

<b>ACADEMIC INSTITUTION</b>	Fleming College	<b>PROJECT NAME</b>	Paddy Waste To Income
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<b>NEED AND AUDIENCE</b>	
<ul style="list-style-type: none"> <li>The Paddy Waste to Income project addresses the problem of air pollution caused by burning paddy waste.</li> <li>Project aims to find a sustainable solution to this problem and help farmers to generate additional income by showing them a better alternative to burning.</li> <li>To reduce carbon emissions, air pollution and increase fertility of soil, the project collects paddy waste from farmers and find buyers for it. This helps to address environmental issues while giving farmers an income boost by using paddy for other purposes such as feeding cattle, protecting crops, and providing bedding in dairy farms.</li> <li>In Punjab and Uttarakhand, there are 80% of small farmers that lack access to a suitable environment for paddy removal.</li> </ul>	
<b>ACTION TAKEN</b>	
<ul style="list-style-type: none"> <li>To find a market for paddy waste, the project team did research, interacted with farmers, and held meetings with possible purchasers.</li> <li>To find potential local partners, who could gather the paddy waste and deliver it to customers, we contacted two local Enactus teams.</li> <li>We were able to sign contracts with 21 farmers from 12 communities in Punjab and Uttarakhand promising to not burn their paddy waste after harvesting. The accumulated rice waste was used in dairy farms as bedding, cattle feed, and crop protection.</li> <li>The team aims to gather more paddy waste, educate more farmers, reduce carbon emissions, and find new distribution routes for their goods. The team discovered via this project that while they could improve the environment and the lives of people, they needed the proper personnel in both India and Canada to succeed.</li> </ul>	
<b>IMPACT</b>	
<ul style="list-style-type: none"> <li>The project diverted 99 tonnes of paddy waste from 99 acres. It directly impacted the lives of those 21 farmers.</li> <li>From 99 tonnes of stubble (from 21 farmers) we helped in reduction of 5.35 tonnes of carbon monoxide (CO), 0.16 tonnes of nitrous oxides (NOx), 143.55 tonnes of carbon dioxide (CO2), 0.94 tonnes of methane (CH4) and 1.98 tonnes of particulate matter in environment.</li> <li>Farmers saved approximately \$16,640 CAD. (Primary data from farmers themselves).</li> <li>Indirect impact on 670 people in 133 households in the nearby farms.</li> </ul> <p><b>Future Projections</b></p> <ul style="list-style-type: none"> <li>Our target is to add 60 more farmers to the trial.</li> <li>This will prevent 410 tonnes of carbon dioxide emissions from being released into the atmosphere due to burning of paddy waste.</li> </ul>	

<b>STANDARD METRICS</b>			
(These metrics are related only to the project presented and represent work done since March 1, 2022)			
Individuals educated on climate action	21	Businesses educated on climate action	21
Litres of water conserved	-	Metric tonnes of waste diverted	99
GHG emissions diverted	150 tonnes	Dollar value of waste diverted in CAD \$	16,640

<b>PROJECT START DATE</b>	2017	<b>IS THIS PROJECT WHOLLY-OWNED AND OPERATED BY THE TEAM?</b>	Yes
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