SUNTECH

Solar powering a green future™

Roadmap to Grid Parity: The Suntech Approach

Cleanpower 2010, Cambridge UK

Jerry Stokes
Vice President Strategy & Business Development
June 25th, 2010

Suntech : A Brief Company Snapshot

Strategic Partnerships

Solar Grade Polysilicon

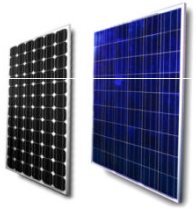
Ingots and Wafers

Suntech's Core Business

Solar Cells

#1 cell manufacturer[1]

Solar Modules



#1 module manufacturer [1]

Strategic Partners

Downstream Partners

Residential, commercial

Project Development Systems Services

10 MW+ solar power plants

- Founded 2001, China
- IPO NYSE (STP) 2005
- 12,500 employees
- Revenues US$2 billion
- PV Module capacity >1.4GW
- Shipping >3MW /day

(1) By volume, according to *Photon International*

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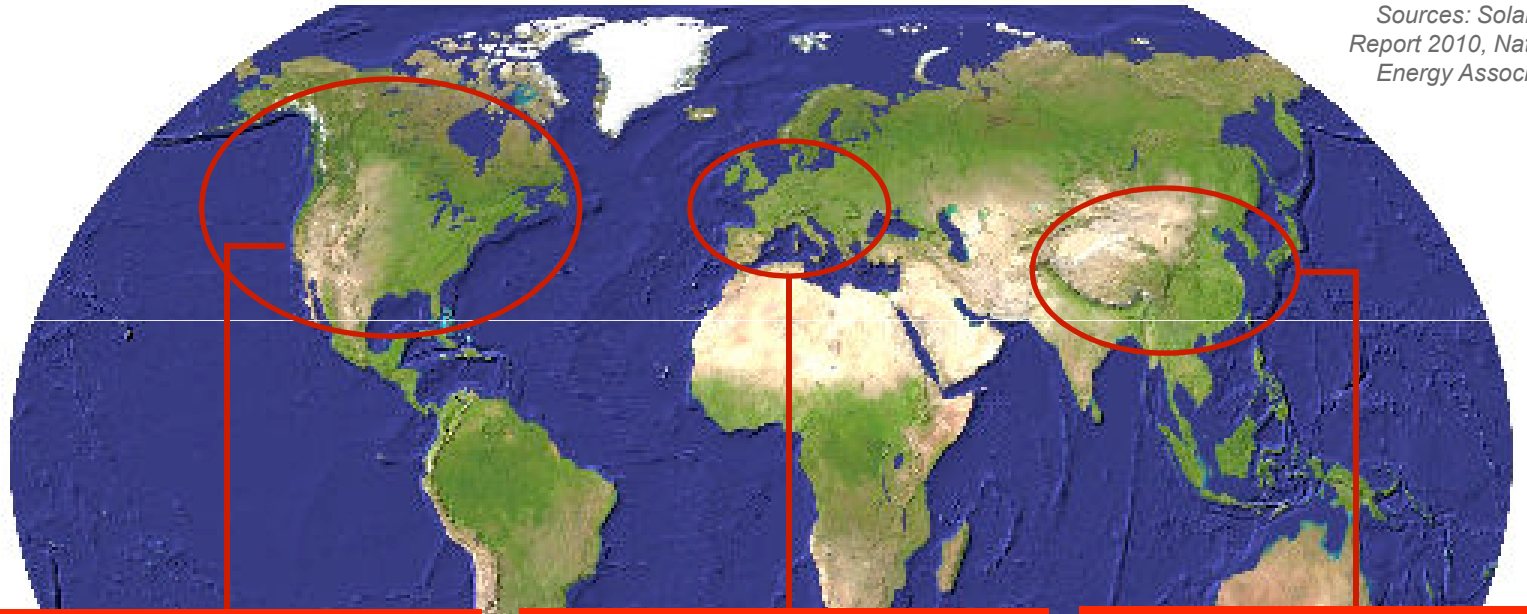
Global Renewable Goals: Real and Achievable



