

newgold™

What Are We Waiting for?  
The Secret to Successful  
Energy Management  
September 5, 2018





newgold™ New Afton Mine

# OBJECTIVE



Thank you... gracias

Good Morning

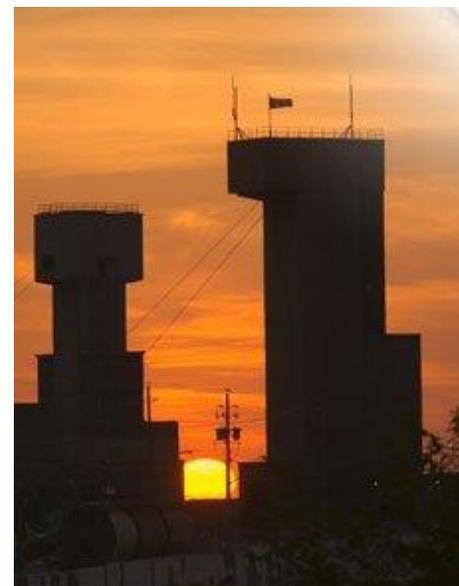






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***sifto***®  
***Canada Corp.***  
*A Compass Minerals Company*



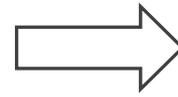
# newgold™

New Afton Mine



## Chile

World Leading Clean  
Energy Destination

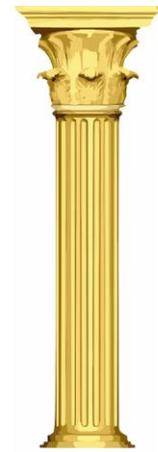


Importance of  
Energy efficiency



Energy Efficiency  
One of the most  
important sources  
of energy

5





30%

\$\$\$





## Simple Secret to Successful Energy Management

Present

- Fundamental approach to improving energy efficiency

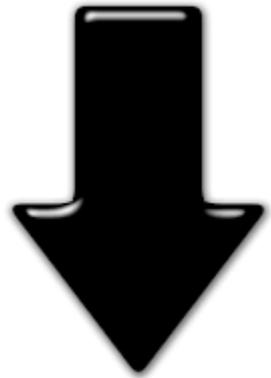


SAI GLOBAL  
ISO 50001  
Energy



- New technology
- Innovative projects
- Renewables

# New Technology



- 1 GWh per year

- \$200,000

- 10 Years

Positive NPV

- 39% IRR

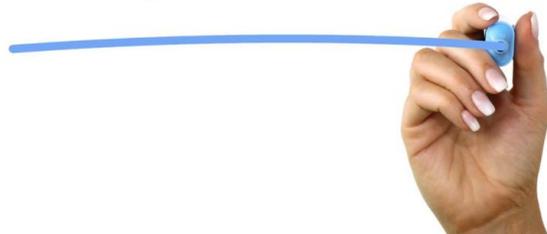
- 2.5 year payback

What if...?

INVEST



ENERGY CONSERVATION



MINDSET



As a result...

