AIMED AT REDUCING VULNERABILITY. A DETAILED DISCUSSION ON SECTOR-SPECIFIC IMPACTS, INCLUDING ON AGRICULTURE, FISHERIES, AND PUBLIC HEALTH, WILL ALSO BE PROVIDED. FOLLOWING THIS INTRODUCTION, A TABLE OF CONTENTS OUTLINES THE MAIN THEMES COVERED IN THIS RISK ASSESSMENT ANALYSIS.

- CLIMATE CHANGE TRENDS IN NOVA SCOTIA
- KEY RISKS IDENTIFIED IN NOVA SCOTIA CLIMATE CHANGE RISK ASSESSMENT
- METHODOLOGIES FOR CLIMATE CHANGE RISK ASSESSMENT
- SECTOR-SPECIFIC VULNERABILITIES AND IMPACTS
- ADAPTATION AND MITIGATION STRATEGIES IN NOVA SCOTIA
- ONGOING MONITORING AND FUTURE OUTLOOK

CLIMATE CHANGE TRENDS IN NOVA SCOTIA

ANALYZING RECENT CLIMATE TRENDS PROVIDES THE FOUNDATIONAL CONTEXT FOR ANY NOVA SCOTIA CLIMATE CHANGE RISK ASSESSMENT. NOVA SCOTIA HAS EXPERIENCED MEASURABLE SHIFTS IN TEMPERATURE, PRECIPITATION, AND WEATHER PATTERNS OVER THE PAST DECADES. AVERAGE TEMPERATURES HAVE RISEN STEADILY, CONTRIBUTING TO LONGER GROWING SEASONS AND ALTERED ECOLOGICAL DYNAMICS. ADDITIONALLY, PRECIPITATION PATTERNS ARE BECOMING MORE UNPREDICTABLE, WITH INCREASED FREQUENCY OF HEAVY RAINFALL EVENTS AND PERIODS OF DROUGHT. COASTAL AREAS HAVE BEEN PARTICULARLY AFFECTED BY RISING SEA LEVELS AND INTENSIFYING STORM SURGES, WHICH EXACERBATE EROSION AND FLOODING RISKS. UNDERSTANDING THESE TRENDS IS CRUCIAL FOR ACCURATELY PROJECTING FUTURE CLIMATE SCENARIOS AND ASSOCIATED RISKS WITHIN THE PROVINCE.

TEMPERATURE AND PRECIPITATION CHANGES

DATA INDICATES THAT NOVA SCOTIA'S AVERAGE ANNUAL TEMPERATURE HAS INCREASED BY APPROXIMATELY 1.5°C SINCE THE EARLY 20TH CENTURY. WINTERS ARE BECOMING Milder, WHILE SUMMERS SHOW A TREND TOWARD HOTTER AND MORE HUMID CONDITIONS. PRECIPITATION IS ALSO UNDERGOING SHIFTS, WITH AN INCREASE IN BOTH TOTAL ANNUAL RAINFALL AND THE OCCURRENCE OF EXTREME PRECIPITATION EVENTS. THESE CHANGES AFFECT WATER AVAILABILITY, SOIL MOISTURE, AND ECOSYSTEM HEALTH ACROSS THE REGION.

SEA-LEVEL RISE AND COASTAL IMPACTS

SEA-LEVEL RISE DRIVEN BY GLOBAL WARMING POSES A SIGNIFICANT THREAT TO NOVA SCOTIA'S EXTENSIVE COASTLINE. THE PROVINCE HAS SEEN LOCAL SEA LEVELS RISE AT A RATE HIGHER THAN THE GLOBAL AVERAGE, COMPOUNDED BY LAND SUBSIDENCE IN SOME AREAS. THIS PHENOMENON LEADS TO INCREASED COASTAL FLOODING, SALTWATER INTRUSION INTO FRESHWATER

SYSTEMS, AND GREATER VULNERABILITY OF INFRASTRUCTURE AND COMMUNITIES SITUATED NEAR THE SHORE.

