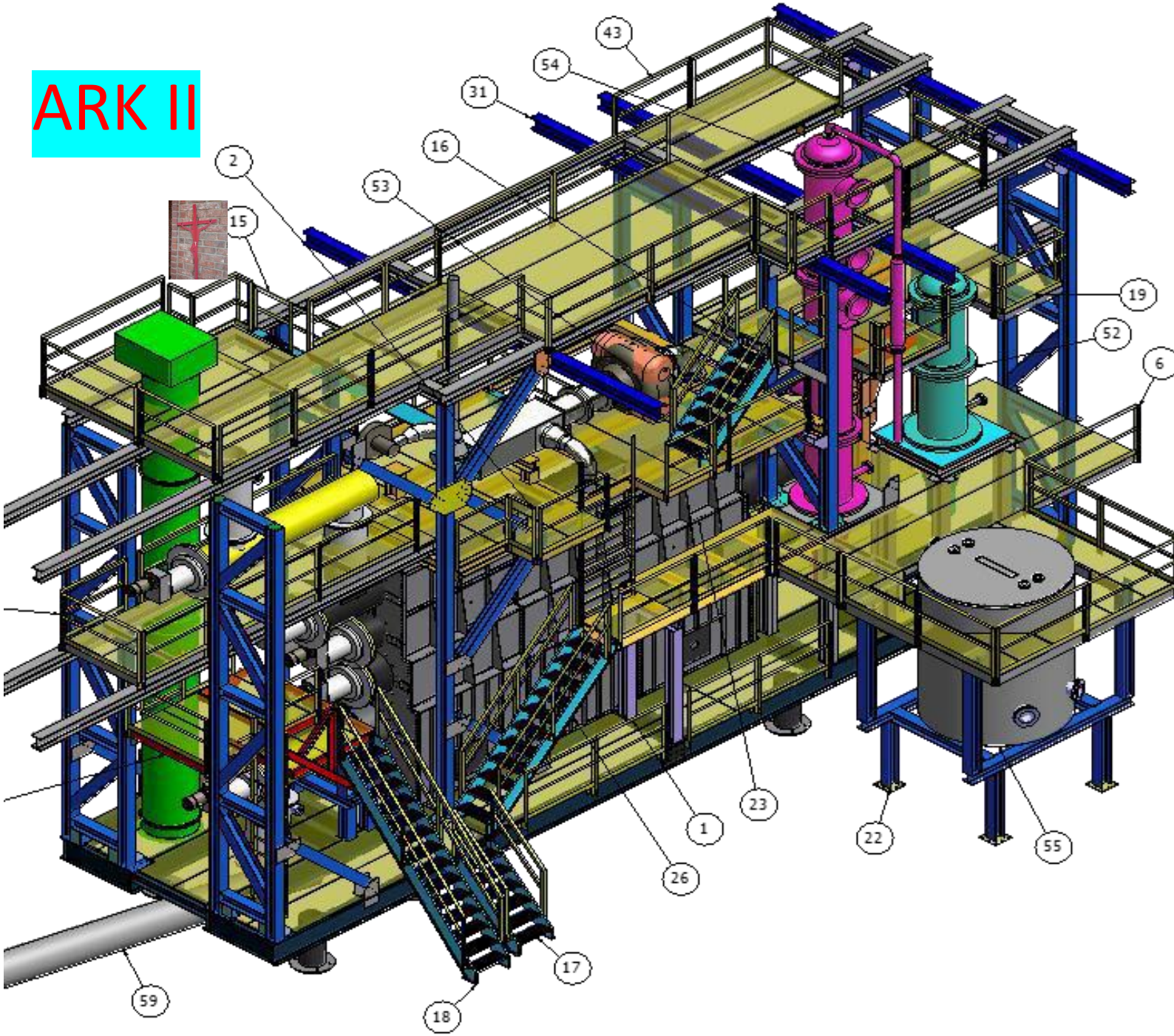
As Christ is the Rock in which His church is Built

The ARK will be built on the same rock to help spread the Gospel.

Advanced

Reforming

Kinetics



1st ARK Mike and Phil collaborate 2004

Rubber Only

Ran 30,000 lbs of rubber in Tyler Moved to Ennis ran another 20,000 lbs before project died #200 lbs/hr



Refined Solvent oil

– Still made highly aromatic oil that was successful in treating numerous oil wells

Carbon Black

Tested by Goodyear approved to go back into tires

99% of Total Thru Put Recycled

2nd ARK 1st patent filed by Phil 2007

Products run New London Tx

1,000,000 lbs

Tire/scrap rubber at #800lbs-#1500lbs/hr

20,000 lbs Texas Coal
30,000 lbs Wyoming coal

30,000 lbs Colorado Shale Rock
20,000 lbs Canadian Oil Sands
10,000 lbs Canadian Tailing Ponds
20,000 lbs Pine Chips
20,000 lbs Hickory Chips
20,000 lbs Corn



Near Zero Emissions Process

Refined solvent oils

1000 drums of Aromatic oil. 100s of field test. 45% oil from a tires Qty of tire oil.

COAL
33 drums of Aromatic Oils similar to Tire oil
20-25% of coal thru put Becomes oil

3rd Generation ARK 4000-8000 lbs/HR to be Completed

Production Runs 0

The MISSION

To be Totally self funded Within 3 years of start-up With at least 10-50% of profits going exclusively to local churches for mission work, orphanages and Child protection services, Christian counseling and family mentoring, Food banks and the homeless.

Just 1 machine running reforming tires will net over $8,000,000 per/year.



The ARK takes the worlds unwanted trash and discarded waste and
Gives it a rebirth into 3 renewed valuable products

1. A refined fuel oil
2. Carbon Black dry solids
3. A reusable process Gas

We Give back to the community

1. Electricity
2. Organic produce (vegetables and micro greens)
3. And clean drinking water

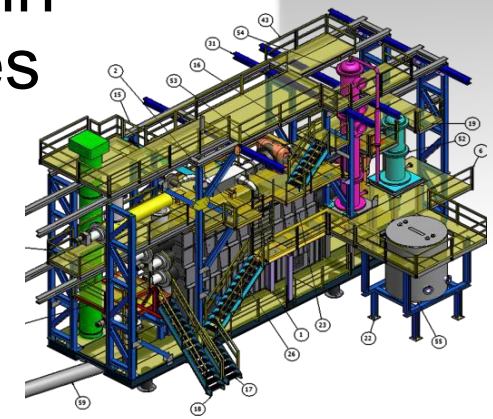


All in Just 12 minutes Think of Value can the ARK Brings for disaster Relief

“The Valley of the shadow of death”

Estimated one billion tires reach the end of their lives every year. Over 300 million are generated per year by the U.S. alone. Furthermore, an estimated four billion tires are currently already in landfills and stockpiles in the US as well.