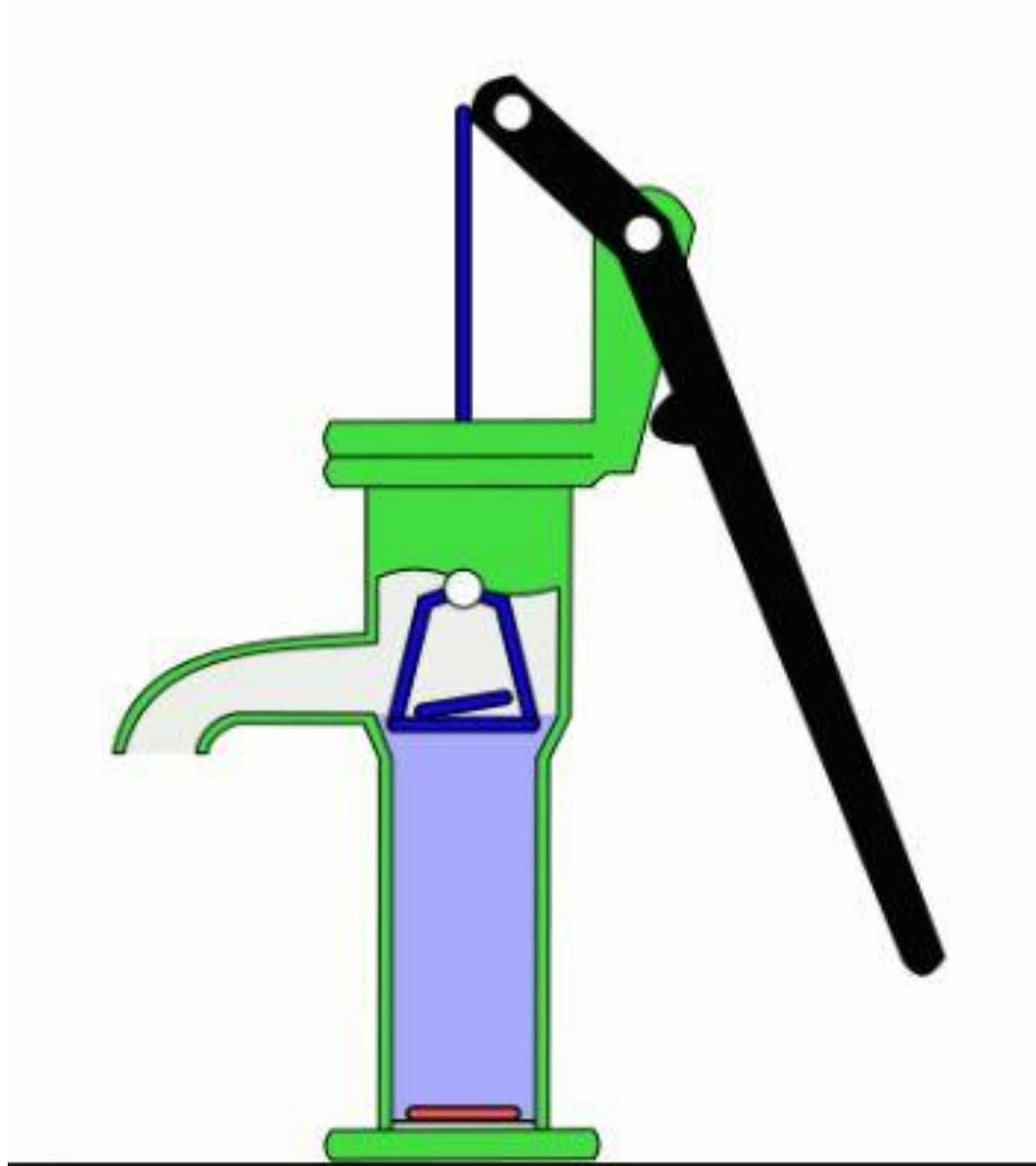


- So much
- So easily
- So cost-effectively

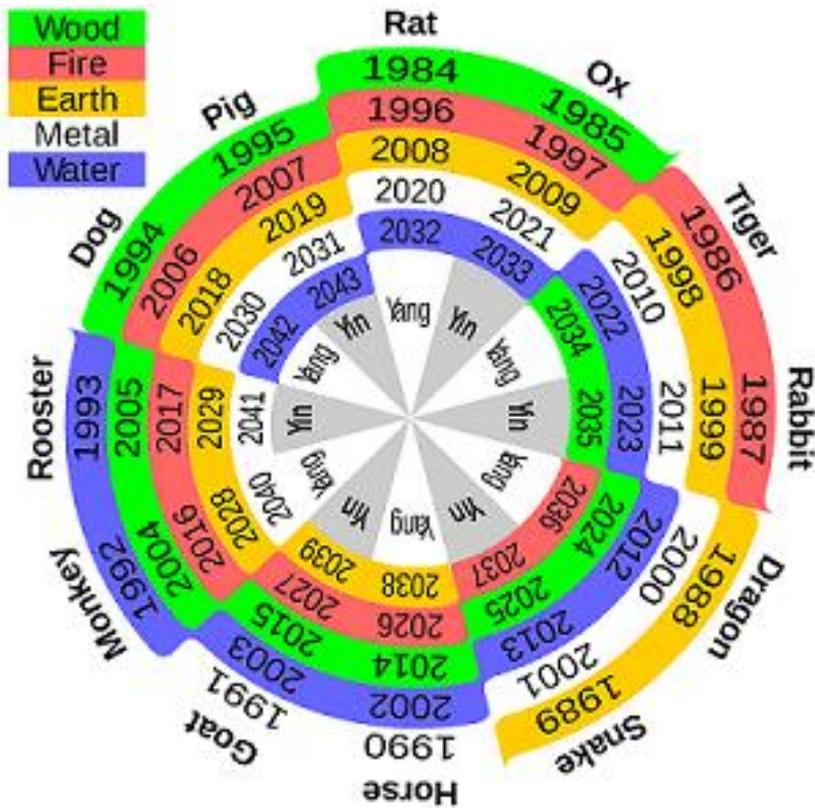








# Accepted



More efficient way?



Do we just accept that  
that is the way things are?





