Green Economy and Rural Development INDIA

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Finding the ways that work



In FOCUS: INDIA



NSSO 2009-10 Key Indicators of Household Consumer Expenditure, monthly per capita expenditure (MPCE) based on modified mixed reference period (MMRP) 2009-10

Challenges in farming/agriculture in India



Drawing focus to small and marginal farmers...

Avg. monthly income (Rs.) from different sources, consumption expenditure and net investment in productive assets per agricultural HH during July 2012- June 2013 for each size class of land possessed



*Challenges & Opportunities of small farmers in India, International Journal of Academic Research, Vol. 2 Issue 2, April-June 2015

Energy Savings

Food Security

Farming practices that focus on resource use efficiency can deliver-

Profitability

Environmental gains of mitigation & adaptation

Working Model



Farm Testing &

Farmers profiling

tests for Soil (pH,

Various Suppliers driven by demand

Quality inputs and crop scheduling

Quality inputs at affordable price to farmers at right time and scheduling for the season



Crop reminders & Access to information

Through capturing field level data frequently and providing quality extension to farmers



Orchard Description

type and other climatic conditions Access to Market Small growers are linked directly to institutional buyers

Training & field visit by experts

Farm gate training & field visits by scientists for plant protection





DeHaat Model of End to End Services

The Dehaat Model is a **"solutions-oriented approach for a** *smarter, more inclusive, economically* & *food secure nation* & *state*" Dehaat centers are **tech enabled localized centers** run by *micro-entrepreneurs* in a

Sustainable way



Aligning with national interests: Doubling farmer incomes by 2022

THE

India To Ratify Paris Climate Agreement On October 2, Says PM Modi



"We have to find ways to produce more on less land and in less time without any quality

erosion."

Address at the 86th Foundation day of Indian Council of Agricultural Research

THE TIMES OF INDIA

PM Modi calls for 'per drop, more crop'

Govt to prepare roadmap for doubling farmers income by 2022

PTI | Feb 16, 2018, 08.55 PM IST



"These small farms, though operating only on 44 per cent of land under cultivation, are the main providers of food and nutritional security to the nation, but have limited access to technology, inputs, credit, capital and

markets."

THE ECONOMIC TIMES

The key takeaways of these statements is that resource use efficiency is at the core of sustainable agriculture practices, facilitating higher farmer profits and incomes.

Timeline: CSA program milestones





Access to clean cooking

Over 2/3rd of households in rural India still rely on firewood and chips for their cooking needs.

A household biogas unit serving 5-6 members can mitigate 1.5-3 tons of CO2e per year while also:

Reducing Indoor Air Pollution

Improving household health

2

3

4

Freeing up time used to collect firewood

Opening the door for new income opportunities



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Map

Ξ ABP

Satellite

Proposition for government





Access to energy, water & cold storage in Rural India

Only 44% of rural households have access to electricity*

Over **300 million** still don't have access to electricity

160 million people at risk of arsenic/fluoride poisoning from groundwater**

8.25 million tons estimated gap in cold storage space***

*http://www.indianelectricity.com/rural.html, http://timesofindia.indiatimes.com/india/11-lakh-households-have-no-electricity-85-of-rural-India-uses-firewood-asfuel/articleshow/12256306.cms?gclid=Cl3WhNWcrcgCFUQIjgodTuAAHA



***http://www.nccd.gov.in/PDF/CCSG Final%20Report Web.pdf

CSP-550 kW Solar Thermal Plant with Purified Water & Cold Storage



Alignment with Sustainable Development Goals



Alignment with Sustainable Development Goals

Components for change





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