CATEGORY

BUILDING SYSTEMS

PRODUCT / TECHNOLOGY

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SOLAR ROOF PANEL (ATUM- POWER GENERATING ROOFING SOLUTION)

Alternate to conventional roofing system.

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CONTACT DETAILS

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BRIEF

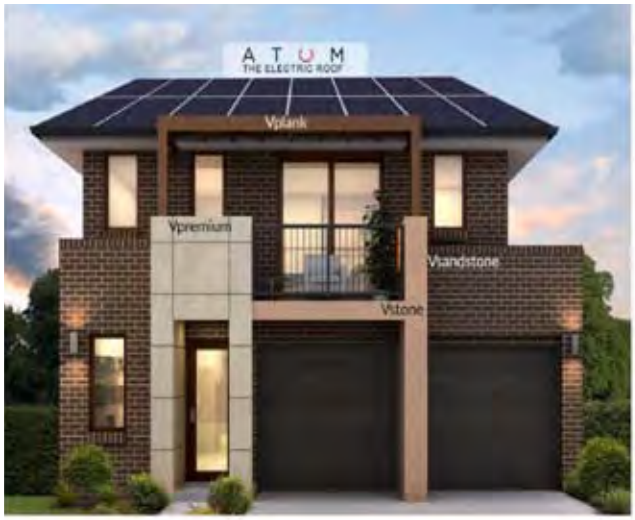
ATUM is the integrated solar roof, which generates electricity and is a completely integrated, seamless solar roof. It is made of cement board, solar cells, toughened glass and aluminum profiles & sealants & presently available in the size of 1975 mmx 1005 mmx17mm. The product has been developed in the year 2018-19 in Secunderabad, Telangana by the Agency & has applications in individual houses, farmhouses, school, institution, commercial buildings, industries etc.

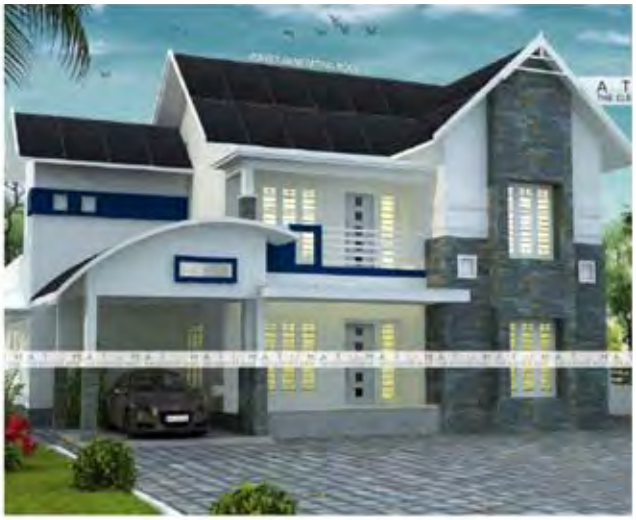
SALIENT FEATURES

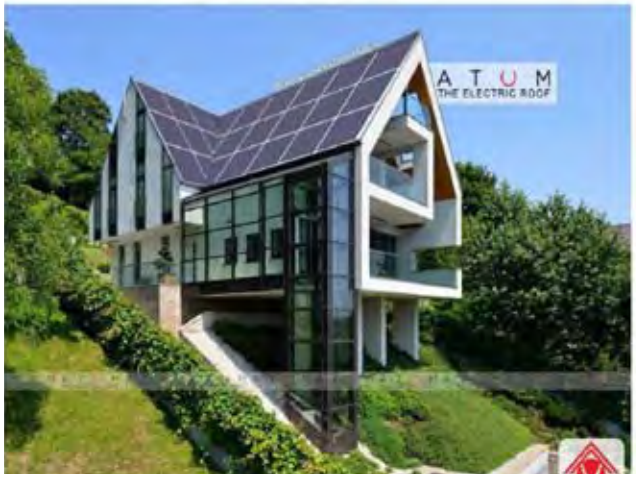
- It is an integrated product which works as a roof and a solar panel.
- ATUM uses GreenPro Certified material which makes it a highly sustainable, reliable, and safe solar roof.
- It is a Leak proof application, which is water, fire, termite & shock resistant.
- Generates 20-40% extra power than traditional solar panels in the same space.
- The electricity generated and used can be easily tracked live on the ATUM App on smartphones.
- A Class fire rated and designed to take wind speeds of over 250 kmph making it hurricane proof.
- It is especially suited to far-flung hilly terrain, difficult areas & rural areas, not connected with electricity network.
- Insulates noise from roof during rain and also keeps the interior cooler in summer.