Wasted, forgotten, full of
Potential energy. What stories
Of there sinful paste could be told

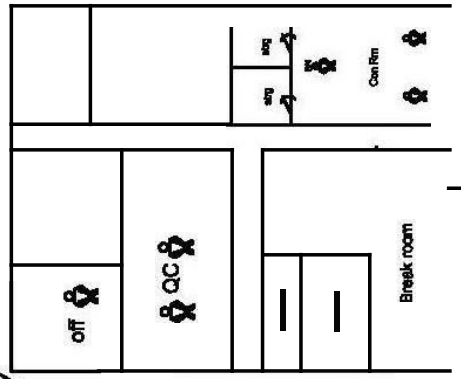
Cauley Metalworks Facility, Community and Fellowship Goals

#1

Engage with employees in these catagories

1. assure them that guidlines for raises and bonuses will be in employee contract.
2. we will aid there families when needed with health insurance, daycare and Christian Counseling
3. If they belong to a church we wish to get invdved along side them for Bible studies and mission support

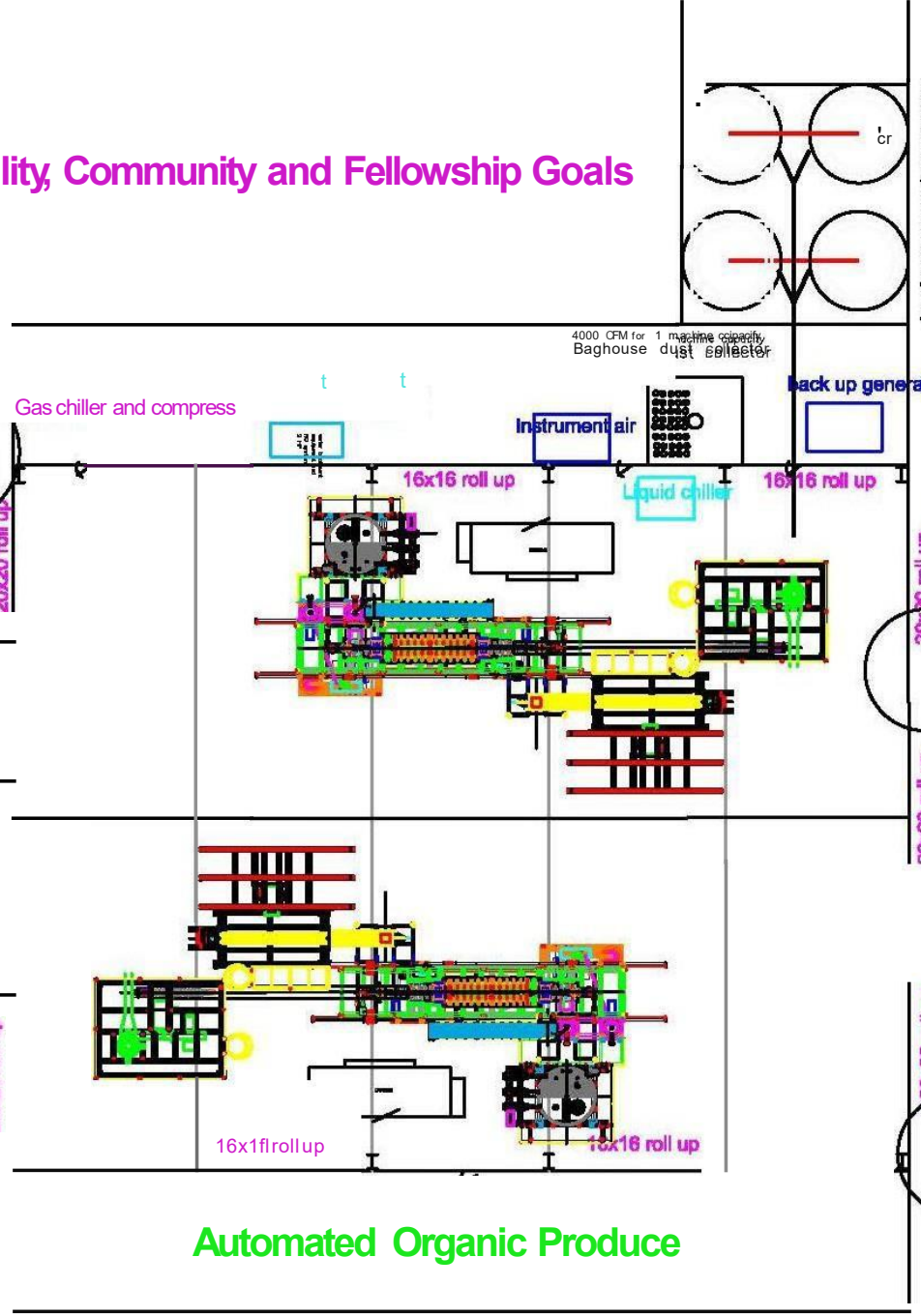
Christian book library



#2

Reach out to local Churches to help Identify needs.

1. Local orphanages and or Children support needs
2. Food banks and or homeless programs
3. Finacial needs within their church that we can aid and pray for.



