

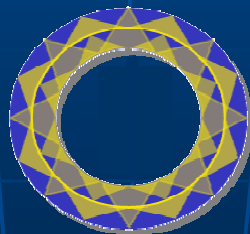
Solar Institute

Energy & Emission Science

Guiding Market Reform Facts/Brief

Solar Institute

Energy & Emissions Market Reform For All Industry Sectors



Top 'Manufacturer' Choice

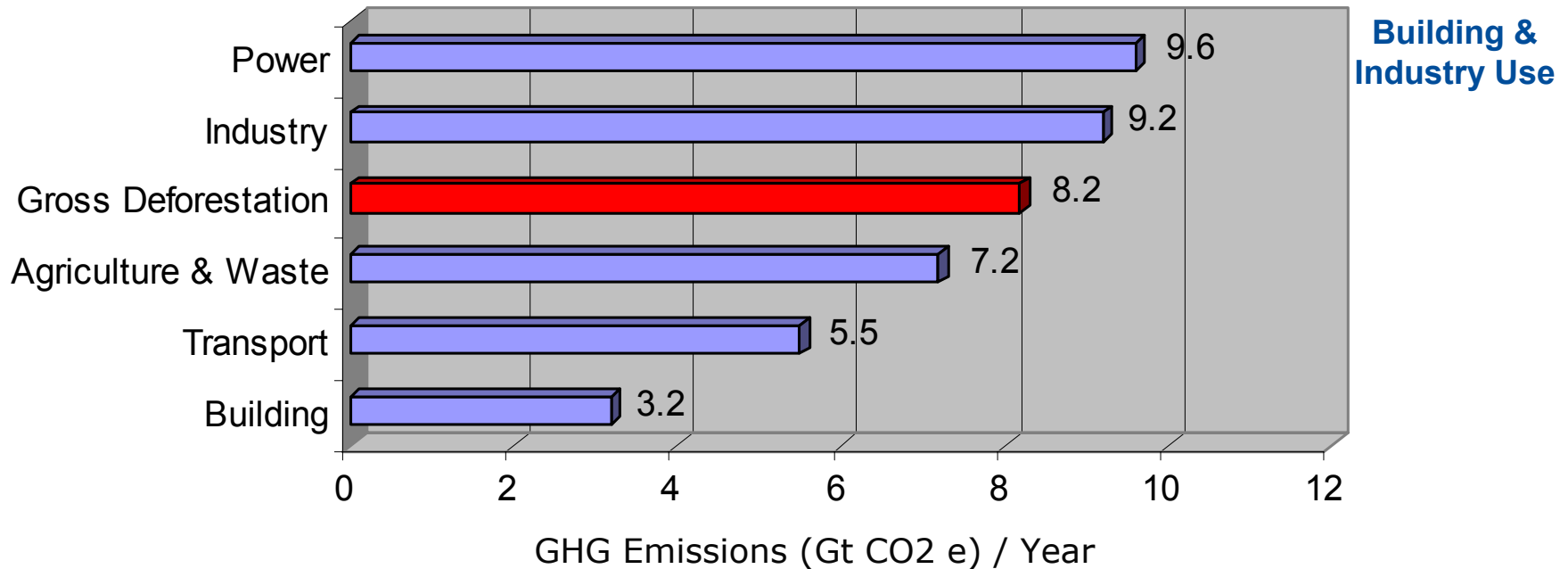
Global Greenhouse Gas Emissions

Major Detrimental Factors & Most Effective Abatement Activities

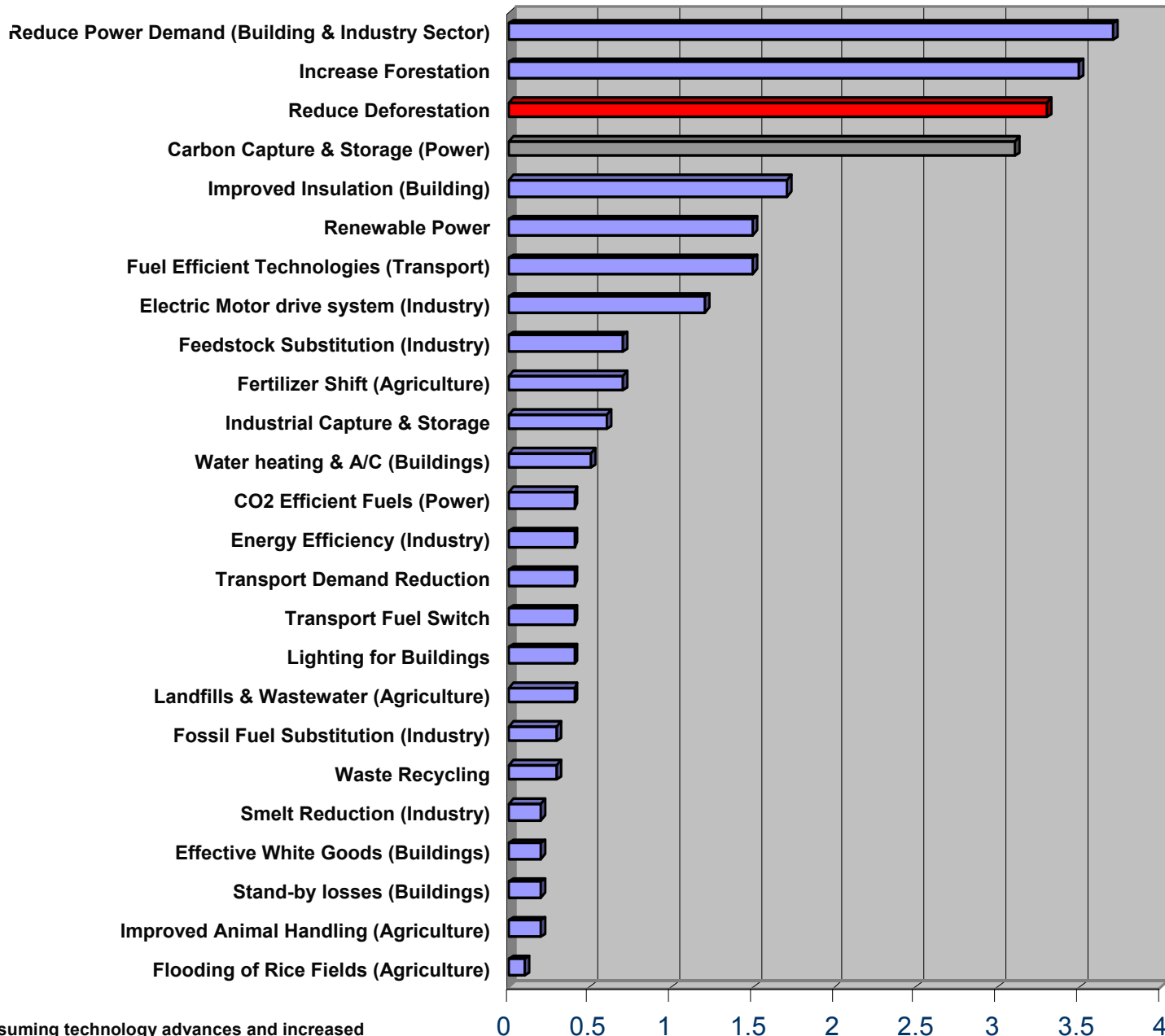
