



# Demystifying Sustainability

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# Pembina Institute

“To advance sustainable energy solutions through research, education, consulting and advocacy.”

# History of Sustainable Development

- 1972 - Declaration of the United Nations Conference on the Human Environment is adopted in Stockholm
- 1987 - Our Common Future published  
Brundtland Commission
- 1992 - United Nations Conference on Environment and Development (Earth Summit) is held in Rio de Janeiro.
- 2002 - World Summit for Sustainable Development is held in Johannesburg



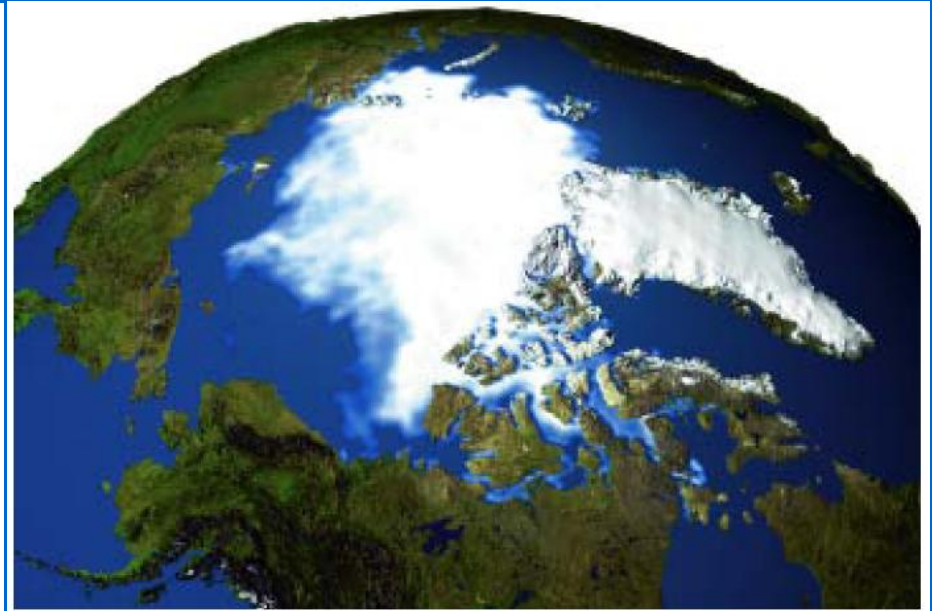
What is Sustainability?



# Observed sea-ice, September

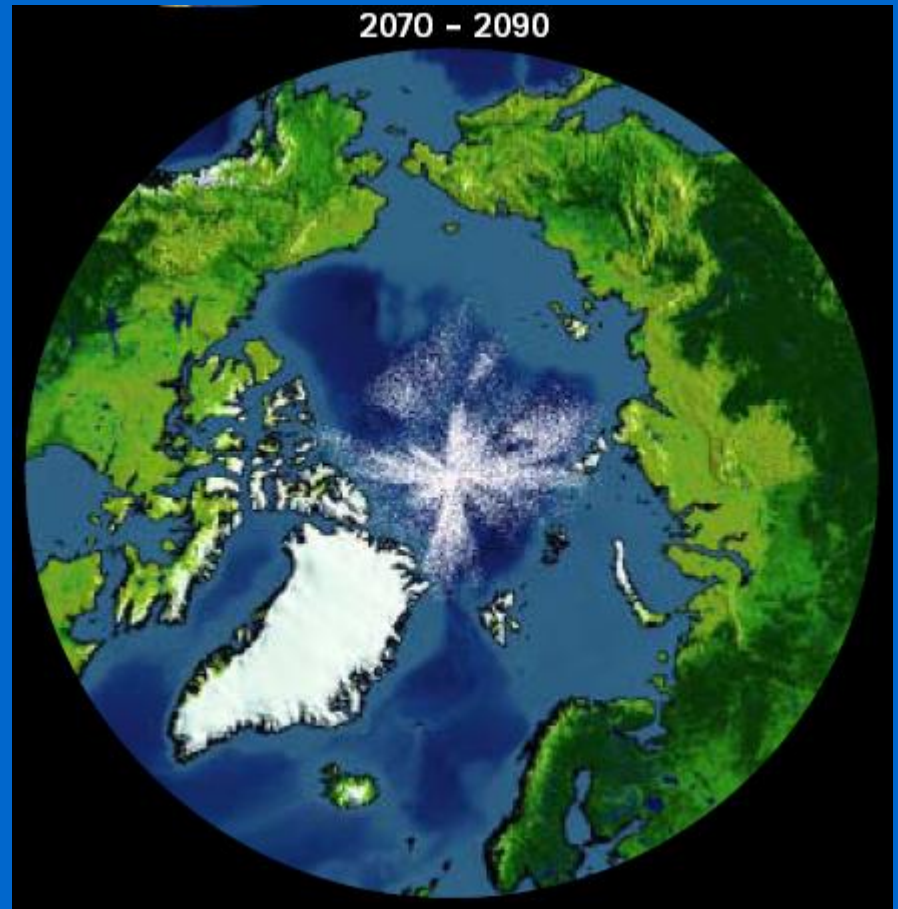
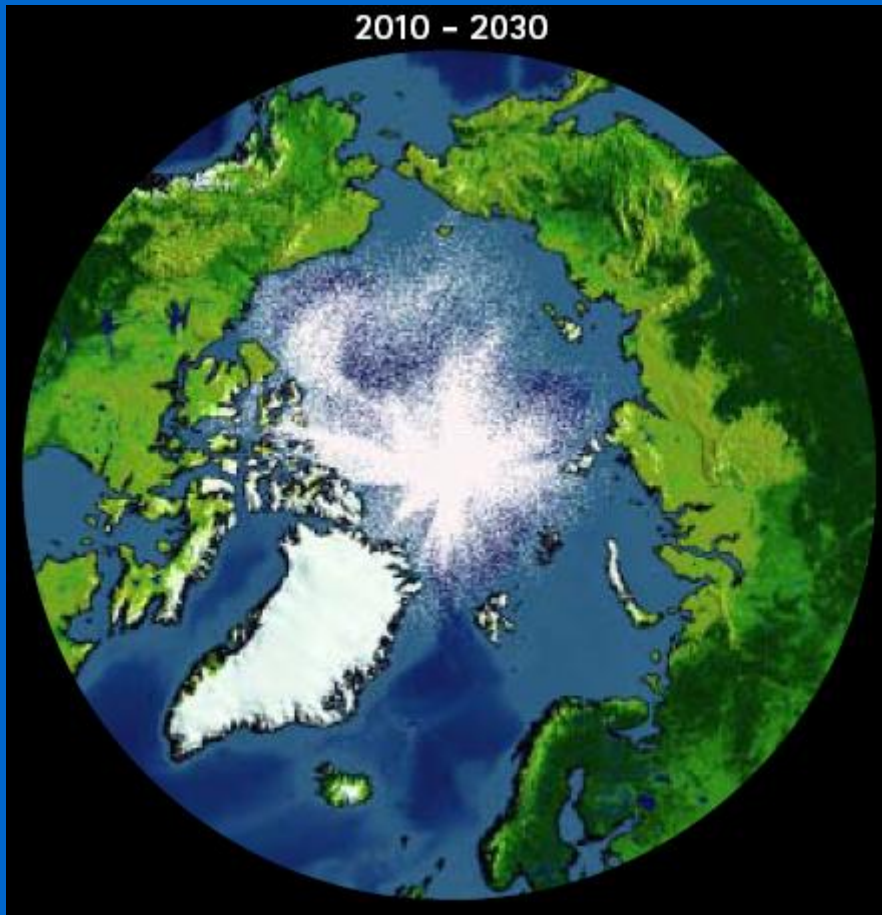


