

Convention on  
**City Development:**  
Sustainability & Legal Interface

# Integrated Sustainable Infrastructure

*- Key Driver for Innovative & Sustainable Cities -*

**by**

**RAM PRATTI**

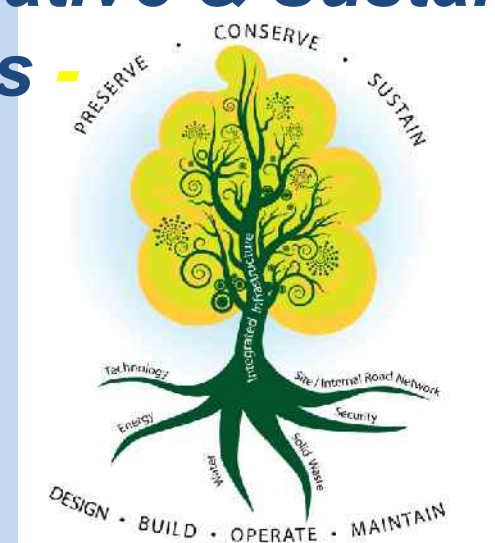
Managing Director, President & CEO

**Weston Solutions India Pvt. Ltd.**

**(A Subsidiary of Weston Solutions, Inc.; USA)**

# Integrated Sustainable Infrastructure

*- Key Driver for Innovative & Sustainable  
Cities*





Trust  
Performance  
People



## *The Trusted Integrator for Sustainable Solutions*



Environmental  
Solutions



Property  
Redevelopment



Design/Build  
Construction



Green  
Buildings



Clean  
Energy

*an employee-owned company*

## *WESTON at a Glance*

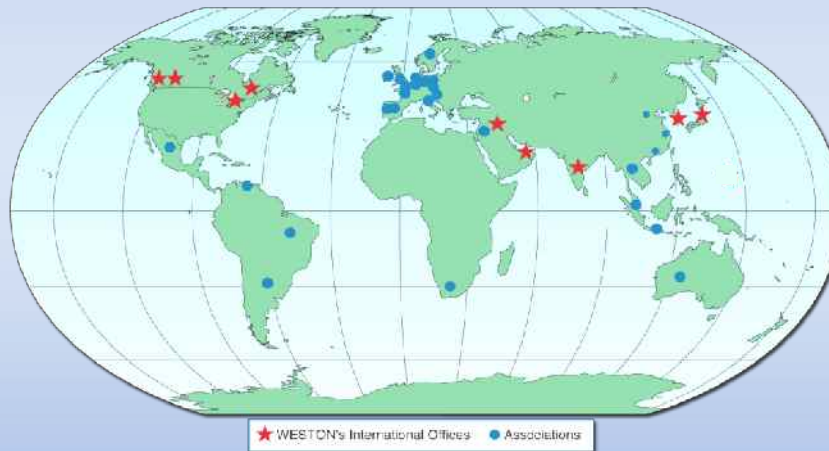
- Providing sustainable solutions since 1957
- A trusted integrator providing services in:
  - Environmental Solutions
  - Property Redevelopment
  - Facilities and Infrastructure
  - Green Buildings
  - Clean Energy
- Employee-owned with a staff of 1,800 in more than 60 offices worldwide
- Strong safety record: EMR .32
- Gross revenue over \$550 million





- Clients and stakeholders trust us to solve complex challenges
- WESTON has been delivering innovative and sustainable solutions for 50 years
- Our people make a difference all over the world

## WESTON's Worldwide Delivery Capabilities in 24 Countries



- Argentina
- Australia
- Belgium
- Brazil
- China
- Czech Republic
- France
- Germany
- Hong Kong
- Hungary
- Indonesia
- Ireland
- Italy
- Jordan
- Mexico
- Netherlands
- Poland
- Portugal
- Singapore
- South Africa
- Spain
- Sweden
- Thailand
- Taiwan
- United Kingdom
- Venezuela