Automated Organic Produce

#3

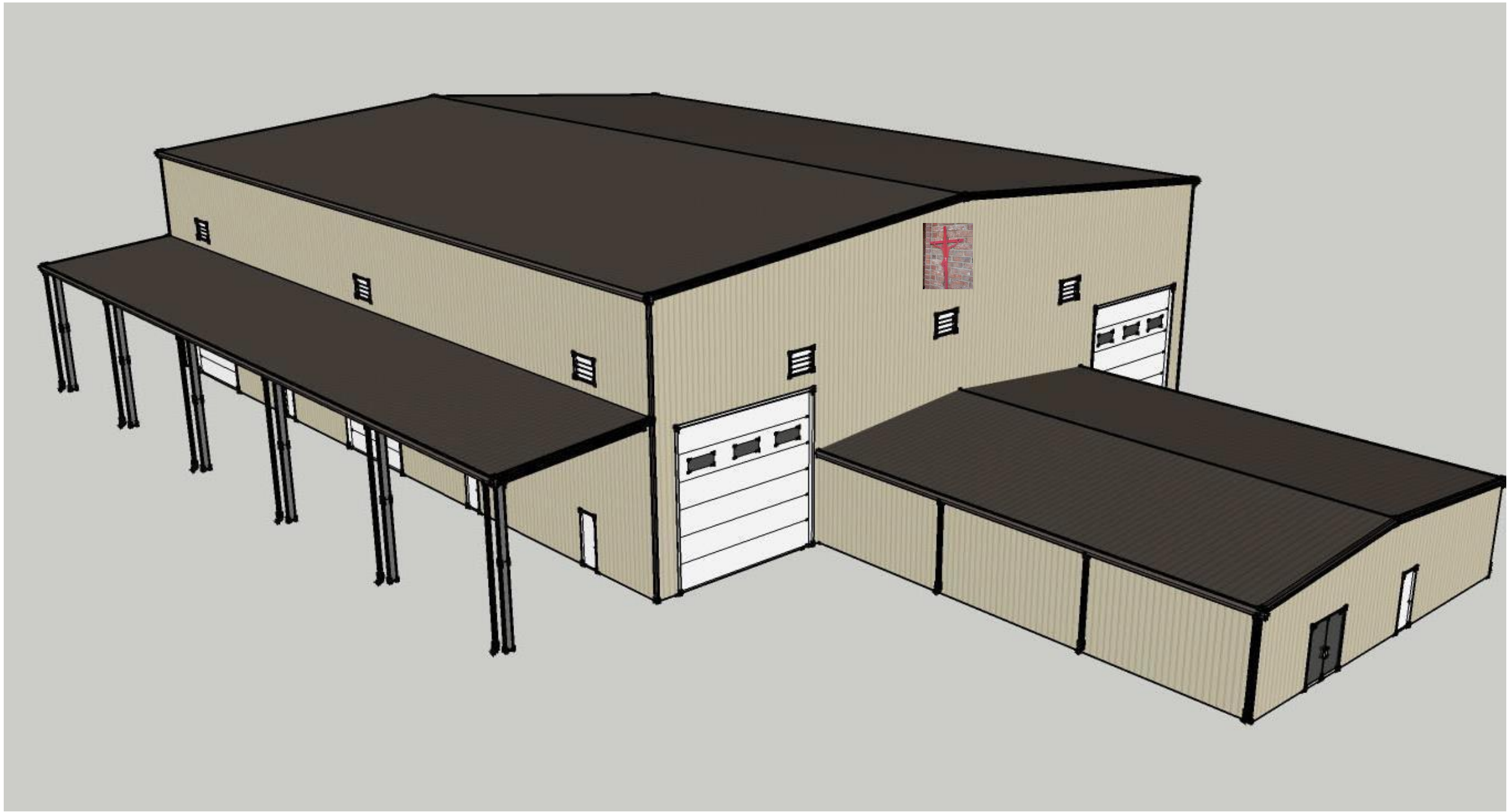
Reach out to bcal Schools to help Identify needs.

1. In High school support vocational programs
2. Offer science and Math support by setting up field trips and or ARK educational programms
3. Identify Christian schools In the area and help with their on going needs as well.

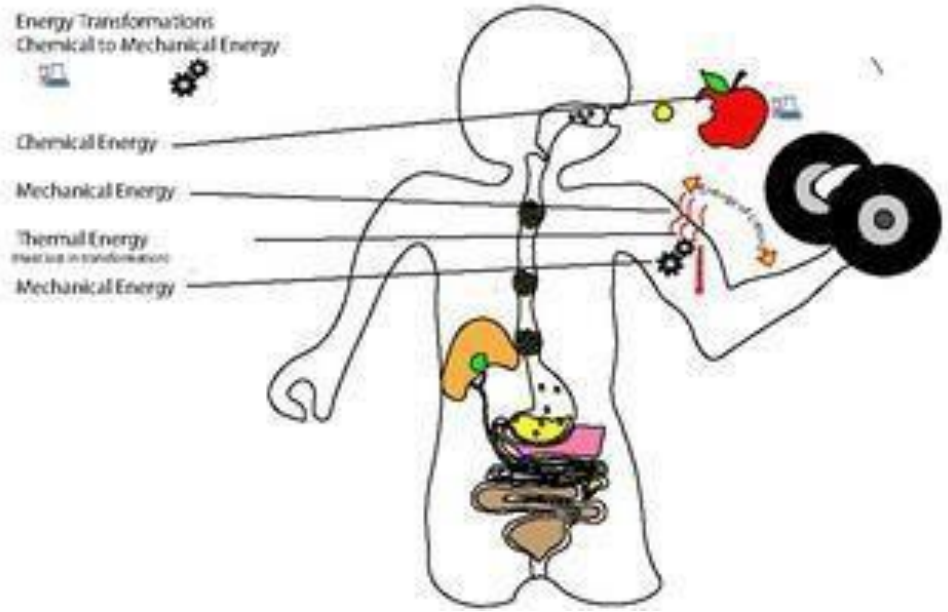
#4

Reach out to bcal Governmental authorities.

1. Work in identifing alternate environmental issues that ARK process can effectly process to help dean up local eye sores.
2. Identify mpoverished areas and help raise up poor neighboorhoods by building facilit es and bring employment and hope via the Gospel message.



