

The Landfill Gas Recovery Act

**LANDFILL GAS TO CONTINUOUS
RENEABLE ENERGY**

**LANDFILL GAS TO PROVIDE ENERGY
FOR NATIONAL SECURITY**

**CREATING THE BEST PRACTICE MODEL
FOR ALL LANDFILLS TO FOLLOW**

**CREATING ENERGY FOR MILLIONS OF
HOMES NATIONWIDE**

ENERGY FOR **AI DEVELOPMENT**

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The Landfill Gas Recovery Act

The natural decomposition process provides this energy that our nation needs for our future electrical demands.

The Landfill Gas Recovery Act will declare that Landfill Gas is a Natural Resource and focus on developing this renewable energy resource to its fullest potential.

Developing local landfill energy and supporting the local energy Grid.

It is in our national security interest to produce this continuous renewable energy resource from every landfill.

Over 2500 landfills nationwide have the potential to produce this energy for millions of homes for decades to come.

This will look at landfills as a natural resource of renewable energy as well as removing the methane from the environment.

This will upgrade landfill electrical output by using gas turbines that are twice as efficient as combustion engines that are mostly in use now.

This will mandate that all Landfill Gas Flairs, that each burn off millions of cubic feet of methane daily, must be used to create energy.

Recuperating the cost of retrofitting these landfills will come from providing renewable electricity for decades to the local community.

This will focus on **Biofuel Farms** capping the landfills and capturing 100% of the landfill gas and produce electricity to its fullest potential

This will create a network of power plants that combined power output will reduce the dependence of other inconsistent renewable energy.

These landfill gas power plants will produce electricity and renewable natural gas for decades as garbage will never stop filling landfills.

Landfills are nature's batteries that will keep producing energy for our future energy demands of EVs and AI data and manufacturing needs.

The Landfill Gas Recovery Act should go into effect as soon as possible as President Trump declared a national energy emergency.

This will combine efforts of DOE and EPA to reimagine Landfill Gas as a major energy resource that must be fully developed.

Bringing existing off the shelf technology to repurpose landfills nationwide into a consistent renewable energy resource for the local community.

Captures Landfill Gas and converts to **consistent renewable energy**.

Reduce Methane that is 72 times more potent than carbon dioxide.

Provides instantaneous reliable consistent renewable electricity.

Reduces GHG released to environment.

Uses this local resource to re-enforce outdated power grid.

Reduces transmission distance from producer to user.

Lowers reliance of fossil fuels.

Helps achieve state goals of 50% renewable energy by 2030.

Helps achieve state goals of GHG reduction.

Creates a model for state of the art design that every landfill can follow.

Creates a new energy sector, that is completely under developed at this time.

Should reduce energy cost to the local community.

Reduces dependence on out of state energy providers.

Reduces long term waste from Nuclear power plants.

Eliminates the need for long term storage batteries and their toxic fire hazard.

Creates consistent renewable energy for the increase in EV and AI future demands.

Energy is all around us. Don't waste it.

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Landfill Gas Biofuel Farm

Consistent Renewable Energy

Our Biofuel Farm project aims to capture 100% of this valuable consistent renewable energy.

This will provide energy for decades to come.

This form of landfill design and operation converts the landfill into a Bioreactor.



Prima Landfill Waste 4.3 million scf of LFG fuel daily

Our Prima landfill here in San Juan Capistrano Ca. burns off 3000 scfm of LFG that could produce 11 to 12 MW or more.

This alone could power up to 10,000 homes or more in
South Orange County now.
A total waste of this valuable consistent renewable energy.

SUSTAINABILITY OF BIOFUELS

Prospects and Challenges



Developing this consistent renewable energy for
future energy demands

Over 2000 landfills nationwide have no LFG collection system at this time.
Only 542 have any kind of collection. And still waste millions of
Cubic Feet of Methane daily.

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Landfill gas is the largest polluter but also a huge resource for consistent renewable energy.

Attachment A



PRELIMINARY CLIMATE ACTION PLAN 2024

TABLE 2-6

County of Orange Municipal BAU Emissions Forecasts (MTCO₂e)

Sector	Baseline	BAU Forecast	
	2018	2030	2045
Landfill	865,360	887,134	914,351
Natural Gas	52,498	56,287	61,019
Electricity	36,784	38,739	41,996
Employee Commute	19,498	20,904	22,661
Fleet	19,671	21,090	22,863
Water & Wastewater	1,703	1,825	1,979
Total	995,514	1,025,979	1,064,870

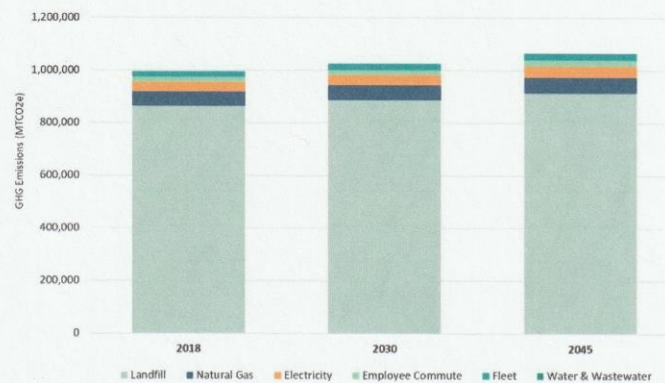


FIGURE 2-5

2030 and 2045 County of Orange Municipal BAU Emissions Forecasts

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New Steam Independent Power Inc.
The Clear Alternative
Prima Deshecha Landfill Waste To Energy Program

Landfill gas recovery / Biofuel to Energy.

The current situation at Prima Deshecha Landfill is burning off 3000 cubic feet per minute of landfill gas / biofuel 24 hours a day.

That is wasting over 4.3 million cubic feet per day of useful landfill gas / biofuel that could provide energy to our local community.

The current system just burns the biofuel at a temperature of 1,400 degrees 24/7.

Our plan would be to use the heat already produces and connect a steam power electric turbine to create energy for our community.

The current plan of doubling the capacity of our landfill to 8,000 tons a day that can provide the methane / biofuel to produce energy for decades to come.

We feel this is a opportunity to create a state of the art biofuel to steam power plant that could be a blueprint for all landfills to help mitigate the methane produced as garbage decomposes in its natural process. We estimate that 7500 or more OC households could benefit from this local energy resources as well as removing the methane contaminating our air.

We have the approval for research into a Landfill Gas / Biofuel to Energy plan for Prima Deshecha Landfill from local leaders in San Juan Capistrano and Orange County.

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Scott Voigts 3rd District Director
Tom Koutroulis Orange County Waste and Recycle Director
Aaron Washington Coastal Advisory Committee City of San Clemente CA
Jason Aspell AQMD Executive Officer
Jeff Hackett CalRecycle Manager Permits & Assistance Waste Permitting
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