# Energy Management System

The logo for ISO 50001 energy management is centered on a rectangular background. The background features a blurred, long-exposure photograph of light trails in various colors (red, orange, yellow, green, blue) against a dark background, suggesting motion and energy. The text 'ISO 50001' is written in a large, bold, black, sans-serif font. Below it, the words 'energy management' are written in a smaller, black, sans-serif font.

**ISO 50001**  
energy management

>7,500 Certified sites

Successful implementation



- ISO 50001 Support
  - Cost-shared financial assistance
  - 50% eligible costs
  - Maximum – CAD \$40,000



- Ministry's Innovation Clean Energy Fund
  - Advance clean energy
  - Support GHG reduction
- ISO 50001 Support (with NR Canada)
  - Cost-shared financial assistance
  - 75% eligible costs
  - Maximum – CAD \$80,000



- ISO 50001 Support
  - Sustainable Energy Management Program
  - Industrial Energy Manager
  - Gap analysis
  - Mock audits
  - Coaching support



As at May 7, 2018

- 16 Organizations
- 162 Facilities/Buildings

# Why ISO 50001?

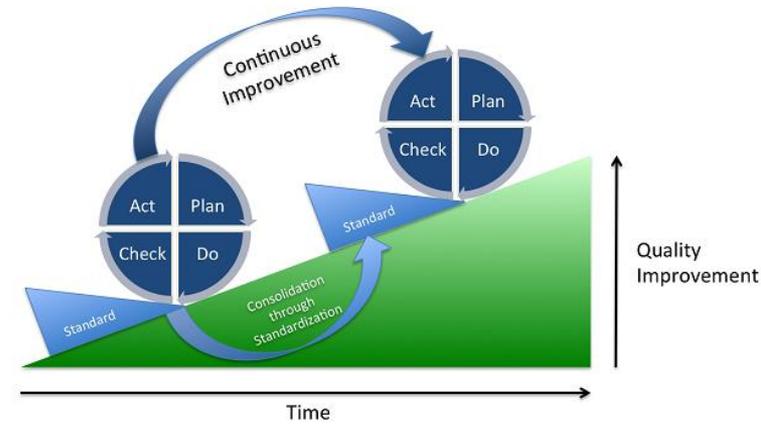
newgold™

Committed to sustainable mining and  
social responsibility

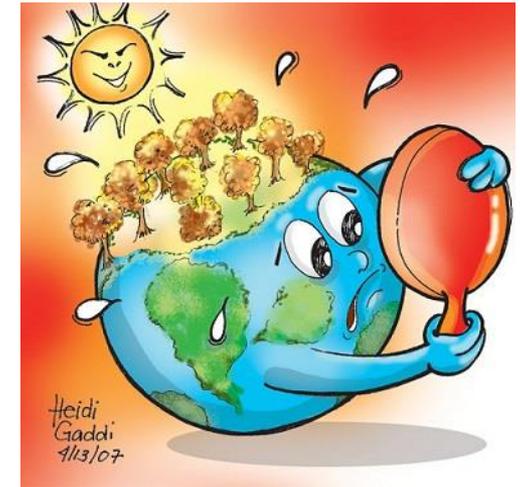


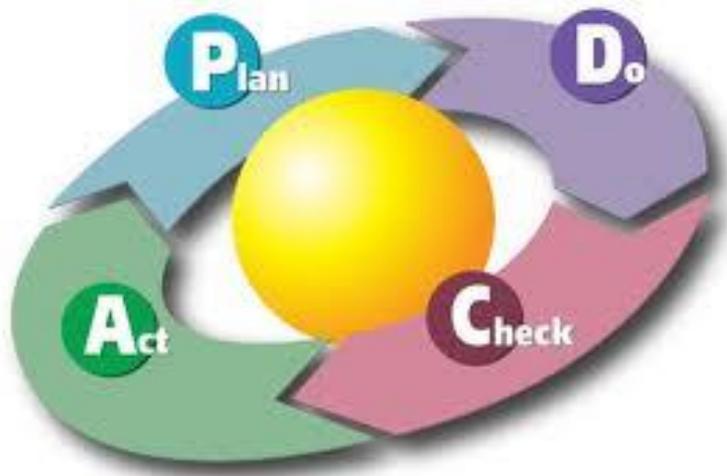


# Why ISO 50001?



# Why ISO 50001?





- Energy Review
- Energy Baseline
- Energy Objectives & Targets
- Action Plan
- Check Performance
- Monitor, Document, Report



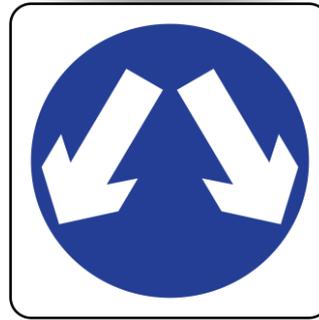
## Instead...