1979

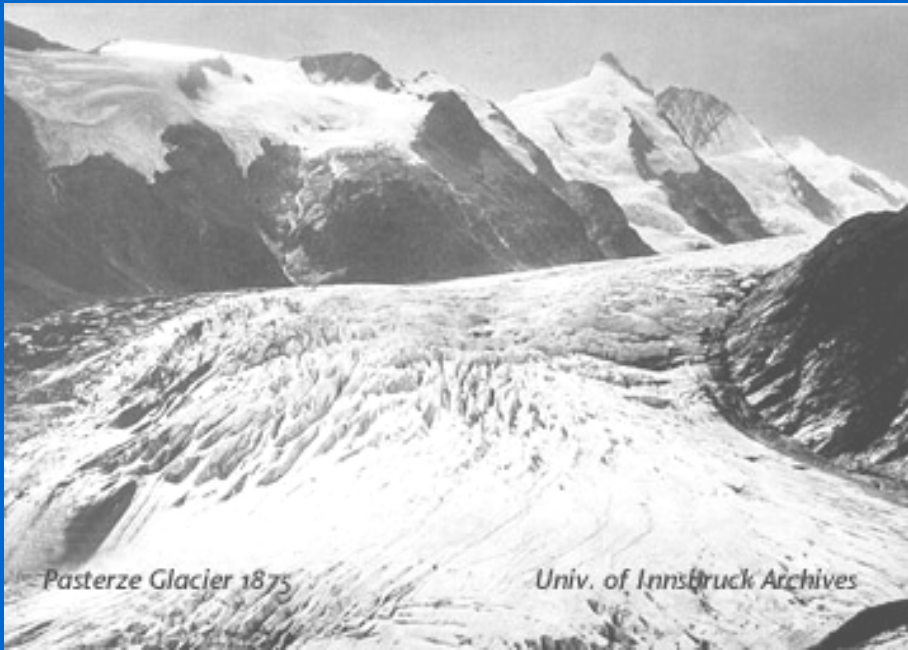


2003

# September sea-ice, 5-model average, moderate warming scenario



# Pasterze Glacier, Austria

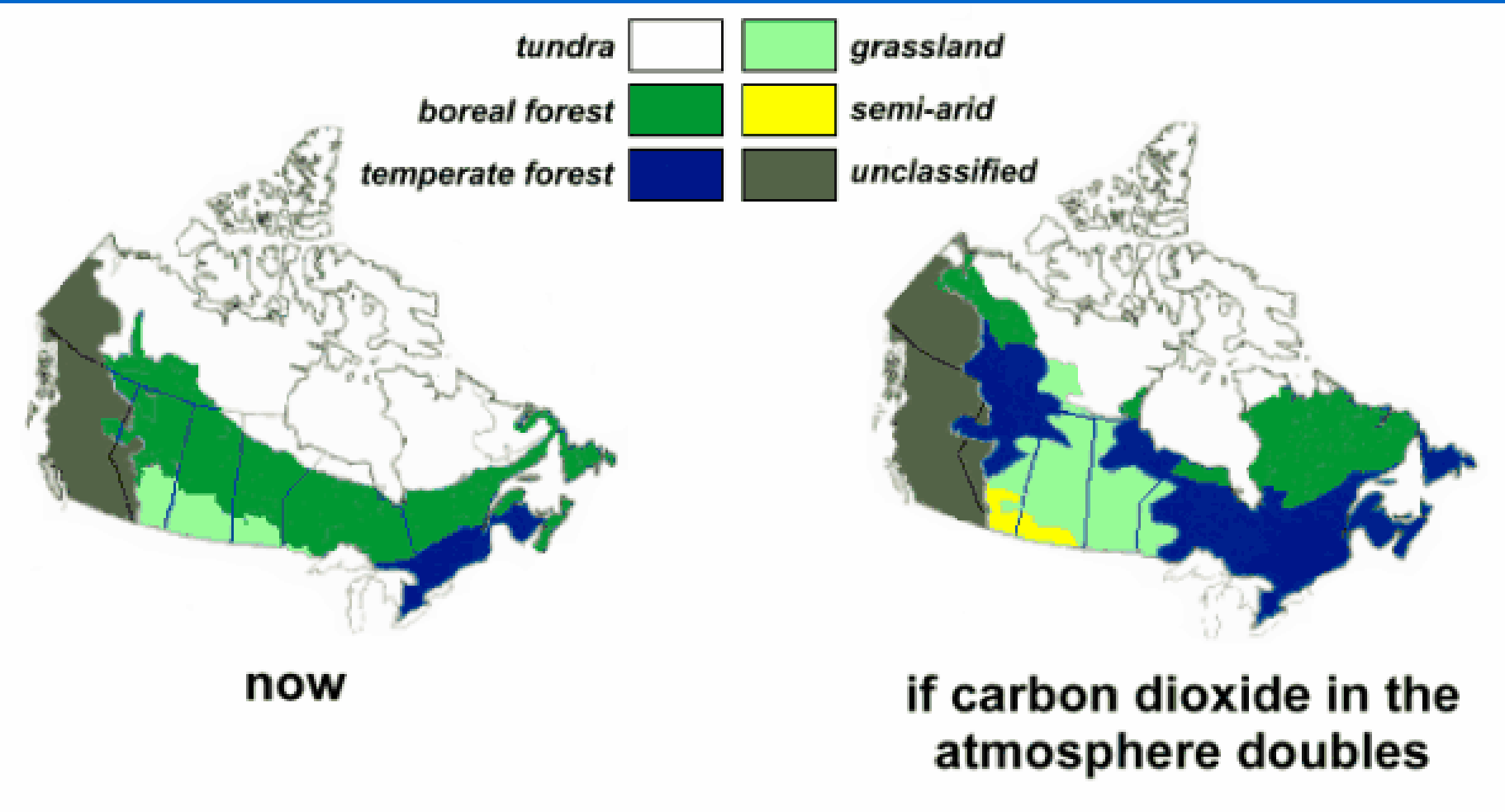


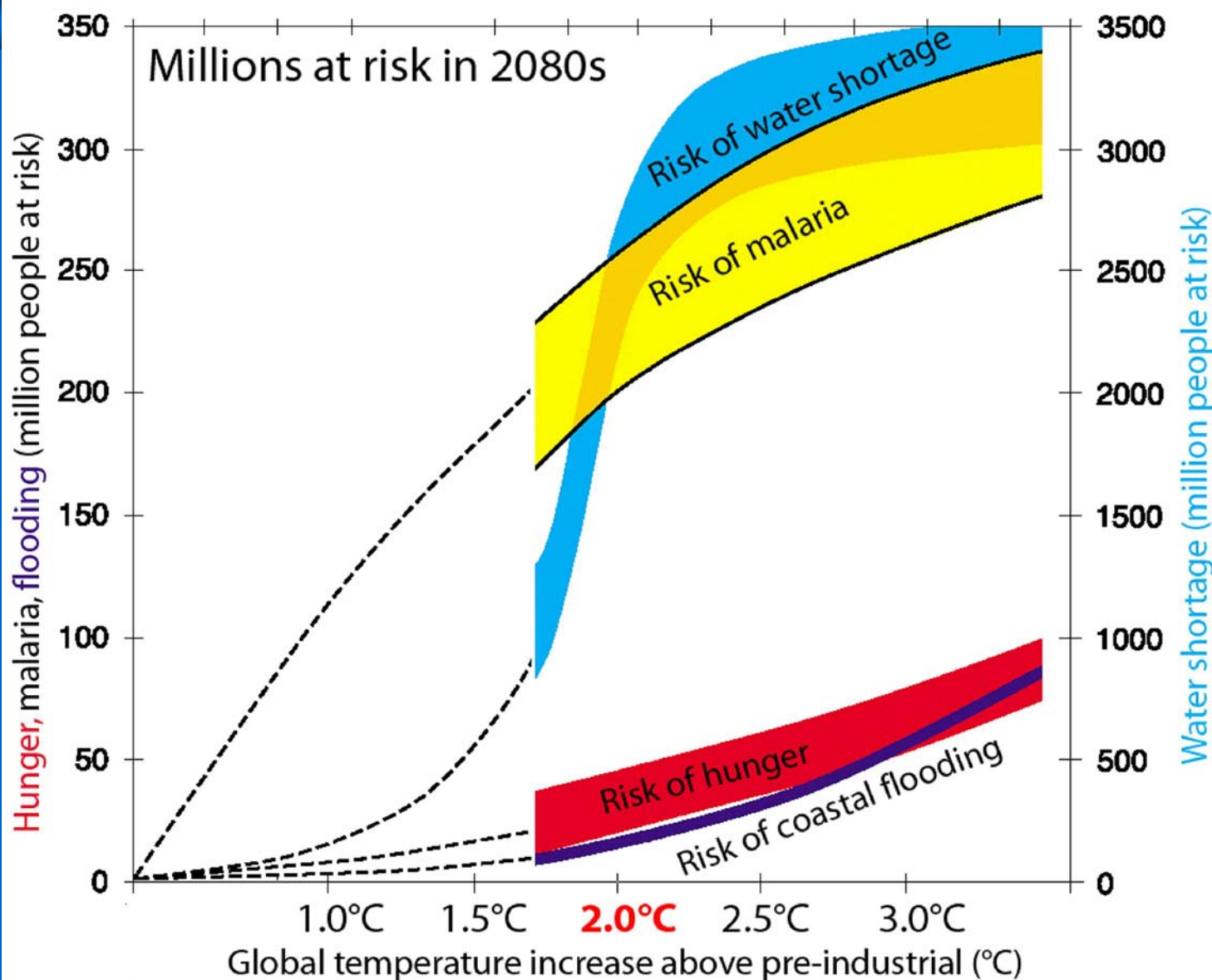
1875



2004





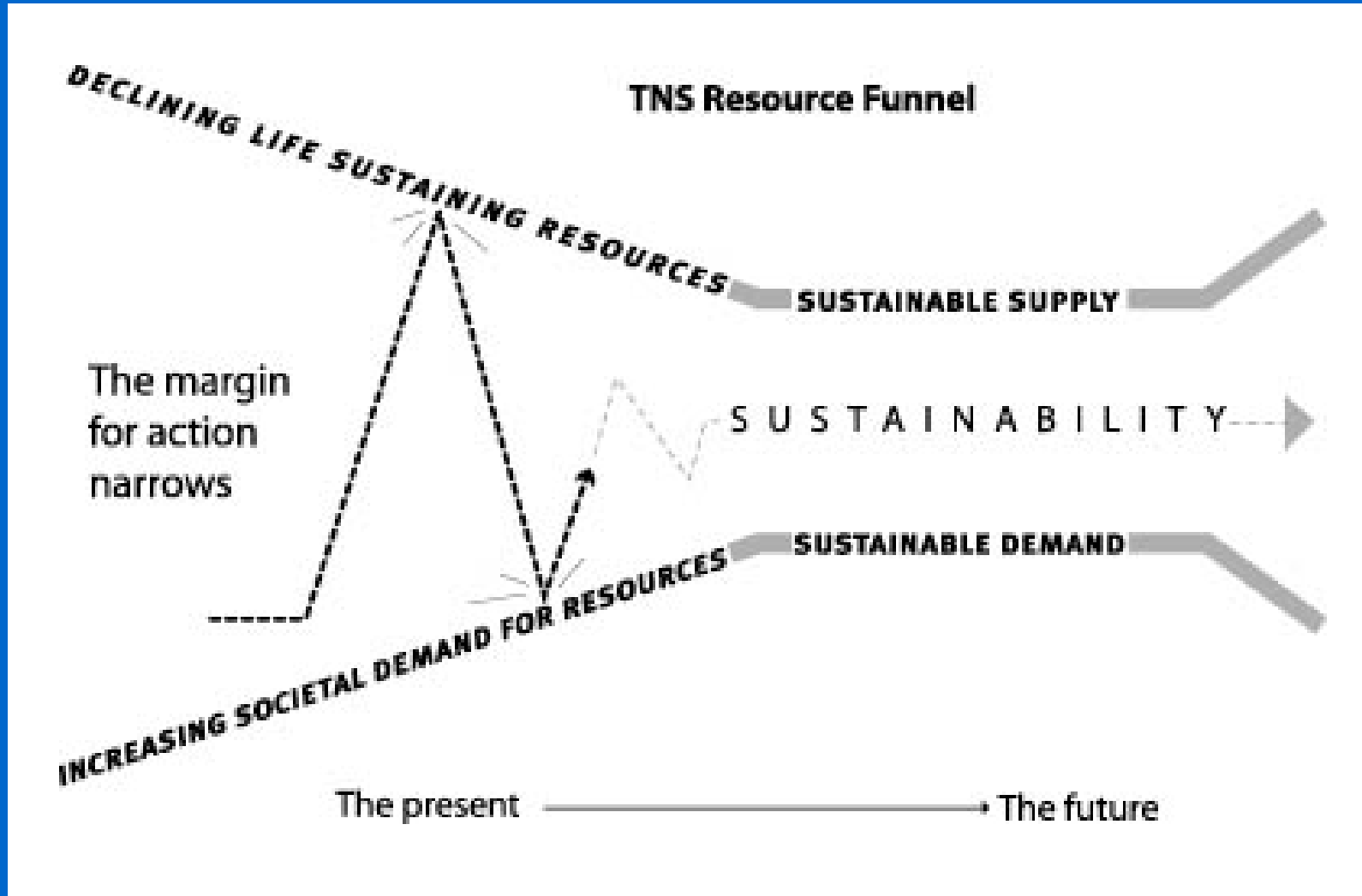




What is Sustainability?

# How do we improve the balance across the TBL? Long-term balance within each system?

- Economic policy
- Societal / consumer demands
- By necessity





# Economic Development Orgs

Work to encourage the creation and growth of businesses by:

1. Promoting the community and its assets to prospective businesses, investors, employees and visitors.
2. Provide information and services, e.g.
  - Market statistics
  - Skills development & employment
  - Connect buyers and sellers (locally, domestically and abroad)
  - Assist in attracting investments including R&D dollars.
3. Strategically target businesses that provide desired benefits to the community
  - Good jobs
  - Diversify economy

# Where does Ec Dev fit in?

Strategically target businesses that provide desired benefits to the community

- Improve the balance across the TBL
- Improve the long-term balance within each system
- Promote the community as a leader in sustainability
- Target information and services to businesses that improve sustainability