KEY RISKS IDENTIFIED IN NOVA SCOTIA CLIMATE CHANGE RISK ASSESSMENT

THE NOVA SCOTIA CLIMATE CHANGE RISK ASSESSMENT IDENTIFIES SEVERAL CRITICAL RISKS THAT THREATEN THE PROVINCE'S ENVIRONMENTAL INTEGRITY AND SOCIOECONOMIC STABILITY. THESE RISKS STEM FROM BOTH DIRECT CLIMATIC CHANGES AND SECONDARY EFFECTS IMPACTING NATURAL AND HUMAN SYSTEMS. THE ASSESSMENT HIGHLIGHTS THE URGENCY OF ADDRESSING THESE VULNERABILITIES THROUGH COORDINATED PLANNING AND RESOURCE MANAGEMENT.

INCREASED FLOODING AND STORM DAMAGE

FLOODING RISK HAS ESCALATED DUE TO MORE INTENSE PRECIPITATION AND STORM EVENTS, PARTICULARLY IN LOW-LYING COASTAL AND RIVERINE AREAS. RECURRENT FLOODS DAMAGE INFRASTRUCTURE, DISRUPT TRANSPORTATION NETWORKS, AND RESULT IN COSTLY REPAIRS AND ECONOMIC LOSSES.

BIODIVERSITY AND ECOSYSTEM DEGRADATION

SHIFTS IN TEMPERATURE AND MOISTURE REGIMES THREATEN NATIVE SPECIES AND HABITATS. SOME SPECIES MAY FACE HABITAT LOSS OR FORCED MIGRATION, WHILE INVASIVE SPECIES MAY FIND NEW OPPORTUNITIES. THIS BIODIVERSITY LOSS UNDERMINES ECOSYSTEM SERVICES SUCH AS WATER FILTRATION, CARBON SEQUESTRATION, AND FISHERIES PRODUCTIVITY.

PUBLIC HEALTH CHALLENGES

CLIMATE CHANGE EXACERBATES HEALTH RISKS THROUGH HEAT STRESS, THE SPREAD OF VECTOR-BORNE DISEASES, AND INCREASED RESPIRATORY ISSUES RELATED TO AIR QUALITY. VULNERABLE POPULATIONS, INCLUDING THE ELDERLY AND LOW-INCOME COMMUNITIES, ARE DISPROPORTIONATELY AFFECTED.

ECONOMIC IMPACTS ON KEY INDUSTRIES

NOVA SCOTIA'S ECONOMY DEPENDS HEAVILY ON SECTORS SENSITIVE TO CLIMATE VARIABILITY, SUCH AS AGRICULTURE, FISHERIES, AND TOURISM. CLIMATE RISKS DISRUPT PRODUCTION CYCLES, REDUCE YIELDS, AND THREATEN LIVELIHOODS.

METHODOLOGIES FOR CLIMATE CHANGE RISK ASSESSMENT

EFFECTIVE NOVA SCOTIA CLIMATE CHANGE RISK ASSESSMENT EMPLOYS A MIX OF QUANTITATIVE AND QUALITATIVE METHODS TO IDENTIFY, ANALYZE, AND PRIORITIZE RISKS. THESE APPROACHES INTEGRATE CLIMATE DATA, STAKEHOLDER INPUT, AND SCENARIO MODELING TO PROVIDE A COMPREHENSIVE RISK PROFILE TAILORED TO THE PROVINCE'S SPECIFIC CONDITIONS.

DATA COLLECTION AND CLIMATE MODELING

HIGH-RESOLUTION CLIMATE MODELS SIMULATE FUTURE TEMPERATURE, PRECIPITATION, AND SEA-LEVEL SCENARIOS BASED ON GLOBAL EMISSIONS PATHWAYS. THESE PROJECTIONS INFORM VULNERABILITY ANALYSES AND IMPACT FORECASTING.

VULNERABILITY AND EXPOSURE ANALYSIS

ASSESSING WHICH COMMUNITIES, ECOSYSTEMS, AND INFRASTRUCTURE ARE MOST EXPOSED TO CLIMATE HAZARDS IS CRITICAL.

THIS INVOLVES MAPPING HAZARD ZONES AND EVALUATING ADAPTIVE CAPACITIES.

STAKEHOLDER ENGAGEMENT AND EXPERT CONSULTATION

INCORPORATING INSIGHTS FROM LOCAL GOVERNMENTS, INDIGENOUS GROUPS, SCIENTISTS, AND INDUSTRY STAKEHOLDERS ENSURES THE ASSESSMENT REFLECTS DIVERSE PERSPECTIVES AND PRACTICAL KNOWLEDGE.