- Lessons
- Insights



**“Production has, and always will, trump  
energy management”**

***“Producción triunfar sobre eficiencia  
energética”***



MAINTENANCE

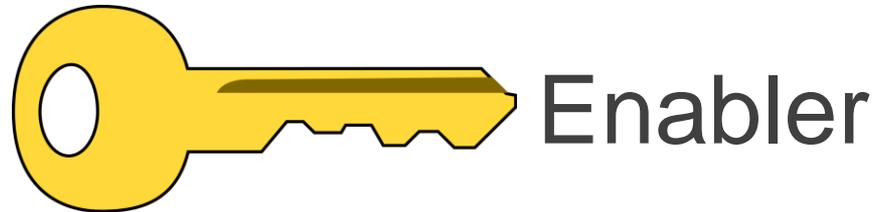


ENERGY CONSERVATION





ENERGY CONSERVATION



+



Savings > Investment



It's almost a sales job

- Constantly selling
- Face-to-Face
- Tell them what this will do for them...
- Sell the benefits...



Maintain enthusiasm



Be patient but persistent



Just have to do it!

# Implementation vs. Integration





SAI GLOBAL  
ISO 50001  
Energy



**“Andrew’s Thing”**

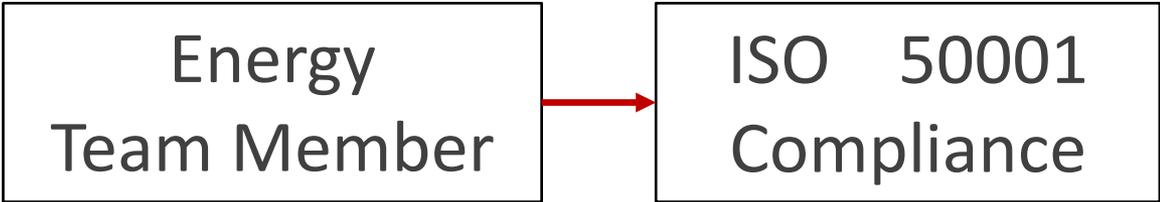
**OUCH!**





© Can Stock Photo





# Benefits?



It's people, not systems, who manage energy



# Benefits?

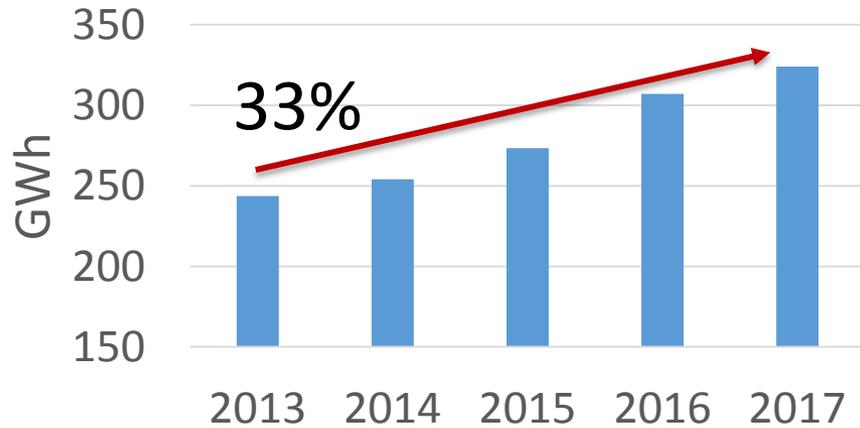
- Savings – 8% ???