Sources: Solarbuzz Report 2010, National Energy Association

North America

- 17% Renewables by 2020
- 6.7 GW PV installed by 2014

EU

- 20% → 30% Renewables by 2020
- 18.9 GW PV installed by 2014

China

- 20GW solar by 2020
- Up to 1.8 GW PV installed by 2014

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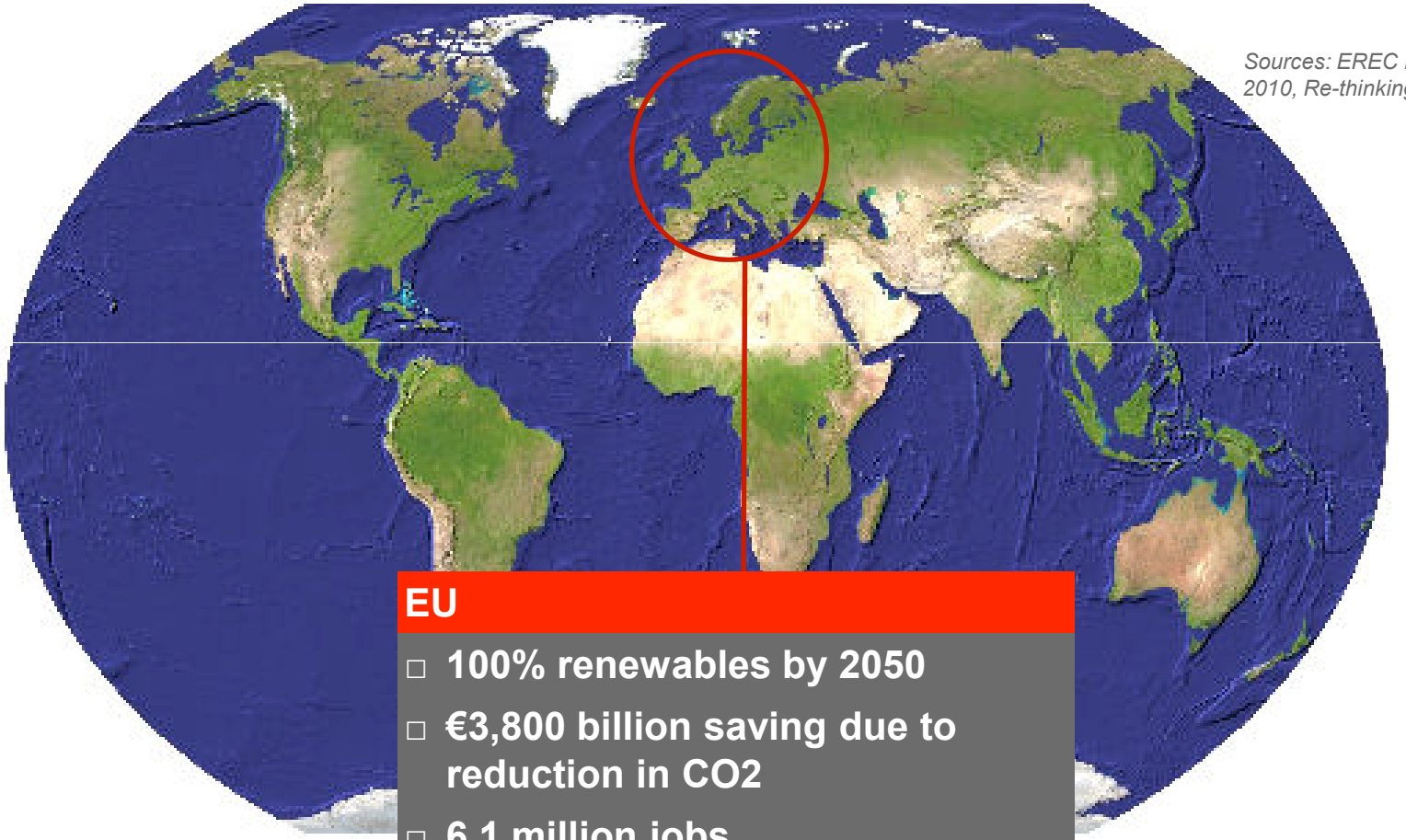
100% Renewable Energy Goal: Real and Achievable



Sources: EREC Report 2010, Re-thinking 2050

EU

- 100% renewables by 2050
- €3,800 billion saving due to reduction in CO2
- 6.1 million jobs

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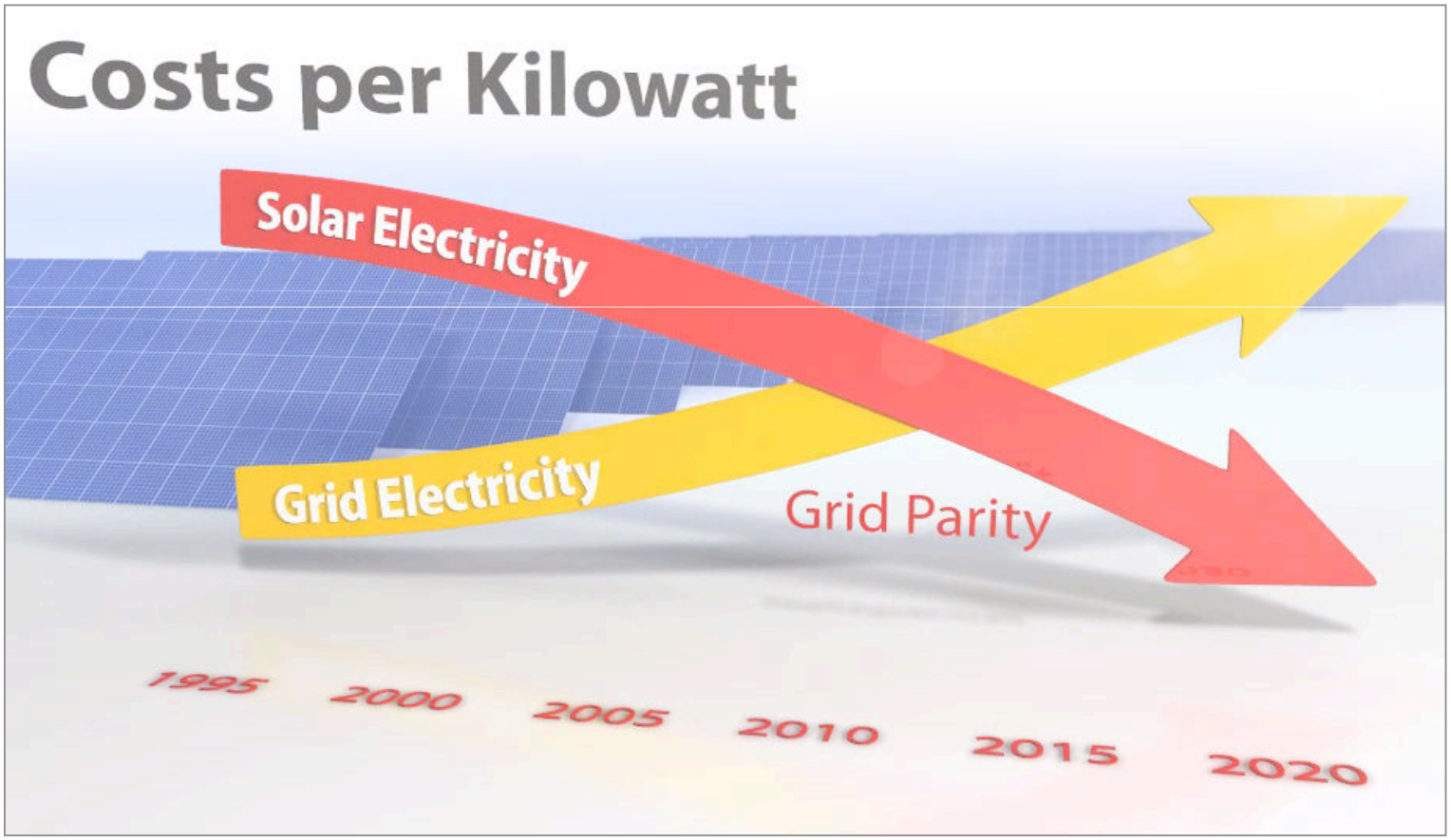
The Cost Advantage of Solar



