

GOD

Proposed



NALSUN – BRINGING SOLAR ENERGY

CLOSER TO YOU

- *India – Tropical Country – 4.5-6KWh/m² energy/day (280 clear days)*
- *Solar Thermal Application – Highly efficient conversion – water heating*
- *Requires Absorber – With high absorptance (α) (>95%)*
– *With low emittance (ϵ) (< 20%).*

TECHNOLOGY AVAILABLE FOR COMMERCIALIZATION

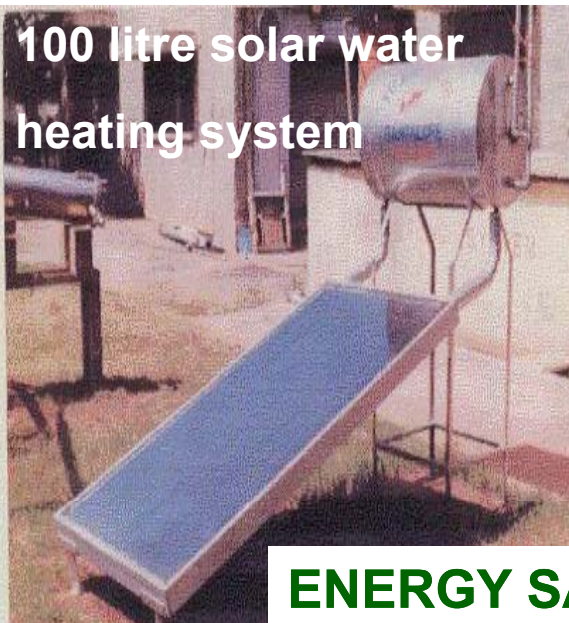


NALSUN salient features

- ✦ *Cost-effective Electrodeposited Black Chrome Coating.*
- ✦ *Nanometric optical composite coating*
- ✦ *Meets optical properties (α & ϵ)*
- ✦ *Good covering power*
- ✦ *No nickel undercoat on copper*
- ✦ *Room temperature plating ($\approx 30^\circ\text{C}$).*
- ✦ *Normal current densities (≈ 10 to 30 A/dm^2).*
- ✦ *Less Refrigeration load.*
- ✦ *Service life more than 20 years.*
- ✦ *Widely patented (India, Australia, Canada, Europe, U.S.A).*
- ✦ *Commercially successful technology.*
- ✦ *Know-how transferred to many entrepreneurs.*
- ✦ *Modified to get black chrome alloys with improved thermal stability (Indian Patent).*
- ✦ *Thermally stabilized coating with improved thermal stability & solar selectivity (α/ϵ) - Indian Patent*
- ✦ *Useful for decorative and anti-glare applications.*



100 litre solar water heating system



1.2 lakh litre per day system at M/s Godavari Fertilizers, Kakinada



ENERGY SAVED IS ENERGY GENERATED

ENERGY SAVINGS \approx VIRTUAL POWER STATION

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