

CDMG Discusses Metal Building Recycling Steps

May 25, 2021

Canonsburg, Pennsylvania - May 25, 2021 -
Metal building company, CDMG, has released a detailed article emphasizing the sustainable characteristic of metal buildings. According to the top metal building company, steel is the most recycled material in the United States. That's one of the reasons it's a popular choice for metal medical buildings. The article lists the top ways to recycle metal; adding scrap steel is more valuable than any other recycled material. This starts with the collection and separating of steel from different materials.

Click on the following link to read the entire article: https://www.cdmg.com/building-faqs/how-do-you-recycle-a-metal-building.

The Pennsylvania steel building kit supplier explains that the metal from old buildings goes through the recycling process.

The processing of old steel structures is done to shred the metal and make the melting process easier as small shredded metals have a large surface-to-volume ratio. Recycled steel is then converted to steel blocks. The next step is melting the steel in a large furnace designed to melt different types of steel or other metal

materials. According to the leading supplier of metal building kits in Pennsylvania, this part of the recycling process requires the most energy but is still significantly better than adding to landfills.

The next step is the purification process to develop a high-quality final recycled product without any contaminants. CDMG lists solidifying as the next step in the recycling of steel when the melted metal is cooled and solidified on a conveyor belt and formed into specific shapes.

The final stage is the transportation of steel to various factories for use as raw material. According to the top Pennsylvania metal building company, recycling of steel has various environmental benefits as the recycled metal is kept out of landfills. Recycling old steel is an important way to reduce greenhouse emissions. The article explains how recycling steel involves less use of energy than the production of a new structural steel element.

The top metal building supplier in Pennsylvania adds economic benefits to the metal recycling list, stating that the industry provides substantial employment opportunities. Project owners can make considerable savings by reducing project disposal costs, transportation costs, and the cost of new construction materials as scrap metal can be recycled on-site.

CDMG is the leading pre-engineered metal building contractor in Pennsylvania, with decades of steel design, supply, and erection experience. Anybody interested to build with steel should get in touch with the CDMG via their website and benefit from the durability, flexibility, and cost-effectiveness of a pre-engineered metal building.

https://www.youtube.com/embed/nLsM2sXKERY

Get started with the next steel building project today by asking for a free quote from the top metal building company in Pennsylvania.

###

For more information about CDMG Metal Buildings, contact the company here:CDMG Metal BuildingsThomas M. Corry(724) 873-4700info@cdmg.comSouthpointe Industrial Park150 Technology DriveCanonsburg, PA 15317