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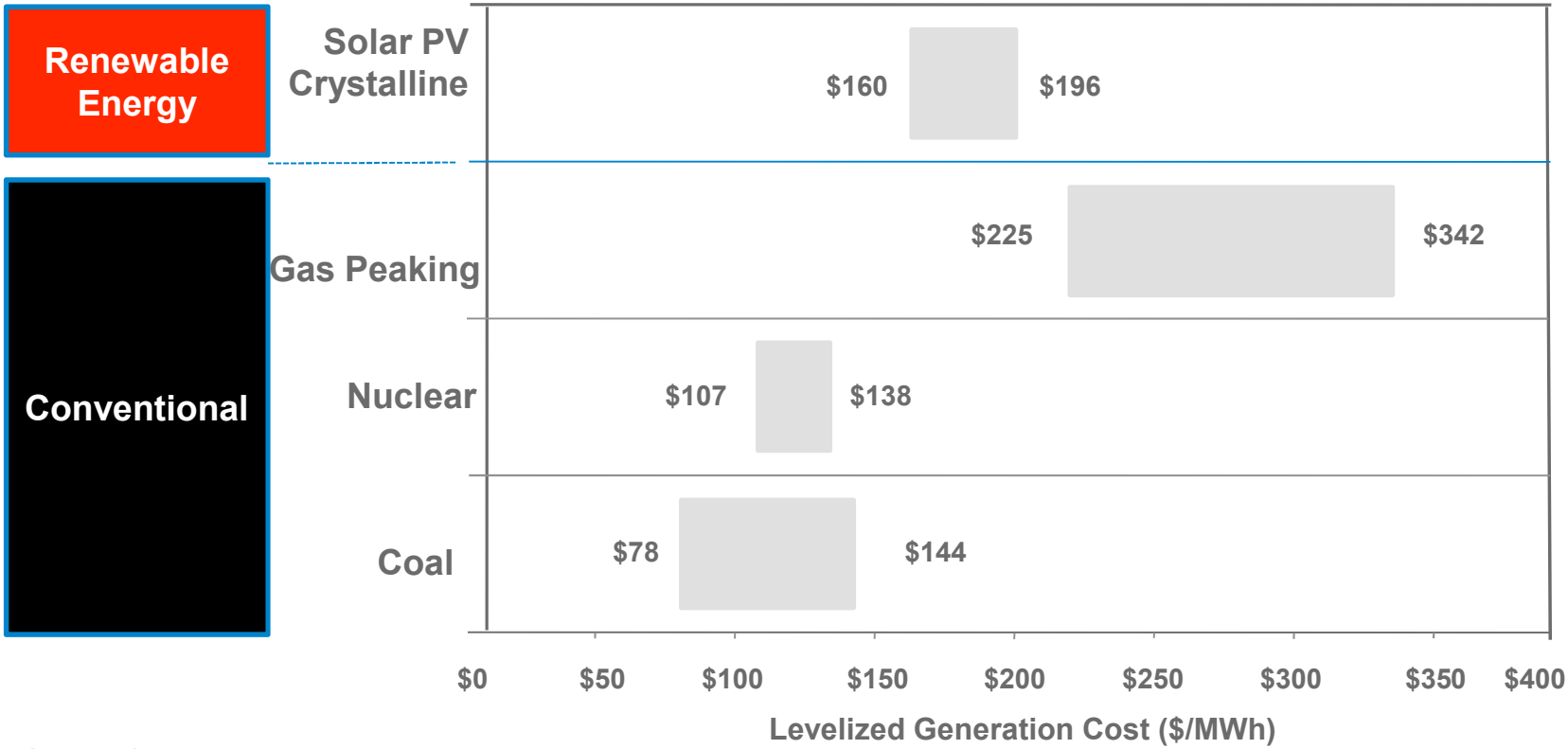
A Cost Comparison

Source: Lazard 2009



Assumption:
These figures are based on certain subsidy assumptions elaborated in the Lazard report.

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Our Mission: Making Clean Energy Available to Everyone

Broad adoption of solar means to us

- Operate globally
- Offer solutions for all key application areas
- Combine high reliability with high performance to provide excellent value

