

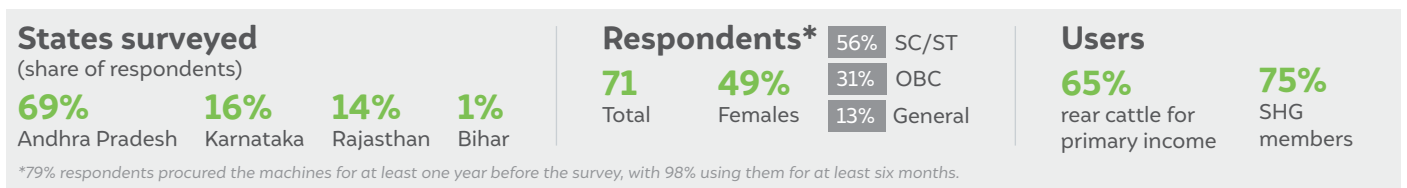
IMPACT OF SOLAR-POWERED VERTICAL FODDER GROW UNITS ON RURAL LIVELIHOODS



Image: Hydrogreens

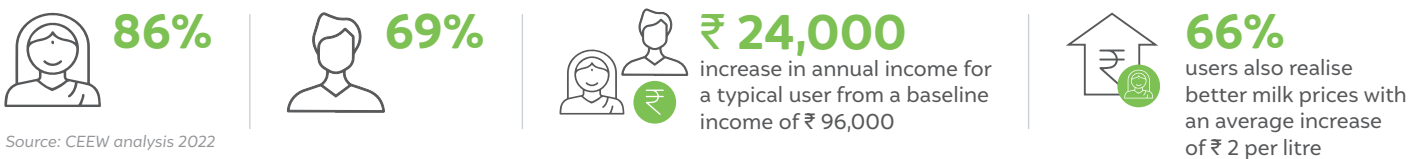
A solar-powered, microclimate-controlled, hydroponics unit enables users to harvest about 25 kgs of fresh green fodder daily with less than a bucket of water. This solution promises an increase in the milk and meat yield of animals, thereby helping animal rearers realise better incomes while reducing the time and drudgery involved in fodder procurement and preparation. Till date, approximately 210 solar-powered vertical fodder grow units have been deployed in India.

The findings below are from a primary survey conducted through in-person and telephone interviews between February - September 2022.



INCOME IMPACT

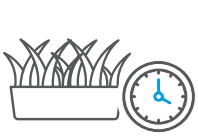
Users experienced income increase



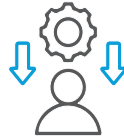
Top five spends of increased income



PRODUCTIVITY IMPACT



69%
users reported a **decrease**
in **time spent** around
fodder collection



71%
of users experienced
a **decrease** in
physical effort



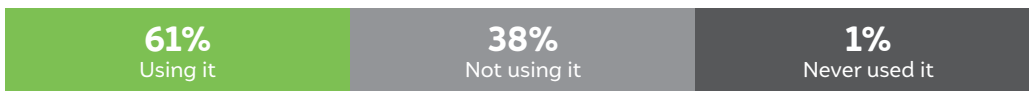
2 hours
a day, average **time**
saved on **feeding**
cattle



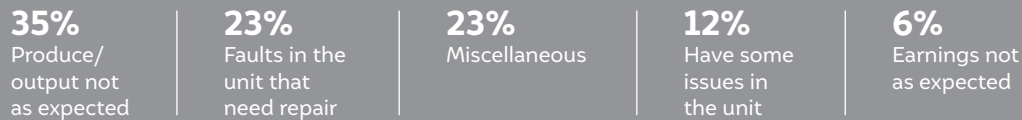
0.7 ltrs
average **increase** in **daily**
milk yield per animal,
with a farmer typically
owning 4 cows

Source: CEEW analysis 2022

Technology usage at the time of survey



Top five reasons for not using it



Source: CEEW analysis 2022



SOCIAL IMPACT

97%
users experienced
increased support from
family members/spouse

91%
users reported
improvement in **confidence**
to **earn and work**

53%
users now have a better ability to
buy assets and save on own

Source: CEEW analysis 2022



IMPACT ON WOMEN

91%
report increased
participation in **public/**
community events

87%
believe they have **better**
agency to take decisions
in family

75%
believe they have the
relevant **knowledge & skills**
to **become self-reliant**

66%
more confident about
using **public/private**
transport on own

Source: CEEW analysis 2022



Image: Hydrogreens

About Powering Livelihoods

Powering Livelihoods, a CEEW-Villgro initiative, mainstreams clean energy-based livelihood solutions. The findings presented here are based on the Programme's interim impact assessment conducted by CEEW.

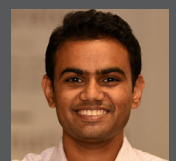
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