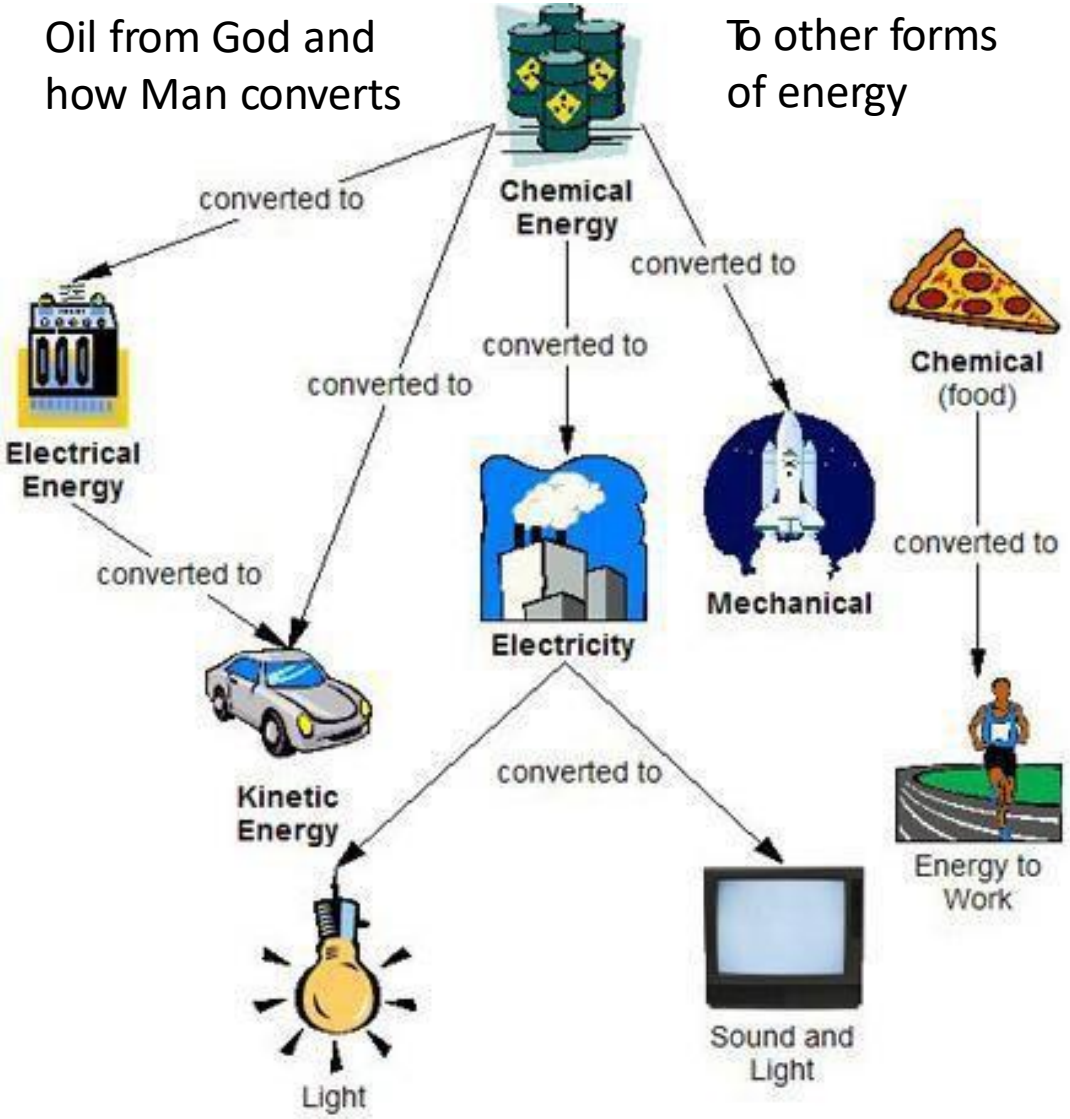
Energy Conversion Naturally
From Potential Energy to
Kinetic Energy to perform work



The ARK takes advantage of these God given relationships reforming one form of energy to another.

Oil from God and how Man converts

To other forms of energy



Gas	Gross Heating Value		Net Heating Value	
	(Btu/ft³)	(Btu/lb)	(Btu/ft³)	(Btu/lb)
Acetylene (ethyne) - C_2H_2	1,498	21,569	1,447	20,837
Benzene	3,741	18,150	3,590	17,418
Blast Furnace gas	92	1,178	92	1,178
Blue water gas		6,550		
Butane - C_4H_{10}	3,225	21,640	2,977	19,976
Butylene (Butene)	3,077	20,780	2,876	19,420
Carbon to CO_2		14,150		14,150

Everything In Gods world has an ENERGY Value. Most common unit to measure it by is the British Thermal Unit (BTU)

Grade	Heating Value (Btu/gal)	Comments
Fuel Oil No. 1	132,900 - 137,000	Small Space Heaters
Fuel Oil No. 2	137,000 - 141,800	Residential Heating
Fuel Oil No. 4	143,100 - 148,100	Industrial Burners
Fuel Oil No. 5 (Light)	146,800 - 150,000	Preheating in General Required
Fuel Oil No.5 (Heavy)	149,400 - 152,000	Heating Required
Fuel Oil No. 6	151,300 - 155,900	Bunker C

Species	Million BTU's per Cord	Pounds Per Cord	Pounds Per Cord	BTU/lb green	BTU/lb dry
		Green	Dry		
Douglas Fir	26.5	5050	3075	5248	8618
Port Orford Cedar	23.4	4370	2700	5355	8667
Lodgepole Pine	22.3	4270	2580	5222	8643
Ponderosa Pine	21.7	4270	2520	5082	8611
Sitka Spruce	21.7	4100	2520	5293	8611
White Fir	21.1	3190	2400	6614	8792
Red Fir	20.6	4040	2400	5099	8583
Incense Cedar	20.1	3880	2350	5180	8553
Coast Redwood	20.1	4040	2330	4975	8627
Live Oak	36.6	7870	4840	4651	7562
Dogwood	30.4	6520	4025	4663	7553
Oregon White Oak	28	6290	3710	4452	7547
Tanoak	27.5	6070	3650	4530	7534
Bigleaf Maple	22.7	4940	3000	4595	7567
Cottonwood	16.8	3475	2225	4835	7551

Solid fuels*	[Btu/lb]
Anthracite coal	14015
Bituminous coal	12984
Carbon	14101
Charcoal	12726
Coke	11178
Lignite (brown coal)	6019
Peat	7309
Petroleum coke	13457
Semi anthracite	12683
Sub-Bituminous coal	10490
Sulfur (s)	3955
Wood (dry)	6965

The BTU is **defined** as the amount of heat required to raise the temperature of **one** pound of water by **one** degree Fahrenheit.

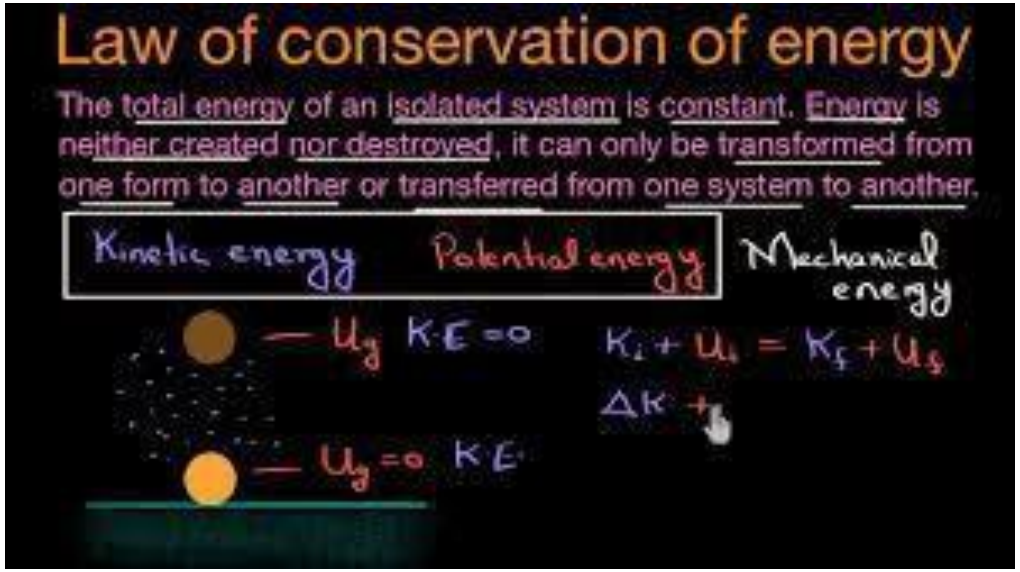
Simple Math converts common things we don't think about into BTU value to allow simple comparison