SECTOR-SPECIFIC VULNERABILITIES AND IMPACTS

NOVA SCOTIA'S DIVERSE ECONOMY AND ENVIRONMENT EXPERIENCE DISTINCT CLIMATE-RELATED CHALLENGES. THE NOVA SCOTIA CLIMATE CHANGE RISK ASSESSMENT BREAKS DOWN IMPACTS BY SECTOR TO GUIDE TARGETED RESPONSES AND POLICY DEVELOPMENT.

AGRICULTURE

CHANGING CLIMATE CONDITIONS AFFECT CROP VIABILITY, PEST POPULATIONS, AND SOIL HEALTH. VARIABILITY IN RAINFALL AND TEMPERATURE STRESSES CROPS AND LIVESTOCK, NECESSITATING SHIFTS IN FARMING PRACTICES.

FISHERIES AND AQUACULTURE

OCEAN WARMING AND ACIDIFICATION ALTER MARINE ECOSYSTEMS, IMPACTING FISH STOCKS AND SHELLFISH HEALTH. THESE CHANGES THREATEN FOOD SECURITY AND ECONOMIC STABILITY IN COASTAL COMMUNITIES.

INFRASTRUCTURE AND URBAN AREAS

CRITICAL INFRASTRUCTURE SUCH AS ROADS, BRIDGES, AND WATER SYSTEMS FACES DAMAGE FROM INCREASED FLOODING, FREEZE-THAW CYCLES, AND EXTREME WEATHER EVENTS. URBAN CENTERS MUST ADAPT TO PROTECT RESIDENTS AND MAINTAIN SERVICES.

FORESTRY

FOREST ECOSYSTEMS ARE VULNERABLE TO INCREASED WILDFIRE RISK, PEST OUTBREAKS, AND ALTERED GROWTH PATTERNS, IMPACTING TIMBER SUPPLY AND CARBON STORAGE CAPABILITIES.

ADAPTATION AND MITIGATION STRATEGIES IN NOVA SCOTIA

ADDRESSING THE IDENTIFIED RISKS REQUIRES COMPREHENSIVE ADAPTATION AND MITIGATION EFFORTS. NOVA SCOTIA HAS DEVELOPED POLICIES AND PROGRAMS DESIGNED TO REDUCE VULNERABILITY AND ENHANCE RESILIENCE IN LINE WITH THE NOVA SCOTIA CLIMATE CHANGE RISK ASSESSMENT FINDINGS.

INFRASTRUCTURE RESILIENCE IMPROVEMENTS

UPGRADING DRAINAGE SYSTEMS, REINFORCING COASTAL DEFENSES, AND INCORPORATING CLIMATE PROJECTIONS INTO DESIGN STANDARDS HELP PROTECT CRITICAL INFRASTRUCTURE FROM CLIMATE IMPACTS.

CONSERVATION AND ECOSYSTEM MANAGEMENT

RESTORATION OF WETLANDS, REFORESTATION, AND PROTECTION OF NATURAL BUFFERS SUPPORT BIODIVERSITY AND REDUCE FLOOD RISKS.

COMMUNITY ENGAGEMENT AND CAPACITY BUILDING

EDUCATING RESIDENTS AND STAKEHOLDERS ABOUT CLIMATE RISKS AND PROMOTING LOCAL ADAPTATION INITIATIVES FOSTER COMMUNITY RESILIENCE.

GREENHOUSE GAS EMISSION REDUCTION INITIATIVES

TRANSITIONING TO RENEWABLE ENERGY, ENHANCING ENERGY EFFICIENCY, AND PROMOTING SUSTAINABLE TRANSPORTATION CONTRIBUTE TO MITIGATION EFFORTS AIMED AT LIMITING FUTURE CLIMATE CHANGE.

ONGOING MONITORING AND FUTURE OUTLOOK

CONTINUOUS MONITORING AND PERIODIC REASSESSMENT ARE ESSENTIAL COMPONENTS OF NOVA SCOTIA CLIMATE CHANGE RISK ASSESSMENT. AS CLIMATE TRENDS EVOLVE, SO TOO MUST THE STRATEGIES TO MANAGE RISKS AND CAPITALIZE ON EMERGING OPPORTUNITIES FOR SUSTAINABLE DEVELOPMENT.

