



Presentation to:
Los Angeles County
March 2023



**NEW PLANET
ENERGY**

www.newplanetenergy.com



Ryan Bird

CEO, New Planet Energy, Former Area Manager for Progressive Waste

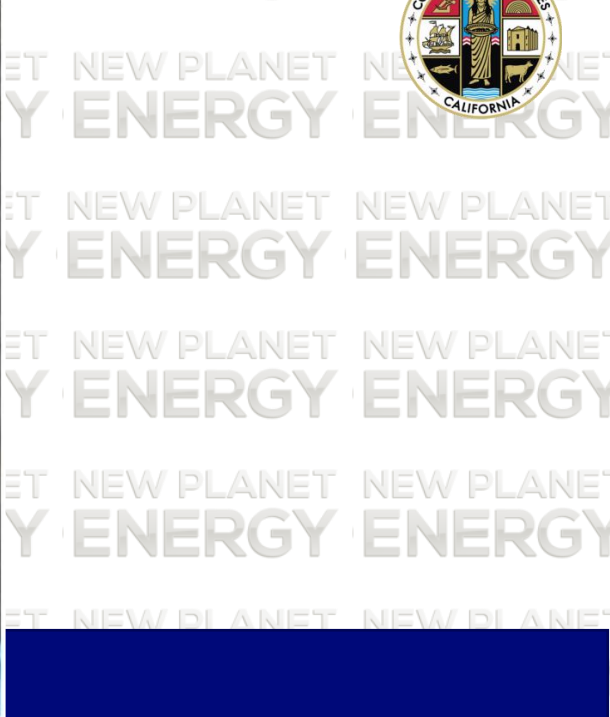
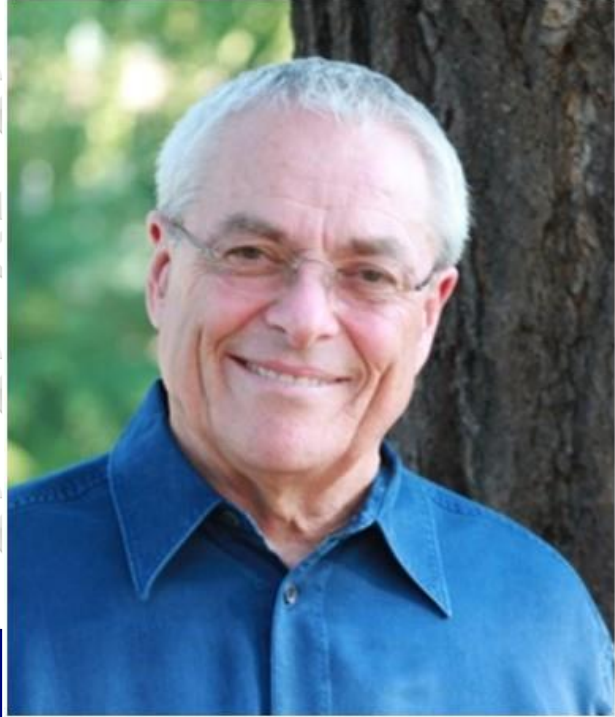
Extensive experience managing solid waste operations



John Cruikshank

Co-Founder & Director, New Planet Energy

Born and raised in Los Angeles, CA. Decades of experience in strategic business development and operations.



Tom Yonge, P.E.

Chief Engineer, New Planet Energy & President of Yonge Development Services, Environmental Engineer

Demonstrated history of leading engineering teams he renewable energy and land development.