Energy Metrics Conversion Table	
Energy Unit	**Energy Equivalent**
1 kilowatt-hour (kWh)	3,412 British Thermal Unit (Btu)
1 Therm	100,000 Btu
1 cubic foot of Natural Gas	1,000 Btu*
1 gallon #2 Oil	140,000 Btu*
1 gallon #4 Oil	144,000 Btu*
1 gallon #6 Oil	152,000 Btu*
1 gallon propane	91,600 Btu*
1 ton coal	28,000,000 Btu*
1 boiler horsepower (hp)	9.81 kW
1 horsepower	746 W
1 ton refrigeration	12,000 Btu/hr
*Varies slightly with supplier	

Fuels like Gas have lower BTU value than a heavy oil#6 but due to a Higher flash point, explodes and that energy runs a motor more efficiently

Comparative Thermal Values of Fuels

Thermal Value	**1,000,000 Btu 1 MMBtu**	**24,000,000 Btu 24 MMBtu**	**91,600 Btu 91.6 MBtu**	**125,000 Btu 125 MBtu**	**139,000 Btu 139 MBtu**	**150,000 Btu 150 MBtu**	**3,412,000 Btu 3.412 MMBtu**
Natural Gas 1,000 Btu/cu ft.	**1,000 cu ft 1 Mcf**	24,000 cu ft 24 Mcf	91.6 cu ft	125 cu ft	139 cu ft	150 cu ft	3,412 cu ft
Coal 12,000 Btu/lb	83.333 lbs	**2,000 lbs 1 ton**	7.633 lbs	10.417 lbs	11.583 lbs	12.5 lbs	284.3 lbs
Propane 91,600 Btu/gal	10.917 gal	262 gal	**1 gal**	1.365 gal	1.517 gal	1.638 gal	37.3 gal
Gasoline 125,000 Btu/gal	8 gal	192 gal	0.733 gal	**1 gal**	1.112 gal	1.2 gal	27.3 gal
Fuel Oil #2 139,000 Btu/gal	7.194 gal	172.662 gal	0.659 gal	0.899 gal	**1 gal**	1.079 gal	24.5 gal
Fuel Oil #6 150,000 Btu/gal	6.666 gal	160 gal	0.611 gal	0.833 gal	0.927 gal	**1 gal**	22.7 gal
Electricity 3,412 Btu/kWh	293.083 kWh	7034 kWh	26.846 kWh	36.635 kWh	40.739 kWh	43.962 kWh	**1,000 kWh 1 MW**



The Law of the ARK say It makes more energy than it Consumes. Man says that's not suppose to Happen

	btu/lb	btu per hour in Machine
Tire BTU/lb	12000	48,000,000
By product BTU/lb		
Aromatic oil 45%	19600	35,280,000
Carbon Black 45%	6900	12,420,000
Produced Gas 10%	28975	11,589,841
	Total BTU	59,289,841
The ARK Uses		btu per hour used by machine
natural Gas heat source		500,000
BTUs of Electricity		844,000
	total BTU	1,344,000
Extra Energy the ARK has		9,945,841

The Science of mans laws of Energy

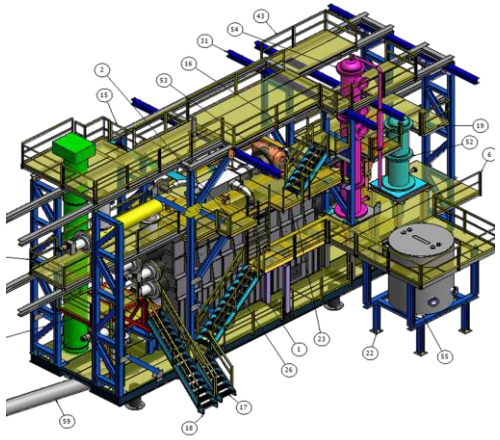
2 of the 3 laws of thermodynamics THE ARK CHALLENGES

•First law of thermodynamics: When energy passes, as work, as heat, or with matter, into or out of a system, the system's internal energy changes in accord with the law of conservation of energy. Equivalently, perpetual motion machines of the first kind (machines that produce work with no energy input) are impossible.

Within hours of initial start-up of the ARK we will store the excess Gas and never need GRID power again. Pretty close to perpetual motion.

•Second law of thermodynamics: In a natural thermodynamic process, the sum of the entropies of the interacting thermodynamic systems increases. Equivalently, perpetual motion machines of the second kind (machines that spontaneously convert thermal energy into mechanical work) are impossible.

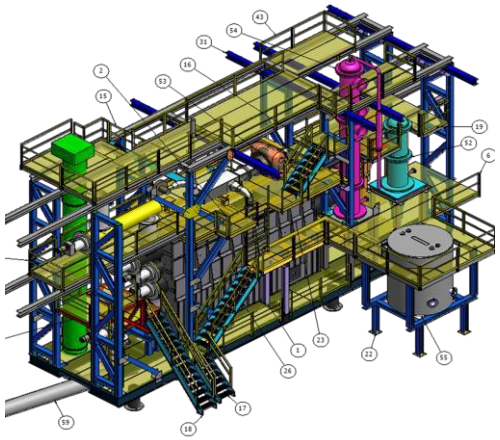
The ARK produces both an endothermic and exothermic reaction within a vacuumed atmosphere. The ARK produces a superheated steam at low Temperature 700F at 10 PSI. The ARK produces molecular static electricity via rotational friction. ALL of which will challenge this theory as well.



.

