

Sustainable Low-Carbon Asia:

How it can change the post-2012 Climate Negotiations?

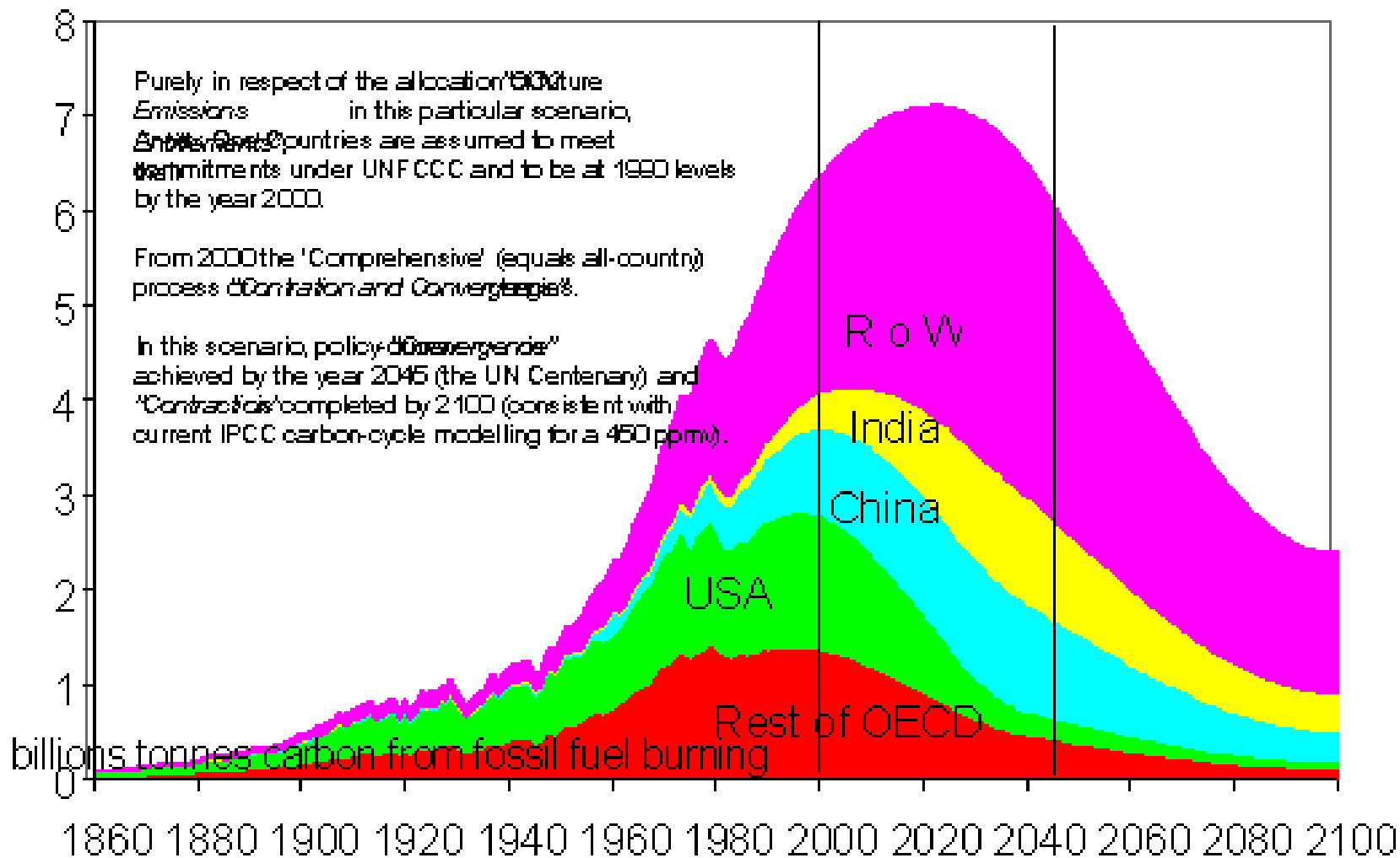
09.00 – 10.30 8th December 2008, COP 14, Poznan