{
 "@context": "http://schema.org",
 "@type": "Organization",
 "sameAs": [
  "https://www.google.com/maps/place/CDMG/@40.281041,-80.1729956,17z/data=!3m1!4b1!4m5!3m4!1s0x88345411e6c7b983:0xa602fee65f5ab56a!8m2!3d40.2810369!4d-80.1708069",
  "https://www.linkedin.com/company/continental-design-and-management-group/",

```
  "https://www.mapquest.com/us/pennsylvania/cdmg-350855393"
 ],
 "alternateName": "Continental Design & Management Group",
 "contactPoint": {
  "@type": "ContactPoint",
  "name": "Contact Page",
  "@id": "https://www.cdmg.com/contact-cdmg"
 },
 "email": "info@cdmg.com",
 "foundingDate": "1991-02-12T00:00:00+0000",
 "image": "https://www.cdmg.com/hubfs/CDMG_January2019/Images/content-1-4.jpg",
 "description": "Established in 1991, CDMG is one of the nation?s foremost engineering companies serving industrial markets and customers. From its office in Southpointe (20 miles south of Pittsburgh), CDMG features a staff of experienced multi-discipline engineers and project management professionals. As a wholly owned subsidiary of the STEVENS family of companies, CDMG provides the resources to design and manage projects with a focus on efficient operations. Our goal is to always deliver projects on time, within budget, and to the highest level of quality.",
 "areaServed": "https://en.wikipedia.org/wiki/United_States",
 "logo": "https://www.cdmg.com/hubfs/CDMG_January2019/Images/cropped-CDMG-logo.png",
 "additionalType": "http://www.productontology.org/doc/Industrial_engineering",
 "address": {
  "@type": "PostalAddress",
  "addressCountry": "USA",
  "addressLocality": "Canonsburg",
  "addressRegion": "PA",
  "postalCode": "15317",
  "streetAddress": "150 Technology Drive"
 },
 "brand": "https://www.cdmg.com/",
 "foundingLocation": "https://en.wikipedia.org/wiki/Canonsburg,_Pennsylvania",
 "url": "https://www.cdmg.com/",
 "telephone": "+1 (724) 873-4700",
 "memberOf": [
  "https://www.mbma.com/",
  "https://www.iasonline.org/"
 ],
 "name": "CDMG",
 "@id": "https://www.cdmg.com/"
```

```
}

[
  {
    "@context": "http://schema.org",
    "@type": "BlogPosting",
    "author": {
      "@type": "Organization",
      "contactPoint": "https://www.cdmg.com/contact-cdmg",
      "foundingLocation": "https://en.wikipedia.org/wiki/Canonsburg,_Pennsylvania",
      "foundingDate": "1991-02-12T00:00:00+0000",
      "areaServed": "https://en.wikipedia.org/wiki/United_States",
      "memberOf": [
        "https://www.iasonline.org/",
        "https://www.mbma.com/"
      ],
      "address": {
        "@type": "PostalAddress",
        "addressCountry": "USA",
        "addressLocality": "Canonsburg",
        "addressRegion": "PA",
        "postalCode": "15317",
        "streetAddress": "150 Technology Drive",
        "@id": "https://www.cdmg.com/#PostalAddress254861d4-de33-413e-9160-4895f0054ed0"
      },
      "url": "https://www.cdmg.com/",
      "alternateName": "Continental Design & Management Group",
      "additionalType": "http://www.productontology.org/doc/Industrial_engineering",
      "image": "https://www.cdmg.com/hubfs/CDMG_January2019/Images/content-1-4.jpg",
      "name": "CDMG",
        "description": "Established in 1991, CDMG is one of the nation?s foremost engineering companies serving industrial markets and customers. From its office in Southpointe (20 miles south of Pittsburgh), CDMG features a staff of experienced multi-discipline engineers and project management professionals. As a wholly owned subsidiary of the STEVENS family of companies, CDMG provides the resources to design and manage projects with a focus on efficient operations. Our goal is to always deliver projects on time, within budget, and to the highest level of quality.",
      "logo": "https://www.cdmg.com/hubfs/CDMG_January2019/Images/cropped-CDMG-logo.png",
      "email": "info@cdmg.com",
```

```
        "telephone": "+1 (724) 873-4700",
        "sameAs": [
            "https://cdmgcannonsburg.s3.us-east-2.amazonaws.com/index.html",

"https://www.google.com/maps/place/CDMG/@40.281041,-80.1729956,17z/data=!3m1!4b1!4m5!3m4!1s0x88345411e6c7b983:0xa602fee65f5ab56a!8m2!3d40.2810369!4d-80.1708069",
            "https://www.linkedin.com/company/continental-design-and-management-group/",
            "https://www.mapquest.com/us/pennsylvania/cdmg-350855393"
        ],
        "brand": {
            "@id": "https://www.cdmg.com/"
        },
        "@id": "https://www.cdmg.com/"
    },
    "keywords": [
        "How Do You Recycle A Metal Building?",
        "Pre-engineered Metal Building",
        "Prefabricated Metal Building",
        "Prefab steel building",
        "Steel Buildings"
    ],
    "headline": "How Do You Recycle A Metal Building?",
    "name": "How Do You Recycle A Metal Building?",
    "audience": "Businesses looking to recycle their metal building",
    "mentions": [
        "https://en.wikipedia.org/wiki/Environmental_degradation",
        "https://en.wikipedia.org/wiki/Environmentally_responsible",
        "https://en.wikipedia.org/wiki/Green_building",
        "https://en.wikipedia.org/wiki/Landfill",
        "https://en.wikipedia.org/wiki/Pre-engineered_building",
        "https://en.wikipedia.org/wiki/Recycling",
        "https://en.wikipedia.org/wiki/Steel_building",
        "https://en.wikipedia.org/wiki/Structure"
    ],
    "datePublished": "2021-05-21T09:49:00-04:00",
                                                                    "image":
"https://www.cdmg.com/hs-fs/hubfs/What%20Is%20A%20Pre-engineered%20Metal%20Building_%20(1).png?width=2400&name=What%20Is%20A%20Pre-engineered%20Metal%20Building_%20(1).png",
```

