

# Round Table Discussion

## **Solar Thermal Energy**

**Moderator**

**Yogi Goswami**

**Clean Energy Research Center**

**University of South Florida**

# NEEDS:

## Energy, Water and Food

- Solar heating
- Solar Cooling
- Concentrated solar power (CSP)
- Co-location of Solar + Conventional Power Plants
- Thermal Storage

# Recommendation for SUS Proposal

- Combined power and fresh water production system including energy storage
  1. Solar/Desalination/Storage system stand alone
  2. Solar integrated with conventional system
  3. Water desalination useful by products  
Chloride (50%), Sodium (30%), Sulphate (7%), etc.

By products can be used for PCM thermal storage, as commodity materials, etc.

# Benefits to the State of Florida

- Use of local resources (reduction of fossil fuels)
- Decrease environmental pollution
- Mitigate the problem of water shortage
- Sustainable
- New industry and jobs

**Thank You**