



CELEBRATING 75 YEARS OF RESOURCE CONSERVATION IN CENTRAL MARIN



Marin Sanitary's roots began near the City of Genova in Italy. Italians in this region learned out of necessity not to waste anything. This ethic transferred to San Francisco in the early 1900s with the Scavengers Protective Association; one of the largest companies collecting waste in San Francisco. Scavengers because they sorted through garbage reusing

or reselling bottles, wood, clothing, rags, metal and newspaper in greater volumes than waste which was landfilled.

In 1948, original partners of Marin Sanitary, Joe Segale and Guido Zanotti moved to Marin County to collect waste. They were followed by Joe Garbarino Sr., Ruben Valtierra, Ernie Zappettini, and Lorry Marcone in 1952. In 1955, Joe Garbarino Jr. and Joe Cattaneo joined and the company took on the name Marin Sanitary Service.

In the early 1980s, Marin Sanitary Service became a pioneer in resource recovery with the first county wide curbside collection of recyclables and the first material recovery facility (the indoor dump) in the country.

Today, there are three generations of Garbarino's working with Joe Jr. as he continues to lead Marin Sanitary as the Chairman of the Board.

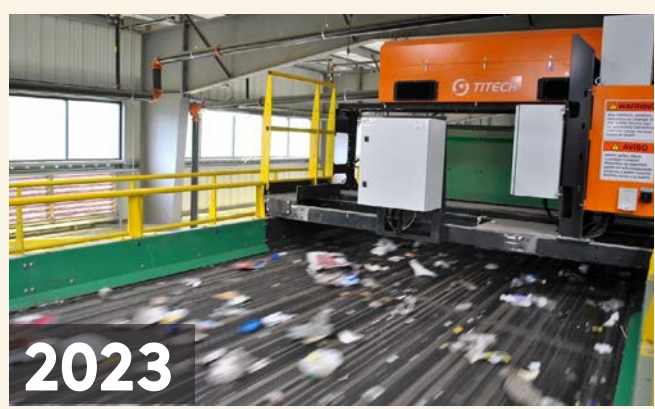
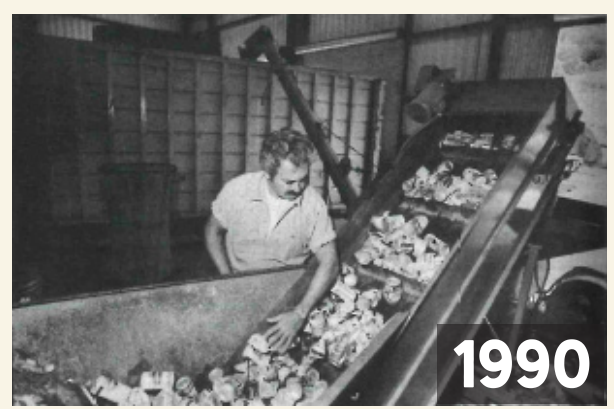
THEN & NOW

Over the past 75 years, advancements in technology have enhanced our equipment and improved our overall operations, but one thing that will never change is our commitment to resource conservation.



GARBAGE TRUCKS

In the early days it was horse-drawn garbage collection. Today we have state of the art trucks that dump cans with an automated arm providing efficient service while preventing injuries for drivers.



PROCESSING RECYCLABLES

Sorting recyclables at our recovery center was once all by hand! But thanks to our new state of the art optical sorter that can recognize materials by shape and color, our crews can now save time, energy and recover even more materials for reuse and recycling.



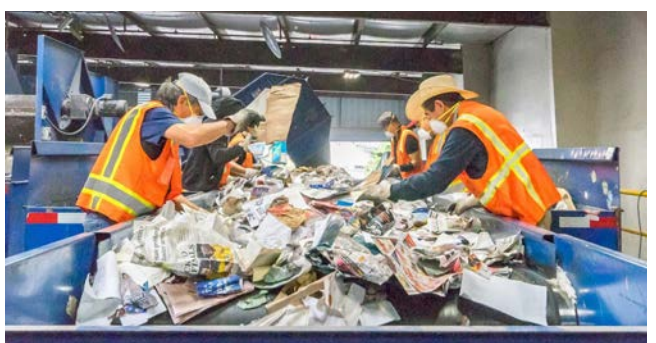
ORGANICS RECYCLING

We have come a long way in processing organics. While we still feed some of our animals with organics we collect, we use machines to process material that is sent to create compost and energy.