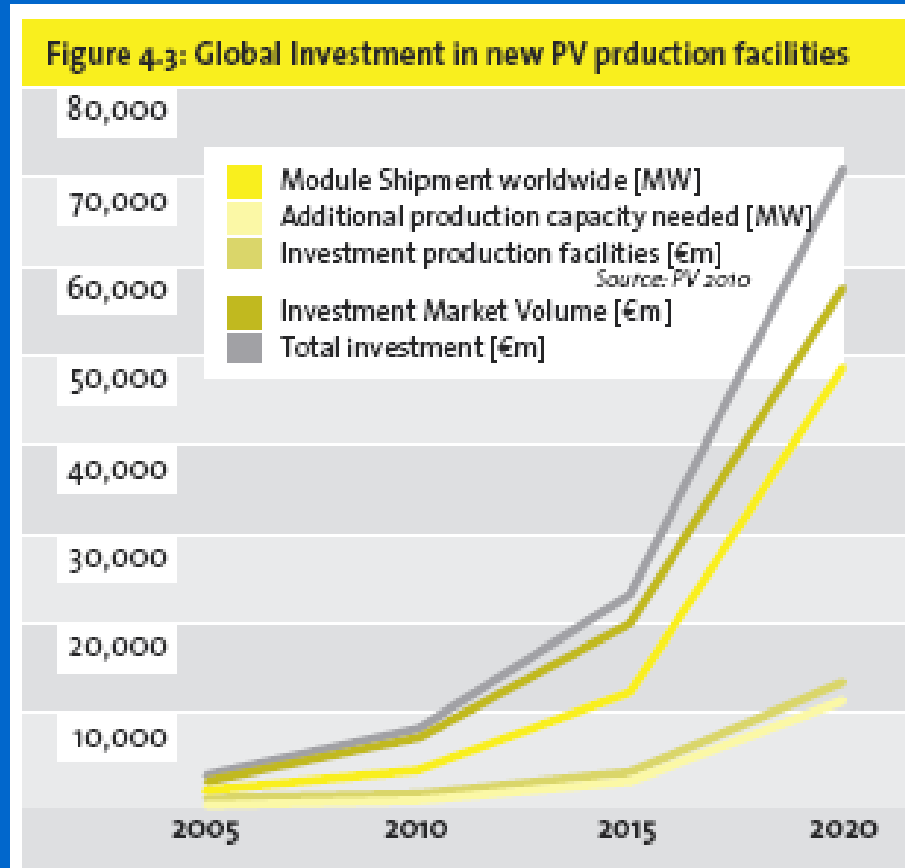


# Why?

- Economic returns and stability
- Community benefits
- Build the business case

# The Case for Solar Power

## 1. Growth Industry

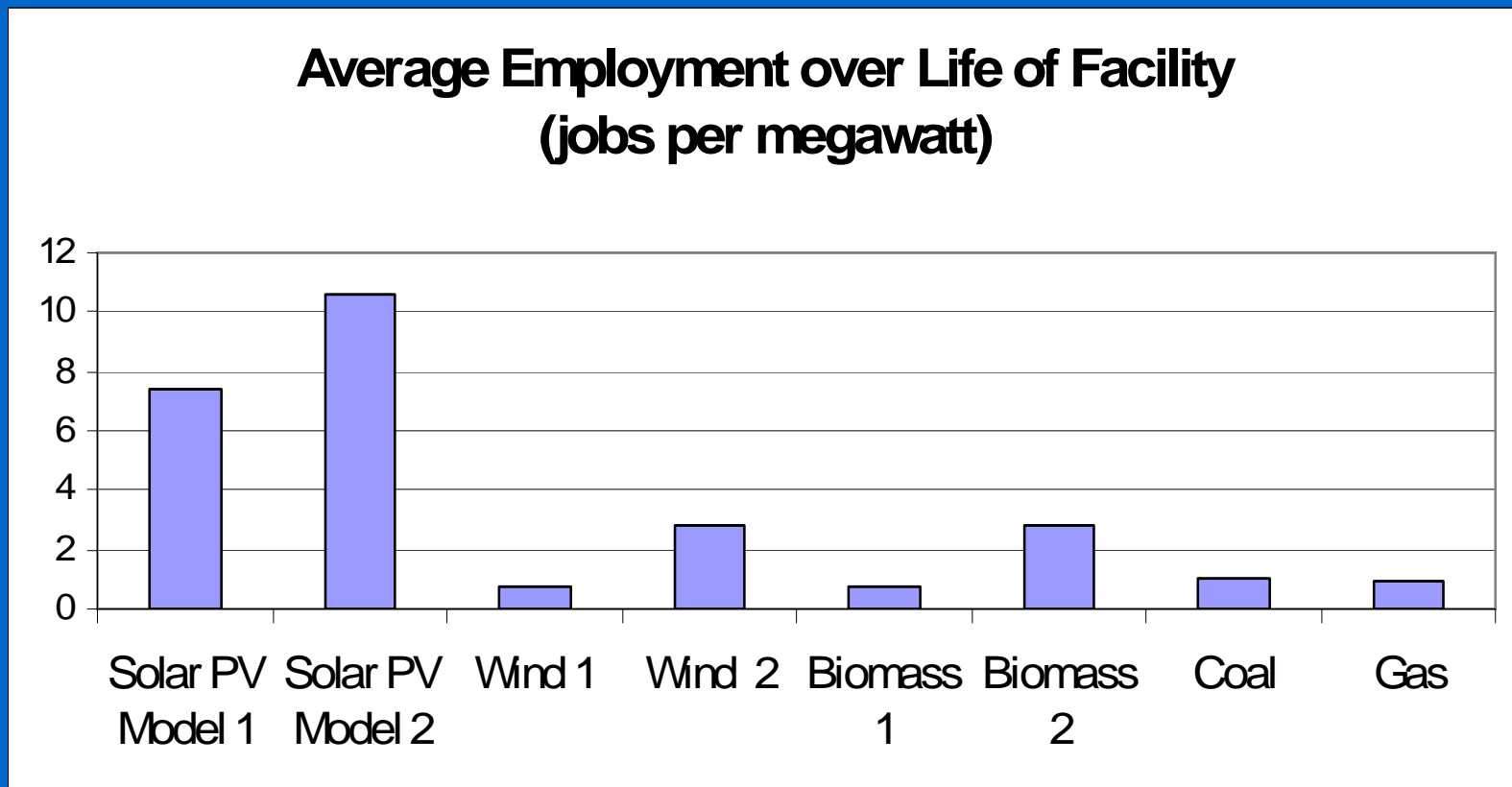


# The Case for Solar Power

## 2. Industrial Diversification

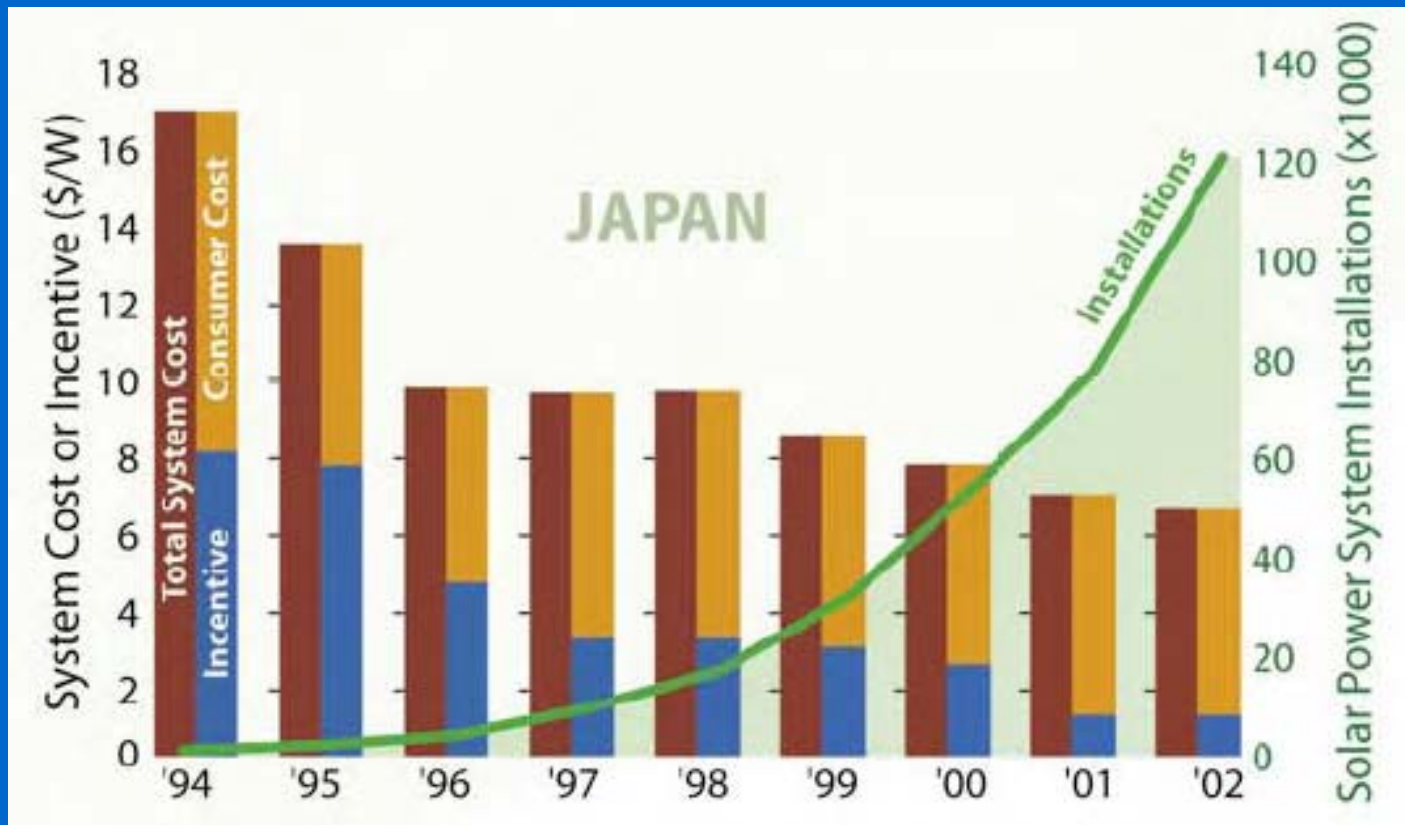