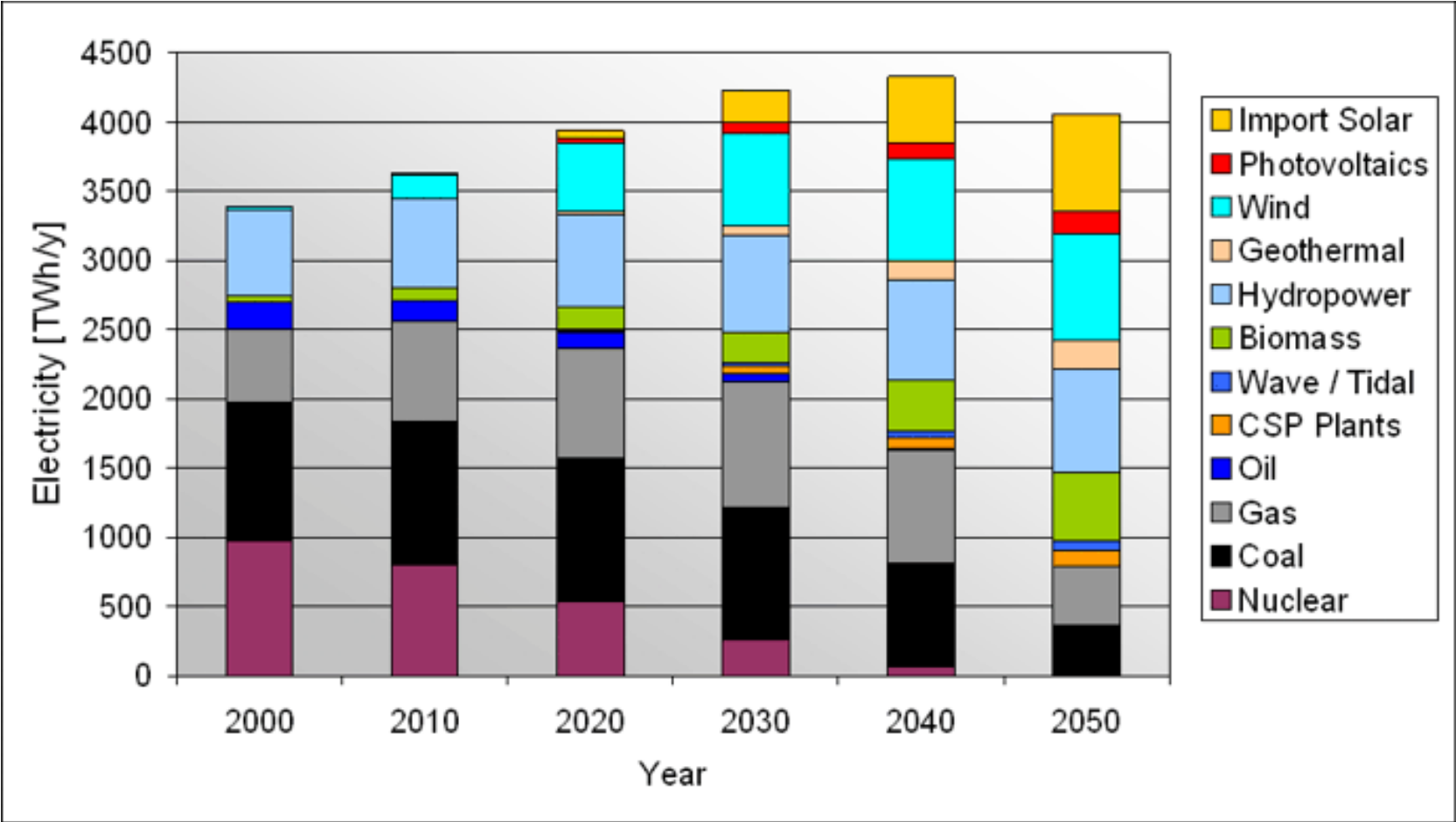
CLIMATE CHANGE & SECURITY: The Geopolitics of Asian Glacial Melt

