

DOCKETED

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Definitions for Clarity and IMPORTANT Changes

Basically, the Integration Report needs to be clear on several significant issues which need definitions and hence changes:

- 1) Economics --- need for life cycle and externalities
- 2) Definition of words and terms such as "Clean" --- in relationship to natural gas is a contradiction. The fact is natural gas is NOT clean, but a fossil fuel whose getting CEC and other State funds that needs to be stopped. The entire funding of this industry contradicts the Governor's plans and goals for CA.
- 3) The misuse of economics that is based on classical economics but still violates even that theory since fossil fuels and nuclear power get large financial support from the "invisible hand".
- 4) See my books (11 now) and peer review articles on economics and what needs to be changed NOW.

Additional submitted attachment is included below.



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Smart Green Cities

By Woodrow W. Clark II and Grant Cooke

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Acknowledgments

Introduction

Chapter 1. Modern Civilization is the City

- How cities evolved—the Romans were engineering geniuses
- Half the world's population lives in a city
- National strategies since WWII – cities need to be built
- Expansion of cities due to population and hence economic growth

Chapter 2. Key Problems Facing Modern Cities

- Global impact: climate change and carbon emissions
- Higher crime, geopolitical terror, need for security with corruption and white collar crimes
- Infrastructures: energy, transportation, water, waste, and telecommunications.
- Personal and family needs: food and housing—example of London requiring 20 percent of new housing, public housing? What about safety, medical care, and social services?
- Business and commercial development
- Results today in urban areas: congestion, health costs and politics

Chapter 3. The Green Industrial Revolution

- What is it and what will it do.
- Prior books and theories: First, Second and Third Industrial Revolutions all add up to the GIR

Chapter 4. Smart, Green is Sustainable

- Overview of sustainability—what's it all about
- Why it is so important to create SGCs?
- Main elements are: local and regional plans, integration of all systems, renewable energy, storage, smart grids, finance and funding.

Chapter 5. Technologies that Make a City Smart and Green

- Storage Technologies & V2G Power storage in electric cars
- Smart, Green Grids & China's Leading Smart Grid
- Greener Waste Collecting
- Emerging Green Technologies
- A Revolution in Lighting Technologies and Peak Demand Response
- Cool Roofs Will Offset Carbon
- Nanotechnology –“Really” small things
- Regeneration Braking: From Trains to Cars to Trains and Back Again
- Combined Heat and Power—CHP.
- Heat Pumps and Seawater Heat Pumps
- Biofuel with algae: A Transitional Energy Power
- Anaerobic digesters, geothermal energy systems and others
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- Hydrogen—a breakthrough technology
- Commercializing Emerging Technologies

Chapter 6. Sustainable Green Transport

- Transportation—autos, buses, walking and bicycles
- New emerging technologies: electric and hydrogen fuel cell cars
- Integrated into other infrastructures: water, waste, WiFi,
- Regional transportation: maglev trains, water and air travel

Chapter 7. China—Revolutionary Green Transformation

- Five-Year Plans – evaluation and planning with finance
- Regional studies and plans implemented: case of IMAR
- Civic capitalism: concern with economic growth that is good for everyone
- International and regional role model

Chapter 8. The Next Economics for a Greener World

- The world is round: climate change and economics are tied together
- Western economics: neo-classical Adam Smith as point of departure into today with Economics as a science
- Critical area: stop dependency on fossil fuels
 - Middle-east
 - Conflicts
 - Terrorists
 - Resolution of political issues: Israel and others
- Use of economics in Smart Green Cities
- Finance and funding transformation

Chapter 9. Smart Ecocities—New Ideas for Urban Living.

- The Ecocity movement. From Berkeley to Australia with history, background, financing and focus
- Future plans and implementation process
- Case studies including Copenhagen, Madsar and UC Davis West Village

Chapter 10. The Smart Green Cities

- End of the Oil Age
- The Green Industrial Revolution Impact on Cities
- Towards a Greener Future
- Grid Parity and Energy Deflation
- What makes a Smart, Green City? And sustainable...
- Berlin's Plan to become Carbon Neutral

Appendices—Detailed Case Studies

- A) Quay Valley Ranch** by Grant Cooke
- B) Berlin** by Cornina Alternburg, Fritz Reusswig and Wiebke Lass
- C) Potsdam** by Cornina Alternburg and Fritz Reusswig,
- D) Vilnius** by Natalija Lepkova and Dalia Bardauskienne
- E) Asia-Pacific** by Steffen Lehmann
- F) Mauritius** by V. Oree, A. Khoodaruth, M.K. Elahee and Woodrow W. Clark II
- G) Smart Green MicroCities** by Naved Jafry and Garson Silvers