

NCF Envirothon Renewable Energy for a Sustainable Future



Envirothon NB Scenario

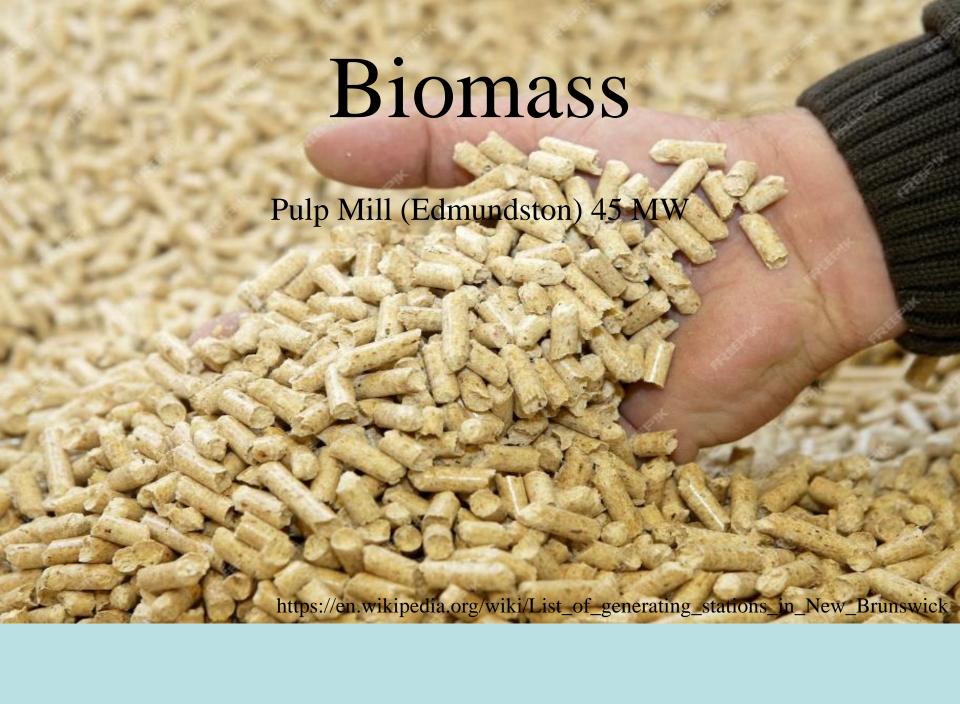
- New Brunswick is moving toward net zero GHG emissions by 2050
 - Need to decarbonize the electricity system
 - Phase out coal-generated electricity by 2030 (Belledune)
 - Need additional 700 MW of electricity by 2035
- You are consultants hired by province to help address the 700 MW shortfall
 - Must be single source of renewable energy
 - Can be located anywhere in the province
 - Need to identify how much energy will be produced
 - Cost of project
 - Consider impacts to environment and society
- First step is to look at choices available and select the one best suited to meet the projected shortfall



Total of 12 generating stations
Range from 3MW to 688 MW
Total generated by hydro 950 MW