Gary Petersen

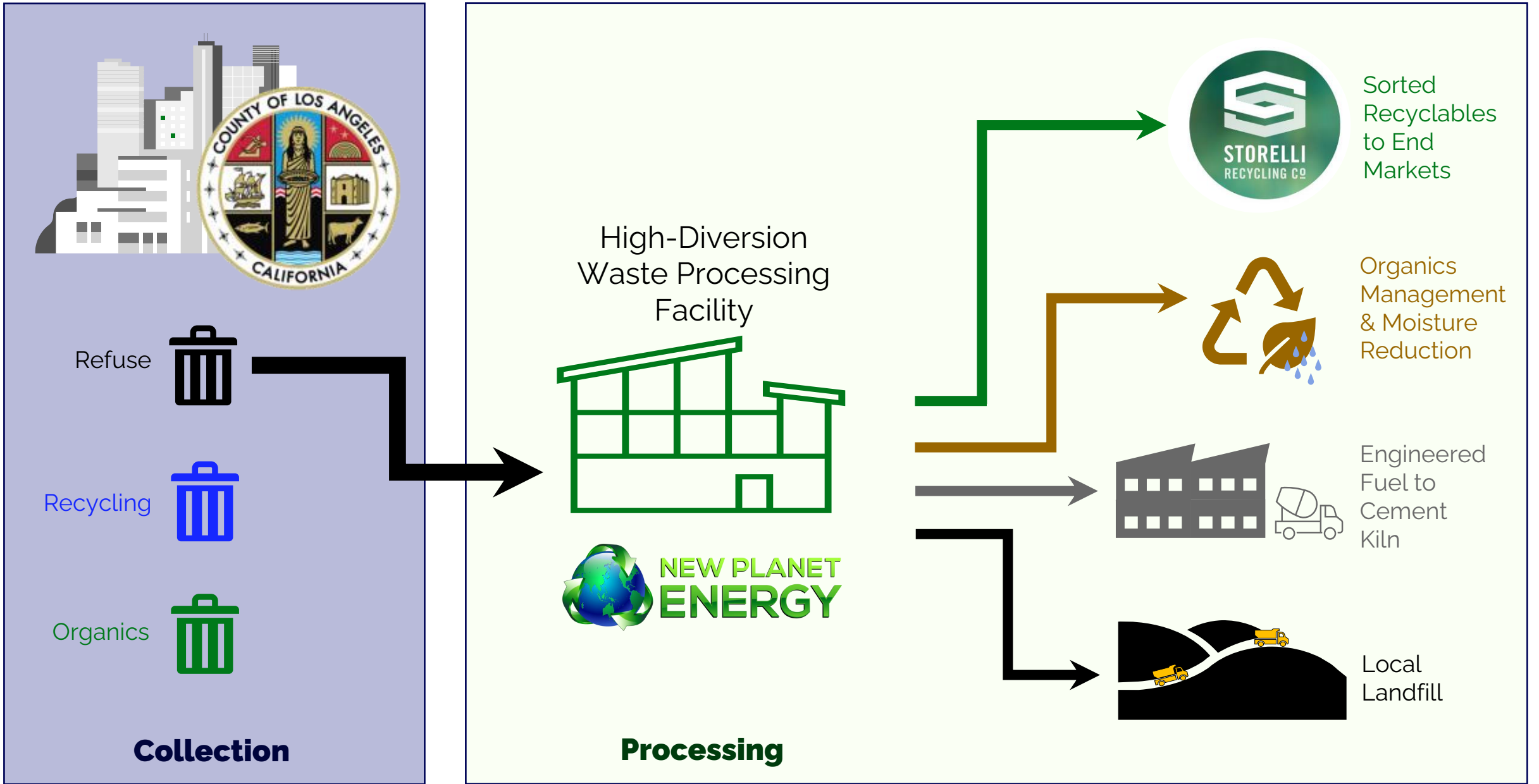
President of Environmental Problem-Solving Enterprises

One of the fathers of the modern environmental movement in the US with a focus on recycling and solid waste management. Based in California.



The New Planet Solution & Proposal for Los Angeles County

- New Planet proposes to develop a **High-Diversion Waste Processing Facility** that accepts refuse (black bins) and diverts up to 80% from landfills, exceeding the 75% diversion by 2025 requirements (*per CA and LA County*).
- Products from our facility include:
 - **Engineered fuel** - to be used as a substitute for coal in the cement-making process, reducing emissions.
 - **Recyclable materials** – sorted materials will be sold to the recyclable commodities market
 - **Recoverable organics**– New Planet's process will allow for organics management and moisture reduction
 - **Residual materials** – those materials that cannot be recovered, recycled, or converted to engineered fuel will be sent to a nearby landfill (up to 20%)





The New Planet Solution & Proposal for Los Angeles County

- We will create strong economic impacts with jobs during construction and **long-term, well-paying green jobs** (~65 FTE)
- **Help educate Los Angelenos:**
 - At our future Visitor's Center, residents and visitors will learn about recycling, waste diversion, climate change, and air quality—all for a better environment
- Together, we set an example for other communities.