Commercial

Utility

Agricultural

Residential

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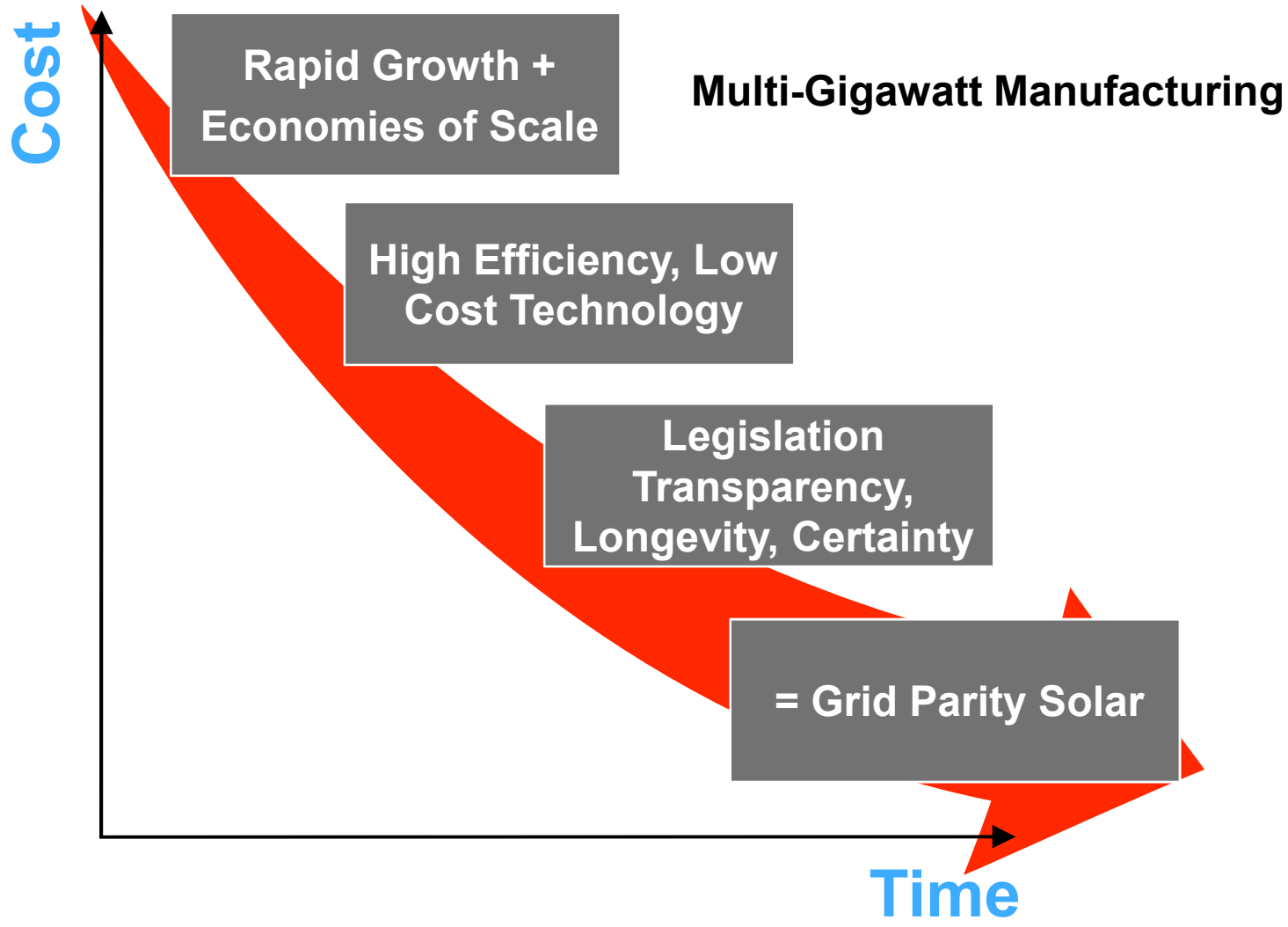
Solar PV Electricity:
Quickly Moving to Grid Parity



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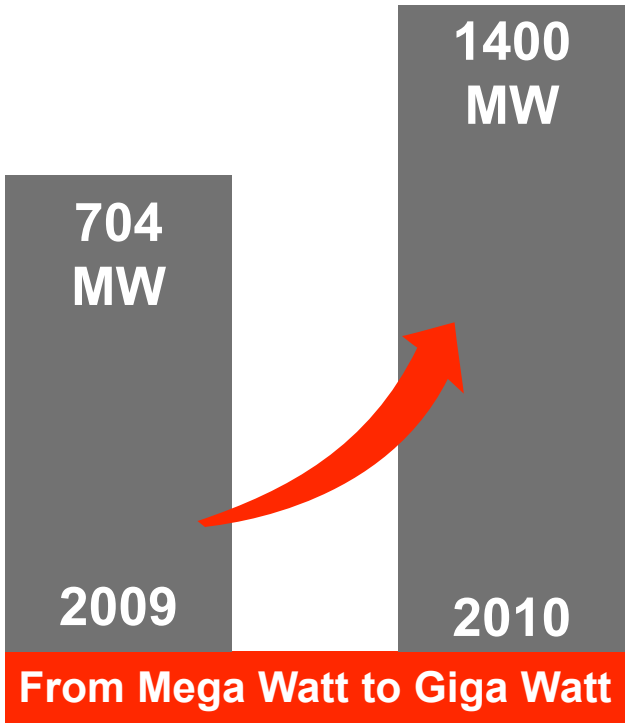
Exploiting Economies of Scale

- Increase production capacity continuously
- Use buying power to bring down material cost
- Increasing collaboration between companies at different stages of the value chain



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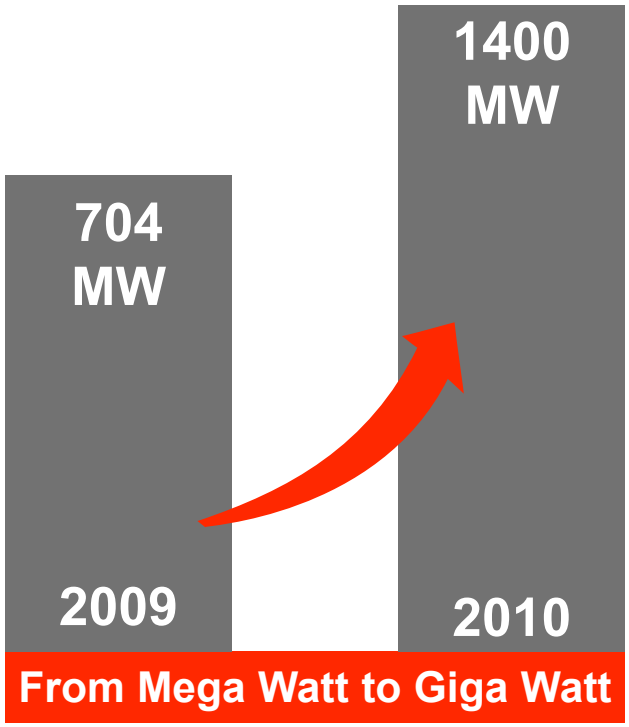