Typical of the Green Wood

6000#/hr	20% Moisture content	
	btu/lb	btu per hour in Machine
Pine Wet BTU/lb	5082	20,328,000
By product BTU/lb		
Aromatic oil 20%	19000	15,200,000
Pine chips 55%	7500	16,500,000
Produced Gas 5%	20450	4,090,000
Total BTU		35,790,000
The ARK Uses		
natural Gas heat source		500,000
BTUs of Electricity		844,000
total BTU		1,344,000
Extra Energy the ARK has		**14,118,000**



Coal Grade	Heating Value	
	(Btu/lb)	(kJ/kg)
Anthracite	12910	30080
Semi-Anthracite	13770	32084
Low-volatile bituminous	14340	33412
Medium-volatile bituminous	13840	32247
High-volatile bituminous A	13090	30499
High-volatile bituminous B	12130	28262
High-volatile bituminous C	10750	25047
Sub-bituminous B	9150	21319
Sub-bituminous C	8940	20830

The ARK energy Used does not change

6000#/hr	27.5% Moisture content	
	btu/lb	btu per hour in Machine
SasK/Texas lignite Coal BTU/lb	9150	54,900,000
By product BTU/lb		
Aromatic oil 22%	19296	28,943,662
Clean coal solids 37%	11895	26,406,900
Produced Gas 10.5%	21021	4,204,200
Total BTU		59,554,762
The ARK Uses		
natural Gas heat source		500,000
BTUs of Electricity		844,000
total BTU		1,344,000
Extra Energy the ARK has		3,310,762

What makes THE ARK truly a gift from God is the total Energy produced compared to total energy required

Wood 35,790,000 BTU/HR produced

1,344,000 BTU/HR required 35:1 Efficiency

Coal and Tires on average 59,554,762 BTU/HR produced

1,344,000 BTU/HR required 59:1 Efficiency

The ultimate reason why THE ARK is extremely profitable is the Amount of energy to run THE ARK vs the amount of energy it produces.

TXU Texas Lignite

6000#/hr	**27.5% Moisture content**	
	btu/lb	btu per hour in Machine
SasK/Texas lignite Coal BTU/lb	9150	54,900,000
By product BTU/lb		
Aromatic oil 22%	19296	28,943,662
Clean coal solids 37%	11895	26,406,900
Produced Gas 10.5%	21021	4,204,200
	Total BTU	59,554,762
The ARK Uses		
natural Gas heat source		500,000
BTUs of Electricity		844,000
	total BTU	1,344,000
Net Energy Efficiency		**59 to 1**

TIRES

	btu/lb	btu per hour in Machine
Tire BTU/lb	12000	48,000,000
By product BTU/lb		
Aromatic oil 45%	19600	35,280,000
Carbon Black 45%	6900	12,420,000
Produced Gas 10%	28975	11,589,841
	Total BTU	59,289,841
The ARK Uses		btu per hour used by machine
natural Gas heat source		500,000
BTUs of Electricity		844,000
	total BTU	1,344,000
Net Energy Efficiency		**59 to 1**

What we do with the excess energy? We will put these "Grow Racks" in Cargo containers and or 11,000 SQ/FT "Grow Warehouses"

The emissions from the ARKs oven will be sent to a 40' cargo container

The process gas will provide electricity run by a generator

Excess water we have will water the produce

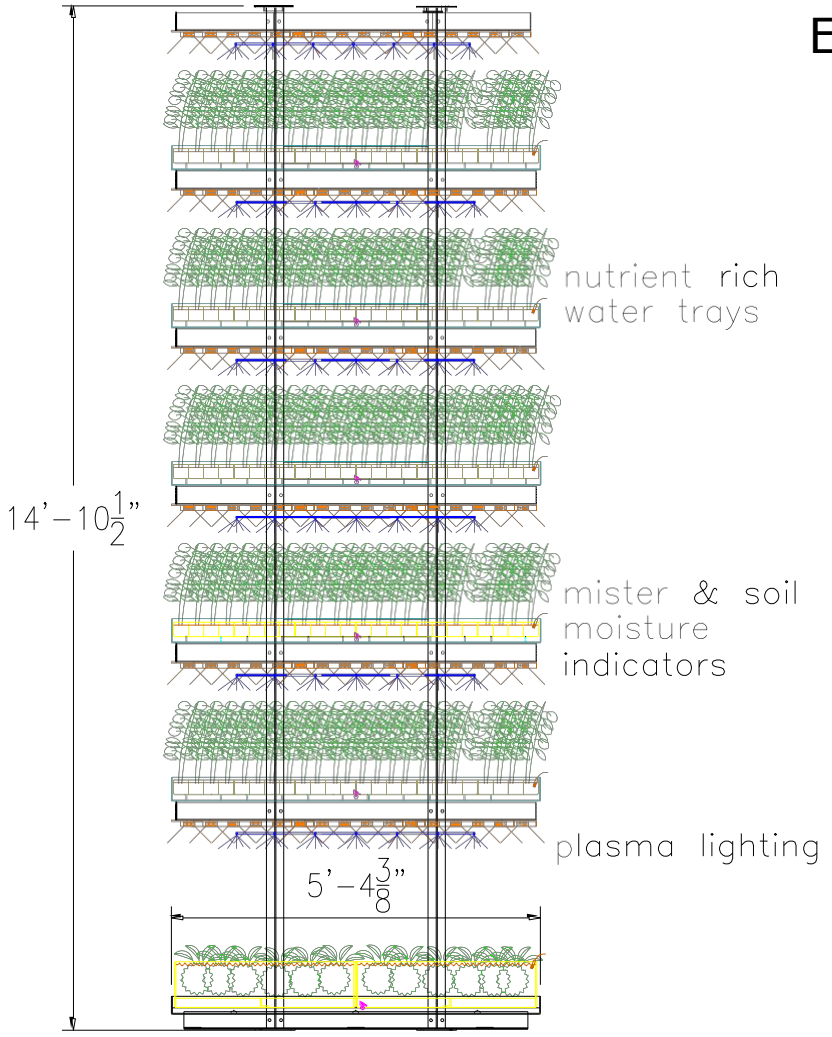


Current Growth rates

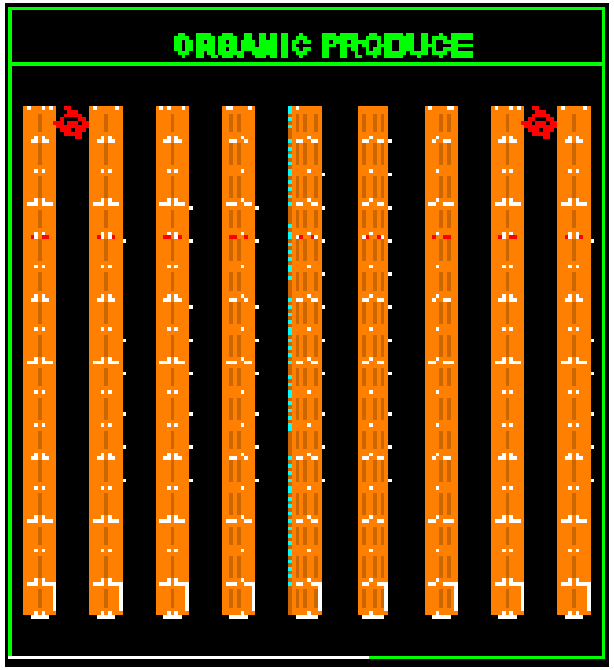
- Micro-Greens and spices in 15 days
- Celery, Lettuce and Carrots 20 days
- Tomatoes and Vine Fruits 30 days