Our Innovative Solution: Recycling for all



OUR INNOVATIVE SOLUTION: Landfill Diversion

- **Enables 100% participation in recycling**
 - **RECYCLING ACTIONS** applied to all black bins (household refuse).
 - Capture valuable recyclables inadvertently placed into the black bins.
- **80% Overall Diversion**
 - More recycling than traditional waste management solutions
 - *Residual materials to landfill (20%)*
- Can **seamlessly integrate** into Los Angeles' integrated solid waste management system.



OUR INNOVATIVE SOLUTION: **The Technology**

The Technology is Proven

- Creates a renewable engineered fuel for the **cement industry**, offsetting the use of coal and pet coke.
- Selected **best-in-class partners** with proven track records.
- Initial discussions with CalRecycle and their permitting and environmental team have been positive.
 - ✓ Los Angeles County representatives are encouraged to visit facilities that incorporate similar processes.



OUR INNOVATIVE SOLUTION: **The Technology**

Where the technology is working: Facility with the same technology and similar processes.

Wasatch Integrated Waste Management District (WIWMD) in Utah

- Engineered fuel-producing facility
 - ✓ will integrate with organics processing
- Employs over 90 people
- Single stream recycling + commercial mixed solid waste
- Opened in late 2020
- Two New Planet team members involved:
 - GBB was the Owner's Representative, CP Group supplied & installed all processing equipment..



www.wasatchintegrated.org/material-recovery-and-transfer-facility/

New Planet Energy's Proposed Facility, St. Louis, Missouri

- New Planet Energy will be responsible for all aspects of the facility
- 1,000 tons per day (TPD) will be processed
- Co-located within the Steam Loop property



Video Source:

www.wasatchintegrated.org/material-recovery-and-transfer-facility/

WASATCH
INTEGRATED
waste management district



▶ 0:15 / 8:46





Climate Change Benefits & GHG Reductions



NEW PLANET'S SOLUTION will help Los Angeles County meet its goals with:

- ❑ **Saving 3.32 million tons of GHG emissions** over the life of the project, which is a **281% improvement** over the current practice.¹
- ❑ **Diverting ~400,000 tons** of waste per year from area landfills. Landfilled waste is the 3rd largest source of biogenic methane gas released to the environment.
- ❑ Environmental benefits equal to:
 - Removal of **~38,000 cars** from the road each year,
 - Conservation of **~400 million gallons of gasoline** over the life of the project, or
 - Conservation of **~147 million cylinders of propane** over the life of the project.²
- ❑ **Social Justice** benefits³ stemming from **improved health conditions, cleaner air**, and **better-paying jobs**.

1. GHG emissions calculations estimates are based on output from EPA WARM model, version 15
2. Includes additional savings to adjust for engineered fuel (EMSW) combustion compared to 100% coal baseline fuel used by cement kiln
3. *Impacts, Risks, and Adaptation in the United States: Fourth National Climate Assessment*, doi:10.7930/nca4.2018



ADDITIONAL BENEFITS OF NEW PLANET ENERGY

Los Angeles will have price certainty on its waste disposal pricing over the life of the contract

- Extending the life of landfills through diversion
- We are committed to constantly lowering the amount going to landfills, *the ultimate goal is Zero.*

Transparent, Truth in Recycling, Accountability

- Annual independent audit of recyclables, renewable fuel, beneficial reuse, diversion rate, and environmental benefits,.

Technology Cluster, Zero Waste Center

- We want to set an example and be part of a new environmentally conscious center **attracting other related industries (Eco-park).**
 - We want to help educate Los Angelenos be aware and proud of what the County is doing for the environment.
-



The Ideal Facility Location

Industrial area for ease of permitting, operations

Local support

Ideally, we will have local, long-term offtake for recovered materials and engineered fuel.

Lancaster, CA



ALIGNMENT WITH GOALS SET BY Los Angeles County

Zero Waste Goal: 75% Landfill Avoidance by 2025 *(2022 Plan)*

➤ **New Planet's Facility = 80% Landfill Avoidance**

Questions:

- *How will the County meet its 75% landfill diversion goal by 2025?*
- *Has the County performed a recent independent waste audit of materials disposed at landfills?*
- *Does the County currently receive audits from its MRF operators to ascertain how much material is disposed of in landfills? What is the percentage of residuals from area MRFs?*



We're willing to commit to develop & build the facility, if you're willing as well.