Suntech produce a 200Wp PV module EVERY 4 seconds, ALL day, EVERY day

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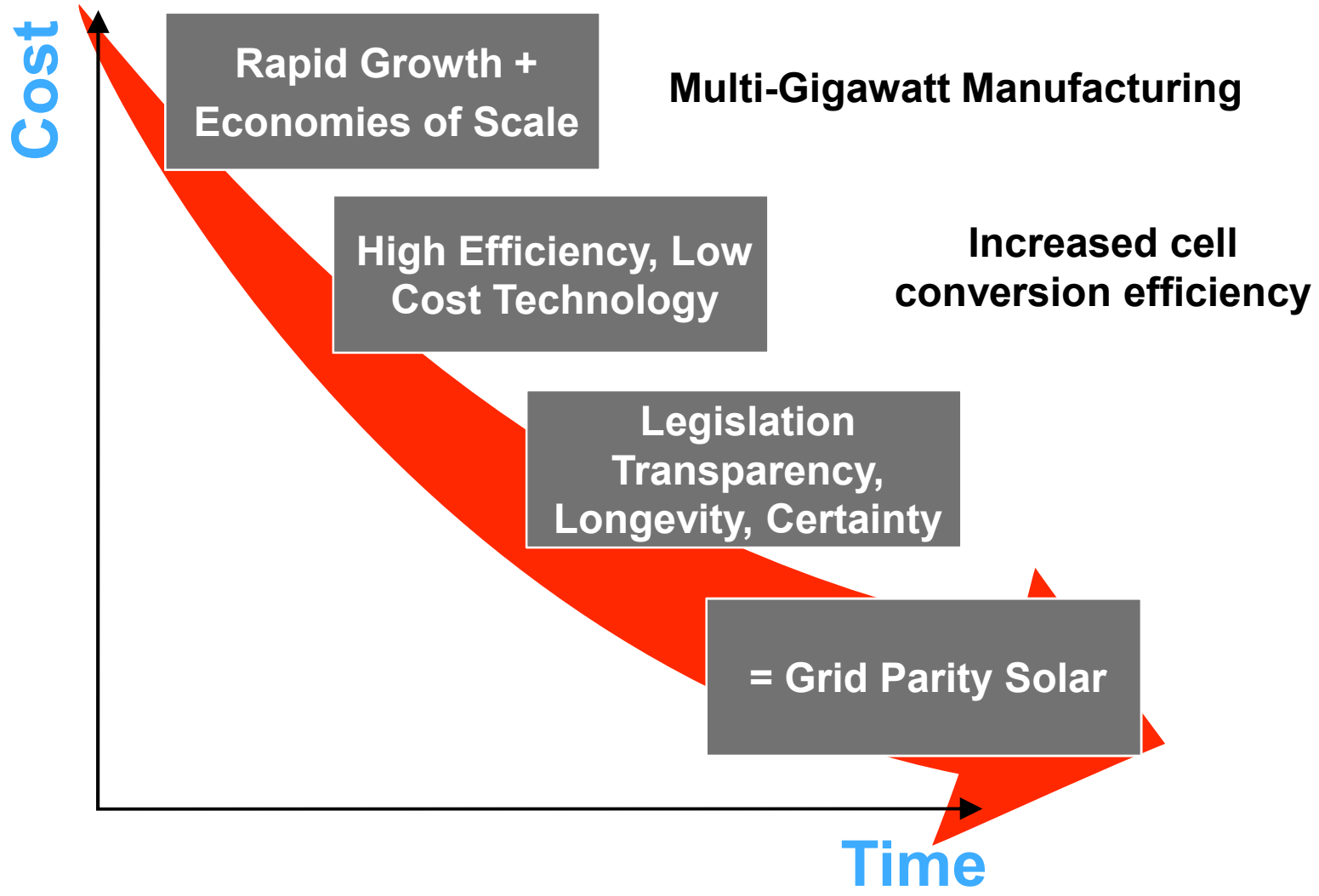
Quickly Moving to Grid Parity



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Unlocking the Power of Innovation

- Industry-leading R&D team (380+) and in-house test lab
- Collaboration with world-leading solar universities
- Continuous innovation from wafer to module and in system optimisation
- Develop new generation products with record-breaking efficiencies (Pluto™ technology)

Industry-leading R&D

Swinburne University of Technology
Arizona State University
UNSW The University of New South Wales Sydney • Australia

Leading Universities

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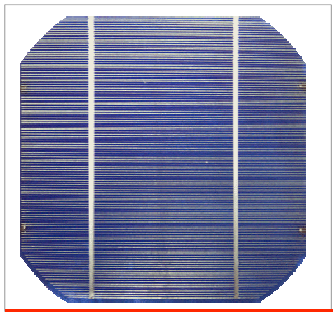
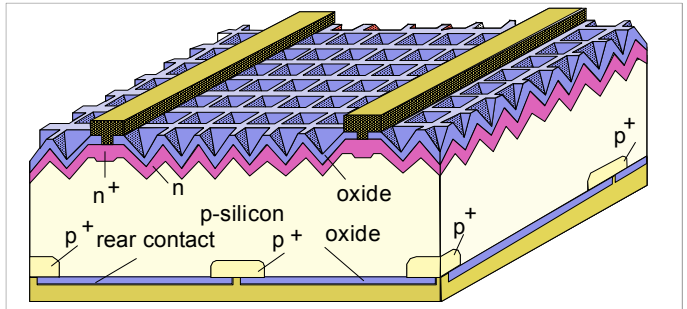
Pluto: Record Breaking Efficiency

