

Supplementary Material

1 Supplementary Data

1.1 Qualitative Data on Climate Change Education, by theme

Theme	Key insights	Quotes
Teacher Training	Teachers highlighted that workshops combining theory and practical application increased their confidence and teaching effectiveness.	<p><i>"The training workshops were invaluable; the hands-on experience gave me the confidence to implement what I learned in the classroom."</i></p> <p><i>"I feel more confident when I have not just theoretical knowledge but also practical application to back it up."</i></p>
Institutional Support	Teachers in supportive schools reported motivation to integrate CCE, while those lacking support described diminished enthusiasm.	<p><i>"In our school, the institutional support is strong. We have the motivation to integrate climate change education because the administration backs us up."</i></p> <p><i>"Without institutional support, it's hard to stay motivated. We lack the resources and encouragement to effectively teach CCE."</i></p>
Resource Availability	Rural teachers creatively used local materials but expressed frustration over inadequate resources and unequal distribution.	<p><i>"In rural areas, we have to get creative with what's available, but it's frustrating when the resources we need just aren't there."</i></p> <p><i>"We try to make do with whatever we can find, but it's hard to be effective without proper resources."</i></p>

Theme	Key insights	Quotes
Urban-Rural Disparities	Rural teachers innovated under constraints but faced compounding disadvantages due to isolation and infrastructure gaps.	<p><i>"Rural teachers are innovative, but isolation and the lack of infrastructure make it much harder to deliver effective climate education."</i></p> <p><i>"We come up with creative solutions, but the lack of professional development and infrastructure just keeps compounding the problem."</i></p>
Teacher Knowledge	Teachers with strong knowledge still struggled to implement CCE due to institutional and resource barriers.	<p><i>"I know the content, but the lack of support and resources makes it so much harder to implement what I know."</i></p> <p><i>"Even though I have the knowledge, it's not easy to teach effectively when there are so many barriers like poor resources and little institutional support."</i></p>