Achieving duality- water saving and food security

Sustainability in Action

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India’s sustainability challenge

We are facing a severe and prolonged water crisis
OUR 2030 COMMITMENTS TO SUSTAINABILITY
Learn more at sustainability.corteva.com

In It For Farmers.
- Provide training to 25 million farmers
- Enrich the lives of 500 million smallholder farmers
- Decrease greenhouse gas emissions while increasing yields

In It For The Land.
- Improve soil health on 30 million hectares
- Advance water stewardship
- Enhance biodiversity on 10 million hectares

In It For Communities.
- Keep employees safe
- Empower women, enable youth, and engage communities
- Volunteer 1 million hours
- Increase supply chain transparency

In It For Our Operations.
- Require sustainability criteria for new products
- Manage our greenhouse gas emissions
- Use only sustainable packaging
- Increase our sites’ sustainability efforts

Approved for External Audiences
Rice – most important crop of the region

- Total cultivation land: 400 M acre
- Gross irrigated area: 206 M acre
- Livelihood: 58%
- Agriculture employed: 50% of work force
- GDP contribution: 18%

- Rice - Staple food for 60% population
- Rice production: 113 M Mt
- 90% rice cultivation: small & marginal farmers
Challenges in current practices of rice cultivation

- **Water**: 6K m³/Acre (excess water & ground water depletion)
- **Labor**: 100 man-hours/acre
- **Green House Gas (GHG) Emission**: 100 kgs/acre
- **Energy losses & carbon footprint**
- **Soil Degradation**: (soil texture, soil composition, hard pan, less ground water recharge)
Direct Seeded Rice - A sustainable solution

Still... not widely adopted

Transplanted rice
- Nursery
- Puddling
- Transplanting

Direct Seeded Rice
- Limited water consumption
- Lower EHG emission
- No soil degradation

Technical / Agronomy Handholding
- Weed management
- Mechanization
- Seed / Germplasm
AcreNext - Next generation rice farming

AcreNext™
Next Generation Rice Farming

Seed
Weed Management Program

Mechanized Sowing Service

Farm Advisory

PEOPLE
Farmers
Farmer Communities

PLANET
Sustainability benefits
water
GHGs emission
soil health

PROFIT
Accelerate Hybridization
Uptake of weed control

Water
720 m³/ acre

GHGs
100 kgs/ acre

Labor
100 man-hours/ acre

AcreNext™ Corteva Agriscience's integrated direct seeded rice solution delivers:

Hybrid rice seeds with better yield
Mechanised sowing services
Highly-efficient weed management
Agronomy Support

AcreNext
Corteva Agriscience
Creating shared value

Agri entrepreneur model – enriching lives of small holder farmers

- **Catering to Business needs** – sowing services and crop advisory

- **Fulfilling social needs** – women farmer employment and socio economic empowerment