- Based on UNSW World Leading Research – commercialised by Suntech
  - Mono-crystalline production cell reaches >19% conversion efficiency
  - Multi-crystalline cell achieves >17.2% conversion efficiency
- Applicable to both mono-crystalline and poly-crystalline silicon
- Reduces BoS costs without increasing production costs: +10% module power increase

Standard Cell



Pluto Cell



PERL Cell Structure

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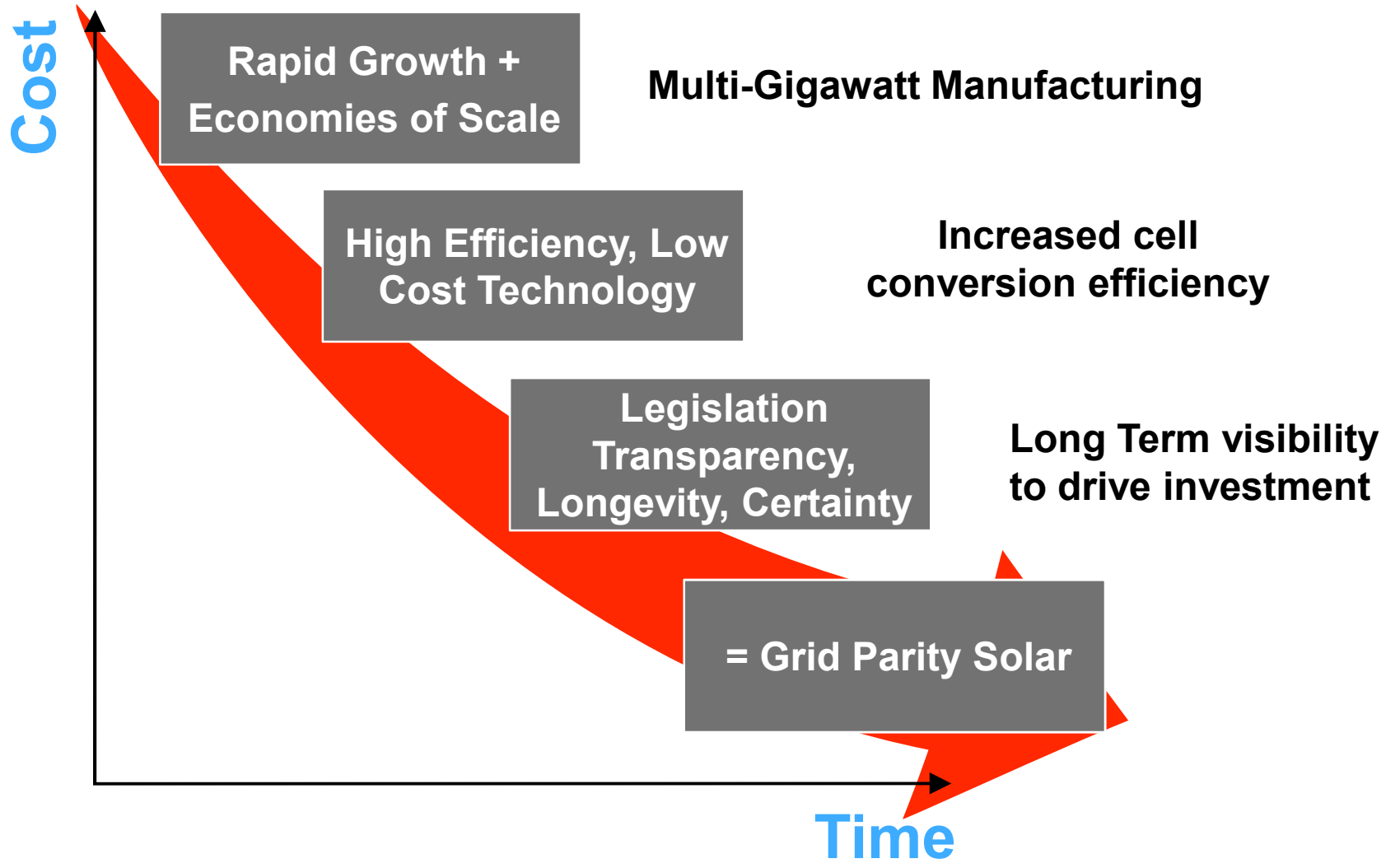
Solar PV Electricity:
Quickly Moving to Grid Parity



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Legislation Critical Success Factors

Transparency, Longevity, Certainty “TLC”

Policy and Economic Framework linked to Mandates and Targets.

Core Elements:

- All renewable technologies eligible
- Tariff set according to technology
- Standardised offer / guaranteed payment
- Guaranteed mandated interconnection
- Payment term 15-25 years
- Grid “Must Take” and must be open to all
- Open market – no protectionism.

Deutsche Bank: Paying for Renewable Energy: TLC at the Right Price
Achieving Scale through Efficient Policy December 2009

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Legislation Critical Success Factors

Transparency, Longevity, Certainty “TLC”

Fixed Structure and Adjustment Mechanisms

Key Factors:

- Fixed price based on generation cost
- IRR target
- Degression
- Periodic Review
- Grid Parity target
- Additional incentives.