1. Timber – Use Alternative Materials
2. Buildings – Modify to Save Energy
3. Transport – Minimize Travel Distance
(use local supplies)

Global Greenhouse Gas Emissions

Total: 42.9 Gt CO₂ e / Year



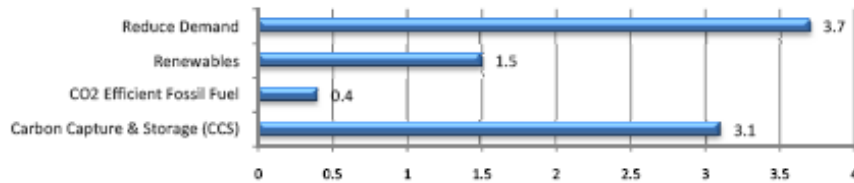
GHG Reduction Potential (Gt CO₂e)



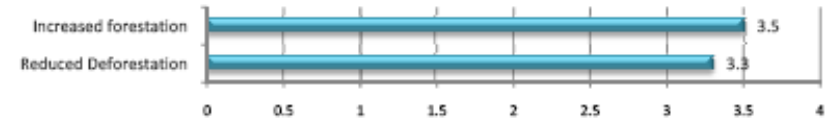
Assuming technology advances and increased legislation by 2030 (Vattenfall 2007)