"description": "In this article, we discuss the process of recycling a metal building. Pre-engineered steel buildings are environmentally friendly. A metal building reduces energy costs, saves on lumber, and has the ability to be recycled and reused for other things once it's done being used. Contact us today to see how CDMG can help you go green with a pre-engineered building. ",

"articleBody": "Did you know that steel is one of the most recycled building materials in the construction industry? Any steel product, including steel buildings that reach the end of its lifecycle or are no longer needed, is 100% recyclable. Any steel decks, steel joists, steel beams, or steel doors can be recycled and used again. And not only can it be recycled, but it can be recycled into a completely different product. That means parts of your old metal building could be turned into bicycles. Steel is often chosen as a building material for its strength and durability, but more and more people choose it now because of its sustainability. More than 60 million tons of steel are recycled every year in the U.S. alone. Globally that number increases by almost ten times. It's the most recycled material. In the article below, we will go over the process of recycling your old metal building and a few of the benefits that come with doing so. How A Metal Building Is Recycled There are seven main stages in the recycling process for a recycled steel building. Those seven steps are as follows: Collecting The Steel The process of collecting metal to be recycled is different from collecting other materials because scrap steel is much more valuable than other recycled materials. That's why scrap steel is more likely to be sold to scrap yards and not landfills. Although the structural steel used to make prefabricated metal buildings is often recycled, the largest source of scrap metal in the United States comes from recycled vehicles. In addition to prefab steel buildings and automobiles, other sources of recycled metal are railroad tracks, ships, and farm equipment. Steel scrap produced during the manufacturing of new products, called prompt scrap, accounts for half of the scrap metal supply. Sorting The Steel The sorting portion of the recycling process consists of separating the types of metal from the mixed scrap metal stream or the mixed multi-material waste stream. If the recycling operation is automated, magnets and sensors are used to separate the materials. Processing The Steel To allow for further processing of your old steel structure, the metals will be shredded. Recycled steel is shredded to make the melting process easier because small shredded metals have a large surface-to-volume ratio. That means they can be melted using less energy. Recycled steel is usually converted to steel blocks. Melting The Steel The old parts of your prefabricated steel building are now melted in a large furnace. Each type of metal is taken to a specific furnace designed to meet the different types of steel or other metal material. This part of the recycling process requires the most energy. But the energy used in this process and the other steps of the process is much less than the energy required in the steel-making process for new steel. Based on the size and temperature of the furnace and the amount of metal being melted, melting can take just a few minutes to a few hours. Purifying The Steel The purification process ensures that the final recycled product is high quality and free of contaminants. The most popular method for purifying scrap metal is Electrolysis. Solidifying The Steel Once your steel has been purified, the melted steel is placed on a conveyor belt to be cooled and solidified. During this stage, the steel is formed into specific shapes like the bars we talked about earlier, so they can be used to produce various metal products. Transporting The Steel The final stage in the recycling process of any steel construction product is the transportation phase. Once the steel has been cooled and

solidified, it's ready to be used again. The steel is typically transported to various factories where it will be used as raw material to produce new products, like a brand new prefabricated metal building. When the new steel building made out of recycled steel is no longer needed, the metal recycling process begins again. Benefits Of Recycling Your Metal Building There are several ways the steel industry and the planet can benefit from recycling old metal building materials. Environmental Benefits First, and perhaps the two most significant environmental benefits of recycling old steel are the conservation of landfill space and the reduction of greenhouse emissions. Already full landfills continue to grow. When your old pre-engineered steel building is recycled, you are keeping those materials out of the landfills. Recycling old steel helps to decrease greenhouse emissions. When steel is recycled and used again, less energy is needed than when a new structural steel element is produced new. Recovered materials can themselves be used as a fuel source, taking the place of burning fossil fuels. The U.S. EPA has developed a Waste Reduction Model (WARM), which includes emission factors developed for steel. For every 350 million tons of building materials recycled, over 22 million metric tons of CO2 are avoided annually. The equivalent of over 85 million barrels of oil can be saved as well. In addition to that, the extraction, transportation, and processing of raw materials which can damage the environment are avoided. Economic Benefits For Recycling Metal Buildings Recycling your old metal building system also has economic benefits. The recycling industry employs more people than landfills. The industry could support up to 19,000 employees at the various recycling facilities. Recycling facilities benefit the local community through direct financial investments of more than $4.5 billion. The direct revenue estimate for the industry could result in more than $7 billion and a more significant economic contribution of over $17 billion. You will also save money by reducing project disposal costs, transportation costs, and the cost of new construction materials by recycling scrap metal on site. Build Your Pre-engineered Metal Building With CDMG Just about every steel building you come across will contain at least a little bit of construction steel. For that and many other reasons, steel is the most cost-effective building material to use. You build with steel because it's strong, durable, and it provides increased energy efficiency starting with the steel production to the performance of your completed steel building kit. The metal building team at CDMG can design, supply, and erect your steel building. Their experts will be with you from step one until the completion of your project, making sure that everything meets your specifications. With years of experience and expertise in the metal building industry, we will help you get the steel building that's just right for your project. Click the button below to get started.",

