



# SAVY GREENS

SUSTAINABILITY CONSULTING INITIATIVE BY SAVVY GROUP

# WHY GREEN BUILDINGS?

### **GREEN BUILDING HAS BECOME A MOVEMENT GLOBALLY**



### LARGE MNCs ARE LEASING ONLY GREEN SPACES













- Demand green features before leasing out properties
- Include sustainable space requirements as part of their criteria in their location searches

### **GREEN BUILDING HAS BECOME A MOVEMENT LOCALLY**



**Developers who have adopted green rating** 









Demand green features before leasing out properties Include sustainable space requirements as part of their criteria in their location searches













### **GREEN BUILDING HAS BECOME A MOVEMENT GLOBALLY**



### **EXISTING BUILDINGS ARE BEING TURNED INTO SUSTAINABLE ONES**

## Infosys

Implemented deep retrofits in old buildings to turn them into high performance buildings



Two Horizon Center - Gurugram (LEED certified) committed to long-term operational energy efficiency

### TATA POWER

Corporate Centre got a gold rating for achieving green building standards in an existing building



Incorporated practices that improve energy conservation, water saving and waste management systems, improving health and wellness



Noida Campus maximized natural daylight with large, well-lit atriums at their centre



Windsor Hotel - Got LEED
Platinum rating under the LEED
for Existing Buildings program

### PRESTIGIOUS CLIENTS ACQUIRED BY US OWING TO GREEN DEVELOPMENT



**Deloitte.** 



























### SUSTAINABILITY IS A CORE STRATEGY FOR BUSINESSES





# BUILDING SUSTAINABLE IS GETTING AFFORDABLE

### COST OF DEVELOPING GREEN BUILDING IS GOING DOWN



CASE STUDY

### **CONVENTIONAL Vs GREEN BUILDING**





2011

**4,50,000** sq. ft.

Difference per sq. ft. INR 114.11

Percentage Difference **6.35**%



2018

**4,50,000** sq. ft.

Difference per sq. ft.

**INR 22.67** 

Percentage Difference 1.02%

### **GREEN BUILDINGS CONTINUE TO PAY YOU BACK**



LCA

### **ENERGY SAVINGS** | CONVENTIONAL Vs GREEN BUILDING





2011-13

**2,00,000** sq. FT.

28% SAVINGS IN ELECTRICITY BILLS

**2015-18** 

**2,00,000** sq. FT.

53% SAVINGS IN ELECTRICITY BILLS

# HUGE MARKET POTENTIAL FOR SUSTAINABLE CONSTRUCTION

### **GREEN BUILDING ACTIVITY IS GROWING IN INDIA**





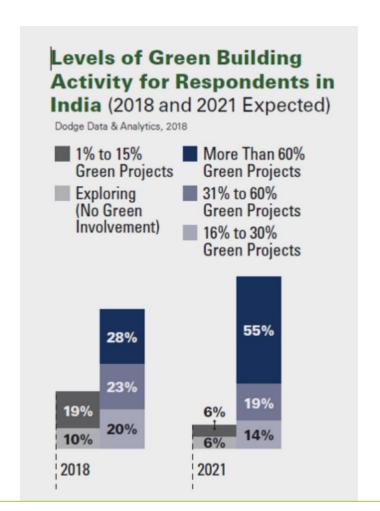
## GREEN BUILDING FOOTPRINT IN INDIA

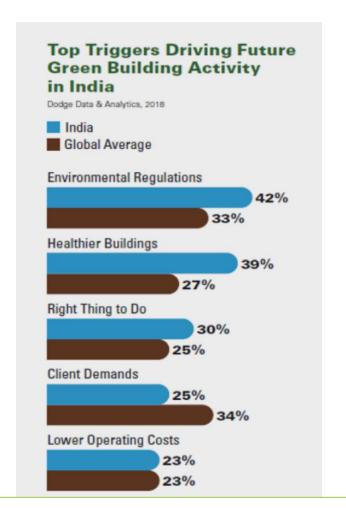


20,000 sq. ft.