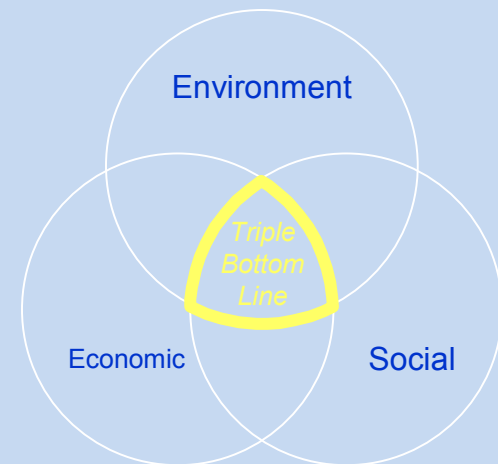
# *India's Urban Infrastructure Challenges*

- Inappropriate planning leading to high construction, O&M costs and project delays.
- Critical infrastructure shortages and major deficiencies
- Rapidly deteriorating environment
- Poor governance & service delivery quality
- Lack of co-ordination & synergy among multitude of service agencies

# *Holistic Approach Achieves Triple Bottom Line Value*

*Integrated Sustainable Infrastructure Design, Construction and Operation provides Triple Bottom Line Synergies that cannot be obtained with conventional approaches.*

- Enhances Low Impact Development
- Little to No Burden on Surrounding Community Infrastructures



# A Sustainable Approach to *All Phases of the Development Process*

## Sustainable Development: Economic and Environmental Advantages

End-users are increasingly demanding the improved environmental and economic performance that results from green development practices, making sustainable development the smart choice for the environment as well as the bottom line.

Weston Solutions India Pvt. Ltd., a subsidiary of Weston Solutions, Inc., is turning developers' visions for sustainable development projects into reality. Weston Solutions India, which has been in India for 10 years, provides value at every stage of the sustainable development process with:

- A well-established team of talented, local professionals on-site in India with the ability to reach out to colleagues around the globe
- The capabilities and resources to plan, design, and implement full-service sustainability solutions
- Skills and experience in forming/integrating local teams with local partners
- Expertise to identify hidden values and potential costs
- Professionals accredited in green building standards who can identify opportunities for improved sustainability

### >Site Selection and Planning

WESTON customizes options to best leverage each site's inherent value.

- Conceptual site plans that include cost-effective, highly visible, and recognizable sustainable elements that aid in property marketability
- Site planning, including evaluating sites against international green building standards and incorporating low-impact design features for maximum profitability
- Review of possible Special Economic Zones advantages and other funding options, including public-private partnerships
- Early stakeholder involvement—including regulators—to streamline permitting, zoning variance, and public-sector funding efforts

### >Design

WESTON helps assess the true costs and benefits of green design elements and our Hyderabad office has extensive engineering and design experience.

- Financial analysis of green design to maximize return on investment
- Analysis of system components to minimize cost and maximize efficiency
- Incorporation of green design elements early in the design process to increase efficiencies
- Workable, practical designs that maximize savings and minimize environmental impact

### >Construction

With extensive, global construction management experience, WESTON has the expertise to bring a green-minded approach to all aspects of facility construction.

- Customized scope of work to meet client needs, including construction management, subcontracting, or managing green demolition
- Ensuring all stakeholders and subcontractors understand green requirements
- Proper documentation of demolition material disposal to ensure no loss of green building credits
- Safe, on-schedule, and on-budget construction management

### >Operations and Maintenance

WESTON provides turnkey startup and operations support to ensure systems are optimized to maximize owner benefit.

- Improved marketability and appeal to current and future tenants
- Optimized building efficiency to improve the triple bottom line of people, planet, and profits
- Tools and technologies to assess and monitor building operational status
- Possible alternative financing methods, such as revenue sharing on outsourced utilities

### >Financing the Deal

WESTON invests in opportunities allowing all parties to maximize the rewards from development of built and natural resources.