# The Case for Solar Power

## 3. Employment Opportunities



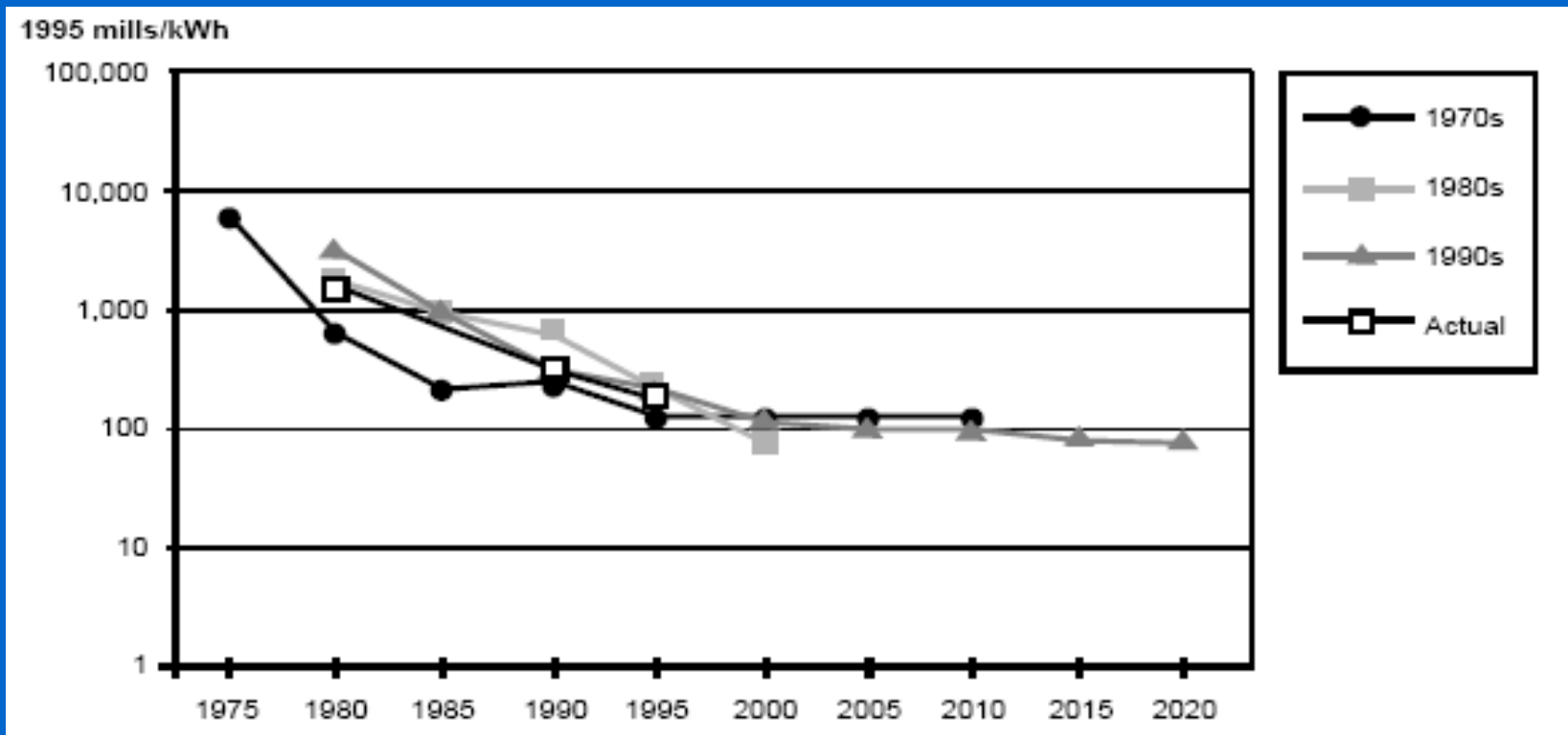
# The Case for Solar Power

## 4. Market Development Benefits



# The Case for Solar Power

## 4. Market Development Benefits



# The Case for Solar Power

## 5. Security of Supply

- Cost and reliability benefits