Emission Reduction Potential (Gt CO₂e)

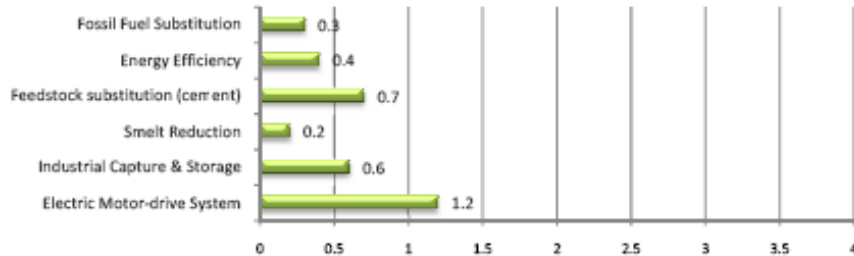
POWER - Abatement Potential (Gt CO₂e)



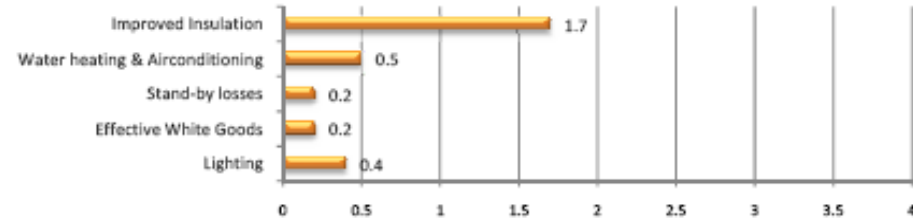
FORESTRY - Abatement Potential (Gt CO₂e)



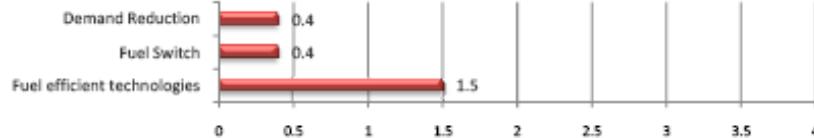
INDUSTRY - Abatement Potential (Gt CO₂e)



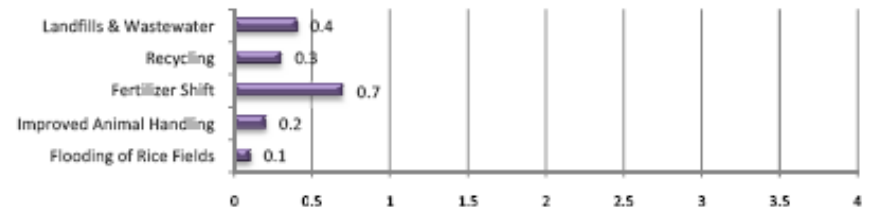
BUILDINGS - Abatement Potential (Gt CO₂e)



TRANSPORT - Abatement Potential (Gt CO₂e)



AGRICULTURE & WASTE - Abatement Potential (Gt CO₂e)

