

# Solar energy to exploit horticulture potential of rain-fed and dry regions (Pothohar, Thal, KPK)

## Solar Based Production Initiatives

- Potential 5 m.ha across different ecologies
- Target Areas
  - Rainfed areas of Pothwar, Thal, Kohat, FATA etc,

## Why Solar Based Irrigation System

- Energy scarcity
- High cost of energy
- No development cost
- Clean source of energy
- No recurring cost

## Issues/challenges

- New technology
- Limited service providers
- Lack of Technical assistance
- Accountability of service provider
- High initial cost
- Education of farmers on cropping pattern
- Absorption of technology issues

## Implementation Strategy

- Code of conduct/quality standards for service providers
- Representative model farms
- Cluster demonstration
- Linking solar system with HEIS
- Developing cadre of service providers (designing, layout, and repair)
- Access to production technologies and market linkages
- Credit and subsidies

## Benefits

- High productivity
- Efficient land and water usage
- High returns with low energy cost
- Employment generation
- Livelihood improvement
- Uplifting of village economy