Deutsche Bank: Paying for Renewable Energy: TLC at the Right Price Achieving Scale through Efficient Policy December 2009

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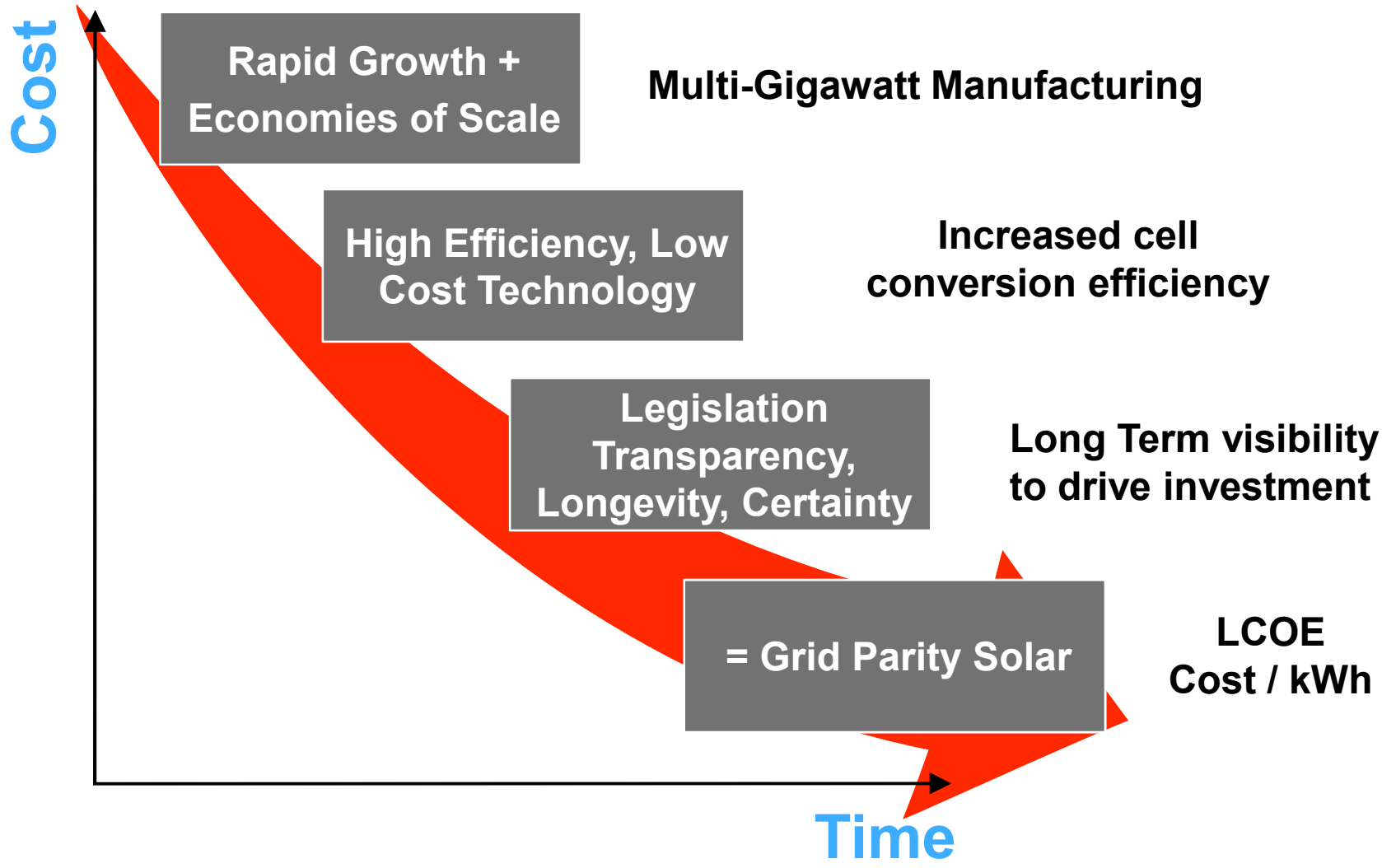
Solar PV Electricity:
Quickly Moving to Grid Parity



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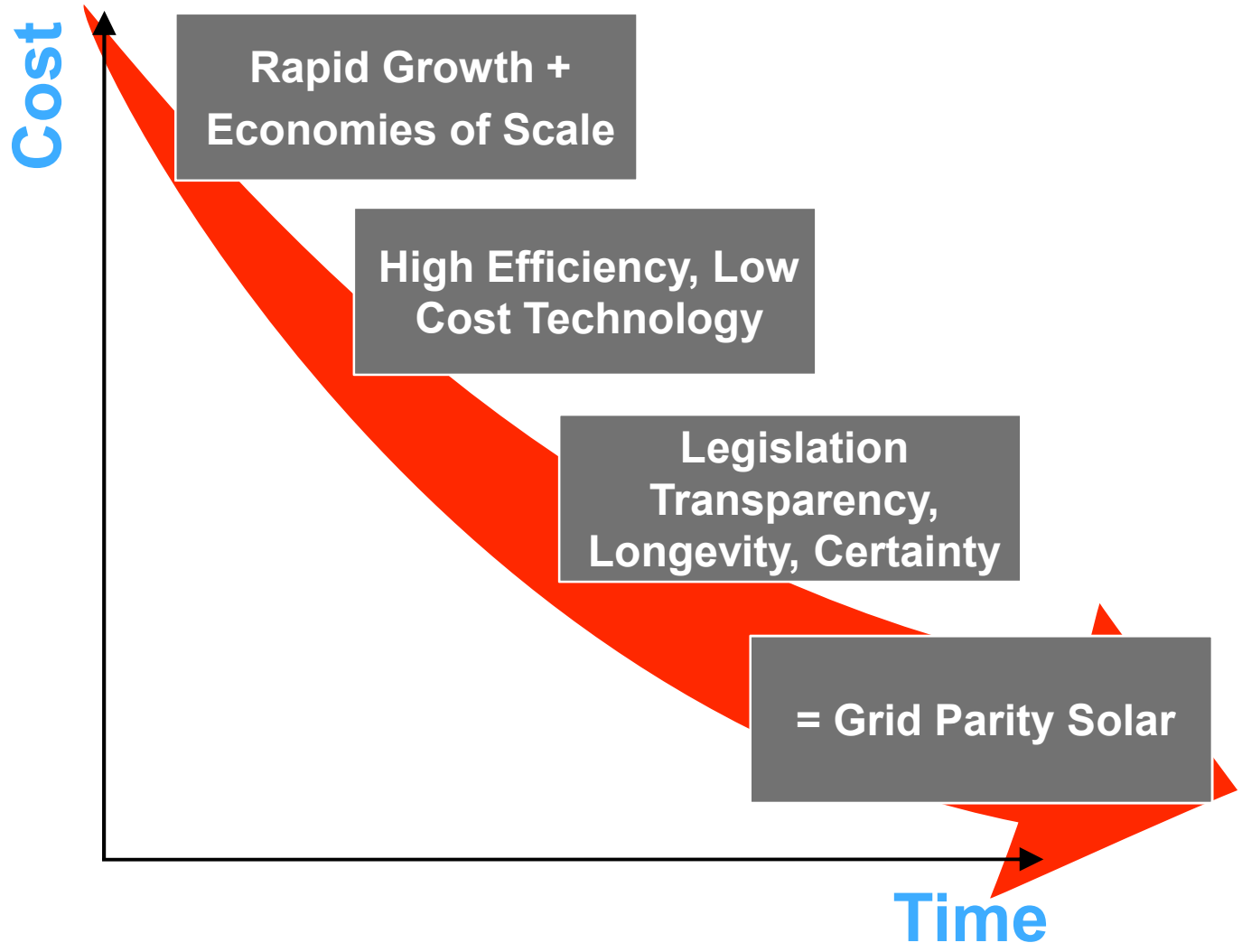
Solar PV Electricity: Grid Parity IS Achievable