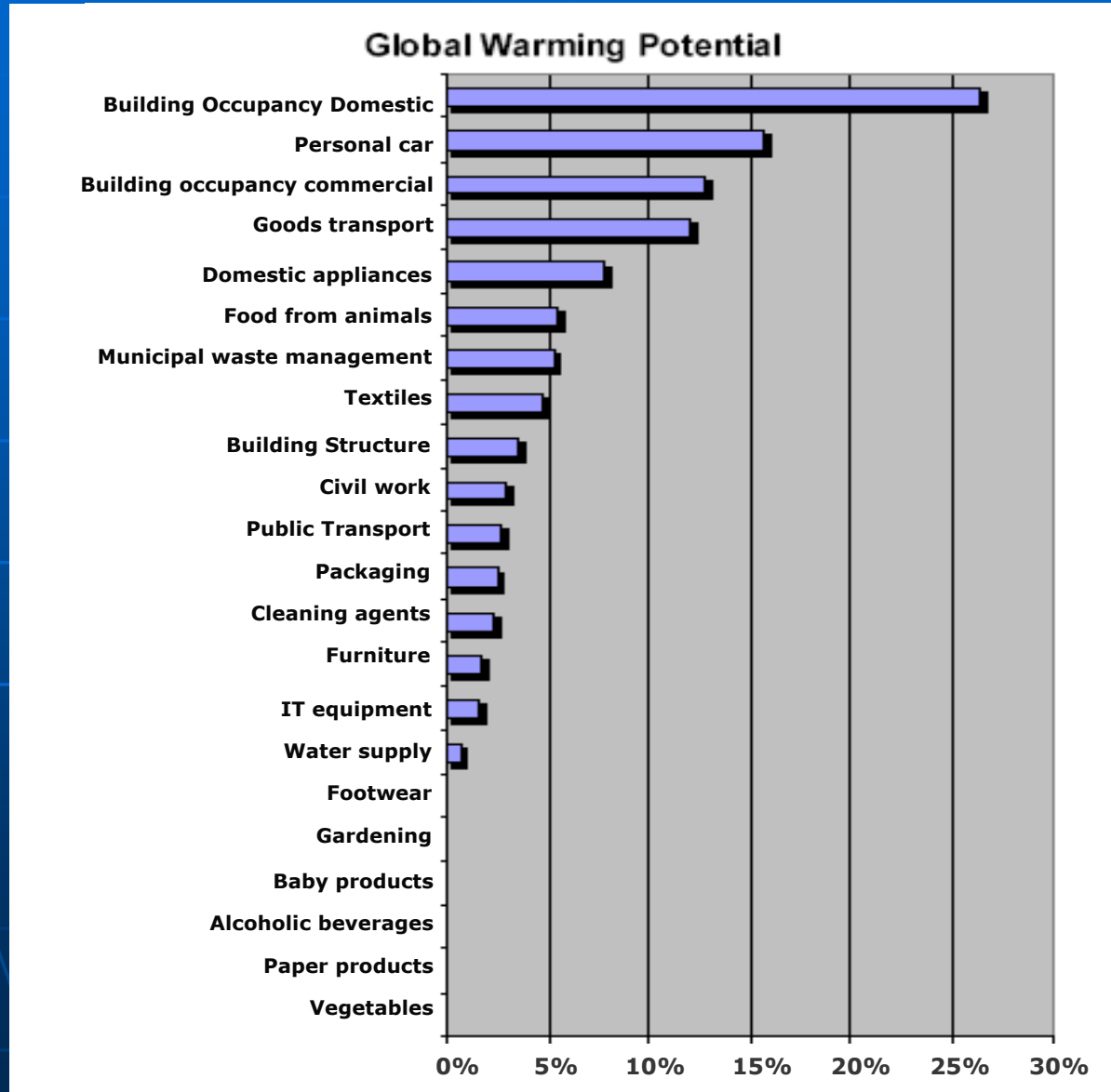


Annual Abatement Potential (Total 27 Gt CO₂ e) by 2030, to prevent >2 degree temperature rise; need to limit 2030 GHG Emissions to 31 Billion tonne / yr (Vattenfall 2007).

Carbon Abatement Potentials Clarified

	<u>Emission Reduction</u>
If 20% of All Power is Renewable Energy	= 1.5 Gt CO ₂ e/yr
Reduce Deforestation	= 3.3 Gt CO ₂ e/yr
Increase Forestation	= 3.5 Gt CO ₂ e/yr

Product & Services Impact (LCA)



Procurement Market (Australia)

- Retail & Wholesale Revenue: \$650 Billion/yr
- Procurement Reform of 1.7%: \$10 Billion/yr
- Retail Revenue: \$292.3 Billion/yr
- Wholesale Revenue: \$354.2 Billion/yr

Market Reform Required

For the Procurement of Top Efficient Product Options In All Industry Categories

Recommended by:

- * UK Government Procurement Action Plan
- * European Union No. 1 Action Requirement for Climate Change

Procurement Reform of Efficient Products

There is a Great Need for Market Reform in Procurement of Better Products for Climate Change Action

(British Council 2009, EU Action Plan 2006)

SI says:

“Unfortunately – No comprehensive protocol, assessment or annunciation to Markets of products/ion efficiency for all industries is in place yet.