10 billion sq. ft. by 2022





### HUGE INVESTMENT OPPORTUNITY IN SUSTAINABLE CONSTRUCTION



The green building sector in India is expected to generate

A USD
1.4 TRILLION
INVESTMENT
OPPORTUNITY
BY 2030\*

70% OF
BUILDINGS
NEEDED BY 2030
ARE YET
TO BE BUILT

\*According to a new report by the International Finance Corporation, a member of the World Bank Group

## SUPPORTIVE GOVERNMENT POLICIES AND ENCOURAGING REGULATORY NORMS FOR GREEN BUILT ENVIRONMENT



- Onstructing green
  buildings is an integral
  part of the government's
  Smart Cities project
- The National Building Code
  2016 incorporates the Energy
  Conservation Building Code
  (ECBC) developed by BEE
- ECBC prescribes a minimum standard for energy use in new commercial buildings

- Oesign guidelines for
  Energy Efficient multistorey residential buildings
  have been launched
- The BEE Buildings Star Rating System rates buildings on a five-star scale based on actual performance in terms of energy usage (in kWh/sqm/year)



# GREEN BUILDINGS ARE A WIN-WIN PROPOSITION FOR EVERYONE

### WIN FOR THE ENVIRONMENT



### **ELIMINATES NEGATIVE IMPACTS ON THE ENVIRONMENT**

Reduces greenhouse gas emissions

Fewer materials and processes
that use less water and energy
without compromising the
quality of the outcome

Approx. 40% - 50% energy savings

Approx. 20% - 30% water savings

More resilient structures, mitigate the damage to communities

Keeps you ready for the evolving regulatory framework

Increases positive social impacts

Healthier, happier and more productive lives

### WIN FOR THE DEVELOPERS



#### BOOSTS CORPORATE IMAGE DUE TO PRESTIGE ATTACHED TO SUCH DEVELOPMENTS

Increases marketability of the project, attracts a premium price and higher rents

Provides tax incentives

Discounts on municipal taxes for classified green buildings

Increased Floor Area Ratio (FAR)



States including Andhra
Pradesh, Bihar, Haryana,
Maharashtra, Punjab and
Uttar Pradesh provide
incentives for green buildings

Subsidy on fixed capital (excluding cost of land, land development, preliminary and preoperative expenses and consultancy fees)

### WIN FOR THE DEVELOPERS



## HIGHER FUNDING OPPORTUNITIES

Investors take ESG factors into consideration before making decisions

Banks and NBFCs may issue concessional construction finance based on the green rating of the building design

Green home loans are already being offered by a few banks and IFC's EDGE program finances green buildings



## LOWER MAINTENANCE & OPERATION COSTS

Reduced operation and maintenance costs make green buildings much cheaper in the long term

### WIN FOR THE END-USERS (OWNERS & TENANTS)

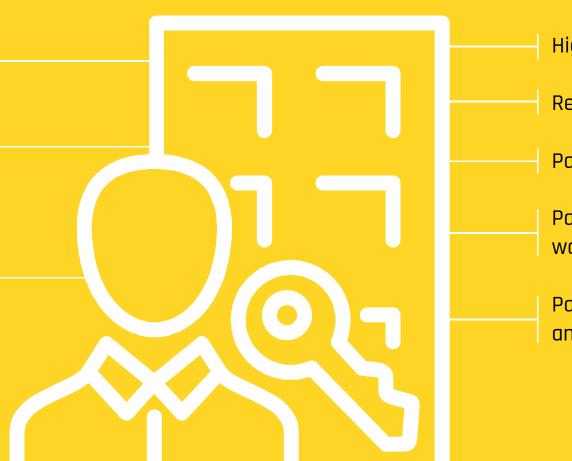


#### **HEALTHIER SPACES FOR OCCUPANTS**

Optimised energy leading to savings of 20%-30%

Alternative sources of water resulting in savings of 40%-50%

Rainwater harvesting reduces
the strain on shared water
resources, reducing the cost on
water pumping, treatment and
reuse of grey water