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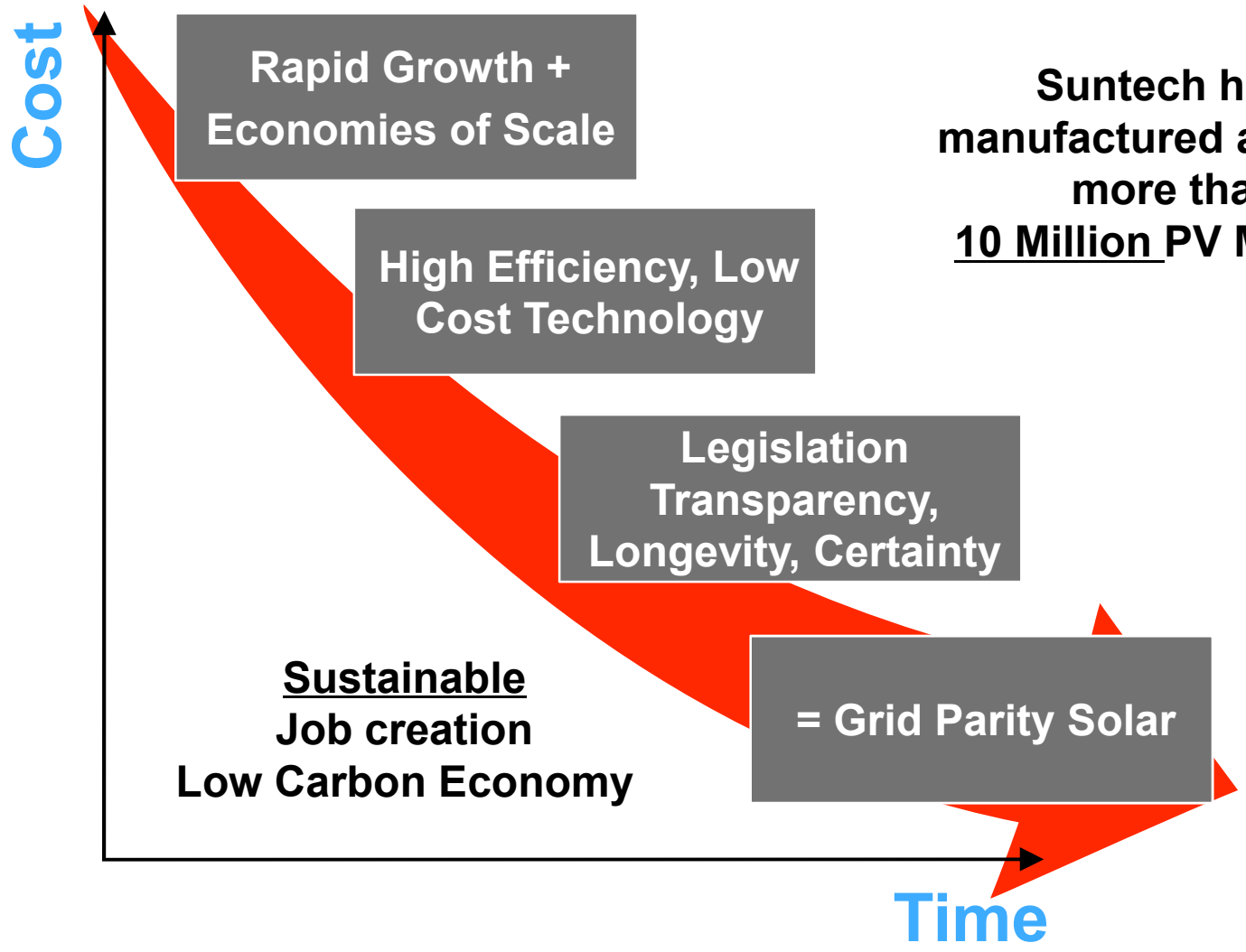
Solar PV Electricity: Grid Parity
Achievable and Sustainable



Suntech have manufactured and sold more than 10 Million PV Modules

Sustainable
Job creation
Low Carbon Economy

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Vice President
Strategy & Business Development
Suntech Power International

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Thank you

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