



# ANALYSIS FOR NEW BUILDING PHILOSOPHY “LEGS”

Mark Krawczynski



**PROACTIVE ENGINEERING**

**CLEAN ENERGY INSIDE CITIES**

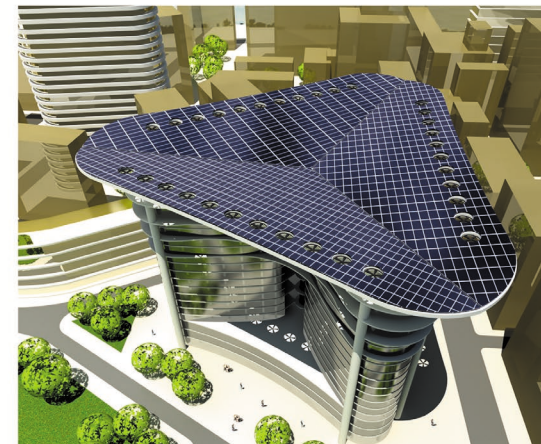
**STUNNING ARCHITECTURE**

## **the CLOVER**

*total floor area - 25,410 m<sup>2</sup>*

*photovoltaic roof area - 7,000 m<sup>2</sup>*

*TOTAL ENERGY PRODUCTION AT PEAK 8.4MW = 14 medium turbines  
in remote wind farm less 25% transfer loss*






- Continuous clean electricity production with a zero carbon footprint is only possible if many clean energy technologies work in tandem so there is never any downtime.
- New and unique building shapes further improve the production of such endless and low cost clean energy by capturing and naturally accelerating the power of the wind and maximizing the sun's energy. This is possible because of the building's ingenious geometry and roof shape which are also inspiring to the eye.
- Large, medium and small versions of these unique urban building designs are generically called Elemental Flow Towers. They draw on the enormous forces from nature to create uninterrupted, clean electrical power via 4 to 8 clean technologies (depending on site specifics) working together in harmony and being controlled by an automatic electronic management system. Below is a picture of a design called "The Clover". An even smaller building of only 8 floors would be ideal for this part of the country.



This building philosophy will become the standard for future cities for the rest of the 21st century. This will involve a long term process of mind-set change but whoever chooses to build the first of these amazing, integrated designs will become the leader in sustainability and an example for the world to follow. These buildings will supply all their own energy needs for residential, hotel, or commercial functions (offices, retail, entertainment, etc.) plus can supply an existing smaller building next door. They could even recharge electric cars parked in the basement overnight or during shopping hours.





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- All energy needs will eventually be able to be supplied locally in such independent energy islands. We call this philosophy **LEGS - Local Energy Generation System**. This avoids the cost of large, remote power plants which always need expensive, high maintenance and unattractive hi-tension lines over large distances which involve serious power losses at transfer points. Old fashioned centralized power plants are also potential strategic risks. Unique **LEGS** building designs range from 4,000m<sup>2</sup> to 250,000m<sup>2</sup> of floor area and can produce from 2.5 to 50 MW in aesthetically stunning 3 or 4 winged medium or hi-rise buildings. All the technologies are proven and are already being successfully used individually but it is only when they are all working together is it possible to achieve guaranteed continuous power supply.
  - With the EU this year providing huge funds for innovative clean energy solutions, much of this project could be funded from that money.



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Chartered Architect, Construction Manager, Director of the company Carshade Australia Pty Ltd, Director of Elemental Flow Towers Ltd in Ireland, Member of the Board of Rotary Club Warszawa City, NSW Board of Architects in Australia and the Polish Architects Institute. Chairman of District 2231 Convention Promotion Committee for Seoul, Atlanta and Toronto. Project Principal for EFT designs and ecology cluster-building solutions. Founding Director of Environmental Sustainability Rotary Action Group in the USA.

The background features a complex, layered geometric pattern of overlapping, curved lines in shades of gray and black, creating a sense of depth and movement. A prominent white border frames the upper and left portions of the image. A horizontal green bar is positioned above the text, and a dark blue-gray rectangular area is located below it, containing the text.

**Thank you**