Anticipated cumulative cost of facility:
~\$120M

New Planet needs:

- long-term waste supply contracts (10 years and two 5-year options), and
- amount & pricing per ton delivered.

We are working on long-term off-take agreements.

We have highly qualified financial partners, likely to use Municipal Bond financing.



PARTNERSHIP POTENTIAL:

Los Angeles County + New Planet Energy

1. Would Los Angeles County be willing to issue a letter of intent regarding tonnage and mutually beneficial tipping fees?
2. Are you willing to cooperate with us to bring the facility to the finish line?

Q&A

Thank You!

Contact info:

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Additional Information



NEW PLANET'S CLIMATE CHANGE BENEFITS



| | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 | Y7 | Y8 | Y9 | Y10 | Y11 | Y12 | Y13 | Y14 | Y15 | Y16 | Y17 | Y18 | Y19 | Y20 |
|--------------------|-----------|-----------|-----------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Alternative | (224,835) | (449,670) | (674,505) | (899,340) | (1,124,175) | (1,349,010) | (1,573,845) | (1,798,680) | (2,023,515) | (2,248,350) | (2,473,185) | (2,698,020) | (2,922,855) | (3,147,690) | (3,372,525) | (3,597,360) | (3,822,195) | (4,047,030) | (4,271,865) | (4,496,700) |
| Existing | (58,971) | (117,942) | (176,913) | (235,884) | (294,855) | (353,826) | (412,797) | (471,768) | (530,739) | (589,710) | (648,681) | (707,652) | (766,623) | (825,594) | (884,565) | (943,536) | (1,002,507) | (1,061,478) | (1,120,449) | (1,179,420) |
| Cumulative Savings | (165,900) | (331,800) | (497,700) | (663,600) | (829,500) | (995,400) | (1,161,300) | (1,327,200) | (1,493,100) | (1,659,000) | (1,824,900) | (1,990,800) | (2,156,700) | (2,322,600) | (2,488,500) | (2,654,400) | (2,820,300) | (2,986,200) | (3,152,100) | (3,318,000) |

Cumulative GHG Emissions for 468,000 tpy of MSW



KEYS TO SUCCESS: **Financing**

New Planet can finance a \$120 million capital investment.

Our team of highly qualified financing partners has deep experience in the financing, design, construction, and operation of solid waste management facilities:

STIFEL

*Full-service investment banking firm
350+ municipal banking, sales, and trading professionals
37 municipal finance offices across the U.S.*

Jefferies

*Largest full-service independent investment bank in the U.S.
~\$40 billion of assets
~\$12 billion of total firm capital*



NEW PLANET ENERGY: Leadership

Together, we are led by group of forward-thinking environmental entrepreneurs with proven track record of growing innovative companies.

New Planet's team includes:

- **Recycling & solid waste experts & engineers**
- **Experienced facility operators**
- **Environmental experts**
- **Municipal strategists**
- **Financial planners**

Richard D' Abo, Co-founder & Chairman

Proven business leader, fundraiser, visionary, and capacity builder.

Jay Johnson, Vice-Chairman & Treasurer

Award-winning business leader; financial acumen; risk management.

Ryan Bird, CEO

Solid waste collections procurement & performance expert; Project Manager

Charles Appleby, Director

Former CEO of Advanced Disposal; a waste industry leader.