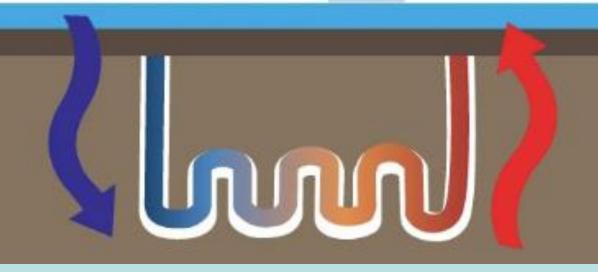




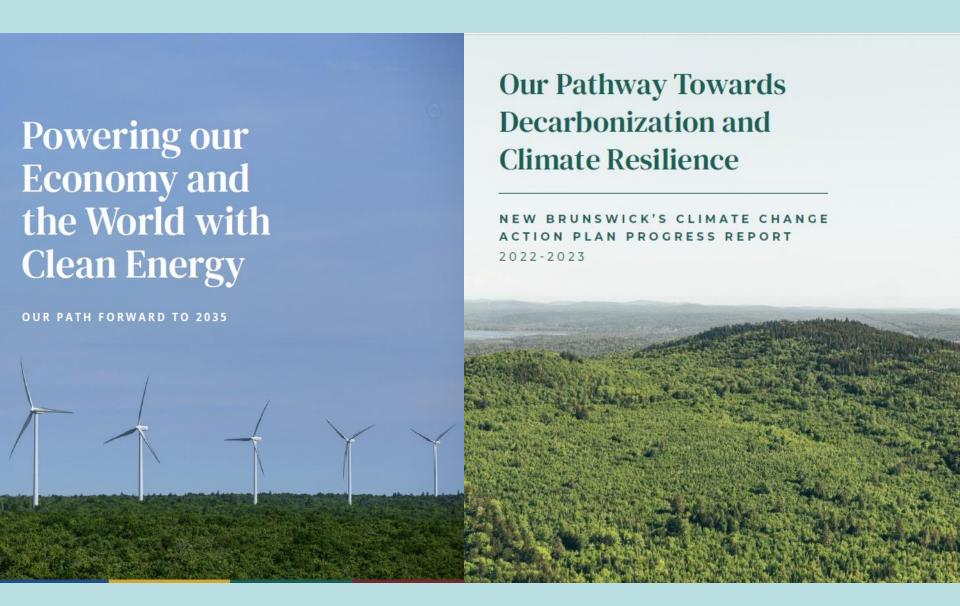








New Brunswick Resources

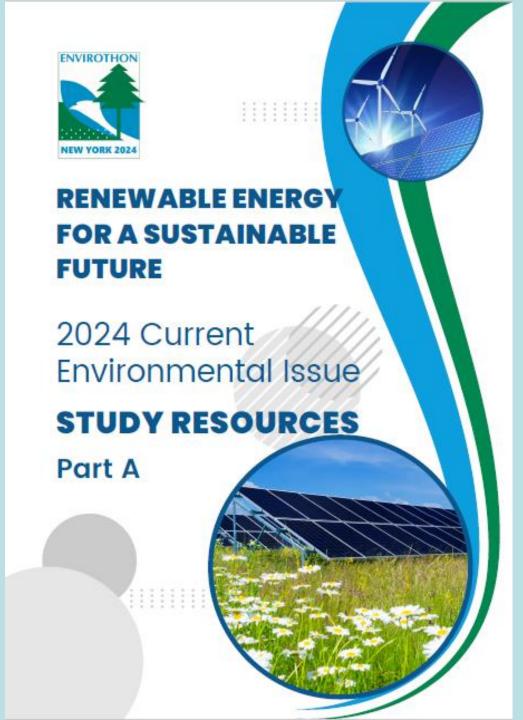


NCF Resource

Good information on global use of renewable energy sources

Pros and cons of renewable energy sources

Some of content is quite technical in nature (might be useful to add depth of content to presentation)



Envirothon NB Competition

Team registration Sunday/Monday

Field tests on Sunday (100 points each)

Optional practice session on Sunday night

Oral presentations on Monday (200 points)

Teams present to panel of 5 judges

Rotate judges

Drop low and high score

Maximum duration 20 minutes

Timer will let you know 5, 2, 1 minutes left

Stop at 20 minutes

Top 3 overall teams will present again



Who are the judges (5)?

Experts in at least one of the fields

Good understanding of current topic

They are **not** the enemy

They want you to succeed







A well-balanced presentation is easy to judge



Envirothon NB Judges' Scoring Sheet for Team Presentations

	Scale for Scoring							
eam Number	0 -	Not at al.	6 –	Good				
toom Number	2~	poor or poorly	8 –	Excellent				
udges Initials	4-	fair or slightly well	10-	Outstanding				

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pts: 17-20 min					enting a plan.		1 2	3	4	5
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Total points for part I (60 maximum)	•	L -	1		<u> </u>					
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Total points for part I(1 (40 maximum)

Scale for scoring (general)

- 0 Not at all
- 2 **Major misconceptions and gaps**; ineffective, inadequate, inappropriate
- 4 **Some misconceptions and flaws:** minimally effective, somewhat appropriate
- 6 Complete and accurate; effective, adequate, and appropriate
- 8 **Complete: very detailed**, logical, ideas well supported and well organized; highly effective, all details appropriate
- 10 **Profound:** in-depth, done in an insightful manner; extremely effective, points to a most effective strategy

NCF-Envirothon Judges Training Video



Envirothon NB Judges' Scoring Sheet for <u>Team Presentations</u>

	Scale for Scoring					
Team Number	0 –	Not at all	6 –	Good		
Room Number	2 –	poor or poorly	8 –	Excellent		
Judges Initials	4 –	fair or slightly well	10 –	Outstanding		

Part I Preparation & Presentation of Plan (60 points maximum)		Cir				
A. How well did the presentation address or identify:						
 The interrelationship between the environment, natural resources, and the different natural resource management strategies? 	0	2	4	6	8	10
 All the different players/interest groups affected by the problem? 	0	2	4	6	8	10
• The major natural resources areas (soils/land use, aquatic ecology, forestry, wildlife)?	0	2	4	6	8	10
• The current issue?	0	2	4	6	8	10
 The specific environmental problem and related issues regarding the problem? 	0	2	4	6	8	10
B. Were references and resources cited in the team presentation?	0	2	4	6	8	10
Part I – Subtotal						