Higher productivity and returns

Reduced garbage disposal

Pay less for power consumption

Pay less for non-drinking water consumption

Pay less for handling and clean up

### **GREEN BUILDINGS CAN CONTRIBUTE TO THE FIGHT AGAINST PANDEMICS LIKE COVID-19**





### BOOSTS THE HEALTH AND IMMUNITY OF ITS INHABITANTS

Optimises building space and plane layout to enhance the effectiveness of natural ventilation



### PROVIDES BASIC FUNCTIONS FOR EPIDEMIC PREVENTION AND CONTROL

Puts a lot of emphasis on indoor disinfection, cleaning and proper waste management



# REDUCES THE RISK OF INFECTION

Environment-friendly materials to reduce the concentration of indoor air pollutants such as ammonia, formaldehyde, benzene etc., to boost the health of its inhabitants

# WHY WE ARE THE IDEAL PARTNERS IN YOUR GREEN BUILDING JOURNEY

### WE BRING TOGETHER INSIGHTS, EXPERTISE AND WISDOM





M.S. (Purdue Uni., USA) 1992 B.E. Civil (LDCE, India) 1990

Director, Savvy Group

Chairman, Ahmedabad Chapter Indian Green Building Council

Founder Member Singularity University, Ahmedabad

Governing Council Member TiE, Ahmedabad



B.E. Civil (LDCE, India) 1990

Director, Savvy Group

Chairman, CREDAI National

Member of Advisory Board, iHub

Chairman, ASSOCHAM, Gujarat Chapter



B.E. Civil (LDCE, India) 1990 PGDM, Harvard University 2009

Director, **Savvy Group**Trustee, **Apple Global School**Chairman, **Rajpath Club, Ahmedabad** 







## OURVSION

A pollution free and sustainable world where human habitat coexists with nature in perfect symbiosis.

## OURMSSON

Deliver sustainable solutions for the built environment that aligns with your corporate goals in order to propel your business towards maximum profitability.

## OURVALUES

We believe in achieving excellence and brilliance in what we do hence, we are constantly learning, adapting and implementing sustainable strategies to address the environmental and economic needs of our society.

### WE BRING TOGETHER INSIGHTS, EXPERTISE AND WISDOM



## BORN OUT OF A REAL ESTATE DEVELOPER

Savvy Greens is the green building consultancy arm of Savvy Infrastructure

## OFFERING THE BEST OF BOTH WORLDS TO OUR CLIENTS

In all market segments including housing, office space, hotels, shopping centres, etc.

ISO 9001:2008 certified company to have CRISIL rating in Gujarat

Changing the paradigm of the construction business by adopting innovative technologies