CLIMATE DATA AND IMPACT TRACKING

REGULAR COLLECTION OF ENVIRONMENTAL AND SOCIOECONOMIC DATA SUPPORTS EARLY WARNING SYSTEMS AND INFORMS ADAPTIVE MANAGEMENT.

POLICY REVIEW AND ADAPTIVE MANAGEMENT

CLIMATE POLICIES REQUIRE FLEXIBILITY TO INCORPORATE NEW SCIENTIFIC FINDINGS AND RESPOND TO CHANGING CONDITIONS EFFECTIVELY.

COLLABORATIVE RESEARCH AND INNOVATION

PARTNERSHIPS AMONG GOVERNMENT AGENCIES, ACADEMIC INSTITUTIONS, AND THE PRIVATE SECTOR DRIVE INNOVATION IN CLIMATE RISK ASSESSMENT TOOLS AND ADAPTATION TECHNOLOGIES.

- INCREASED FREQUENCY OF EXTREME WEATHER EVENTS
- VULNERABILITY OF COASTAL COMMUNITIES TO SEA-LEVEL RISE
- ECONOMIC RISKS TO FISHERIES, AGRICULTURE, AND TOURISM
- HEALTH IMPACTS FROM HEATWAVES AND VECTOR-BORNE DISEASES
- NEED FOR INFRASTRUCTURE RESILIENCE AND ECOLOGICAL CONSERVATION

FREQUENTLY ASKED QUESTIONS

WHAT IS THE PURPOSE OF A CLIMATE CHANGE RISK ASSESSMENT IN NOVA SCOTIA?

THE PURPOSE OF A CLIMATE CHANGE RISK ASSESSMENT IN NOVA SCOTIA IS TO IDENTIFY AND EVALUATE THE POTENTIAL IMPACTS OF CLIMATE CHANGE ON THE PROVINCE'S ENVIRONMENT, INFRASTRUCTURE, ECONOMY, AND COMMUNITIES TO INFORM ADAPTATION AND MITIGATION STRATEGIES.

WHAT ARE THE MAJOR CLIMATE RISKS IDENTIFIED FOR NOVA SCOTIA?

MAJOR CLIMATE RISKS FOR NOVA SCOTIA INCLUDE INCREASED COASTAL FLOODING, SEA LEVEL RISE, MORE FREQUENT AND INTENSE STORMS, CHANGING PRECIPITATION PATTERNS, AND IMPACTS ON AGRICULTURE AND FISHERIES.

HOW DOES SEA LEVEL RISE AFFECT NOVA SCOTIA'S COASTAL COMMUNITIES?

SEA LEVEL RISE INCREASES THE RISK OF COASTAL FLOODING AND EROSION, THREATENING HOMES, INFRASTRUCTURE, AND ECOSYSTEMS IN NOVA SCOTIA'S COASTAL COMMUNITIES, LEADING TO POTENTIAL DISPLACEMENT AND ECONOMIC LOSSES.

WHICH SECTORS ARE MOST VULNERABLE TO CLIMATE CHANGE IN NOVA SCOTIA?

THE MOST VULNERABLE SECTORS INCLUDE FISHERIES, AGRICULTURE, FORESTRY, COASTAL INFRASTRUCTURE, AND PUBLIC HEALTH DUE TO THEIR SENSITIVITY TO CHANGING TEMPERATURES, PRECIPITATION, AND EXTREME WEATHER EVENTS.

WHAT ROLE DO INDIGENOUS COMMUNITIES PLAY IN NOVA SCOTIA'S CLIMATE CHANGE RISK ASSESSMENT?

INDIGENOUS COMMUNITIES CONTRIBUTE TRADITIONAL KNOWLEDGE AND ARE INTEGRAL IN IDENTIFYING VULNERABILITIES AND DEVELOPING CULTURALLY APPROPRIATE ADAPTATION STRATEGIES IN NOVA SCOTIA'S CLIMATE CHANGE RISK ASSESSMENTS.

HOW IS THE GOVERNMENT OF NOVA SCOTIA ADDRESSING CLIMATE CHANGE RISKS?

THE GOVERNMENT IS IMPLEMENTING POLICIES AND PROGRAMS FOCUSED ON REDUCING GREENHOUSE GAS EMISSIONS, ENHANCING RESILIENCE THROUGH INFRASTRUCTURE UPGRADES, EMERGENCY PREPAREDNESS, AND SUPPORTING COMMUNITY-BASED ADAPTATION INITIATIVES.

