Decarbia™
Advancing carbon neutrality with DOW

DOW®

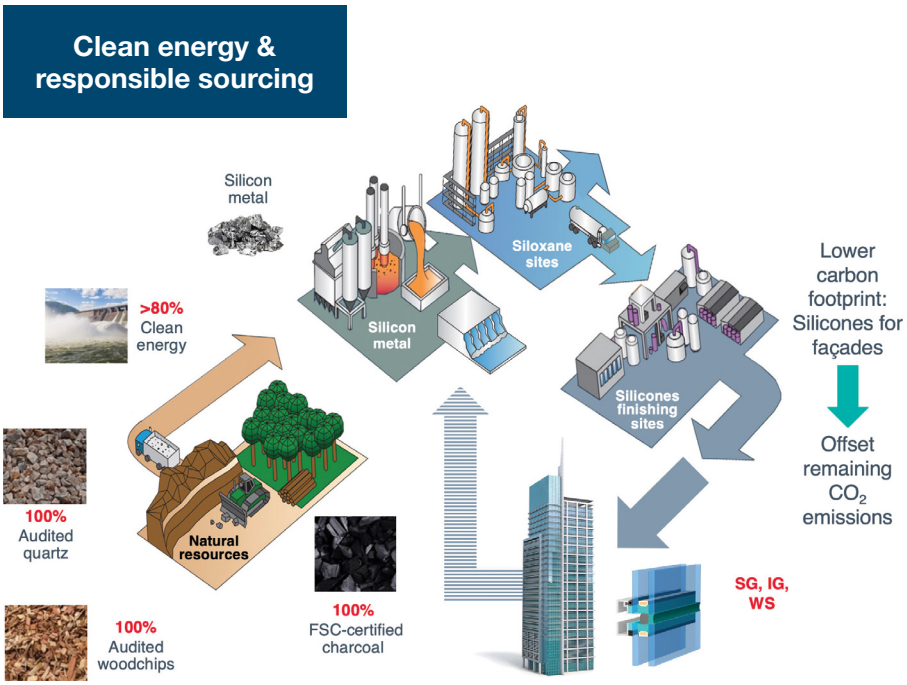
Smart science: Carbon-neutral silicones for more sustainable building façades

Innovative Dow Carbon-Neutral Silicone Service for Building Façades now available for structural glazing, insulating glass, weathersealing applications

The first-ever carbon neutrality service is now available for silicones used in structural glazing, insulating glass and weathersealing applications on high-performance building façades. Produced in compliance with the internationally recognized PAS 2060 verified carbon neutrality standard, Dow carbon-neutral silicones for building façades can support green-building design initiatives, enhance façade sustainability and improve green-building ratings.

Reducing embodied carbon emissions

The journey toward carbon-neutral silicones starts with Dow's investment in decarbonizing our backward-integrated production process for silicone feedstocks. Low-carbon silicon metal is produced with clean, renewable energy and responsibly sourced, audited raw materials. The remaining embodied carbon is offset (sequestered) to achieve carbon neutrality.



Designing with more freedom by engineering less impact

Industry-trusted carbon neutrality

With the breakthrough commercially available Dow Carbon-Neutral Silicone Service for Building Façades to help reduce construction greenhouse gases, Dow aims to help ensure industry trust and specifier confidence by adhering to the PAS 2060 standard and avoiding claims of "greenwashing." Key steps for verified carbon neutrality include:

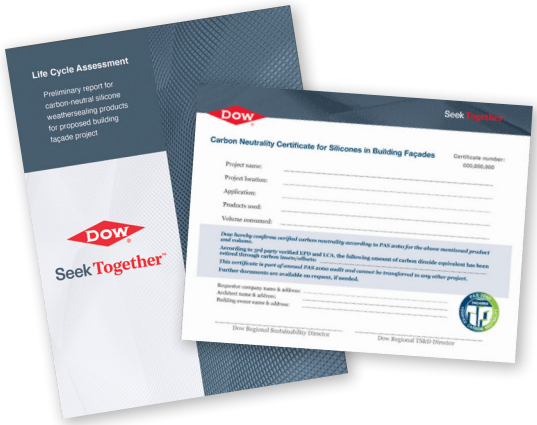
- Calculate embodied carbon and lower carbon footprint
- Identify opportunities for continued emission reduction
- Implement plan and determine reduced footprint
- Offset remaining CO_2 emissions
- Offer a qualifying explanatory statement (QES) for review by independent experts
- Gain carbon-neutral silicone certification

Dow carbon-neutral silicones for building façades can contribute to energy and material efficiency. Benefits can include reduced aluminum usage and enhanced carbon balance. On a 30,000 m^2 façade, up to 600 tons of CO_2 equivalent can be saved.

PAS 2060 FAÇADES VERIFIED CARBON NEUTRALITY

Global carbon neutrality support

Architects and building designers can request the Dow Carbon-Neutral Silicone Service for Building Façades on specific projects globally that involve Dow carbon-neutral silicones for building façades.

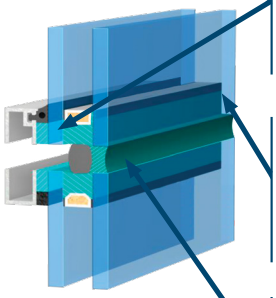


Documentation and project support tools include:

- *Externally audited CO_2 certificates*, following the PAS 2060 standard for verified carbon neutrality
- *Life Cycle Analyses (LCAs)* to show the positive environmental impact of carbon neutrality
- *Product specifications* for use in submittals
- *COOL 4.0 project management tools* with integrated carbon neutrality services on specific projects
- *Building Science Connect* **(dow.com/buildingscienceconnect)**, a showcase of Dow products, services and innovations, includes the Dow Carbon-Neutral Silicone Service for Building Façades for individual projects involving Dow carbon-neutral silicones for building façades

Silicones for more sustainable façades

Dow carbon-neutral silicones for building façades can help enhance sustainability in these façade applications:



Structural glazing

- DOWSIL™ 993 Silicone Sealant (2-part) – Europe
- DOWSIL™ 983 Silicone Sealant (2-part) – U.S., Korea
- DOWSIL™ 993N Silicone Sealant (2-part) – China

Insulating glass

- DOWSIL™ 3363 Silicone Sealant (2-part) – Europe
- DOWSIL™ 3363 (US) Silicone Sealant (2-part) – U.S.
- DOWSIL™ 3363 (CN) Silicone Sealant (2-part) – China
- DOWSIL™ 982 Silicone Sealant (2-part) – Korea

Weathersealing

- DOWSIL™ 791 (EU) Silicone Sealant (1-part) – Europe
- DOWSIL™ 791 Silicone Sealant (1-part) – U.S., Korea
- DOWSIL™ 791 (CN) Silicone Sealant (1-part) – China
- DOWSIL™ 795 (US) Silicone Sealant (1-part) – U.S.

Learn more

Learn more about the Dow Carbon-Neutral Silicone Service for Building Façades for individual projects involving Dow carbon-neutral silicones for building façades in structural glazing, insulating glass and weathersealing applications by visiting **dow.com/carbonneutralsilicones**.

Rely on our materials innovation, application experience, broad technical services, and global supply capabilities with local support. Learn more at **dow.com/buildingscience**.

Dow has sales offices, manufacturing sites, and science and technology laboratories around the globe. Find local contact information at **dow.com/contactus**.

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