Gary Petersen, President of Environmental Problem Solving Enterprises

Environmental Planning Expert with 50+ years of experience

John Cruikshank, Co-Founder & Director

Renewable energy, regulatory affairs, government relations expert, L.A. focus

Clifford Franklin, President of FUSE3

Media and public relations expert; Opinion researcher

Tom Yonge, Chief Engineer

Environmental engineer, Renewable energy, Design-Permit-Construction

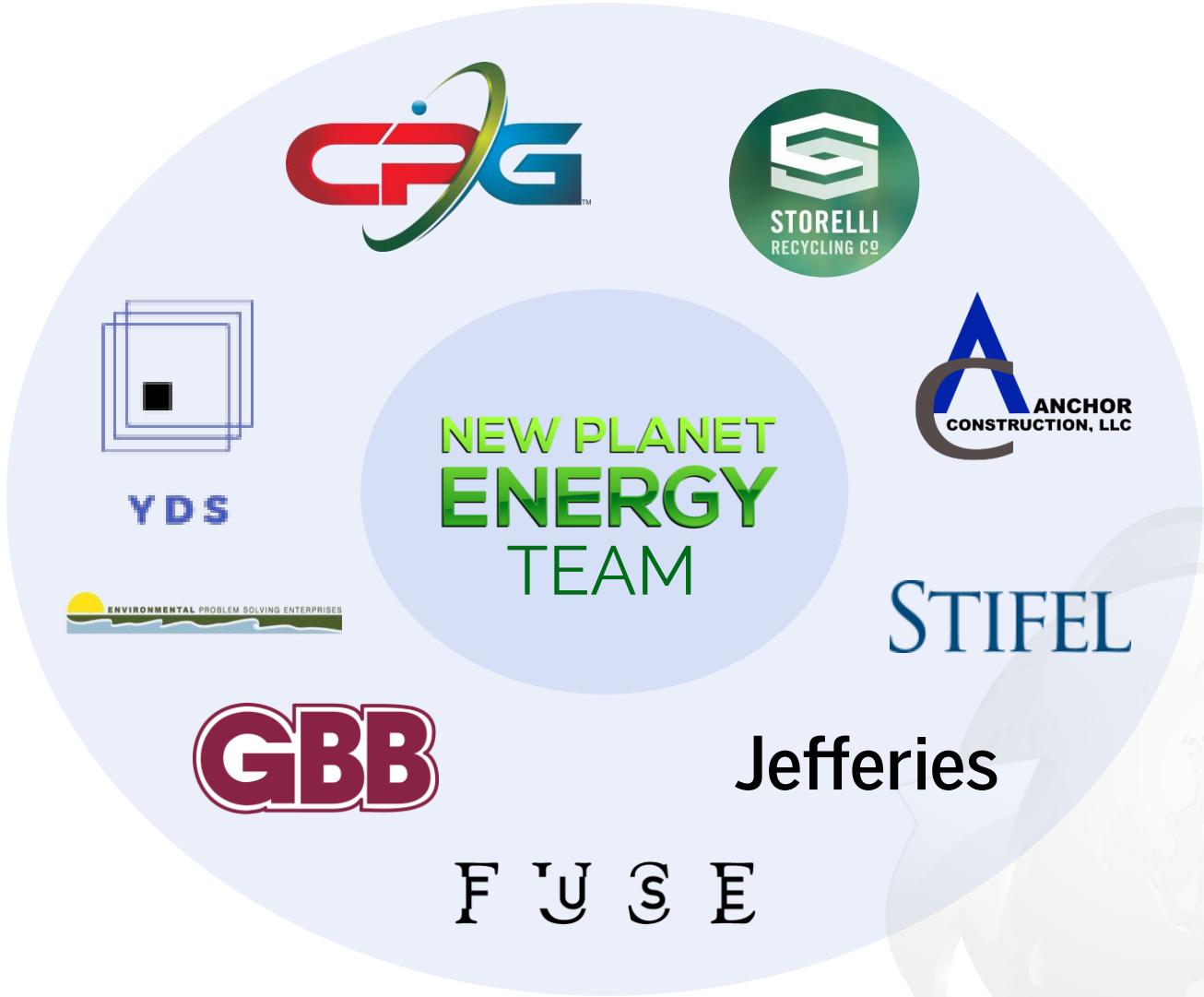
Andrew Watts, Director

Expert in finance, investments, & strategic planning



OUR INNOVATIVE SOLUTION: Project Team

We have a team of highly qualified and influential project partners with deep experiences in the **planning, financing, permitting, design, construction, and operation** of recycling & solid waste management facilities.





OUR INNOVATIVE SOLUTION: **Offtake Partners**

Our plan for offtake of our Products and By-products:

We have Letters of Interest from local, reputable offtakers.

Recycling
Brokerage



Major International
Cement Manufacturing
firm for Engineered Fuel

**NEW PLANET
ENERGY**
OFFTAKE PARTNERS

Local landfill for residual
waste materials