Envirothon NB Judges' Scoring Sheet for Team Presentations

Team Number	
Room Number	
Judges Initials	

Scale for Scoring									
0 –	Not at all	6 –	Good						
2 –	poor or poorly	8 –	Excellent						
4 –	fair or slightly well	10 –	Outstanding						

Part II – Application of Data (80 points maximum)			Circle score					
A Team demonstrated a solid understanding of political issue(s) related to the problem (regulations, mandates, impact on political system/community).	0	2	4	6	8	10		
B. Team demonstrated a solid understanding of ecological/environmental issue(s) related to the problem.	0	2	4	6	8	10		
C. The team demonstrated a solid understanding of economic issue(s) related to the problem including the cost and benefits of the proposed plan, (cost of implementing the plan, economic impact on local resources, cost of doing nothing, future costs, funding source(s), etc.).	0	2	4	6	8	10		
D. The team demonstrated a solid understanding of social and/or cultural issue(s) related to the problem (private property rights, traditions, clean and healthy environment, right to farm, urban issues, cultural issues, environmental justice).	0	2	4	6	8	10		
E. The team presented one viable solution to the problem addressing the resource issue.	0	2	4	6	8	10		
F. The main parts were clearly stated and supported.	0	2	4	6	8	10		
G. Solution in the presentation has potential to be applied or implemented with long term sustainability to natural resources.	0	2	4	6	8	10		
H. Did the solution reflect or address the concerns of all affected groups and issues?	0	2	4	6	8	10		
Part II – Subtotal								



Envirothon NB Judges' Scoring Sheet for Team Presentations

ENVIROTHON NB			Scale for Scoring							
March Arth	Team Number	0 –	Not at all		(6 –	(Good	l	
AND COUNTY	Room Number	2 –	poor or poorly			8 –]	Exce	llent	
Judges Initials		4 –	fair or slightly wel	ll 10 –		10 –	Outstanding			
Part III – Quali	ty of Presentation (40 points	maximum)			(Circl	e sco	re		
A. Presentation v	was well organized with a clea	r introduction and stron	g conclusion.	0	2	4	6	8	10	
B. Participants en exhibited profess	nhanced the presentation (eye sionalism, etc.	contact, gestures, voice	inflection, originality,	0	2	4	6	8	10	
	ere used to make major points ealing, readable, neat, etc.).	and show conclusions.	(Visual aids should be	0	2	4	6	8	10	
D. Questions were	re answered logically and con-	cisely by all team memb	ers participating.	0	2	4	6	8	10	
			Part III – Subtotal							
D 4 DV D		•			C'					
Part IV – Requi	ired Elements (20 points max	amum)			Ci	rcle	scor	е		
_	points for team member partits for equal oral participation is	_	(Each team member	0	2	4	6	8	10	
_	e points if the presentation was ffective use of their time. (Tim	_		0	1	2	3	4	5	
	e points if the presentation acc			0	1	2	3	4	5	
			Part IV – Subtotal							
5 nts : 17-20 m	in 1 nts : 15-16 min	3 nts : 13-14 min	2 nts : 11-12 m	i 10	1	nt ·	0_1) mi	<i>n</i>	

How to prepare

Read the scenario carefully and decide on course of action

Prepare outline and assign tasks to group members

You have **seven** weeks remaining – don't wait until last minute

Know what judges are looking for (scoring sheet)

Have strong introduction and conclusion

PRACTICE
PRACTICE
PRACTICE

Sample Outline

- Introduction (topic and introduction of team members)
- Background (tell judges about the situation)
- Plan (how to address the problem)
- Implementation (what needs to be done)
- Benefits/consequences (society, environment, economy, etc.)
- Conclusion

Other ????



General comments

- You have 20 minutes use it!
- Use cue cards with key words
- Areas of concern when preparing
 - Focus on scenario
 - Forestry, wildlife, aquatics, soils (don't spend too much time with these)
 - Use credible references (according to followed by fact)
 - Political issues (legislation, regulations, municipal, provincial, federal, international)
 - Economic issues
 - Environmental issues are key
- Make sure to PRACTICE



Oral Presentation Rules

Maximum 20 slides (high school); 10 slides (middle school)

Last slide used to list refences used during presentation

Maximum presentation time

20 minutes + 10 minutes questions (high school)

10 minutes + 5 minutes questions (middle school)

Do not identify your team when introducing yourselves

Each student allowed 5 cue cards (standard 3 x 5)

Presentation on memory sticks (2) plus printed copy of presentation must be dropped off at registration

No use of videos or sounds

Can use animation feature in PowerPoint

Words of advice

- Being nervous is OK (use it)
- Best way to avoid nerves is to be prepared
- Speak loudly and clearly
- Be engaged even when not speaking
- Look like a team
- Only use as many slides as you need
- Use images instead of text where possible
- Don't read from slides
- Assume a role (scientist, biologist, politician, engineer, etc.)



Thank you