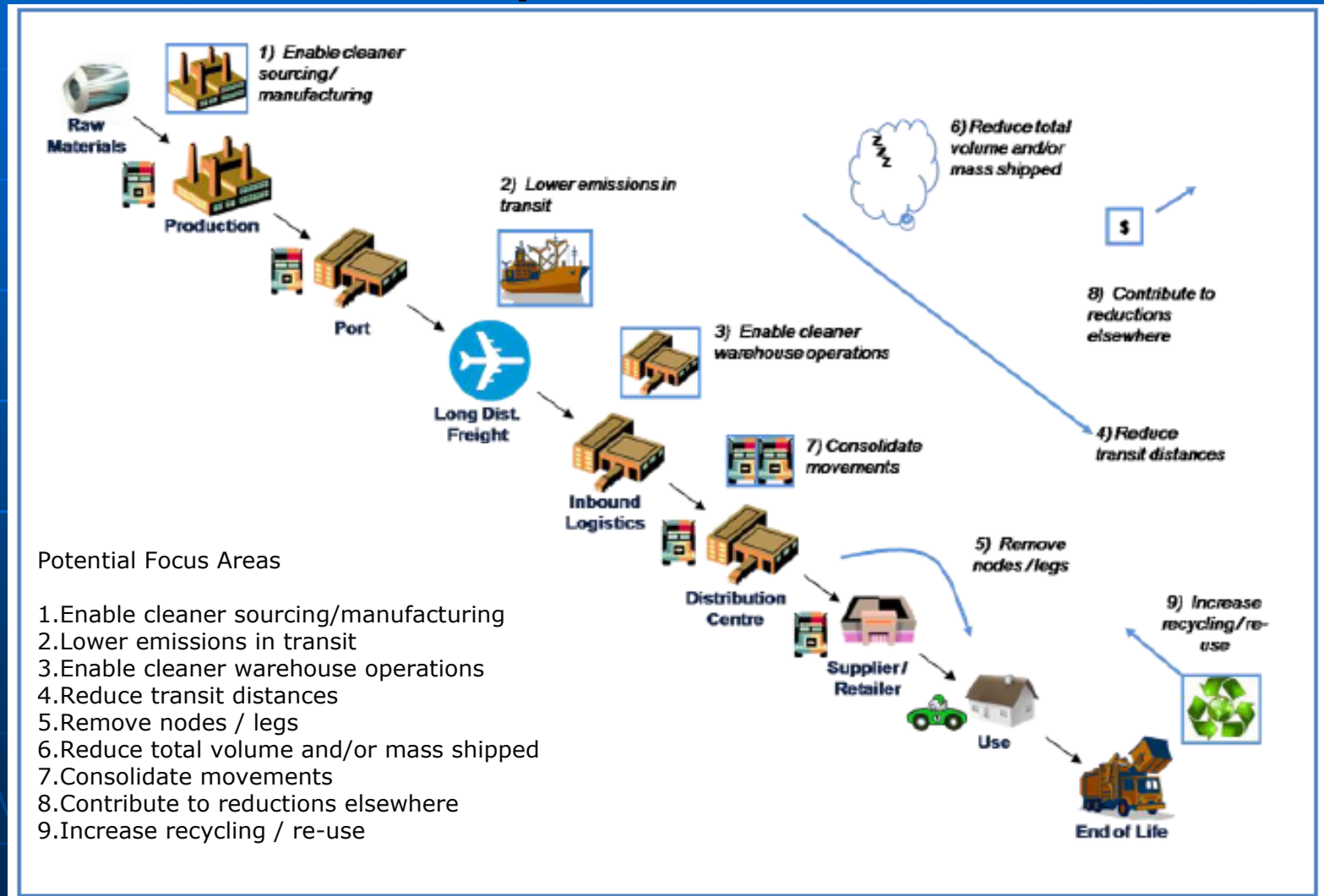
Only SI has the advanced and expedient local and global action plan to join suppliers to buyers.”