LEADING THE NEW NORMAL IN CONSTRUCTION

Design, construction and commissioning

**Green Building** 

### WE UNDERSTAND THE DEVELOPER'S PERSPECTIVE THROUGH OUR OWN EXPERIENCE





Our promoters are pioneers in their field



Thought leaders in Design & Construction and in Green Buildings



We are aware of the changing economic paradigm



Maximize the use of available natural resources



We walk the talk – seamless and stress-free guidance through the entire process



We can handle on-ground challenges and navigate through them

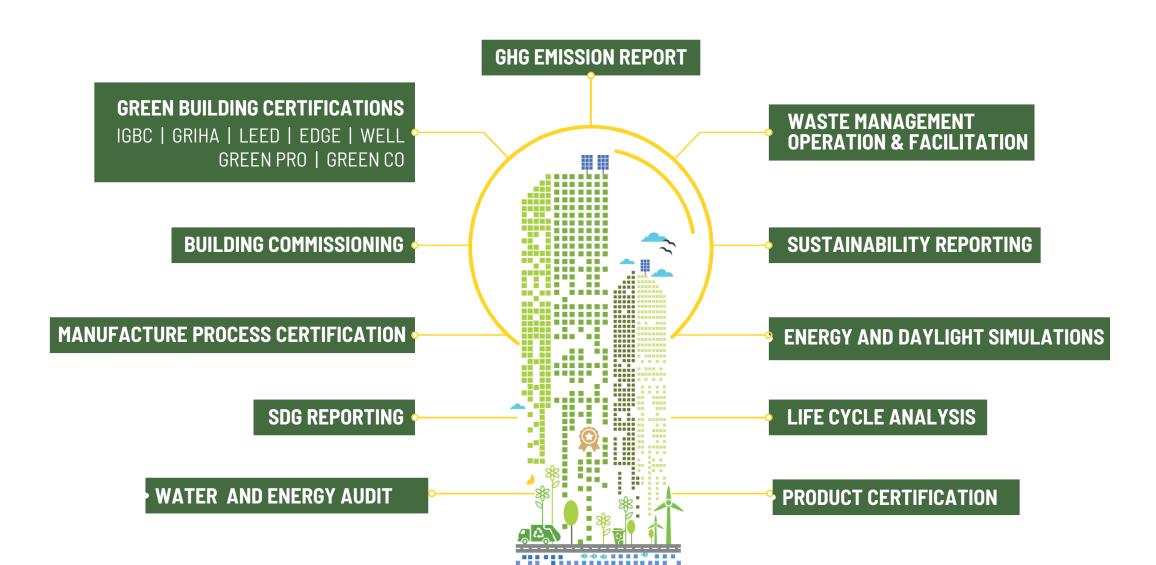


Attention to detail in Building Certification process

# THE SERVICES THAT WE PROVIDE

### LEADING-EDGE SUSTAINABILITY, CUTTING-EDGE TECHNOLOGY





### SAVVY GREENS ENGAGEMENT ASSOCIATIONS WITH CERTIFICATION AGENCIES

























In partnership with





GHG EMISSION REPORT (ISO)









## **ENERGY SIMULATIONS & ANALYSIS FOR OPTIMISATION**

Computer-based energy simulation programs that model energy-consuming processes to predict energy performance

### DAYLIGHT SIMULATIONS

A computer-based calculation of the amount of daylight available inside or outside of a building under one or several sky conditions

## THERMAL COMFORT ANALYSIS

Ensures the thermal comfort of occupants and predict temperature of the buildings in different seasons, times of day and situations

## SHADING ANALYSIS FOR OPTIMISING FACADE DESIGN

One of the key steps during the phase of solar energy system design or in the analysis of shading caused by surrounding objects and/or vegetation **WASTE MANAGEMENT OPERATION AND FACILITATION** 

**BUILDING COMMISSIONING** 

### **GREEN BUILDING CERTIFICATIONS**







# INDIAN GREEN BUILDING COUNCIL (IGBC)

Formed by the Confederation of Indian Industry (CII) in 2001, the council's vision is to enablea 'Sustainable built environment for all'



# GREEN RATING FOR INTEGRATED HABITAT ASSESSMENT (GRIHA)

A rating tool that helps people assess the performance of their building against certain nationally acceptable benchmarks



### LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED)

An internationally recognised green building certification system, providing third-party verification

### **GREEN BUILDING CERTIFICATIONS**







## EXCELLENCE IN DESIGN FOR GREATER EFFICIENCIES (EDGE)

Green building certification that makes it faster and easier to build and brand green, with free software to verify the resource efficiency of your design



### GREENCO RATING

The "first of its kind in the world", holistic framework that evaluates companies on the environmental friendliness of their activities using the life cycle approach



### WELL BUILDING STANDARD

The leading tool for advancing health and well-being in buildings globally



#### **GREEN PRO**

Enables end-users to choose right products, materials and technologies for reducing environmental impacts

### MAKING A DIFFERENCE TO DIFFERENT PROPERTY TYPES





# BUILDING EXPERIENCE THAT COUNTS





IN-HOUSE SUSTAINABILITY CONSULTANTS FOR SAVVY INFRASTRUCTURE SINCE 2007

Highly equipped to handle all phases of Design Stage & Construction Process

QUALITY COMMISSIONING SERVICES

Uncompromised
Quality and Unequalled
Green Architectural
Designs

WIDE ARRAY OF PROJECTS IN GREEN BUILDING DEVELOPMENT

Industrial, Commercial, Residential, etc. MONITORING OF THE BUILDING DURING OCCUPANCY PHASE TO ENSURE SMOOTH FUNCTIONALITY

