## Judges' Scoresheet (2022 KidWind Challenge)

NOTE TO JUDGES: Team presentation/judges' panel is worth 40% of a team's total score. Make sure to leave written comments for #1 - 3. Remember to be constructive - this document will be scanned and sent to the team after the competition. Questions below are intended as talking points for the judges; there will not be sufficient time to go over each question. Each team has a maximum of 15 minutes with the judges (teams are told to provide a brief presentation and allow time for questions from the judges). Total Points will be tallied and checked by a score keeper.

Team name:						Total Points Earned			
						(Scoring of 0-40)			
Divisio	n: 4 <sup>th</sup> -8 <sup>th</sup> 9 <sup>th</sup> -12 <sup>th</sup> (	(circle one)							
1. <u>Ove</u>	rall feedback and comments for	<u>team</u>			L				
2. <u>Wha</u>	at did the team do best?								
3. <u>Wha</u>	at should the team work upon in	nproving the mos	st?						
4. <u>Sco</u>	ring (circle one point value for e	ach category)							
Blades (0-6 points)		0	1	2	3	4	5	6	
•	What was the engineering procest Do the blades appear sturdy? Are How did the team determine: pit Was there a great deal of experis	e blades shaped – cch of blades, # of	airfoils blades,	, length	n, matei	rial, etc	?		
Drivetr	ain (0-6 points)	0	1	2	3	4	5	6	
•	Direct drive, geared or pulley sys Why did they choose the system What materials did they use to co What were the major challenges	they used? onstruct drivetrain							
Innova	tion (0-6 points)	0	1	2	3	4	5	6	
•	How creative were students in co	onstruction and ma	terials	used ir	their t	urbine?	)		

- Did they try a vertical or horizontal axis? Why?
- Did the students use any CAD or 3D printing?
- Is their turbine design different than others? Is it creative while still functional?
- How many design iterations did they talk about?





Independence (0-4 points)		0	1	2	3	4					
•	Do you feel like students did this work themselves?  Do you feel like they applied concepts they learned?  If they did any CAD work or 3D printing, is it clear they did the work and not a coach or parent?										
Overall A	ppearance & Materials (0-4 points)			0	1	2	3	4			
•	What types of materials were used to build the Were they careful not to use any prefabricate Were students precise in their turbine building	d kits?									
Type of P	Presentation (0-4 points)			0	1	2	3	4			
•	What kind of documents did the students share? Was it a short report, engineering notebook, video, or poster? What is your overall feeling about the document or presentation? Was it interesting and organized? Was it creative? Does not have to be – we are more interested in looking for evidence of a PROCESS of learning. Is the statement thoughtful and show evidence of their work?										
Depth, Co	omplexity & Clarity (0-6 points)	0	1	2	3	4	5	6			
•	Did the team show a progression of discovery Did the team provide evidence they made cha		ised o	n resea	arch or	discove	eries?				
Delivery	(prepared or improvised) (0-4 points)			0	1	2	3	4			
•	Was the documentation and/or presentation of Do you feel like the students practiced? Did all students take part in the discussion? Of Do you feel like the students "knew their stuff"	or did on	e stud	dent do			king it (	up?			

## **Additional Comments:**