Solar Institute Functions

- Product Life Cycle Assessment / Review
- Labels
- Web Suppliers
- Local & Global Market Promotions
- Local & Global Sales

SI Life Cycle Assessment & Labels

Simple & Formal

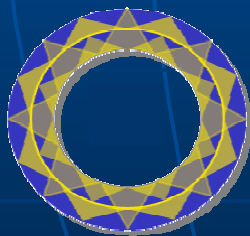


SI Labels & Web

Local and Global Sales

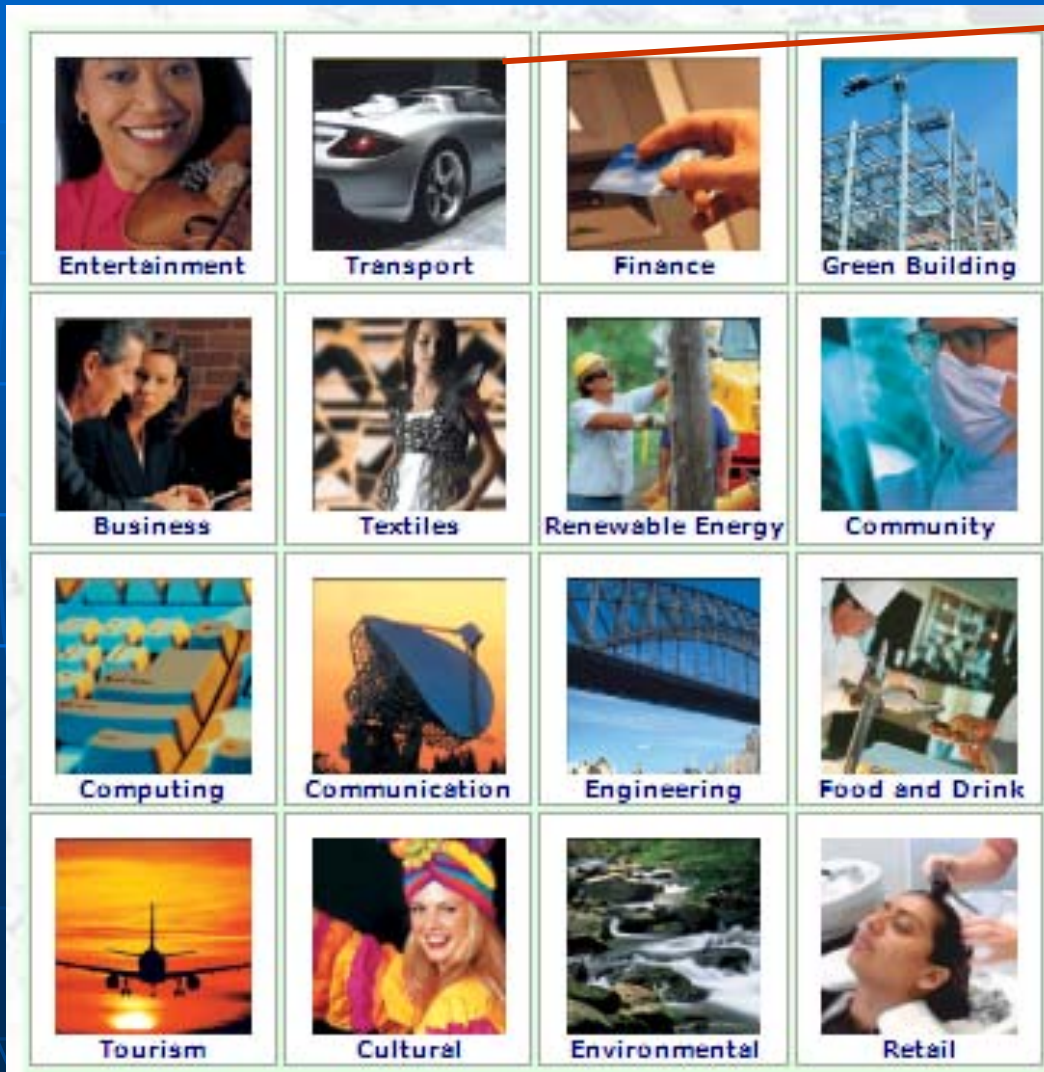


SI Product Procurement Guide