WHAT METHODOLOGIES ARE USED IN CONDUCTING CLIMATE CHANGE RISK ASSESSMENTS IN NOVA SCOTIA?

METHODOLOGIES INCLUDE CLIMATE MODELING, VULNERABILITY ASSESSMENTS, STAKEHOLDER ENGAGEMENT, AND SCENARIO ANALYSIS TO EVALUATE POTENTIAL IMPACTS AND PRIORITIZE RISKS FOR EFFECTIVE DECISION-MAKING.

HOW DOES CLIMATE CHANGE IMPACT NOVA SCOTIA'S MARINE ECOSYSTEMS?

CLIMATE CHANGE LEADS TO OCEAN WARMING, ACIDIFICATION, AND ALTERED CURRENTS, AFFECTING MARINE BIODIVERSITY, FISH STOCKS, AND THE OVERALL HEALTH OF NOVA SCOTIA'S MARINE ECOSYSTEMS.

WHAT ADAPTATION STRATEGIES ARE RECOMMENDED FOR NOVA SCOTIA TO MANAGE CLIMATE RISKS?

RECOMMENDED STRATEGIES INCLUDE ENHANCING COASTAL DEFENSES, SUSTAINABLE LAND USE PLANNING, PROTECTING NATURAL HABITATS, UPGRADING INFRASTRUCTURE, AND PROMOTING COMMUNITY AWARENESS AND PREPAREDNESS.

How often is Nova Scotia's climate change risk assessment updated?

NOVA SCOTIA'S CLIMATE CHANGE RISK ASSESSMENTS ARE TYPICALLY UPDATED EVERY FEW YEARS TO INCORPORATE THE LATEST SCIENTIFIC DATA, OBSERVED CLIMATE TRENDS, AND EVOLVING RISKS TO ENSURE RELEVANT AND EFFECTIVE POLICY RESPONSES.

ADDITIONAL RESOURCES

1. *CLIMATE CHANGE AND COASTAL RISK ASSESSMENT IN NOVA SCOTIA*

THIS BOOK PROVIDES AN IN-DEPTH ANALYSIS OF HOW CLIMATE CHANGE IS IMPACTING THE COASTAL REGIONS OF NOVA SCOTIA. IT EXPLORES RISING SEA LEVELS, INCREASED STORM FREQUENCY, AND EROSION PATTERNS, OFFERING VALUABLE DATA FOR POLICYMAKERS AND ENVIRONMENTAL SCIENTISTS. THE TEXT INCLUDES CASE STUDIES AND RISK MODELS TO HELP COMMUNITIES PREPARE FOR FUTURE CLIMATE SCENARIOS.

2. *ADAPTING TO CLIMATE CHANGE: STRATEGIES FOR NOVA SCOTIA'S COMMUNITIES*

FOCUSING ON PRACTICAL ADAPTATION STRATEGIES, THIS BOOK PRESENTS INNOVATIVE APPROACHES TO MANAGING CLIMATE RISKS IN NOVA SCOTIA. IT COVERS INFRASTRUCTURE RESILIENCE, COMMUNITY PLANNING, AND ECOSYSTEM MANAGEMENT TO MITIGATE CLIMATE IMPACTS. THE AUTHOR EMPHASIZES THE IMPORTANCE OF LOCAL KNOWLEDGE AND STAKEHOLDER ENGAGEMENT IN EFFECTIVE RISK ASSESSMENT.

3. *NOVA SCOTIA'S CHANGING CLIMATE: RISK ASSESSMENT AND ENVIRONMENTAL IMPACTS*

THIS PUBLICATION EXAMINES THE ENVIRONMENTAL CONSEQUENCES OF CLIMATE CHANGE IN NOVA SCOTIA, INCLUDING SHIFTS IN TEMPERATURE, PRECIPITATION, AND BIODIVERSITY. IT PROVIDES A COMPREHENSIVE RISK ASSESSMENT FRAMEWORK TAILORED TO THE PROVINCE'S UNIQUE GEOGRAPHY AND ECOSYSTEMS. READERS WILL FIND SCIENTIFIC DATA ALONGSIDE POLICY RECOMMENDATIONS FOR SUSTAINABLE DEVELOPMENT.