With the addition of CO2, Plasma lighting, and automation of soil moisture, humidity and nutrients, the above timelines will be cut in half

Grow Warehouse



11,000 SQ/FT = 1 Acre= 6 acres of food
Every 30 days



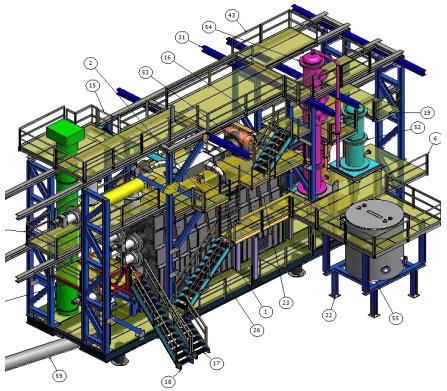
24/7 R&D and Global Training Center with Biblically Centered Library, Christian Counseling Offices, Grow Warehouse sustained by ARK I and ARK II



THE GLOBAL MISSION HELPING HUMANITY IN TIME OF NEED AND DISASTER RELIEF



THE ARK II







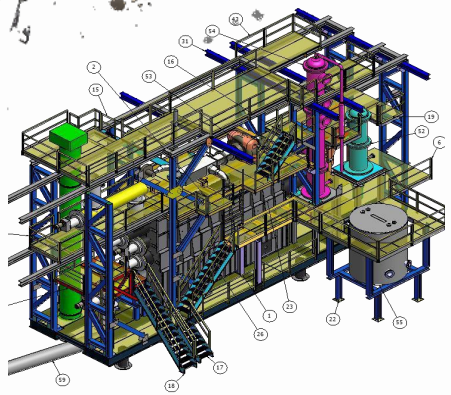
EVERYTHING YOU SEE IN THESE PICTURES THE ARK CAN CONVERT IMMEDIATELY ONCE IN PLACE.

TO POWER, VIA FUELS OR PROCESS GAS, CLEAN WATER, AND IN 15 DAYS NUTRITIONAL VEGATABLES.

Our “Modern Society” has failed God miserably





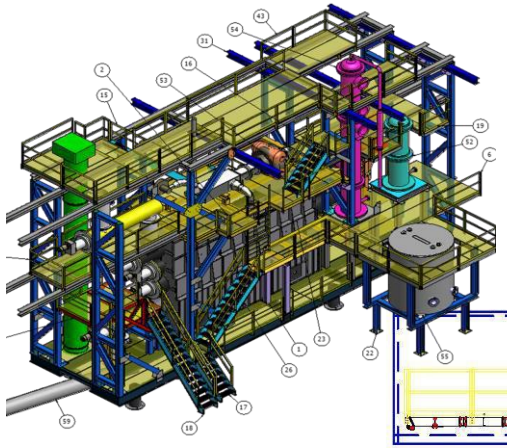




GENESIS 2:15 "AND THE LORD GOD TOOK THE MAN AND PUT HIM INTO THE GARDEN OF EDEN TO DRESS IT AND TO KEEP IT".

So how can THE ARK bring Hope?

Future 20 ton/hr

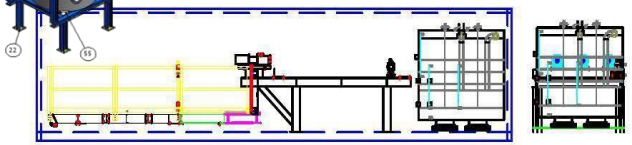


Current ARK to be completed is designed to be broken down and fitted into cargo containers and Shipped any were in the world in less than 5 days

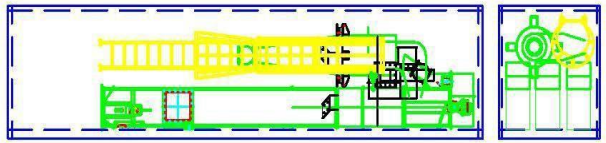
Current ARK that needs finishing
2-4 ton/hr ARK



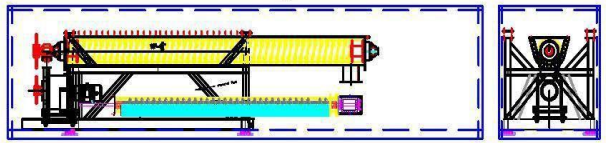
OIL WATER SEPERATOR



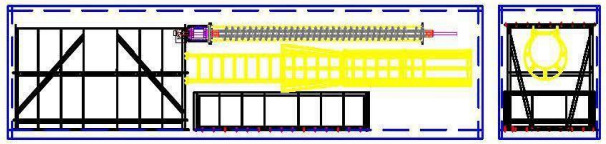
BUCKET ELEVATORS CARBON HANDLING



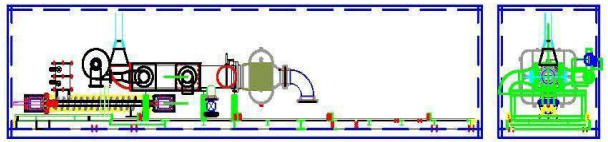
WEIGH HOPPER 20,000 LBS CAP



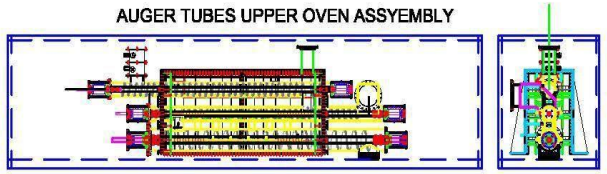
WEIGH HOPPER 20,000 LBS CAP



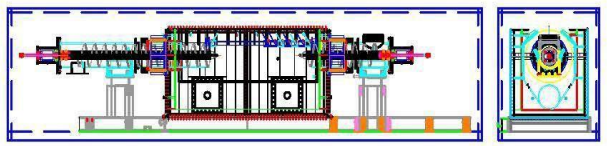
STEAM PRODUCER AIR TO AIR HEAT EXCHANGER



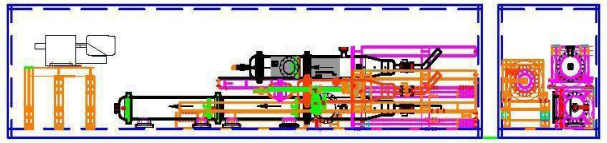
AUGER TUBES UPPER OVEN ASSYEMBLY



MAIN SKID LOWER OVEN REACTOR



PACK COLUMNS AND CONDENSING



Support Equipment for The ARK Mission





Imagine 24
cargo containers
Rolling out to disaster relief.
ALL with scripture and pictures
Painted on them for the
Glory of Christ



4 EA FOOD GROWING CONTAINERS

BOWL MIL GRINDER AND GENERATOR

PRIMARY GENERATOR AND AIR COMPRESSOR

2EA GAS PROCESSING AND GAS STORAGE

STARTUP PROPANE FUELS FOR GENERATONTORS

CONTROL HOUSING FOR INSTRUMENTATION



LIVING ACCOMADATIONS 6 WORKERS

TOOL BOX SPARE PARTS

MISC NEEDS FOR STAFF

WATER PROCESSING AND PURIFICATION

MICRO REFINERY TO CONVERT
PROCESS OILS TO FUELS 2EA

11 years ago the UN
And The World Bank said
They would help fund if I
Had something
to show them



ARK I

What I Pray that God will provide thru His people To Complete the ARK and finally begin to fulfil the MISSION



2 separate immediate goals

1. $7,000,000 to complete existing ARK
   This will allow short term demonstration Runs
2. Additional $4,000,000 for building, land and basic materials handling and permitting to maximize thru put at full production.