Tom Spencer



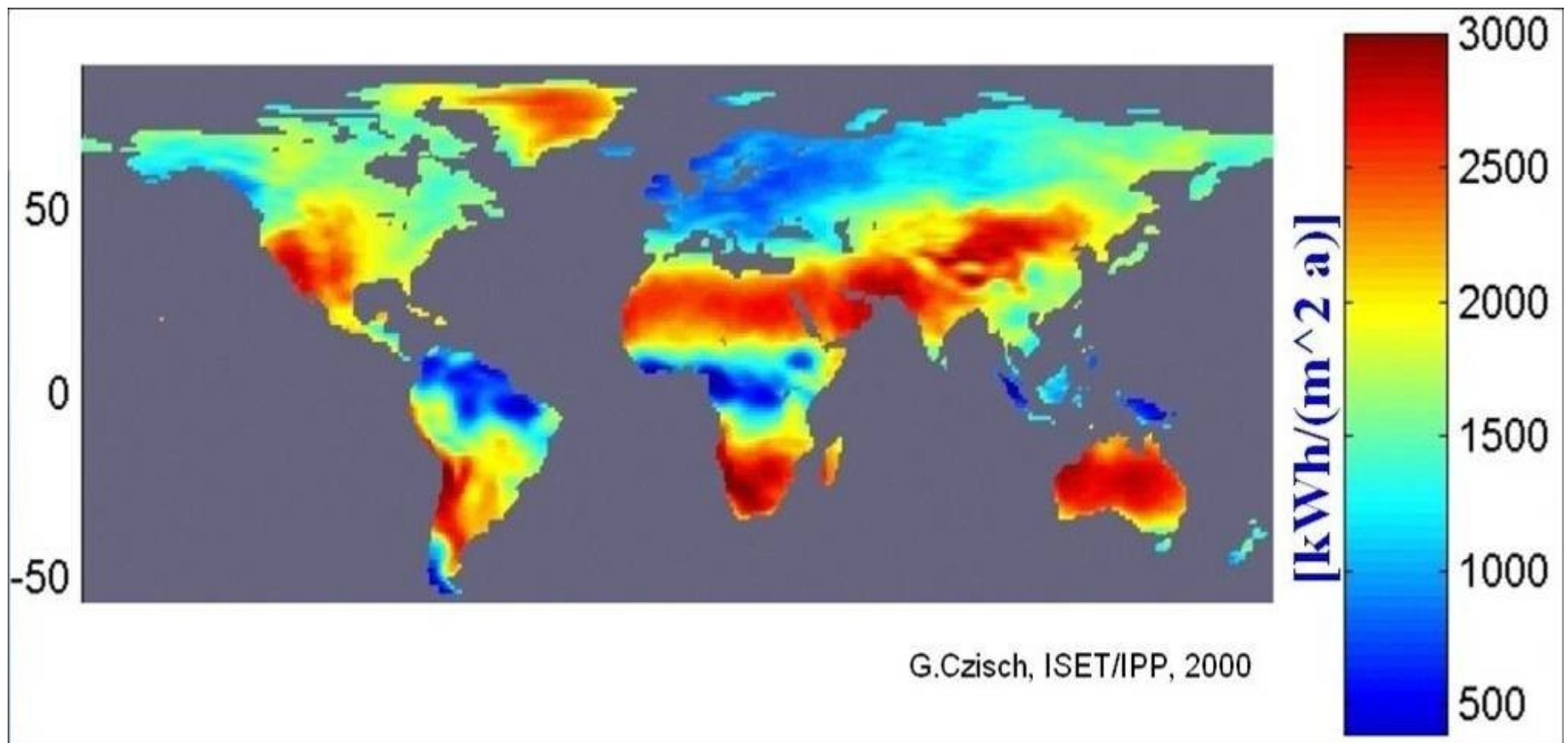
HISTORY & GCI CO2 SCENARIO for 450 ppmv under "CONTRACTION & CONVERGENCE"