4. *SEA LEVEL RISE AND FLOODING RISKS IN NOVA SCOTIA: A CLIMATE CHANGE PERSPECTIVE*

ADDRESSING ONE OF THE MOST PRESSING CLIMATE THREATS, THIS BOOK ANALYZES SEA LEVEL RISE AND ITS IMPLICATIONS FOR FLOODING IN NOVA SCOTIA. IT COMBINES HISTORICAL DATA WITH PREDICTIVE MODELS TO ASSESS VULNERABILITY OF COASTAL INFRASTRUCTURE AND HABITATS. THE BOOK ALSO DISCUSSES MITIGATION EFFORTS AND THE ROLE OF GOVERNMENT REGULATION.

5. *CLIMATE RISK MODELLING FOR NOVA SCOTIA: TOOLS AND APPLICATIONS*

THIS TECHNICAL GUIDE INTRODUCES VARIOUS CLIMATE RISK MODELLING TECHNIQUES APPLICABLE TO NOVA SCOTIA'S ENVIRONMENT. IT COVERS GIS MAPPING, STATISTICAL MODELS, AND SCENARIO PLANNING TO EVALUATE POTENTIAL CLIMATE IMPACTS. THE BOOK IS AIMED AT RESEARCHERS, PLANNERS, AND DECISION-MAKERS INVOLVED IN CLIMATE RESILIENCE PROJECTS.

6. *IMPACT OF CLIMATE CHANGE ON NOVA SCOTIA'S FISHERIES AND AQUATIC ECOSYSTEMS*

FOCUSING ON MARINE AND FRESHWATER ECOSYSTEMS, THIS BOOK EXPLORES HOW CLIMATE CHANGE AFFECTS FISH POPULATIONS AND AQUATIC HABITATS IN NOVA SCOTIA. IT HIGHLIGHTS RISKS SUCH AS OCEAN ACIDIFICATION, TEMPERATURE CHANGES, AND HABITAT LOSS. THE BOOK OFFERS STRATEGIES FOR SUSTAINABLE FISHERIES MANAGEMENT UNDER CHANGING CLIMATIC CONDITIONS.

7. *CLIMATE CHANGE VULNERABILITY AND RISK ASSESSMENT FOR NOVA SCOTIA'S INFRASTRUCTURE*

THIS BOOK ASSESSES THE VULNERABILITY OF CRITICAL INFRASTRUCTURE IN NOVA SCOTIA TO CLIMATE CHANGE IMPACTS. IT EXAMINES TRANSPORTATION NETWORKS, ENERGY SYSTEMS, AND WATER SUPPLY UNDER VARIOUS CLIMATE SCENARIOS. THE AUTHOR PROPOSES RISK MITIGATION MEASURES AND INFRASTRUCTURE DESIGN IMPROVEMENTS TO ENHANCE RESILIENCE.

8. *COMMUNITY-BASED CLIMATE RISK ASSESSMENT: LESSONS FROM NOVA SCOTIA*

HIGHLIGHTING GRASSROOTS INITIATIVES, THIS BOOK PRESENTS CASE STUDIES OF COMMUNITY-LED CLIMATE RISK ASSESSMENTS IN NOVA SCOTIA. IT DISCUSSES PARTICIPATORY APPROACHES THAT INTEGRATE SCIENTIFIC DATA WITH LOCAL EXPERIENCES. THE BOOK UNDERSCORES THE VALUE OF COMMUNITY ENGAGEMENT IN BUILDING ADAPTIVE CAPACITY.

9. *POLICY AND GOVERNANCE FOR CLIMATE CHANGE RISK MANAGEMENT IN NOVA SCOTIA*

THIS BOOK EXPLORES THE POLICY FRAMEWORKS AND GOVERNANCE STRUCTURES THAT SHAPE CLIMATE RISK MANAGEMENT IN NOVA SCOTIA. IT ANALYZES PROVINCIAL AND MUNICIPAL ROLES, REGULATORY CHALLENGES, AND INTERGOVERNMENTAL COOPERATION. THE TEXT PROVIDES INSIGHTS INTO EFFECTIVE POLICY DESIGN TO ADDRESS CLIMATE VULNERABILITIES AND PROMOTE SUSTAINABILITY.

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