"dateModified": "2021-05-24T09:50:00-04:00",
"alternativeHeadline": "How Do You Recycle A Pre-engineered Metal Building?",
"url": "https://www.cdmg.com/building-faqs/how-do-you-recycle-a-metal-building",
"sameAs": "https://www.youtube.com/watch?v=nLsM2sXKERY",
"timeRequired": "P0Y0M0DT0H7M0S",
"about": "https://en.wikipedia.org/wiki/Pre-engineered_building",
"wordCount": 1163,
"inLanguage": "English",
"mainEntityOfPage": {

```
        "@id": "https://www.cdmg.com/building-faqs/how-do-you-recycle-a-metal-building"
      },
      "publisher": {
        "@id": "https://www.cdmg.com/"
      },
      "video": {
        "@type": "VideoObject",
        "name": "Recycle A Metal Building Video",
            "description": "Did you know that steel is one of the most recycled building materials in the construction industry?  Any steel product, including steel buildings that reach the end of its lifecycle or are no longer needed, is 100% recyclable.  Any steel decks, steel joists, steel beams, or steel doors can be recycled and used again.  And not only can it be recycled, but it can be recycled into a completely different product.  That means parts of your old metal building could be turned into bicycles.  Steel is often chosen as a building material for its strength and durability, but more and more people choose it now because of its sustainability.  More than 60 million tons of steel are recycled every year in the U.S. alone.  Globally that number increases by almost ten times. It's the most recycled material.  In this video, we will go over the process of recycling your old metal building and a few of the benefits that come with doing so.",
        "duration": "P0Y0M0DT0H3M38S",
        "contentUrl": "https://www.youtube.com/watch?v=nLsM2sXKERY",
                                                                                "thumbnailUrl": "https://www.cdmg.com/hs-fs/hubfs/Pre-engineered%20Metal%20building%201%20(1).png?width=2400&name=Pre-engineered%20Metal%20building%201%20(1).png",
        "uploadDate": "2021-05-24",
        "embedUrl": "https://www.youtube.com/embed/nLsM2sXKERY",
        "@id": "https://www.cdmg.com/building-faqs/how-do-you-recycle-a-metal-building#VideoObject"
      },
      "@id": "https://www.cdmg.com/building-faqs/how-do-you-recycle-a-metal-building"
    },
    {
      "@context": "http://schema.org",
      "@type": "WebPage",
      "isPartOf": {
        "@type": "WebSite",
        "url": "https://www.cdmg.com/engineering-metal-building-systems-company",
        "name": "CDMG",
        "@id": "https://www.cdmg.com/engineering-metal-building-systems-company#WebSite"
      },
      "headline": "How Do You Recycle A Metal Building?",
```

```
    "name": "How Do You Recycle A Metal Building?",
    "alternativeHeadline": "How Do You Recycle A Pre-engineered Metal Building?",
    "url": "https://www.cdmg.com/building-faqs/how-do-you-recycle-a-metal-building",
    "about": "https://en.wikipedia.org/wiki/Steel_building",
    "@id": "https://www.cdmg.com/building-faqs/how-do-you-recycle-a-metal-building#WebPage"
  }
]
```


CDMG Metal Buildings

From our Southpointe office in Canonsburg, Pennsylvania (20 miles south of Pittsburgh), CDMG serves the engineering and project/construction management needs of customers nationwide.

Website: https://www.cdmg.com/

Email: info@cdmg.com

Phone: (724) 873-4700