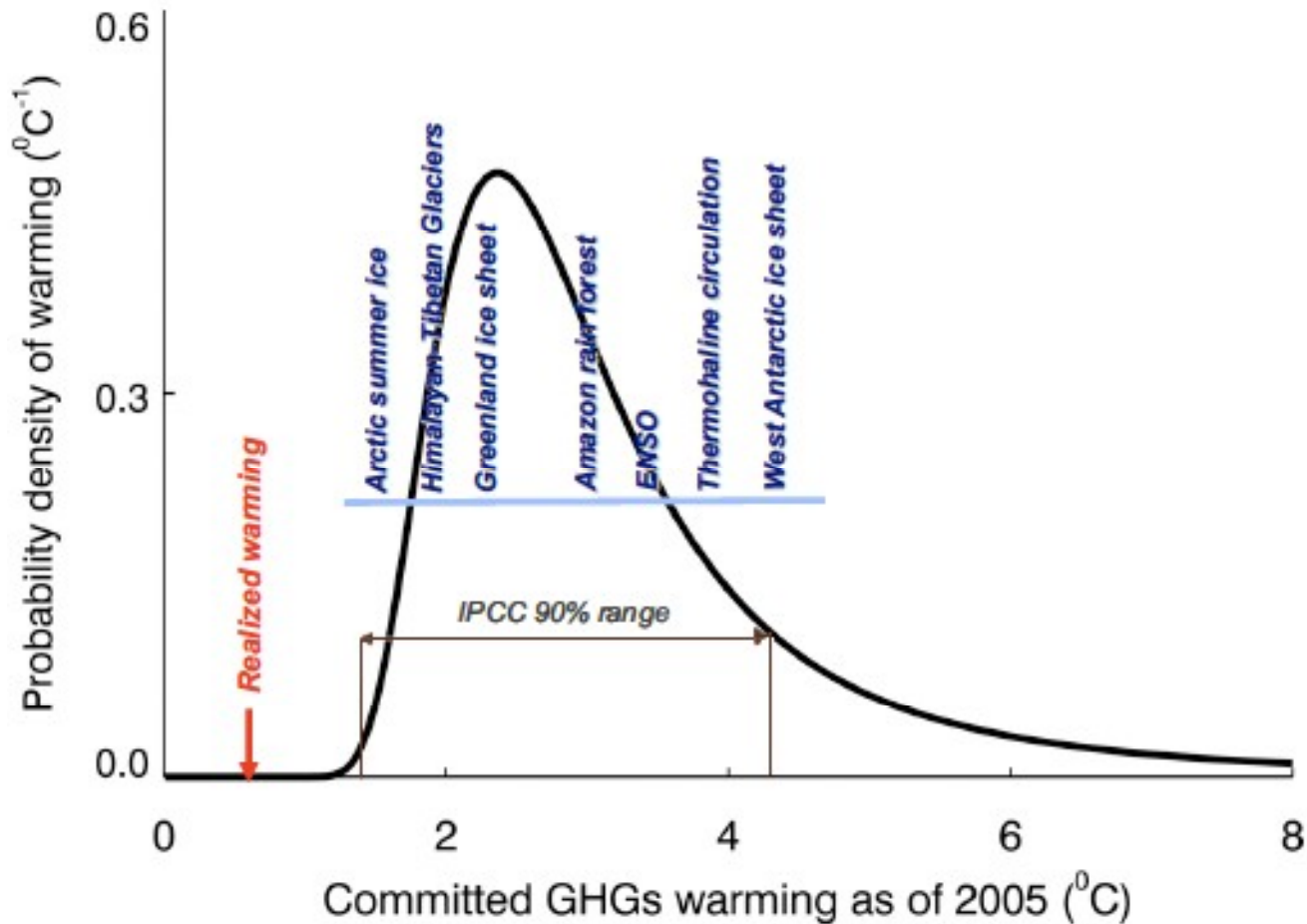


- Intensifies Crisis & Exacerbates Conflict
- Tips States to Failure & Political Instability
- Punishes Developing Countries the Most
- Pushes Mass Migration
- Propagates Poverty Region-to-Region
- Impacting an Unprecedented Number of People

- Save Money, Support Energy Independence, and Reduce Greenhouse Gas Emissions
- Procure Technology from all Global Sources Based on Life-cycle Analysis of “Fully-burdened” Fuel Costs and Supply Vulnerability
- Work with Suppliers and Entire Supply Chain
- Favor Renewable Energy Sources
- Embrace Climate as a National Security Issue and Climate Protection as Environmental Security
- Manage real estate as sustainable forest, farm, wildlife habitat and carbon sequestration



“Probability distribution for the committed warming by GHG between 1750 and 2005. ... Shown are the tipping elements [large-scale components of the Earth’s system] and the temperature threshold range that initiates the tipping. ...”



THREAT TO INDIA'S SECURITY

- **SURROUNDED BY NOT SO VERY FRIENDLY NEIGHBOURS WHICH WILL ADD TO THE WOES OF CLIMATE CHANGE.**
- **EXTREME WEATHER CONDITIONS – VERY LARGE POOR POPULATION TO BE PROTECTED.**
- **UNPREDICTABLE MONSOONS LEADING TO FLOODING IN SOME AREAS AND ACUTE WATER SHORTAGE –DROUGHTS IN OTHER .**
- **MELTING GLACIERS – SHORTAGE OF WATER FOR AGRICULTURE DURING DRY MONTHS WILL HAVE CATASTROPHIC EFFECT ON FOOD PRODUCTION.**
- **LOW LYING COASTAL AREAS WILL GET ENUNDATED, LAKSHWADEEP AND ANDAMAN NICOBAR ISLANDS WILL DISAPPEAR DUE TO RISING WATER LEVEL IN THE SEAS.**

WATER SECURITY

- **INDIA HAS HUNDREDS OF GLACIERS ACROSS 1500 MILES OF HIMALAYAS FEEDING THE RIVERS WITH WATER.**
- **ISRO STUDY ON 466 GLACIERS REVEALS A 20 % REDUCTION IN SIZE SINCE 1962 TO 2000. THIS RATE IS CONSTANTLY INCREASING.**
- **RATE OF RETREAT OF GLACIER MORE THAN 170 FEET PER YEAR.**
- **NETWORK OF HIGH MOUNTAIN RANGES AND GLACIERS SUSTAIN MORE THAN A DOZEN RIVERS CATERING TO BILLIONS OF LIVES IN INDIA, PAKISTAN, BANGLADESH.**