Attention to Detail in Building Certification Process

### GOING BY THE NUMBERS IN GREEN BUILDING DEVELOPMENT



SAVVY GREENS TOTAL AREA IN GREEN BUILDINGS\*

25 LAKH MILLION SQ. FT.

OF WAREHOUSE AND FACTORY SPACE

10 MILLION SQ. FT.

OF TOWNSHIPS AND HOMES

**2,000 ACRES** 

OF CITIES AND RESORTS

50 LAKH SQ. FT.

OF INTERIORS AND COMMERCIAL SPACE

\*New and Existing Projects





# KEY MILESTONES

#### THE FIRSTS BY SAVVY GREENS



Shri Naminath Jain Derasar

Year: 2017

INDIA'S FIRST PLATINUM RATED JAIN DERASAR



**Savvy Strata** 

Year: 2018

INDIA'S FIRST
PLATINUM RATED GREEN
AFFORDABLE HOUSING



Kensville Golf & Country Club

Year: 2019

INDIA'S FIRST
PLATINUM RATED
GREEN RESORT



Arista Logispace

Year: 2020

GUJARAT'S FIRST PLATINUM RATED GREEN WAREHOUSE



#### THE FIRSTS BY SAVVY GREENS



Savvy Swaraaj

Year: 2017

#### GUJARAT'S FIRST GREEN TOWNSHIP



**Indospace Luhari** 

Year: 2020

# INDIA'S FIRST PLATINUM RATED LOGISTIC PARK CERTIFIED UNDER IGBC'S NEW LOGISTIC PARKS AND WAREHOUSES RATING SYSTEM





**GIFT City** Ongoing

#### INDIA'S FIRST EXISTING GREEN CITY

Certifying over 800 acres with green features like

- Land use planning and built environment
- Health and well-being
- Sustainable mobility
- Water, energy and infrastructure management
- Information and Communications Technology (ICT)
- Integrated Tunneling

#### **OUR PROJECTS THAT HAVE BECOME GREEN ICONS**





Tallest Commercials on SG Highway

Gujarat's Developer in GIFT SEZ

Zero Waste Discharge

Skill Development

18 Hole Championship Golf Course

Residential Water Meters

Sports Academy

Golf Academy

#### PROJECTS BY SAVVY GREENS - GREEN CAMPUS





Under GRIHA Large Developments **2,31,712** sq. m.



Under IGBC Green Campus **Certifying 2,39,497**sq. m.

#### PROJECTS BY SAVVY GREENS - GREEN CITY AND TOWNSHIP







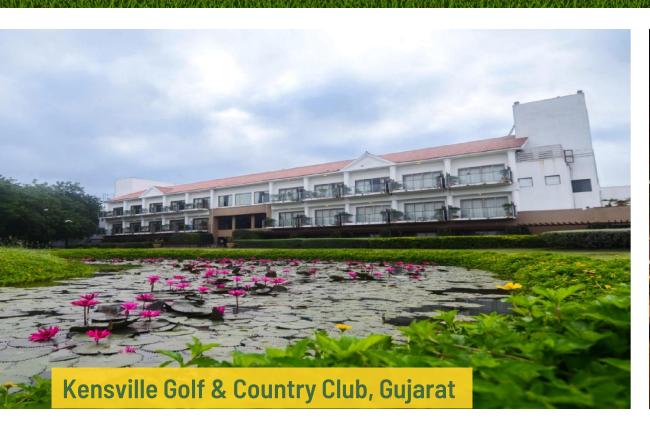
Under IGBC Green City

**836** acres

Under IGBC Green Township **35** acres

#### **PROJECTS BY SAVVY GREENS - RESORTS**





Rajpath Club, Ahmedabad

Under IGBC Green Resort **600** acres

Under IGBC Green Resort **2,17,106** sq.ft.

#### PROJECTS BY SAVVY GREENS - HOSPITALS AND HOSTELS







**Under GRIHA** 

**1,82,988** sq.ft.

Under IGBC Green Homes **2,00,000** sq.ft.