- Active participant in public-private partnerships
- Integrated suite of services for full project lifecycle reduces overall risk
- Assumption of environmental liability for impaired properties
- Equity investment or in-kind services lower initial costs to client

### >Renovation/Demolition

WESTON employs a sustainable approach to renovation and, as needed, demolition.

- Preservation and renovation of reusable components
- Maximized salvage and reuse of materials
- Minimized environmental impacts during renovation/demolition
- Recycling and appropriate disposal of all debris



## Integrated Sustainable Infrastructure

### **Energy**

Renewable Energy -  
Energy Conservation and  
Efficiency

### **Water**

Quality Tap Water -  
Maximized Stormwater  
Reuse - Reduce,  
Recycle, Reuse  
Wastewater

### **Solid Waste**

Minimized Landfill -  
Maximized  
Resource  
Recovery  
and Reuse



### **Social and Cultural**

Socially Sustainable  
and Culturally  
Sensitive

### **Safety and Security**

Seamless and  
Unobtrusive -Maximized  
Crime Prevention  
Through Environmental  
Design

### **Information and Communications Technology**

Seamlessly Integrate  
Information and Optimize  
Network Function

### **Transportation**

Carbon Neutral -  
Reliable, Inter-modal,  
Flexible

# ENERGY & HVAC



*Photo Source: Capstone*

**Reliable, Distributed Micro  
Turbine Base Load Generation**



**Renewable Energy**



**Energy Conservation**



**Energy Efficiency**

# Water Supply, Waste Water & Storm Water



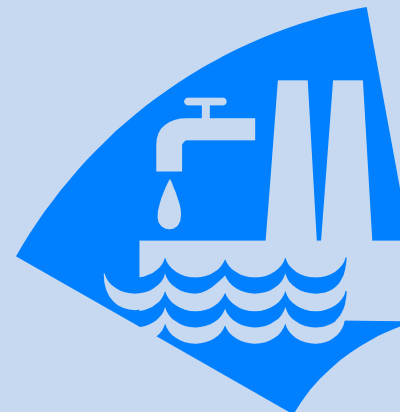
**Quality Tap Water for  
user confidence**



**Capture & Use  
Storm Water**



**Reduce On site  
Wastewater  
Generation  
and Treat for  
Reuse**



**Integrate Systems  
into Broader  
Community  
Infrastructure**



# INTERNAL TRANSPORTATION

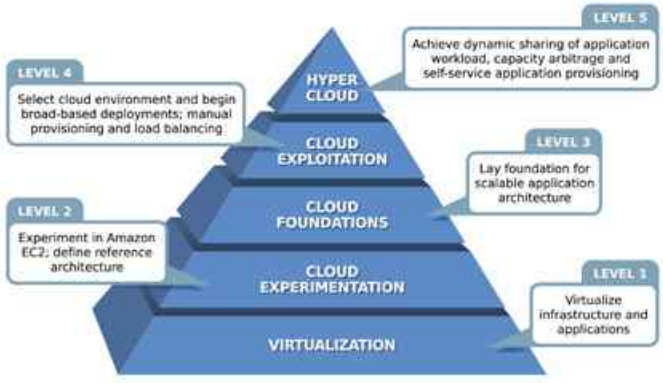


**Alternative Transportation to  
Achieve Carbon Neutrality**



**Comprehensive Transportation  
Management Planning**

# INFORMATION & COMMUNICATION TECH.



**Next Generation Technologies**

**Virtualization Technologies  
Software / Hardware  
optimization**

# SAFETY & SECURITY



**Security and Safety  
Command Center**



**Secure Critical  
Infrastructure**



**Balanced Security Features  
with Sustainable Design**



**Balanced Safety  
features with  
Social  
Expectations**

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*Thank you*

**Ram Pratti**

Weston Solutions India Pvt. Ltd.

524 Road No. 27

Jubilee Hills

Hyderabad, AP 500 033

+91(40) 3048 0900

[Ram.Pratti@WestonSolutions.com](mailto:Ram.Pratti@WestonSolutions.com)