- Reduces economic risk

# The Case for Solar Power

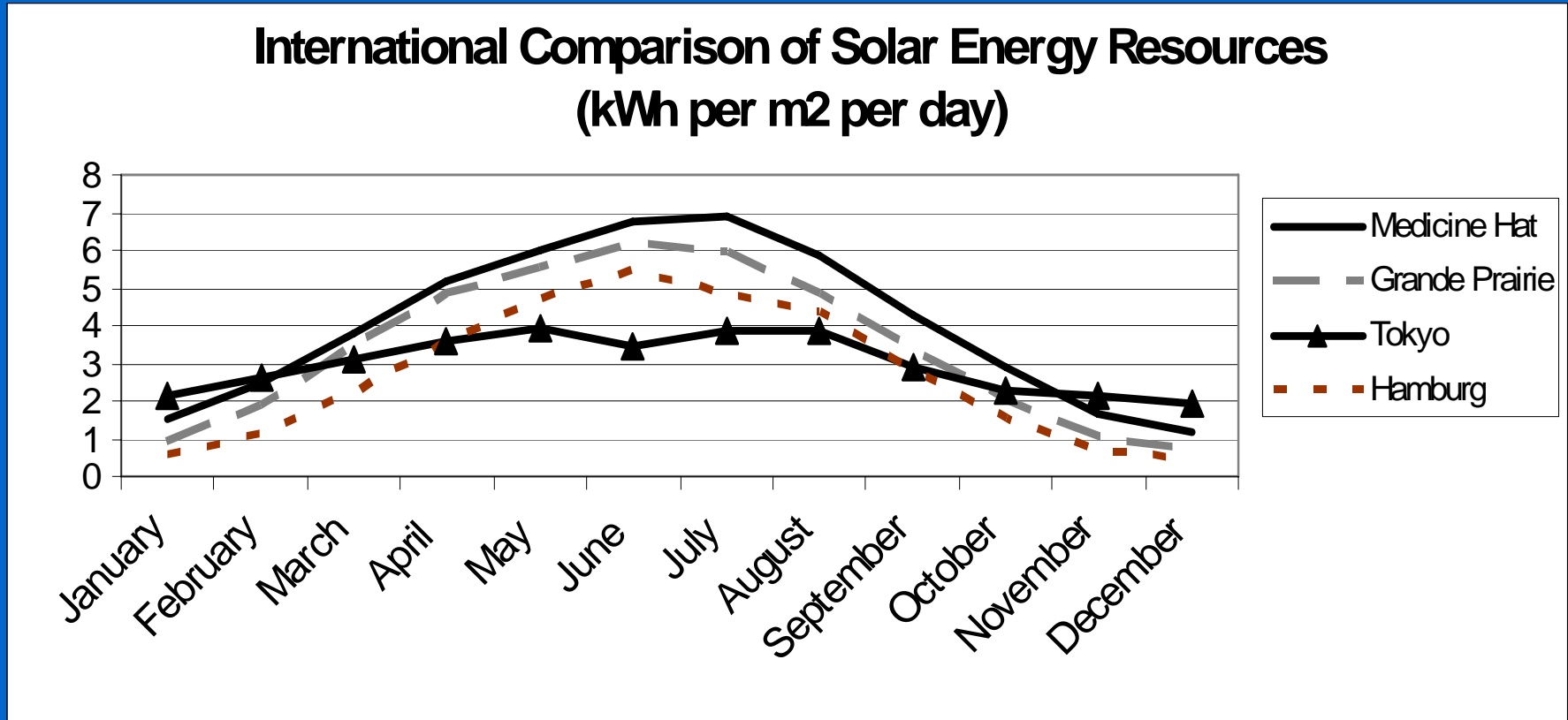
## 6. Multiple Benefits of Distributed Energy

- System-wide capital and operating cost savings
- Short lead time for development
- Increased the reliability and quality of power, system-wide
  - Changes to policies and procedures required
  - Economic viability from a full system perspective



# The Case for Solar Power

## 7. Local Resource Advantages



# The Case for Solar Power

## 8. Low Emissions

- Environmental protection
- Reduced liability in an increasingly emission constrained world



# Thank You

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