THE STATE OF RECYCLING

Things are very different since Marin Sanitary rolled out curbside collection of recyclables. MSS has moved from crates/buckets of recyclables left curbside to split-cart recycling with specialized automated trucks that help keep materials as clean, dry and free of contamination. This advancement has led to more recyclables being collected, but has also led to significant contamination.

Contaminants are anything not recoverable or recyclable. Just because an item is made of recyclable material, doesn't mean it will be recycled. Of all plastics ever produced only about 9% have been recycled (OECD Global Plastics Outlook Database). Many plastics are not recyclable, and can be toxic to health and the environment. Many are not recoverable in any recycling processing systems. They are too dirty, mixed with other materials or have additives and can't be recycled with other plastics.



Recent media attention has led many to question the recycling industry. These issues are real, and non-recoverable plastics and other items negatively impact our operation daily. However, **in 2022 we recycled 25,000 tons of material!** All plastics were recycled domestically and cardboard and paper are recycled in the US, Mexico and various Asian Countries.

- You can be confident that
- when you place the **proper**
- **items** in your recycling cart;
- clean paper, cardboard,
- glass, metal and plastic
- bottles and cans, those
- **items will get recycled!**

PLANNING FOR THE FUTURE WITH OPTIMISM AND INNOVATION



As we look toward our next 75 years, Marin Sanitary continues to innovate and conserve resources. The impacts of the materials we throw away will have lasting affects. Plastic pollution is becoming more of an issue every day. We see more and more plastic in our lives, but so little of plastics can be recycled. Of all plastics ever produced, only 9% globally have been recycled. Plastic is cheap and convenient, but at the expense of the environment and future generations. Governments and manufacturers must do more to conserve precious resources.

Marin Sanitary continues to research vehicle emissions, improved technologies to separate and recycle materials and ways to get more value out of the materials we collect. Currently food waste from restaurants and grocery stores creates energy for the community. We hope to expand these programs and create more energy from the materials we collect.

• *There are challenges that exist, but we look forward with **optimism and innovation** to ensure we help Marin County continue as a global leader in resource conservation.*

ZERO EMISSION VEHICLES

Our commitment to resource conservation goes beyond sorting and recycle materials, **we also source clean energy and have reduced vehicle emissions.** Our facility uses solar power and our trucks run on renewable diesel from non-fossil sources as we continue to research zero emission fleet options. These efforts, along with the emissions which are avoided through our recycling programs result in our direct emissions fully offset 18 times. This 3rd party verified figure means that we are well beyond net-zero, but we won't stop there!



ELECTRIC TRUCKS

While electric waste trucks exist, they do not replace a truck one for one. We anticipate adding electric trucks in 2024 for our small support vehicles and hope electric options will improve over the next few years.



HYDROGEN TRUCKS

Hydrogen is still further out, but does offer a promising alternative to electrification where charging and battery performance could pose a problem. Hydrogen waste trucks are not readily available in the US, but we are monitoring the development of this technology.



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- **Search What Container an Item Goes In**
- **Receive Live Updates**
- **Report Service Issues**
- **Set Service Reminders**

IT'S ALL IN THE APP!

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CALIFORNIA LANDMARK PACKAGING LAWS FIGHT PLASTIC POLLUTION

Californians throw away the equivalent of 285 Olympic pools worth of plastic a day! Twenty-five percent of the plastic generated in California is packaging. Most packaging is not recyclable, filling up landfills at best or polluting the environment at worst.

The State of California recognizes this is a huge problem and recently passed a package of legislation into law to ensure California is on the forefront of reducing pollution from plastic packaging and single-use products. The new laws will set goals to reduce waste from these items at the source, as well as through recycling and composting, and will help us increase our recycling rates and decrease contamination in our containers recycling stream.



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