

Host Utilities



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ORGANIZER



India SMART UTILITY Week 2024

Supporting Ministries



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MINISTRY OF POWER
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समन्वय जयते
MINISTRY OF POWER
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CENTRAL ELECTRICITY AUTHORITY

Session : SHARING ASSETS WATER & ENERGY

Presented By

TANIA SOLE, BLUEDESAL



isuw@isuw.in



www.isuw.in



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- IN THE UNITED STATES TWENTY FIVE PERCENT OF THE COUNTRY'S ELECTRICITY CONSUMPTION GOES TO MOVING AND TREATING WATER (CALIFORNIA ENERGY COMMISSION)
- AS INDIA IMPROVES ITS NUMBER OF HOURS OF WATER SERVICE PER LOCALITY - INDIA DOES NOT WANT TO END UP IN THE SAME SITUATION AS THE USA -

- WATER -

- IT IS NOT JUST FOR HUMANS
- FLORA, FAUNA AND THE ENVIRONMENT
- IN CALIFORNIA WHEN THE ECOSYSTEM IS DEPLETED OF WATER OTHER ISSUES ARISE:
 - NO WATER IN RIVERS => NO FISH => UPSTREAM FLORA. AND FAUNA IMPACTS
 - NO WATER IN GROUND AQUIFERS => LAND SUBSIDENCE

- ENERGY REQUIREMENTS OF WATER
 - PRODUCED WATER COSTS – POLLUTION/CONTAMINATION ELIMINATION AND CONTROL
 - IF CENTRALIZED – DISTRIBUTION COSTS OF PUMPING AND INTERMITTENT USE OF DISTRIBUTION PIPELINES



- WATER USES AND VARYING QUALITY
 - AGRICULTURE
 - HUMAN POTABLE
 - MEDICAL USES
 - SILICON PRODUCTION



- INCREASING NEED FOR WATER AND WATER STORAGE FOR HUMANS DUE TO:
 - POPULATION GROWTH – CONCERNS
 - DROUGHTS AND CLIMATE CHANGE LEADING TO LOSS OF SNOW STORAGE AND OTHER STORAGE SYSTEMS DUE TO EVAPORATION AND MELTING



- ACCOUNTING FOR MACRO SYSTEM GRIDS VS. MICRO GRIDS IN OVERALL SYSTEM NUMBERS
- ACCOUNTING FOR PRICING ISSUES IN WATER MARKETS
 - EXAMPLE – CALIFORNIA
 - INCENTIVIZING SAVING WATER WITH PRICING (TRAGEDY OF THE COMMONS WITH FREE WATER)
 - TIERED PRICING BASED ON POPULATION??



- SMALL MODULAR DISTRIBUTED SOLUTIONS ARE THE FUTURE
- FAIR AND EQUITABLE TIERED PRICING IS FOUNDATIONAL

THANK-YOU

For discussions/suggestions/queries email:

TANIA SOLE

TSOLE@BLUEDESAL.COM

www.BLUEDESAL.COM

HTTPS://WWW.LINKEDIN.COM/IN/TANIASOLE