

## Few nexus – climate policy matters

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# FEW NEXUS – CLIMATE POLICY MATTERS

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# REMEMBERING DR ABDUL KALAM

My message to young people is to have the courage to think differently, courage to invent, to travel the unexplored path, discover the impossible and to conquer the problems and succeed. These are great qualities that they must work towards.



# Nine Boundaries

- Climate change
- Biodiversity loss
- Unstable nitrogen and phosphorous cycles
- Ozone depletion
- Ocean acidification
- Global fresh water usage
- Change in land usage
- Chemical pollution and
- Atmospheric aerosol loading.



Johan Rockstrom  
Nature Sept 2009

# CLIMATE EMERGENCY

Atmospheric CO<sub>2</sub>e in ppm

- Start of Industrial Revolution 280
- Current concentration 400
- CH<sub>4</sub> and NO<sub>x</sub> in CO<sub>2</sub>e 80
- Desired level 300

# WHERE DOES INDIA STAND?

- INEQUITABLE DEVELOPMENT
- OVEREXPLOITING RESOURCES
- FOOD, ENERGY AND WATER SECURITY FOR POOR
- CLIMATE CHANGE IS AGGRAVATING THE CRISIS BEYOND RESELIENCE

**FARMERS IN NORTH WILL BURN GRAIN STALK**

# OCEANS ARE VALUABLE

- OCEAN CURRENTS DISSIPATE HEAT
- ABSORB 25% CO<sub>2</sub> EMISSIONS
- REGULATE WEATHER
- POTENTIAL FOR ADEQUATE ENERGY WATER & FOOD

*CAN NCCSD ANNOUNCE FELLOWSHIPS?*

# TIPPING POINTS

- SEA LEVEL
- POLLUTION
- ACDIFICATION
- CARBON SINK
- MARINE LIFE
- INTERDEPENDENCE

**MORE EDUCATION, RESEARCH & DEVELOPMENT  
TO CLOSE THE KNOWLEDGE GAP**

# ISSUES FOR SOUTH ASIAN REGION

- FOCUS ON SMALL AND MARGINAL FARMERS
- IMPROVED FOOD GRAIN STORAGE
- VALUE ADD AT FARM, RECYCLE KERNEL, SKIN, WATER AND SAVE TRANSPORT COST
- EMISSION REDUCTION FROM LIVESTOCK

**REGIONAL COOPERATION IN RESEARCH**



# WHAT SHOULD WE DO?

- TECHNOLOGY- TO INCREASE PRODUCTIVITY
- RESEARCH- TO REUSE WASTE
- DEVELOPEMENTAL ECONOMICS- FOR INCENTIVES AND DISINCENTIVES
- EDUCATION- FOR CAPACITY BUILDING
- MASS COMMUNICATION- FOR SUSTAINABLE LIFESTYLES

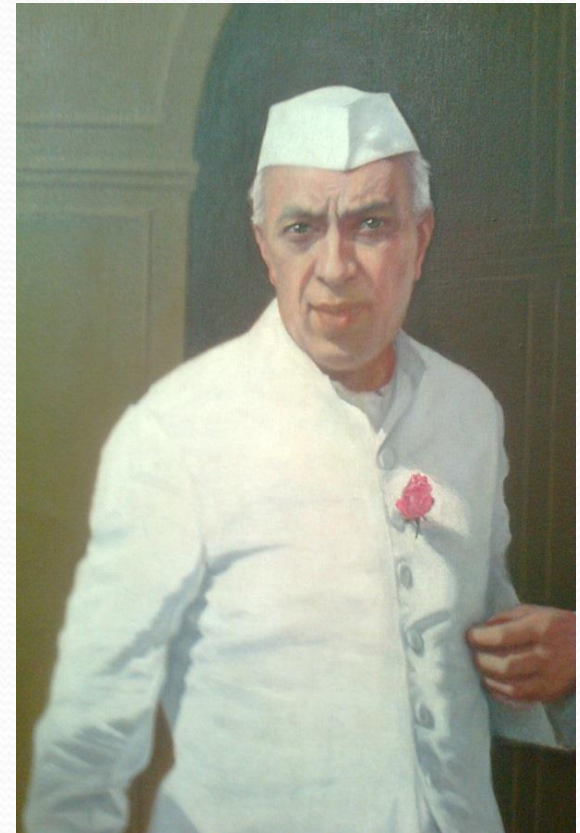
**LARGER HAND PRINT - SMALLER FOOT PRINT**


# IMPROVE QUALITY OF LIFE OF SMALL FARMER AND ARTISANS

- ENERGY AUDIT OF UNIT PROCESSES AND IMPROVE EARNINGS
- ENSURE HIGHER RETRUN ON PRODUCE
- INTRODUCE BIODYNAMIC FARMING
- RETROFIT EFFICIENT PUMPS AND MACHINERY
- REDUCE INCENTIVES ON ENERGY CONSUMPTION

# FOCUS IN COMMERCIAL ENERGY

- EFFICIENT GENERATION – HYDRO, THERMAL, NUCLEAR AND RENEWABLE SOURCES
- EFFECTIVE COAL WASHERIES AND ASH DISPOSAL
- INDUSTRIAL PARKS NEAR ENERGY SOURCE
- REDUCE TRANSMISSION, DISTRIBUTION & CONSUMPTION LOSSES
- REDUCE SUBSIDIES ON INEFFICIENCIES





QUESTIONS AND DISCUSSION  
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GRATEFUL FOR YOUR ATTENTION!