#### PROJECTS BY SAVVY GREENS - IGBC PLATINUM RATED INTERIOR









#### PROJECTS BY SAVVY GREENS - LOGISTIC PARKS, WAREHOUSES AND FACTORIES





#### Indospace projects certifying under EDGE

- Durainallur, Tamil Nadu
- Chakan, Pune
- Polivakkam, Tamil Nadu
- Vallam, Kerala
- Oragadam, Tamil Nadu
- Luhari, Haryana

- Badli, Delhi
- Bhaproda, Haryana
- Rajpura, Rajasthan
- Taoru, Haryana
- Bavla, Gujarat
- Khopoli, Maharashtra

- Ranjangaon, Pune
- Meva, Uttar Pradesh
- Koodapakkam, Pondicherry
- Sri City, Andhra Pradesh
- Vishnuvakkam, Tamil Nadu
- Bommasandra, Karnataka
- Nelamangala, Bengaluru



#### Indospace Projects Certifying under IGBC Logistic Parks and Warehouses

• Bhaproda, Haryana

• Coimbatore,Tamilnadu

• Badli, Delhi

- Durainallur, Tamil Nadu
- Chakan, Pune
- Polivakkam, Tamil Nadu
- Vallam, Kerala
- Oragadam, Tamil Nadu
- **Certified Projects**
- Chakan, Pune
- Oragadam, Tamil Nadu
- Luhari, Haryana







#### Arista Logispace LLP, Jalisana

Under IGBC Green Factory Building

**25,000** sq.m.



#### **Astral Plant, Dholka**

Under IGBC Green Factory Building

**18,580** sq.m.

#### Global Infra LLP, Kolkata

Under IGBC Logistic Parks and Warehouses

**82,058** sq.m.







#### Palava Industrial & Logistics Park, Maharashtra

Under IGBC Green Logistics Park & Warehouses

**3,14,000** sq.m.

#### PROJECTS BY SAVVY GREENS—MEDICAL COLLEGES AND HOSPITALS IN UTTAR PRADESH







#### 13 projects by UP Government at 7 different locations certifying under GRIHA

- KANPUR
- LUCKNOW
- AURIYA
- KUSHINAGAR
- LALITPUR
- SONBHADRA
- SULTANPUR

#### PROJECTS BY SAVVY GREENS - RESIDENTIAL HOMES





Kailash Rejoice 2 | Ahmedabad

Under IGBC Green Homes **10,00,000** sq.ft.

Under IGBC Green Homes **2,00,000** sq.ft.

#### PROJECTS BY SAVVY GREENS - RESIDENTIAL HOMES







Under IGBC Green Homes **3,00,000** sq.ft.

Under IGBC Green Homes **1,90,000** sq.ft.

#### PROJECTS BY SAVVY GREENS - RESIDENTIAL HOMES





The Storeys | Ahmedabad

Under IGBC Green Homes **4,60,000** sq.ft.

Under IGBC Green Homes **6,50,000** sq.ft.





The Statement Vivaan

Under IGBC New Building **3,81,768** sq.ft.

Under IGBC New Building **2,00,000** sq.ft.



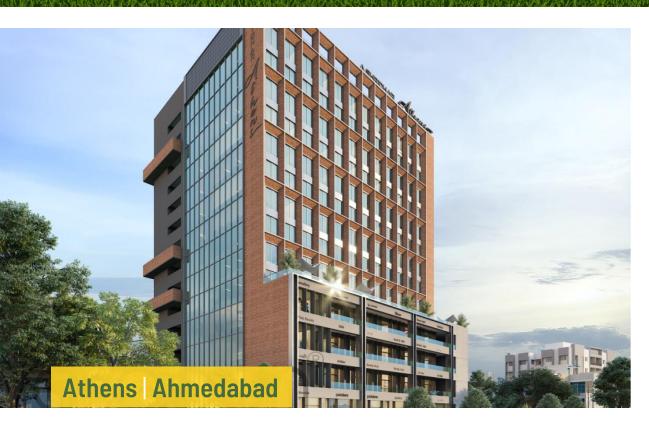


Venus One | Ahmedabad

Under IGBC New Building **56,490** sq.ft.