Top 'Manufacturer' Choice

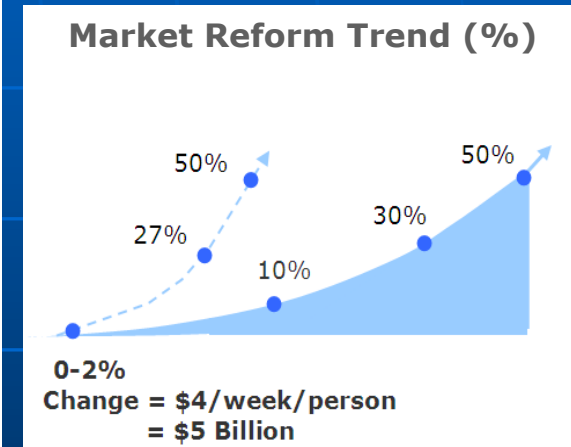
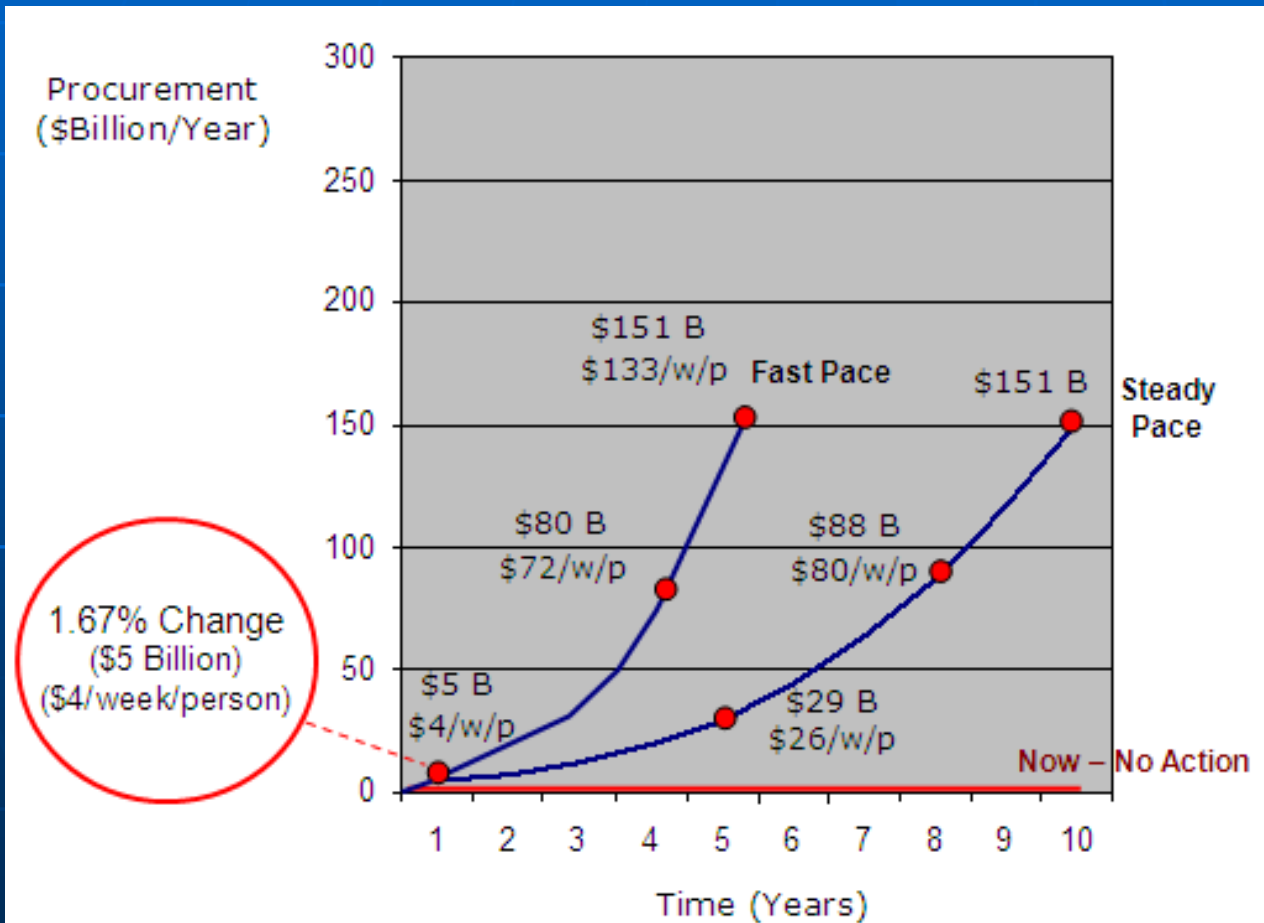
Building the SI Procurement Guide



Example: Toyota Prius

SI Participation Now

For Fast Change to Consumption Trends



Market Reform a Reality

Become SI Supplier & Buyer

Email: **join@solarinstitutelcaceo.com**

OR

Register Online **(Via SI Store Registration)**