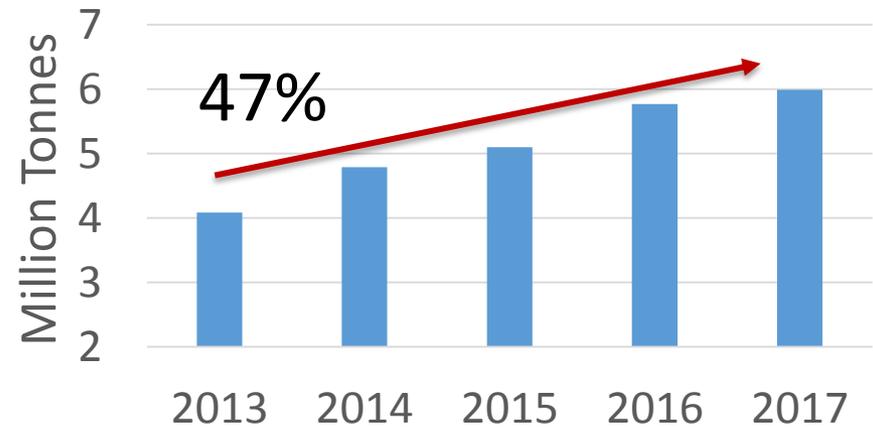


# Our Results

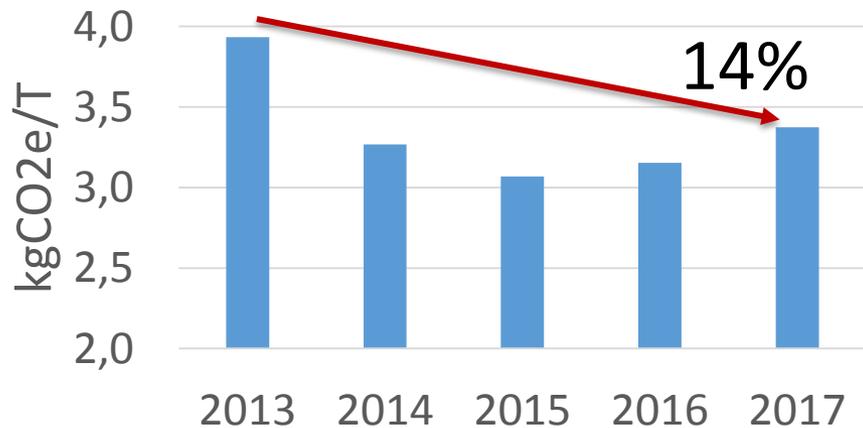
## Total Energy



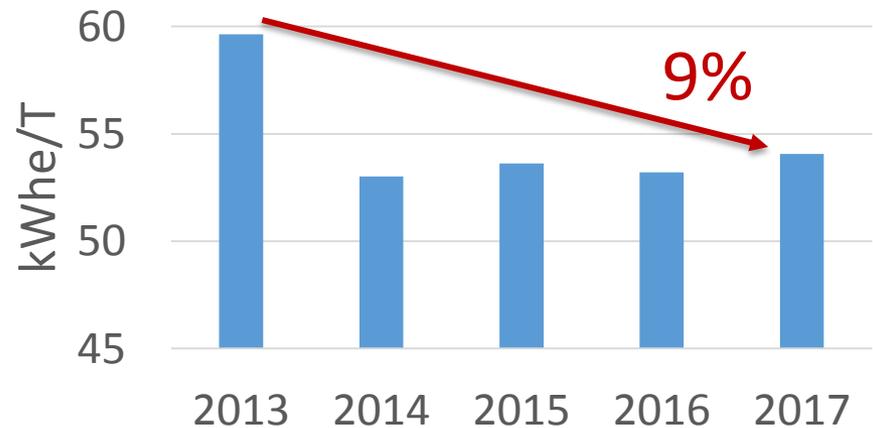
## Dry Tonnes Milled



## EnPI (kgCO<sub>2</sub>e/T)



## EnPI (kWhe/T)





32 GWh

8%





- IRR > 50%
- Minimize impact on environment
- Fostering an energy conservation mindset



**But! But! But!**

~~About excuses~~

- Making a decision
- Committing
- Getting Stuck in
- Making it happen

✓  
About

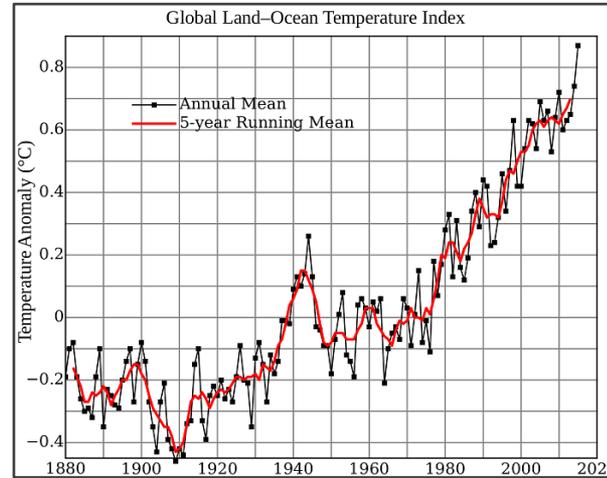
**G.O.Y.A.**



## Improve



- Be efficient & conserve energy
- Implement Energy Management System



Are you waiting for...







Positive Difference





newgold™ New Afton Mine

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New Gold Inc., New Afton Mine

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