Under IGBC New Building **75,003** sq.ft.



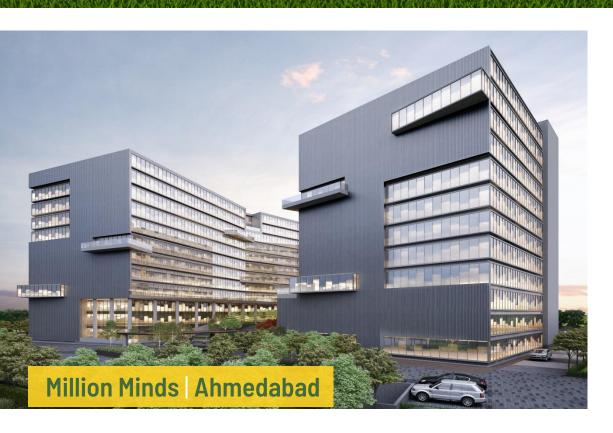


Meraki Latitude | Vadodara

Under EDGE Rating System **2,45,762** sq.ft.

Under EDGE Rating System **67,306** sq.ft.





Under IGBC New Building **11,27,800** sq.ft.

#### GREEN COMPANY & PRODUCTS IN ASSOCIATION WITH SAVVY GREENS





Under LEED O+M, GreenPro, Greenco, GHG Reporting and Life Cycle Assessment **12,000** sq.m.



Under GreenPro

### OUR INTERNATIONAL COLLABORATIONS AND PROJECTS

#### **SAVVY GREENS-ADEC INNOVATIONS**







Savvy Greens believes in fostering partnerships by associating with firms with global presence. In order to facilitate Environmental, Social and Governance (ESG) reporting we have associated with ADEC Innovations, A California based firm, with its global presence in Canada, Europe, Australia, Africa and Asian countries.

#### **ABOUT ADEC INNOVATIONS**





ADEC Innovations advances sustainable practices around the world and helps organizations grow and operate responsibly.

With nearly 40 years of group experience in

DATA SOFTWARE PROFESSIONAL WORKFORCE SOLUTIONS SERVICES SOLUTIONS

Seamlessly delivering fully integrated, cost-effective consulting, data management, and software solutions, ADEC Innovations helps clients save time, reduce costs, optimise resource use, and drive operational efficiencies in a world where sustainability matters.







#### DATA MANAGEMENT | CONSULTING | CLIMATE CHANGE | ENERGY | CARBON | WATER | SUPPLY CHAIN DISCLOSURE SUPPORT



- GHG Inventories (S1,2,3);
   Mitigation Monitoring and Tracking
- Science-based Targets
   Development and Target Setting
- Water Risk Assessments
- ESG Metrics Management

#### CSR AND ESG INDICES



- CDP Support Services (Climate, Water, Forest)
- Gap Analysis and Disclosure Management (EcoVadis, ISS, DJSI, MSCI, etc.)
- CSR Reporting
- ESG Framework Alignment

# ESG CORPORATE STRATEGY & PROFESSIONAL SERVICES

- Materiality Assessment
- TCFD Risk Assessment and Mitigation Planning
- Corporate Change Management
- Supplier Engagement Strategy and Framework
- ESG Policy Development

#### **SAVVY GREENS- SINTALI AND IFC GROUP**









Creating Markets, Creating Opportunities

Savvy Greens believes in fostering partnerships. In order to facilitate green building certification movement via EDGE CERTIFICATION, we are closely associated with Sintali and IFC Group.

#### **SAVVY GREENS - DECATHLON**







Savvy Greens with Decathlon - Malaysia's Retail projects for EDGE Certification, has achieved experience of working on International Projects of large scales.

