



**Asia Clean Energy Forum 2016 @ the Asian Development Bank**

**Session 24: Food, Water, and Energy Nexus: Perspectives from Asia**

**Title: W.W.E\_Own → We Own**

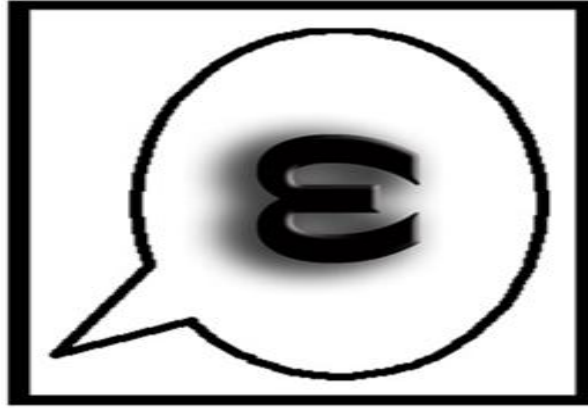
**10 June 2016, Salil K Sen**

Water

. Waste

. Energy

Ownership



W.W.E\_Own =  
We\_Own



### Transition to Decarbonisation:

>> W.W.E\_Own Value  
proposition:  
# motivated to limit  
Consumption -  
Contamination - Coal



### Complement rather than duplicate:

>> W.W.E\_Own:  
# Policy-makers + Processors  
+ Service providers +  
Community  
*# blended and aligned*



### Coherent policy that empowers Decentralization:

>> W.W.E\_Own:  
# Ethics-of- water-waste-energy  
# spurs self-governance  
# Overarching "*feel-positive*"  
leadership



Debris/Waste on Water



Lifestyle generated Waste

# Barriers to implementation of Sustainable Development Goals::



Carbon-laden Energy Waste



Attitude to usage:

# Impacts: on health # Need for infrastructure



Sall, PhD, the Practice of Sustainability

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For Sustainability, we need:  
Ownership with an emphasis on  
WE ~ W.W.E

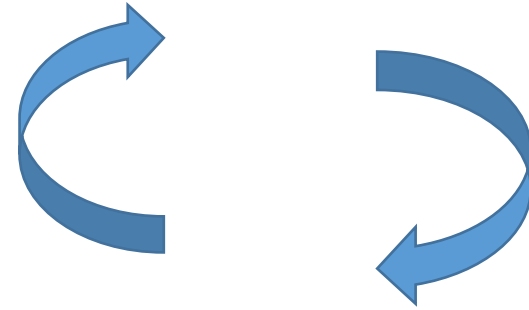


# Food, Water, Energy **NEXUS** vis-à-vis Water, Waste, Energy **Ownership**?

Water - Energy - Food are all positive-aspirational **unidirectional** vectors



For any cycle to be sustainable,  
there has to be **bi-directional** vectors  
(Water, Energy) and one negative (Waste) vector



The W.W.E underscores the **spirit of ownership**

# How **W.W.E\_Ownership** enhances

## Implementability of “**Clusters**” of Sustainable Development Goals:

**#a): W.W.E threshold cluster:**  
zero W.W.E poverty (SDG1); null hunger (SDG2):

**#b): W.W.E entrepreneurship cluster:**  
quality of life (SDG3); education-for-enhancing-employability (SDG4); workplace ethics & self-esteem (SDG8):

**#c): W.W.E ethics for sustainability cluster:**

(i) ethics for sustainability cluster: gender equity (SDG5);

**#d): W.W.E ethics for sustainability cluster:**

(i) ethics for sustainability cluster: gender equity (SDG5);

(ii) bridge inequality  
(SDG10); ethics and sustainability for governance (SDG16);

(d) minus carbon' cluster: water segments sanitare process potable

waste ~ water ~ energy equilibrium limits footprint

Case instance:

Cobrador Solar: 55 m/s wind speed resilience (typhoon proof), tariff 0.67 \$ falling,

Enhances entrepreneurship (fishing, marble processing, education, health...)

plough-back water, energy, waste utilization savings to maintain and sustain

And numerous others.....



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