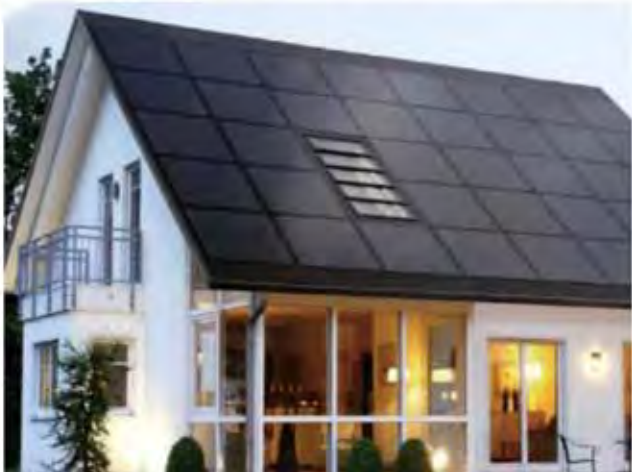
ECONOMIC ASPECTS

- Being factory-produced component, the cost competitiveness depends on economy of scale.
- ATUM can generate 1 kW in 67 sq ft whereas in case of traditional solar rooftop it is 100 sq ft per kW. Given ATUM's better space utilisation, the electricity generated is at least 20% higher than any other solar roof.









SUSTAINABILITY ASPECTS

- The durable roofing option coupled with power generation based on renewable resources, make this product highly sustainable.
- Payback period of the roof is within 6 years. More than 4 times return on investment over 25 years.
- Non-corrosive property and resistant to water and fire.
- Being an electric roof with a cement substrate, ATUM minimises heat transfer into the building. This in turn, reduces the building's energy usage as compared to a traditional sloped concrete roof or industrial Galvalume roofing.

SUITABILITY & AVAILABILITY

- Suitable for all climatic conditions.
- Pan India distributors/ dealers' network.

LIMITATIONS, IF ANY

- Can take live loads upto 600 kgs only.

MARKET LINKAGES

- As distributors/ dealers' network is available Pan-India, the product can be supplied anywhere in the country.

MAJOR PROJECTS

- Rainbow Hospital, Hyderabad,
- Srinidhi foods, Tamilnadu
- KhorFakkan Mosque, UA,
- SonamWangchuk battery house, Ladakh
- Individual Houses, Farm Houses, School Building, Industries etc.

CERTIFICATION/INDIAN STANDARD/ ENDORSEMENT

- Granted 20 years patent by India Patent Office and South Africa Patent Office for "Eco-Friendly Energy Generating Roof."
- UL Certification as per International Electro technical Commission (IEC) standards.
- Certified by the Campbell Corporation, to take a uniform load of 780 lbs per sqft, a snow load of 2200 lbs, and the jointing mechanism is a patented leak proof system as per American Society for Testing and Material (ASTM) Standards.
- BIS certification (IS 14286: 2010/ IEC 61215: 2005, IS/IEC 61730 (Part 1): 2004 & IS/IEC 61730 (Part 2): 2004 for the product i.e. Crystalline silicon terrestrial Photovoltaic (PV) Modules (Poly-crystalline)