#### **ENGAGEMENT WITH OTHER CONSULTANTS**

































#### **SAVVY GREENS CLIENTS**





















































#### **SAVVY GREENS - ADEC CLIENTS**



























## AWARDS AND RECOGNITIONS ALONG THE WAY

#### **OUR AWARDS**











Awarded Platinum shield under IGBC Green Interior rating system for IFSCA Headquarters, GIFT City



**Shapath V** awarded under Performance Challenge for office building category



Awarded Platinum shield under IGBC Green Factory rating system for **Arista Logispace**, **Jalisana** 

#### **OUR AWARDS**











Awarded Platinum shield under IGBC Green Interiors for **GIFT House, GIFT City** 



Awarded Platinum shield under IGBC Green Resort for **Kensville Golf and Country Club** 



**BEC Dholera** awarded Platinum shield under IGBC Green Interiors

#### **OUR AWARDS**











Felicitated by **Arista** for green building consulting services



1st place in Zero Waste Category – CII Women in Sustainability



Awarded IGBC gold for Shivalik Avenue under IGBC green homes

## GREEN AWARENESS

#### **WORKSHOPS AND CONFERENCES**









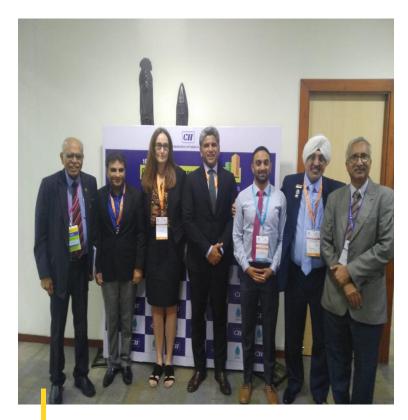
Honourable CM Shri Vijay Rupani at our Waste Management Stall

Mr. Sameer Sinha, Chairman, IGBC Ahmedabad Chapter at the IGBC workshop on Smart Building in Smart Cities

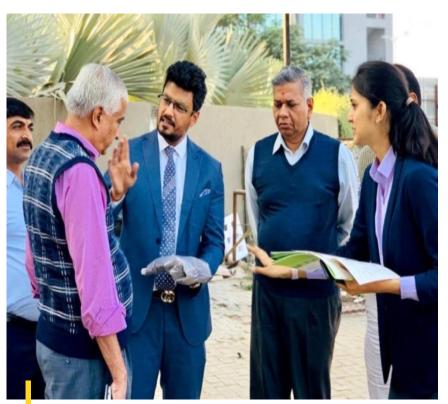
Mr. Jaxay Shah, Chairman,
CREDAI at the Workshop on Safety
Challenges in Glass and Glazing
Aspects by Fire and Security
Association of India

#### **WORKSHOPS AND TRAINING**





Our Association with **Confederation of Danish Industry** 



Training Programs with Government Personnel

with the Environmental Director, Sabarmati Cleaning

Drive with the Commissioner and With the AUDA Director



Training Visit conducted with RERA Officials and their **team** 

With Pragya in association with IGBC and GIFT City to demonstrate Green Building Features

#### **WASTE MANAGEMENT AWARENESS AND TRAINING**





**Trained more than 500 students** on waste management operations



**'Savvy Greens' Zero Waste Efforts'** at Ahmedabad One Mall along with AMC Team

#### **OUR TEAM**



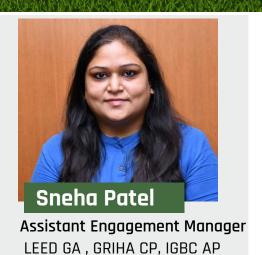


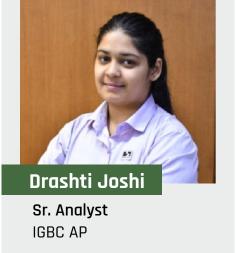
Founder and Director, Savvy Greens

Chairman, Ahmedabad Chapter, Indian Green Building Council





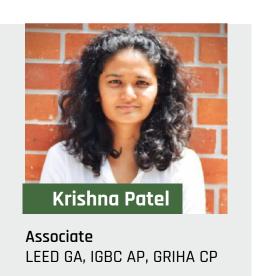






**Sr. Associate**EDGE Expert; IGBC AP









**GET IN TOUCH WITH US** 

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