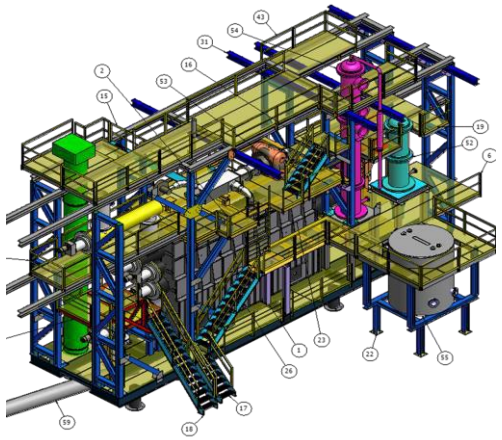
Cauley Metalworks is an LLC and will set up an escrow acct for funding

ARK I



- 49% of Cauley Metalworks will be made available for investors
- No money will be used until first 3mil is Raised
- Money is secured with an EPC Bond which guarantees payback if the ARK fails to perform

- Financial schedule for build out to be fully disclosed



Corporate Structure

Manufacturing profit stream created
Via JV partners leasing ARK
6 Million for ARK I
16 Million for ARK II
Self financed facilities at cost

Investment in TheARK will be an an investment in all 3 entities equally. 3 separate entities affords the necessary protection for the Intellectual Property.

Cauley Metalworks Inc. (CMW) Manufacturing

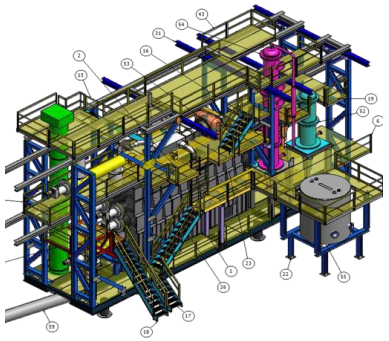
Joint Venture or ArkTech. Facility Operations

Joint Venture or EnviroCHEM By Products Sales and Distribution

Manufacturing corporation is currently viable and will restructure to make available 49% investment opportunity for 6 million dollars

CauleyMetalworks and Phillip Cauley are partnered with Fulcrum Energy, a Canadian Entity, For further Patent security and strategic roll out of the ARK

CMW maintenance
And operations agreements
EnviroCHEM controls distribution Of all by-products



Stay focused on first year Goal Finish ARK I
Lab data for 7 different markets for AO777
Reestablish Past Markets were by products were sold
Large scale demonstration for the coal industry
Finalize engineering and upscale requirements for 30 ton ARK II

First 6 Months				
Complete ARK	$7,619,541.59			
Complete ARK Facility	$2,634,800.00			
	$10,254,341.59			
Revenue Distribution Beginning year 2			Anticipated revenue to be distributed quarterly	
Total fixed expenses	$1,033,064.00			
Total Variable	$490,066.32		$1,766,970.00	
	$1,523,130.32			
Solvent/ Fuel oil $4 pr/gl	$7,989,120.00			
Carbon solids .10 cents pr/lb	$1,497,960.00			
Cost of High Quality TDF	-$2,419,200.00			
	$7,067,880.00			

Strong foundation established with Fulcrum Energy Fulcrum has Financed multiple International Patents Centered on Wilwerding /Cauley Technology

Anticipated Growth within 6 months of ARK start up due
to being able to show this amazing process

Noble Oklahoma Plant	6 each ARKS shovel ready financing Triple-M investor option and or Equity Partner
Saskatckewan Power Plant	30 each 20 ton/hr ARK II provincial and institutional financing
Southern Pacific Rail Road	4 each ARKs recycle railroad ties

International Facilities
Rwandan Pastors have paid a territory fee
Fulcrum Australia
Fulcrum England
Fulcrum China
Fulcrum Asia
Fulcrum India
Fulcrum Mexico
Have all been established with people on the ground

Tyler facility will be worldwide center
For training and R & D
ARK II upscale located here in Tyler area
Completed Training Manual approved for College credits Approved by Kilgore Huge Manufacturing facility

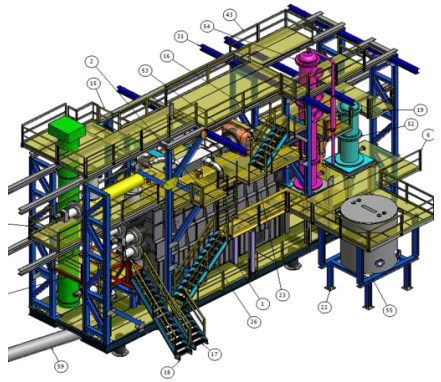
Additional North American future Locations were negotiations have taken place

Small cities around Calgary want MSW facility	4 ARK II
City of Edmonton MSW	4 ARK II
Ft McMurry CA tailing ponds and tire facility	4-30 ARK II
Houston Port Authority coal and waste div	6-20 ARK II
El Paso Tire and MSW facility	8 ARK I
Akron Ohio Facility for scrap rubber and tires	12 ARK II

ARK I

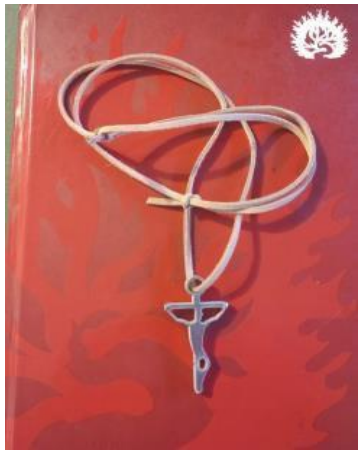


ARK II





- The Core Values of Cauley Metalworks Inc Will Always be Christ Centered and Biblically Grounded on The Rock God as Provided



CAULEY
METALWORKS

ARK I



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ARK II

